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KINGS WATER ALLIANCE MANAGEMENT ZONE PRELIMINARY MANAGEMENT ZONE PROPOSAL ADDENDUM (FOR PRIORITY 2 TULARE LAKE SUBBASIN AREA)

PREPARED FOR

KINGS WATER ALLIANCE

PREPARED BY

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GEI CONSULTANTS, INC.

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Acronym	Definition
1,2,3 TCP	1,2,3-Trichloropropane
AGR	Agricultural Supply
AR Difference	Difference Between Nitrogen Applied and Nitrogen Removed
A-R	Difference between Nitrogen Applied and Nitrogen Removed
A/R Ratio	Ratio of Nitrogen Applied to Nitrogen Removed
Basin Plans	Water Quality Control Plans for the Sacramento River and San Joaquin River Basins and the Tulare Lake Basin
BOD	Biochemical Oxygen Demand
BPA	Basin Plan Amendment
CDP	Census Designated Place
Central Valley Water Board	Central Valley Regional Water Quality Control Board
CETHP	California Environmental Health Tracking Program
CIWQS	California Integrated Water Quality System
Coalition	Kings River Water Quality Coalition
CVDRMP	Central Valley Dairy Representative Monitoring Program
CVHM2	Central Valley Hydrologic Model 2.0
CV-SALTS	Central Valley Salinity Alternatives for Long-term Sustainability
CVSC	Central Valley Salinity Coalition
CVWB	Central Valley Water Board
CSD	Community Services District
CWD	Community or County Water District
CWS	Community Water System
DAC	Disadvantaged Community
DAU	Detailed Analysis Unit
DDW	Division of Drinking Water
DUC	Disadvantaged Unincorporated Community
DWR	California Department of Water Resources
DWW	Drinking Water Watch
EAP	Early Action Plan
EC	Electrical Conductivity
ESJWQC	East San Joaquin Water Quality Coalition
FMZP	Final Management Zone Proposal
GAMA	Groundwater Ambient Monitoring and Assessment
GAR	Groundwater Quality Assessment Report
GIS	Geographic Information Systems
gpd	gallons per day
GQMP	Groundwater Quality Management Plan

Acronym	Definition
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
HCM	Hydrologic Conceptual Model
ILRP	Irrigated Lands Regulatory Program
IND	Industrial Service Supply
INMP	Irrigation and Nitrogen Management Plan
INMPSR	Irrigation and Nitrogen Management Plan Summary Report
IRWM	Integrated Regional Water Management
IX	Ion Exchange
KRCD	Kings River Conservation District
KWA	Kings Water Alliance
LAA	Land Application Area
lbs	pounds
LSWS	Local Small Water System
MCL	Maximum Contaminant Level
mgd	million gallons per day
mg/L	milligrams per liter
mg/L as N	milligrams per liter as nitrogen
mgy	million gallons per year
MHI	Median Household Income
MPEP	Management Practice Evaluation Program
MPIR	Management Practices Implementation Report
MUN	Municipal and Domestic Supply
MZ	Management Zone
MZIP	Management Zone Implementation Plan
N	Nitrogen
NMP	Nutrient Management Plan
NO_3-N	Nitrate as Nitrogen
NOA	Notice of Applicability
NRCS	California Natural Resource Conservation Service
NTC	Notice to Comply
NWIS	National Water Information System
OAL	Office of Administrative Law
OWTS	Onsite Waste Treatment System
P2	Priority 2 (Nitrate Control Program prioritization)
PMZP	Preliminary Management Zone Proposal
POU	Point of Use
PRO	Industrial Process Supply
PWS	Public Water System
RO	Reverse Osmosis

Acronym	Definition
SDAC	Severely Disadvantaged Communities
SDWIS	Safe Drinking Water Information System
SGMA	Sustainable Groundwater Management Act
SNMP	Salt and Nitrate Management Plan
sq. mi	square mile
SSWS	State Small Water System
State Water Board	State Water Resources Control Board
TDS	Total Dissolved Solids
TKN	Total Kjeldahl Nitrogen
USGS	United States Geological Survey
WDR	Waste Discharge Requirements
WMP	Waste Management Plan
WWTF	Wastewater Treatment Facility
WWTP	Wastewater Treatment Plant

EXECUTIVE SUMMARY

ES.1. Preliminary Management Zone Overview

The Kings Water Alliance (KWA) initiated the formation of the KWA Management Zone to comply with the Central Valley Regional Water Quality Control Board (Central Valley Water Board or CVWB) Nitrate Control Program requirements. To address the growing needs of this large region of California to solve the nitrate problem in groundwater, representatives from local growers, dairies, and other permitted dischargers in the Kings and Tulare Lake Subbasins formed the KWA. The KWA elected to pursue Path B to comply with the Nitrate Control Program, which meant forming a Management Zone.

The KWA Management Zone includes the Kings Groundwater Subbasin, the Tulare Lake Groundwater Subbasin, a portion of the Kaweah Groundwater Subbasin, and smaller areas of other neighboring groundwater subbasins (**Figure ES-1**). Due to differences in nitrate groundwater conditions within the subbasins of the Central Valley, the CVWB assigned priorities based on the urgency of addressing nitrate problems in each groundwater subbasin. The Kings and Kaweah Subbasins and four other subbasins were deemed the highest priority, Priority 1, which means that their compliance with the Nitrate Control Program is on a fast-track compared to the Tulare Lake Subbasin (and seven other subbasins), which was deemed a Priority 2 basin.

The overarching management goals of the Nitrate Control Program are (Central Valley Water Board, 2020):

1. Ensure safe drinking water supply;
2. Reduce salt and nitrate loading so that ongoing discharges neither threaten to degrade high-quality waters absent appropriate findings by the CVWB nor cause or contribute to exceedances of water quality objectives; and
3. Implement long-term, managed restoration of impaired water bodies as reasonable and feasible.

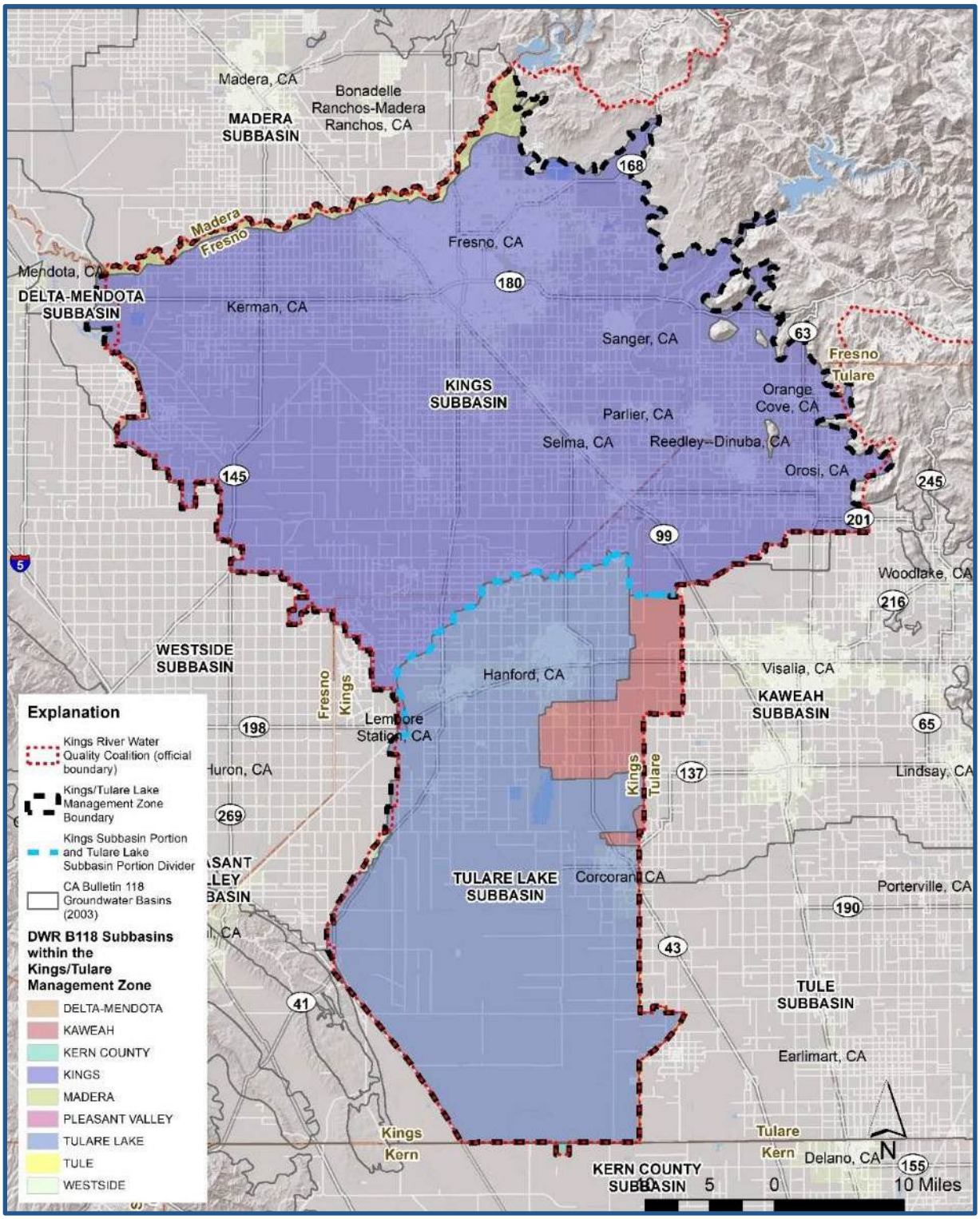

Figure ES-1. Kings Water Alliance Management Zone

The Kings Water Alliance worked collaboratively with permittees to form a Management Zone to achieve these goals. The formation of the KWA Management Zone (Path B) to comply with the Nitrate Control Program allows an exception from the nitrate standard compared to Path A. Path A is for Individual Permitting and imposes requirements to the discharger that may be difficult and expensive (potentially including making significant upgrades to a discharger's facility, conducting extensive monitoring of discharge and local groundwater, providing replacement drinking water to local residents, etc.). The Path B option encourages partnership and teamwork among its discharging members to solve the nitrate problem within their Management Zone boundary.

Several documents are required to comply with Path B of the Nitrate Control Program. The first was the Preliminary Management Zone Proposal, including a key companion document, the Early Action Plan. For Priority 1 subbasins, these must be submitted to the Central Valley Regional Water Board (Central Valley Water Board or CVWB) within 270 days of dischargers receiving a Notice to Comply. These two KWA Management Zone companion documents were submitted to the Regional Board on March 8, 2021. Implementation of the Early Action Plan began within 60 days of submittal, on May 8, 2021. The Final Management Zone Proposal was submitted on August 29, 2022, which was 180 days after public comment and the CVWB's review of the Preliminary Management Zone Proposal. The Management Zone Implementation Plan was due 180 days after public comment and the CVWB's review of the Final Management Zone Proposal and was submitted on September 5, 2023.

Although the KWA PMZP and FMZP incorporated the Priority 2 Tulare Lake Subbasin, this document, the Preliminary Management Zone Proposal Addendum, along with one of its main attachments, the Early Action Plan Addendum, is the next step to complying with the Nitrate Control Program and continuing the process of solving the nitrate problems that occur within the Management Zone boundary, particularly for the Priority 2 Tulare Lake Subbasin portion. One of the most important components of the development of the Preliminary and Final Management Zone Proposals and Early Action Plan is public outreach and community engagement. California State law (AB 685) declares that "every person in the state has a right to clean, safe, and affordable drinking water." This policy is commonly referred to as the Human Right to Water. To promote this effort, the KWA Management Zone has been engaging the community through various outlets (including but not limited to mailings, flyers, radio announcements, advertisements, emails, public webinars, public surveys) in order to empower residents within the Management Zone to become engaged and involved in the decision-making process associated with solving their local nitrate problems.

This Preliminary Management Zone Proposal Addendum document is designed to address the Priority 2 Tulare Lake Subbasin area, which is also part of the Kings River Water Quality Coalition area.

ES.2. Updated Sections of the KWA Preliminary Management Zone Proposal Addendum for the Priority 2 Tulare Lake Subbasin Portion

The contents of this Preliminary Management Zone Proposal Addendum include updated sections of the original PMZP and FMZP submitted in March 2021 and August 2022 respectively that require updating to specifically address the Preliminary Management Zone Proposal requirements for the P2 Tulare Lake Subbasin area. The selection of sections included in this Addendum were discussed and agreed upon by the Regional Board through meetings and email communications in January 2024 through April 2024 (see **Attachment J**):

Section 1: Preliminary Management Zone Overview

- Section 1.3.1 Priority 1 and Priority 2 Requirements and Timeline: This section is updated to reflect the timing and requirements associated with the Priority 1 and Priority 2 deadlines.
- Section 1.4.5 Public Participation Addendum for P2 Tulare Lake: This section provides an overview of the public outreach and engagement activities overview associated with the Priority 2 Tulare Lake area of the KWA Management Zone.
- Section 1.5 Updated List of Participants in the Proposed MZ: This section is updated to reflect additional participants in the KWA Management Zone, including participants from the Priority 2 Tulare Lake area.
- Section 1.5.2 Tulare Lake Subbasin Initial List of Participants: This section is updated to reflect additional participants in the KWA Management Zone, including participants from the Priority 2 Tulare Lake area.

Section 3: Tulare Lake Subbasin Characterization and Initial Assessment of Groundwater Conditions

- Section 3.1.5 Drinking Water Systems: This section is updated to reflect public water systems in the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone.
- Section 3.1.6 Disadvantaged and Severely Disadvantaged Communities: This section is updated to reflect the most recent information on disadvantaged communities in the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone.
- Section 3.1.7 Land Use: This section is updated to reflect the most recent information on land use for the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone.

- Section 3.2.2 Groundwater Elevations and Flow: This section is updated to reflect the most recent groundwater contour data and flow directions for the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone.
- Section 3.2.2.1 Areas of Potential Contribution: This section is updated to reflect the most recent groundwater contour data and flow directions as they pertain to potential areas of contribution outside of the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone.
- Section 3.2.5 Updated Nitrate Water Quality Data and Analysis for P2 Tulare Lake PMZP Addendum: This section is updated to reflect the most recent publicly available groundwater nitrate quality dataset used for the analysis of groundwater nitrate conditions including ambient mapping of recent nitrate levels in depth-specific aquifer zones and nitrate trends analyses (parametric, recent, long-term, and recent).
- Section 3.2.6 Existing Ambient Conditions: This section is updated to reflect the most recently publicly available groundwater nitrate quality dataset used for ambient mapping of recent nitrate levels for the Upper, Lower, and Below Lower Zones.
- Section 3.2.7 Groundwater Nitrate Trends Analysis: This section is updated to reflect the most recently available groundwater nitrate quality dataset used for parametric and non-parametric trends analyses on wells of all depth zones for the full record of measurements and the more recent time frame.
- Section 3.2.8 Inactive Drinking Water Supply Wells: This section is updated to reflect the most recent nitrate conditions with respect to inactive drinking water supply wells.
- Section 3.2.9 De-Designated Areas Discussion: This section includes a description of the de-designated area in the P2 Tulare Lake Subbasin area of the KWA Management Zone.
- Section 3.3 Management Zone Participants: This section is updated to reflect participants in the P2 Tulare Lake Subbasin area of the KWA Management Zone.
- Section 3.3.1 Permitted Dischargers: This section is updated to reflect permitted dischargers that received a Notice To Comply (NTC) in the P2 Tulare Lake Subbasin area of the KWA Management Zone, with attention to any intersection of de-designated area.
- Section 3.3.1.1 Irrigated Lands Regulatory Program: This section was updated to reflect the Irrigated Lands Regulatory Program participation in the P2 Tulare Lake Subbasin area.

- Section 3.3.1.2 Concentrated Animal Feeding Operations: This section was updated to reflect the Concentrated Animal Feeding Operations participants in the P2 Tulare Lake Subbasin area.
- Section 3.3.1.3 Individually Permitted Dischargers: This section was updated to reflect the participation of Individually Permitted Dischargers in the P2 Tulare Lake Subbasin area.
- Section 3.3.2 Non-Discharger/Stakeholder Participation: This section was updated to reflect the participation of non-dischargers and stakeholders in the P2 Tulare Lake Subbasin area.
- Section 3.4.3 Individual Permitted Dischargers: This section was updated to reflect the current nitrate treatment and control efforts or management practices for individual permitted dischargers.

Section 4: Early Action Plan Development

- Section 4.1.1 Identification of Public Water Supplies and Domestic Wells Potentially Exceeding Nitrate Water Quality Objective: This section is updated to reflect the development of the Early Action Plan Addendum for the P2 Tulare Lake Subbasin area.
- Section 4.1.1.1 Nitrate-Impacted Areas: This section is updated to reflect the development of the Early Action Plan Addendum for the P2 Tulare Lake Subbasin area.
- Section 4.1.1.2 Potentially Impacted Public Supply Wells: This section is updated to reflect the development of the Early Action Plan Addendum for the P2 Tulare Lake Subbasin area.
- Section 4.1.1.3 Potentially Impacted Domestic Wells: This section is updated to reflect the development of the Early Action Plan Addendum for the P2 Tulare Lake Subbasin area, with attention to any domestic wells in de-designated areas.
- Section 4.2 Community Outreach: This section is updated to reflect the development of the Early Action Plan Addendum for the P2 Tulare Lake Subbasin area.

Attachment B: Permitted Milk Cow Dairies, Confined Bovine Feeding Operations and Poultry Operations in the Management Zone

- This Attachment was updated to reflect Management Zone participation in the P2 Tulare Lake Subbasin area.

Attachment C: Outreach Records for Development of PMZP; Public Draft Comments and Response Log

- This Attachment was updated to reflect outreach and public input pertaining to the P2 Tulare Lake Subbasin area.

Attachment D: Early Action Plan

- This Attachment was updated for the P2 Tulare Lake Subbasin area as the Early Action Plan (EAP) Addendum

Attachment F: Kings Water Alliance Management Zone Participation Agreement

- This Attachment was updated to reflect the Priority 2 participation agreement for the KWA Management Zone.

This document is an Addendum to the original PMZP developed for the KWA, and as such the numbering and sequence of sections contained in this document follow the list above. For more information about the Priority 1 areas within the KWA Management Zone, readers are encouraged to refer to the previously submitted and accepted PMZP and FMZP documents available online (*https://www.cvsalinity.org/resources/management-zone-development/*).

The following table lists the Nitrate Control Program requirements for the Preliminary Management Zone Proposal and where these requirements are addressed within this document (**Table ES-1**).

Table ES-1. Preliminary Management Zone Proposal Requirements

PMZP Requirement	Location in PMZP Addendum
Initial and updated identification of public water supplies or domestic wells within the Management Zone areas with nitrate concentrations exceeding the water quality objective	Summary in Section 1; detailed information in EAP Addendum's Appendix E (see Attachment D)
An EAP to address drinking water needs for those that rely on public water supply or domestic wells with nitrate levels exceeding the water quality objective	Summary in Section 4; complete proposed P2 Management Zone EAP in Attachment D
Documentation of process utilized to identify affected residents and the outreach utilized to ensure that they are given the opportunity to participate in development of an EAP	Summary in Section 4; Section 2 in the EAP Addendum (see Attachment D)
Identification of areas within or adjacent to the Management Zone that overlap with other management areas/activities	Section 2.1
Any constituents of concern that the individual discharger/group of dischargers intend to address besides nitrate (not required but is an option available)	Section 5 of the EAP Addendum (see Attachment D) discusses the use of Safe

Table ES-1. Preliminary Management Zone Proposal Requirements	
PMZP Requirement	**Location in PMZP Addendum**
	and Affordable Funding for Equity and Resilience (SAFER) funding to augment well sampling program.
Documentation of actions to implement the EAP	Section 4
Proposed timeline for: Identifying additional participants; Further defining boundary areas; Developing proposed governance and funding structure for administration of the Management Zone; Additional evaluation of groundwater conditions across the Management Zone boundary area, if necessary; and, Preparing and submitting a Final Management Zone Proposal (FMZP) Addendum and Management Zone Implementation Plan (MZIP)	Section 4 and 5

Source: Central Valley Water Board, 2020

ES.3. Early Action Plan Addendum Development

Establishment of a Management Zone requires the preparation of an Early Action Plan (EAP) that identifies actions the KWA has initiated to address sources of drinking water with unsafe nitrate levels. The key element of the EAP, which was developed in collaboration with the community, is the Interim Replacement Water Program. This Program provides immediate alternative sources of drinking water for those that depend on groundwater with unsafe levels of nitrate for their drinking and cooking needs, that is water with more than 10 mg/L as N.

The PMZP Addendum includes a summary of the key elements of the EAP, a brief overview of key EAP elements such as community outreach, the interim replacement water options (e.g., bottled water delivery, point-of-use treatment systems and water fill stations), a well-testing program to support EAP implementation, and a general schedule for implementation. The EAP Addendum for the P2 Tulare Lake Subbasin area, which includes more comprehensive information, is attached to this PMZP Addendum as **Attachment D**.

1. PRELIMINARY MANAGEMENT ZONE OVERVIEW

1.1. Introduction and Document Roadmap

The Kings Water Alliance (KWA) initiated the formation of the Kings Water Alliance Management Zone to comply with the Central Valley Regional Water Quality Control Board (Central Valley Water Board or CVWB) Nitrate Control Program requirements. The Kings and Kaweah Subbasins were determined by the Central Valley Water Board to be Priority 1 basins, which meant that their compliance with the Nitrate Control Program was on a fast-track compared to the Tulare Lake Subbasin, which was deemed a Priority 2 basin. To address the growing needs of this large region of California to solve the nitrate problem in groundwater, representatives from local growers and dairies and other permitted dischargers in the Kings and Tulare Lake Subbasins formed the Kings Water Alliance. The KWA elected to pursue Path B to comply with the Nitrate Control Program, which meant forming a Management Zone. The boundary of the Management Zone is largely an intersection of the Kings River Water Quality Coalition boundary and the California Department of Water Resources (DWR) Bulletin 118 basin boundaries as published in 2003 for the Kings and Tulare Lake Subbasins. As explained in this document, the proposed Management Zone also includes small areas of other subbasins.

Due to the large geographical area covered by the Kings Water Alliance, the original KWA PMZP and FMZP documents were divided into chapters that address: 1) the Northern Portion of the KWA Management Zone (Kings Subbasin Priority 1), and 2) the Southern Portion of the KWA Management Zone (Tulare Lake Subbasin Priority 2 and a small area of the Priority 1 Kaweah Subbasin). Although there were sections within these two chapters that present the same information, this approach enabled the KWA, who has elected to represent Priority 1 and Priority 2 subbasins, to comply with the two different regulatory deadlines associated with the Nitrate Control Program for Path B (that entails forming the proposed Management Zone). Chapter 2 of the original KWA PMZP and FMZP contained the Management Zone requirements for the Northern Portion (Kings Subbasin area) of the KWA Management Zone. Chapter 3 contained the Management Zone requirements for the Priority 1 Kaweah Subbasin portion that is adjacent to the Priority 2 Tulare Lake Subbasin and Southern Portion of the KWA Management Zone.

1.1.1. PMZP Addendum Description

The contents of this Preliminary Management Zone Proposal Addendum include updated sections of the original PMZP and FMZP submitted in March 2021 and August 2022 respectively that require updating to specifically address the Preliminary Management Zone Proposal requirements for the P2 Tulare Lake Subbasin area. The selection of sections included in this Addendum were discussed and agreed upon by the Regional Board through meetings and email communications in January 2024 through April 2024 (see **Attachment J**).

This document is an Addendum to the original Preliminary Management Zone Proposal document submitted by KWA on March 8, 2021. The purpose of this document is to provide information pertinent to the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone, and address the requirements put forth for the Priority 2 areas of the Central Valley. This document provides updated information for the Priority 2 Tulare Lake area of the KWA Management Zone on the following topics:

- Section 1: Preliminary Management Zone Overview
    - Section 1.3.1 Priority 1 and Priority 2 Requirements and Timeline: This section is updated to reflect the timing and requirements associated with the Priority 1 and Priority 2 deadlines.
    - Section 1.4.5 Public Participation Addendum for P2 Tulare Lake: This section provides the public outreach and engagement activities overview associated with the Priority 2 Tulare Lake area of the KWA Management Zone.
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potential areas of contribution outside of the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone.

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  - Section 3.3.2 Non-Discharger/Stakeholder Participation: This section was updated to reflect the participation of non-dischargers and stakeholders in the P2 Tulare Lake Subbasin area.
  - Section 3.4.3 Individual Permitted Dischargers: This section was updated to reflect the current nitrate treatment and control efforts or management practices for individual permitted dischargers.

- Section 4: Early Action Plan Development
  - Section 4.1.1 Identification of Public Water Supplies and Domestic Wells Potentially Exceeding Nitrate Water Quality Objective: This section is updated to reflect the development of the Early Action Plan Addendum for the P2 Tulare Lake Subbasin area.
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- Attachment B: Permitted Milk Cow Dairies, Confined Bovine Feeding Operations and Poultry Operations in the Management Zone
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- Attachment C: Outreach Records for Development of PMZP; Public Draft Comments and Response Log
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- Attachment D: Early Action Plan

    - This Attachment was updated for the P2 Tulare Lake Subbasin area as the Early Action Plan (EAP) Addendum

- Attachment F: Kings Water Alliance Management Zone Participation Agreement
    - This Attachment was updated to reflect the Priority 2 participation agreement for the KWA Management Zone.

1.2. Nitrate Control Program

The Central Valley Water Board adopted Amendments to the Water Quality Control Plans for the Sacramento River and San Joaquin River Basins and the Tulare Lake Basin (Basin Plans) to incorporate a Central Valley-wide Salt and Nitrate Control Program (Resolution R5-2018-0034) on May 31, 2018 (Central Valley Water Board, 2018). The State Water Resources Control Board (State Water Board) and the Office of Administrative Law (OAL) approved these amendments to the Central Valley Water Board Basin Plans (Central Valley Water Board, 2015, 2016) on October 16, 2019 (Resolution 2019-0057) and January 15, 2020 (OAL Matter Number: 2019-1203-03), respectively. The portions of these Basin Plan amendments (BPA) that established the Nitrate Control Program became effective January 17, 2020.

The State Water Board's Resolution approving the Nitrate Control Program required targeted revisions to the new Salt and Nitrate Management Program. The CVWB recently adopted these revisions on December 10, 2020 (Resolution R5-2020-0057). The State Water Board approved the revisions on June 1, 2021 (Resolution 2021-0019), and they became effective on November 10, 2021 (Office of Administrative Law Matter Number: 2021-0929-05S). The nitrate management goals and compliance requirements described herein, are based on the approved revisions of the Nitrate Control Program.

The over-arching management goals of the Salt and Nitrate Control Program are (Central Valley Water Board, 2020):

1. Ensure safe drinking water supply;
2. Reduce salt and nitrate loading so that ongoing discharges neither threaten to degrade high quality waters absent appropriate findings by the CVWB nor cause or contribute to exceedances of water quality objectives; and
3. Implement long-term, managed restoration of impaired water bodies.

The schedule for implementation of the Central Valley Nitrate Control Program is based on the priority designation of Central Valley Region groundwater basins/subbasins. These groundwater basins/subbasins, which are designated as Priority 1, Priority 2 or "Remaining Areas" (not currently prioritized), are prioritized based on existing ambient nitrate concentrations in the upper portion of the groundwater system. The Nitrate Control Program designates the Tulare

Lake Subbasin as a Priority 2 basin (see Figure N-1 and Table N-1, Central Valley Water Board, 2020).

1.3. Notice to Comply

The CVWB sent out a Notice to Comply (NTC) to permitted dischargers in Priority 1 groundwater basins/subbasins on May 29, 2020. NTCs were sent out to permitted dischargers in Priority 2 groundwater basins/subbasins on December 29, 2023. Following receipt of the NTC, permitted dischargers must choose between two compliance pathways to meet the requirements of the Nitrate Control Program:

- **Path A: Individual Permitting Approach** – This is the default permitting compliance pathway. Under this approach the permittee must comply with all Nitrate Control Program requirements as an individual discharger or as a third-party group subject to a General Order that chooses to be permitted under this approach.
- **Path B: Management Zone Approach** – Permitted dischargers that elect to comply using the compliance Path B work cooperatively with other dischargers and local stakeholders to implement all requirements of the Nitrate Control Program.

A Management Zone is defined as follows (Central Valley Water Board, 2020):

- A Management Zone is a discrete and generally hydrologically contiguous area for which permitted discharger(s) participating in the Management Zone collectively work to meet the goals of the SNMP [Salt and Nitrate Management Plan] and for which regulatory compliance is evaluated based on the permittees' collective impact, including any alternative compliance programs, on a defined portion of the aquifer. Where Management Zones cross groundwater basin or subbasin boundaries, regulatory compliance is assessed separately for each basin or subbasin. Management Zones must be approved by the CVWB.
- The establishment of a Management Zone creates a collective approach to nitrate management that maximizes resources and provides a more integrated approach to developing local solutions to achieve the goals of the Program. **Table 1-1** summarizes the intent and purpose for establishment of a Management Zone (Central Valley Water Board, 2020).

Table 1-1. Intent and Purpose of a Management Zone
Characteristics
• A defined area which incorporates a portion of a large groundwater basin(s)/subbasin(s)
• Encompasses all groundwater for those permittees that discharge nitrate to said groundwater that have selected to comply with the Nitrate Control Program through participation in the defined Management Zone.
• Voluntarily proposed by those regulated permittees located within the proposed Management Zone boundary that have decided to work collectively and collaboratively to comply with the Nitrate Control Program.
Intent and Purposes
• Defined area that serves as a discrete regulatory compliance unit for complying with the Nitrate Control Program for multiple permittees.
• Basis for the establishment of local management plans to manage nitrate within the Management Zone's boundary.
• Participants work collectively to implement Salt and Nitrate Control Program Management Goals: (1) safe drinking water, (2) reduced nitrate loading so that ongoing discharges do not cause or contribute to exceedances of water quality objectives, and (3) restoring groundwater basins/subbasins (where reasonable, feasible and practicable) across the Management Zone.
• Where groundwater within the Management Zone boundary, and groundwater impacted by those permittees within the Management Zone boundary, is being used as a drinking water supply, and where those drinking water supplies are impacted by nitrates and exceed or are likely to exceed nitrate drinking water standards in the foreseeable future, Management Zone participants will ensure the provision of safe drinking water to all residents in the area adversely affected by those dischargers of nitrates from those that are participating in the Management Zone.
• Ensure the provision of safe drinking water for the Management Zone through stakeholder coordination and cooperation.
• Work towards better resource management through appropriate allocation of resources.
• Central Valley Water Board imposes reasonable provisions collectively for the Management Zone, and its permittee participants, that recognize the need to prioritize nitrate management activities over time for compliance with the Salt and Nitrate Control Program Management Goals.

Source: Adapted from Table N-4 in the Nitrate Control Program (Central Valley Water Board, 2020)

The CVWB sent out an NTC to permitted dischargers in the Kings and Kaweah Subbasins on May 29, 2020, and NTCs were sent out to permitted dischargers in the Tulare Lake Subbasin on December 29, 2023. This NTC activated the following schedule of deliverables for permitted dischargers that elected to comply under Path B – Management Zone Approach in the Kings and Kaweah Subbasins (see **Table N-5.B,** Summary Schedule for Implementation; Central Valley Water Board, 2020):

- Priority 1:
  - Submit a Preliminary Management Zone Proposal to the CVWB (including an Early Action Plan) by March 8, 2021.
  - Initiate implementation of the Early Action Plan within 60 days following submittal of the Plan, unless the CVWB objects to the Plan.
  - Submit a Final Management Zone Proposal within 180 days of the receipt of comments from the CVWB on the Preliminary Management Zone Proposal.
  - Submit a Management Zone Implementation Plan six (6) months after the Final Management Zone Proposal is accepted by the CVWB's Executive Officer.
- Priority 2:
  - Submit a Preliminary Management Zone Proposal to the CVWB (including an Early Action Plan) by December 28, 2021.
  - Initiate implementation of the Early Action Plan within 60 days following submittal of the Plan (February 26, 2025), unless the CVWB objects to the Plan.
  - Submit a Final Management Zone Proposal within 180 days of the receipt of comments from the CVWB on the Preliminary Management Zone Proposal.
  - Submit a Management Zone Implementation Plan six (6) months after the Final Management Zone Proposal is accepted by the CVWB's Executive Officer.

This document contains the components that complement the original KWA PMZP to provide Addendum components required for the Preliminary Management Zone Proposal (PMZP or Proposal) for the management of nitrates within the Priority 2 Tulare Lake Subbasin within the Kings Water Alliance Management Zone. This Proposal Addendum, which is an update of the PMZP submitted March 8, 2021, fulfills the requirements of the Nitrate Control Program as prescribed by the CVWB (2020) for the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone. **Table 1-2** summarizes these requirements and where they are addressed in this Proposal.

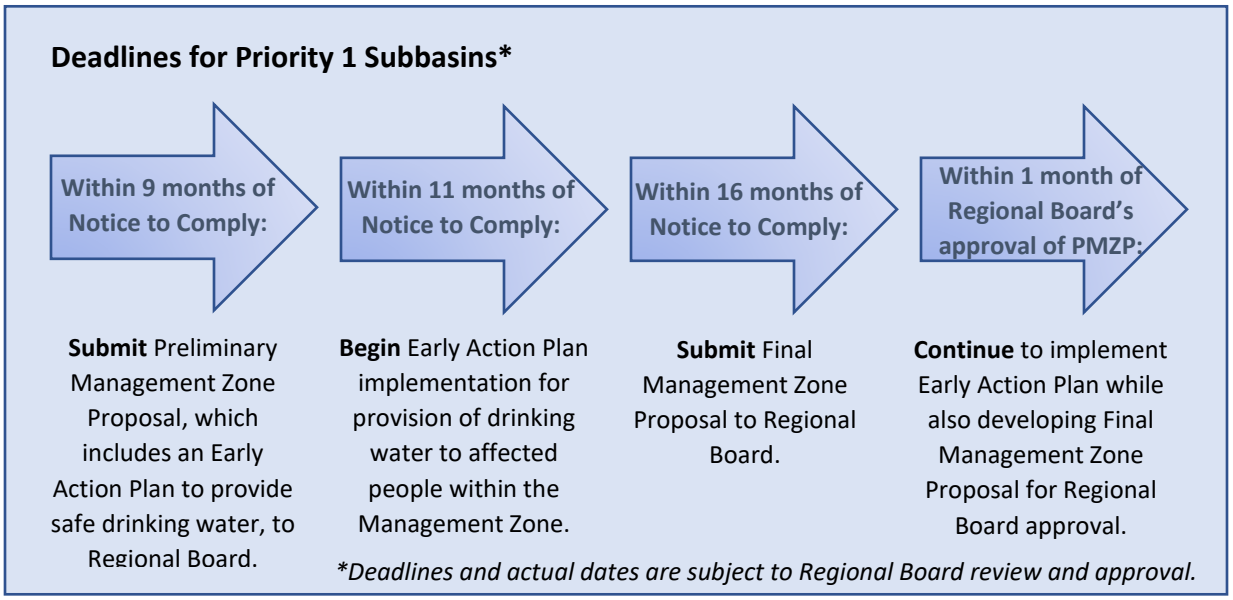
Table 1-2. Preliminary Management Zone Proposal Requirements	
PMZP Requirement	**Location in PMZP Addendum**
Proposed preliminary boundaries of the Management Zone area	Section 1
Identification of Initial Participants/Dischargers	Section 1
Identification of other dischargers and stakeholders in the Management Zone area that the initiating group is in contact with regarding participation in the Management Zone	Section 4
Initial assessment of groundwater conditions based on readily available existing data and information	Section 3
Identification/summary of current treatment and control efforts, or management practices	Section 3
Initial identification of public water supplies or domestic wells within the Management Zone area with nitrate concentrations exceeding the water quality objective	Early Action Plan Addendum, Attachment D
An Early Action Plan to address drinking water needs for those that rely on public water supply or domestic wells with nitrate levels exceeding the water quality objective	Summary in Section 4; complete Early Action Plan Addendum in Attachment D
Documentation of process utilized to identify affected residents and the outreach utilized to ensure that they are given the opportunity to participate in development of an Early Action Plan	Early Action Plan Addendum, Attachment D
Identification of areas within or adjacent to the Management Zone that overlap with other management areas/activities	Section 3
Proposed timeline for: • Identifying additional participants; • Further defining boundary areas; • Developing proposed governance and funding structure for administration of the Management Zone; • Additional evaluation of groundwater conditions across the Management Zone boundary area, if necessary; and, • Preparing and submitting a Final Management Zone Proposal (FMZP) Addendum and Management Zone Implementation Plan (MZIP).	Section 4 and 5

Source: Central Valley Water Board, 2020

1.3.1. Priority 1 and Priority 2 Requirements and Timeline

The Nitrate Control Program began with Priority 1 groundwater subbasins, which include: Kaweah, Turlock, Chowchilla, Tule, Modesto, and Kings. The CVWB sent Notices to Comply on May 29, 2020, giving the permitted dischargers in these areas time to choose between two compliance pathways. Path A indicates that dischargers would proceed with the Nitrate Control Program requirements under an individual permit. Path B indicates multiple dischargers in a region will come together and form a Management Zone, which is an alternative means of nitrate compliance that offers the opportunity to work cooperatively to manage nitrate discharges more cost-effectively and to provide safe drinking water to adversely affected residents. There are several benefits to choosing Path B and forming a Management Zone: it establishes local control, more flexibility, the ability to adapt management to local conditions, the opportunity to share resources, funding, and knowledge across different industries, etc.

The deadlines for Priority 1 Subbasins, including the Kings and Kaweah Subbasins, are illustrated in **Figure 1-1**.



Source: Adapted from cvsalinity.org

Figure 1-1. Deadlines for Priority 1 Subbasins

Priority 2 Subbasins include: Yolo, Merced, Kern County (Westside South), Tulare Lake, Kern County (Poso), Delta Mendota, Eastern San Joaquin, and Madera Subbasins. The schedule for implementation of the Nitrate Control Program for Path B Priority 2 Basins/Subbasins is described here. The submittal of Preliminary Management Zone Proposals for Priority 2 Subbasins (e.g., the Tulare Lake Subbasin) is required to be 1 year after receiving the Notice to Comply, on December 28, 2024. The Early Action Plan would be submitted at the same time, 1 year after receiving the Notice to Comply (December 28, 2024), with an initiation of the Early

Action Plan within 60 days of submittal if no objection is received by the CVWB (no later than February 26, 2025). The Final Management Zone Proposal for the Tulare Lake Priority 2 Subbasin is required 180 days after receiving comments from the CVWB on the Preliminary Management Zone Proposal. The Management Zone Implementation Plan would be due six months after the Final Management Zone Proposal is accepted by the Executive Officer of the CVWB.

The Tulare Lake Subbasin dischargers received a Notice to Comply in December 2023, so the Kings Water Alliance has prepared this PMZP Addendum to complement the previously submitted KWA Preliminary and Final Management Zone Proposal (and accompanying Early Action Plan) documents that initially addressed the Tulare Lake Subbasin in combination with KWA's main effort for the P1 Kings and Kaweah Subbasins via the formation of the Kings Water Alliance Management Zone.

1.4. Management Zone Formation

This section was not updated for this PMZP Addendum, Please refer to the original PMZP And FMZP documents available online (https://www.cvsalinity.org/resources/management-zone-development/) for the full description of the Management Zone formation.

1.4.1. Management Zone Boundary

This section was not updated for this PMZP Addendum, Please refer to the original PMZP And FMZP documents available online (https://www.cvsalinity.org/resources/management-zone-development/) for the full description of the Management Zone boundary.

1.4.2. Consistency with Required Management Zone Characteristics

This section was not updated for this PMZP Addendum, Please refer to the original PMZP And FMZP documents available online (https://www.cvsalinity.org/resources/management-zone-development/) for the full description of how the KWA Management Zone boundary is consistent with the required Management Zone characteristics as set forth by the Central Valley Water Board.

1.4.3. Management Zone Governance

The Management Zone is governed by the Kings Water Alliance, a non-profit public benefit corporation that filed for non-profit status on November 17, 2020. **Attachment E** provides the Articles of Incorporation and By-laws of the Kings Water Alliance. The Board of Directors currently has seven seats that can be expanded up to 11 as needed. The current Board members and seats they will hold are as follows:

- Kings River Water Quality Coalition (Irrigated Lands Regulatory Program) – Three representatives
- Dairy and Confined Bovine Operations – Two representatives
- Poultry Industry – One representative
- Wine Industry – One representative

1.4.4. Process to Establish Proposed Management Zone

The KWA Management Zone was established through the original PMZP and FMZP process. Therefore, this section of the Addendum was not updated. Please refer to the original PMZP And FMZP documents available online (https://www.cvsalinity.org/resources/management-zone-development/) for the full description of the process followed to establish the KWA Management Zone

1.4.5. Public Participation Addendum for P2 Tulare Lake

Similar to the community outreach efforts conducted for the Priority 1 Subbasins (Kings, Kaweah and Tule), regular meetings were held to seek input from stakeholders and the public throughout the development of the PMZP/EAP Addendum for the Priority 2 Subbasins (Tulare Lake). Phase 2 implementation focused community outreach meetings had a combination of in-person and virtual meeting options. Four community outreach meetings were held during Phase 2 EAP development:

- *August 27, 2024, Zoom Webinar* – The meeting presentation information on the following key topics: (a) Why do we care about nitrate? (b) What is the new Nitrate Control Program? (c) Who needs to be involved? (d) Where is drinking water affected? In addition to answering these questions, the EAP was introduced to the community as

the mechanism to implement early actions or short-term solutions to address areas where drinking water is impacted by nitrate contamination. Additionally, the draft interim replacement water program planned for implementation through the EAP, including bottled water delivery, Point-of-Use (POU) treatment system installation and water fill stations was presented.

- *September 24, 2024, Hanford, CA* – The meeting presentation information on the following key topics: (a) Why do we care about nitrate? (b) What is the new Nitrate Control Program? (c) Who needs to be involved? (d) Where is drinking water affected? In addition to answering these questions, the EAP was introduced to the community as the mechanism to implement early actions or short-term solutions to address areas where drinking water is impacted by nitrate contamination. Additionally, the draft interim replacement water program planned for implementation through the EAP, including bottled water delivery, Point-of-Use (POU) treatment system installation and water fill stations was presented.
- *December 4, 2025, Lemoore, CA* – This meeting presented: (a) general information to inform the public regarding nitrate concerns in the area; (b) updated information on nitrate water quality conditions in the KWA area and areas where domestic wells are most likely impacted by nitrate; (b) the draft interim replacement water program planned for implementation through the EAP, including bottled water delivery, Point-of-Use (POU) treatment system installation and water fill stations; and (c) how the public may comment on the draft EAP that is available for public review and continue to participate in the program during EAP implementation.
- *December 12, 2024 Hanford, CA* – This meeting presented: (a) general information to inform the public regarding nitrate concerns in the area; (b) updated information on nitrate water quality conditions in the KWA area and areas where domestic wells are most likely impacted by nitrate; (b) the draft interim replacement water program planned for implementation through the EAP, including bottled water delivery, Point-of-Use (POU) treatment system installation and water fill stations; and (c) how the public may comment on the draft EAP that is available for public review and continue to participate in the program during EAP implementation.

- *November 19, 2024, Zoom* – A virtual office hours was held to solicit feedback from the community and answer questions. KWA staff were available during the hour.
- *November 22, 2024, Zoom* – A virtual office hours was held to solicit feedback from the community and answer questions. KWA staff were available during the hour.

Attachment C contains more information about outreach efforts conducted for the PMZP. The KWA released a draft PMZP with EAP (Addendum) to the public for review and comment on November 25, 2024. Community residents were given the same opportunity to comment on the draft documents as were other stakeholders in the Management Zone. A table of comments and KWA's response to comments are provided in **Attachment C**.

1.5. List of Participants in the Priority 2 Tulare Lake area of the KWA Management Zone

1.5.1. Kings and Kaweah Subbasin List of Participants

Please refer to the list of participants in the Priority 1 areas of the KWA Management Zone as provided in the KWA Management Zone Implementation Plan (MZIP) available online: https://www.cvsalinity.org/resources/management-zone-development/

1.5.2. P2 Tulare Lake Subbasin Initial List of Participants (Addendum)

This section identifies the Priority 2 permitted dischargers within the KWA Southern Portion (Tulare Lake Subbasin Area) of the proposed Management Zone that have elected already to comply with the Nitrate Control Program through participation in a Management Zone. The submittal of this PMZP on behalf of each of the named permitted dischargers below serves as the NOI for each discharger:

- Growers enrolled under General Order R5-2013-0120-09 ("Waste Discharge Requirements General Order for Growers within the Tulare Lake Basin Area that are Members of the Third-Party Group") under the ILRP.
- Dairies regulated under General Order R5-2013-0122 ("Reissued Waste Discharge Requirements General Order for Existing Milk Cow Dairies") or other WDRs and enrolled as a member of the CVDRMP.
- Confined bovine feeding operations regulated under General Order R5-2017-0058 ("Waste Discharge Requirements General Order for Confined Bovine Feeding Operations") or other WDRs and enrolled as a member in the CVDRMP.
- Poultry operations regulated under General Order R5-2016-0087-01 ("Waste Discharge Requirements General Order for Poultry Operations").
- Individual permitted dischargers, as summarized in **Table 1-7**.

Table 1-7. Initial List of Individual Permitted Dischargers Participating in the KWA Southern Portion (Tulare Lake Subbasin Area) of the Management Zone				
CV-SALTS ID	**Facility Name**	**Order No.**	**Permittee/Facility Address**	**Authorized Representative**
Southern Portion (Tulare Lake Subbasin)				
1784	Armona Community Services District Wastewater Treatment Facility	92-017	Armona Community Services District, 13545 Hume Avenue, Hanford, CA 93230	Kelly Granger, kelly@grangerwater.com
2111	Baker Commodities Hanford Facility	R5-2005-0177	Baker Commodities, Inc., 7480 Hanford Armona, Hanford, CA 93230	Doug Fletcher, DFletcher@BakerCommodities.com
2112	Central Valley Meat Hanford Facility	R5-2023-0028	Central Valley Meat Company, 10431 8 ¾ Avenue, Hanford, CA 93230	Brian Coelho brian@centralvalleymeat.com
51	Morais Goat Dairy	Pending	Morais Goat Dairy, 16152 West Hanford Armona Road, Lemoore, CA 93245	Diana Morais, moraisgoatdairy@gmail.com
3613	Sandridge Cattle Plant	Pending	Sandridge Partners, LP, 19668 Jackson Avenue, Lemoore, CA 93245	Matthew Maxson, matwilmax82@gmail.com
2682	Stratford Wastewater Treatment Facility	2014-0153-DWQ-R5288	Stratford Public Utility District, Southeast 1/4 of Section 17, Township 20 South, Range 20 East Mount Diablo Base & Meridian, Stratford, CA 93266	Kelly Grange, kelly@grangerwater.com
Southern Portion (Kaweah Subbasin)				
2321	Nichols Pistachios	R5-2013-0007	Nichols Pistachio, 13762 First, Hanford, CA 93230	Mark Luplow mluplow@nicholsfarms.com

2. KWA NORTHERN PORTION (KINGS SUBBASIN AREA) OF THE MANAGEMENT ZONE

For information on the Kings Subbasin and other Priority 1 areas, please refer to the previously submitted PMZP and FMZP documents found online here:
https://www.cvsalinity.org/resources/management-zone-development/

3. KWA SOUTHERN PORTION (TULARE LAKE SUBBASIN AND SMALL PART OF KAWEAH SUBBASIN) OF THE MANAGEMENT ZONE

Chapter 3 contains the Preliminary Management Zone Requirements for the Southern Portion of the Kings Water Alliance Management Zone, including the Priority 2 Tulare Lake Subbasin.

3.1. Characterization of Proposed Management Zone

Several subsections below were updated for the PMZP Addendum to address the P2 Tulare Lake area of the KWA Management Zone: Drinking Water Systems, Disadvantaged and Severely Disadvantaged Communities, and Land Use. The remaining subsections were not updated and for a full description of them, please refer to the publicly available PMZP and FMZP documents online: https://www.cvsalinity.org/resources/management-zone-development/.

3.1.1. Geography

The geography of the KWA Management Zone did not change from the FMZP. Please refer to the publicly available PMZP and FMZP documents online: https://www.cvsalinity.org/resources/management-zone-development/ for more information on this subject.

3.1.2. Jurisdictions

The jurisdictions within the KWA Management Zone have not changed since the submittal of the FMZP. Please refer to the publicly available PMZP and FMZP documents online: https://www.cvsalinity.org/resources/management-zone-development/ for more information on this subject.

3.1.3. Groundwater Sustainability Agencies

The Groundwater Sustainability Agencies have not changed since the submittal of the KWA FMZP. Please refer to the publicly available PMZP and FMZP documents online: https://www.cvsalinity.org/resources/management-zone-development/ for more information on this subject.

3.1.4. Water Management Entities

The water management entities have not changed since the submittal of the KWA FMZP. Please refer to the publicly available PMZP and FMZP documents online: https://www.cvsalinity.org/resources/management-zone-development/ for more information on this subject.

3.1.5. Drinking Water Systems

Section 2.1.5 contains the full descriptions of Drinking Water Systems as they pertain to the Kings Water Alliance Management Zone. To reduce repetition within this Preliminary Management Zone Proposal, the following sections summarize the contents of **Section 2.1.5**.

Table 3-2 summarizes how residential water systems are classified in California. Systems are categorized by use, connections, and duration of service over a one-year period. Public Water Systems can be regulated by both the state's Division of Drinking Water (DDW) and local primacy agencies, and these systems are required to monitor and comply with Title 22 drinking water standards.

Table 3-2. Classification of Drinking Water Systems by Constituency, Connections, and Duration of Service per Year

Duration of Service	Connections:		< 5	5 +	< 15	15 +	< 200	200 +
	Persons Served:		< 25			25 +		
N/A	Small Water System (SWS)[1]	Classification Defined By	Connections					
< 60 days/year	Local Small Water System		Connections & (persons, duration)					
< 60 days/year	State Small Water System			Connections & (persons, duration)				
>= 60 days/year	Community Public Water System (PWS)[2]					Connections or (persons, duration)		

Source: Adapted from Boyle et al. 2012

1. Classification as a SWS does not preclude classification as any of the other types. SWS may be regulated by DDW or by Local Primary Agency county.

2. A PWS is a system for the provision of water for human consumption that has 15 or more service connections OR regularly serves at least 25 individuals at least 60 days per year.

Public Water Systems

PWS are defined as systems that provide drinking water to: (1) 15 or more service connections; or (2) regularly serves at least 25 individuals daily for at least 60 days per year (see **Table 3-2**). PWS, which are regulated by DDW, are required to submit water samples of their raw and delivered water for a broad suite of regulated constituents on various schedules that depend

on the constituent and the source water context. All PWS data on water quality, source locations, service areas, and historical data are publicly available on the State Water Board website[1]. The California Environmental Health Tracking Program (CEHTP) maintains a dataset of PWS boundaries in California. These data are provided to CEHTP by the water systems.

Figure 3-4a provides the locations of PWS boundaries within the proposed KWA Management Zone. There are 225 Public Water Systems with known GIS boundary data in the KWA Management Zone. Ten of these systems are located within some portion of the Southern Portion (Tulare Lake Subbasin and a small portion of the Kaweah Subbasin) of the proposed KWA Management Zone. Not all of these systems are currently active, according to the State Water Board's Drinking Water Watch (https://sdwis.waterboards.ca.gov/PDWW/, accessed in July 2022)[2]. **Figure 3-4b** focuses on the P2 Tulare Lake area of the KWA Management Zone, where 11 Public Water Systems with known GIS boundary data are presented.

State Small Water Systems

SSWS are defined as systems serving at least five but not more than 14 service connections. Typically, SSWSs are regulated by county environmental health departments; regulatory oversight of these systems varies by county. Typically, counties require submission of water quality samples annually (at most) for a smaller set of constituents than monitored by a PWS. SSWS data are public; however, most counties in the state do not have these data compiled in any easily accessible format (many counties require a fee for data retrieval for these systems). Most counties do not have maps of SSWS service areas; in most cases, the only way to locate the service area of a SSWS is to use the address recorded on the permit. Some SSWS are included in the PWS boundary data maintained by CEHTP, described above, but this is irregular. Kings, Fresno, and Tulare County Environmental Health Departments were contacted to obtain available SSWS address data for the Management Zone area. To determine if the SSWS is within the Management Zone boundary, the addresses would need to be geocoded or plotted on a map.

Local Small Water Systems

LSWS include residential systems serving two to four households. LSWSs are typically permitted by County Environmental Health Departments. Most counties regulate LSWS as if they were simply private wells – that is, they are unregulated except for the requirements associated with the drilling permit. Neither Fresno, Kings, nor Tulare Counties had records of any LSWS in the KWA Management Zone area.

[1] https://data.ca.gov/dataset/drinking-water-public-water-system-information

[2] See Section 2 and Appendix E in the Early Action Plan (Attachment D to this PMZP) for more information on Public Water Systems in the Management Zone.

3.1.6. Disadvantaged Communities and Severely Disadvantaged Communities

In 2024, the Department of Water Resources (DWR) provides a Disadvantaged Communities Mapping Tool (https://gis.water.ca.gov/app/dacs/, accessed October 2024) that is an interactive map application to help locate disadvantaged communities. DACs and SDACs are qualified using Median Household Income values (MHI) from census surveys. DACs represent a MHI between $47,203 - $62,938, and SDACs represent areas with MHI less than $47,203 based on 2020 American Community Survey data.

The populations provided in **Tables 3-4a** and **3-4b** represent the estimated population of the DAC/SDAC that lies within the P2 Tulare Lake portion of the KWA Management Zone based on the proportion the community overlaps with the Management Zone. Population data for the DACs and SDACs are from the Department of Water Resources (DWR) Disadvantaged Community (DAC) Mapping Tool (https://gis.water.ca.gov/app/dacs/, accessed October 2024) GIS coverage of DAC and SDAC census places within the proposed P2 Management Zone, using 2020 American Community Survey (ACS) population estimates.

There are two Disadvantaged Communities (DACs) and two Severely Disadvantaged Communities (SDACs) in the Tulare Lake area of the KWA Management Zone. **Table 3-4a** summarizes the population of DACs and SDACs, and **Figure 3-5a** shows the locations of DACs and SDACs within and adjacent to the Tulare Lake area of the KWA Management Zone. **Table 3-4b** summarizes the characteristics of DACs and SDACs in the Tulare Lake area of the KWA Management Zone. DAC and SDAC status is based on DWR mapping that utilizes 2020 American Community Survey (ACS) population estimates and GIS coverage of DAC and SDAC census places within the Tulare Lake Area of the KWA Management Zone.

Table 3-4a. Population of DACs and SDACs Located in the Proposed Kern County (Poso) Area of the KWC Management Zone

Approximate Location/Community	Type (DAC or SDAC) (DWR, 2020 Census Place)	DAC Population (calculated by fraction of DAC area in Management Zone) (DWR, 2020 Census Place)	DAC Area in Management Zone (Acres) (DWR, 2020 Census Place)
Armona	Disadvantaged Community	4,437	1,314
Corcoran	Severely Disadvantaged Community	21,384	4,623
Home Garden	Severely Disadvantaged Community	1,590	283

Kettleman City	Disadvantaged Community	1,245	135

Source: DWR, 2020

NOTE: DWR used the US Census American Community Survey data for its Disadvantaged Communities (DAC) data

Table 3-4b. DAC and SDAC Characteristics in the Tulare Lake Area of the KWA Management Zone					
Category	**Number of Locales**	**Acres in Management Zone**	**Population in Management Zone**	**Total DAC and SDAC Acres**	**Total DAC and SDAC Population Estimate**
DACs	2	1,449	5,682	6,355	28,656
SDACs	2	4,906	22,974		

3.1.7. Land Use

The land use analysis was updated for this PMZP Addendum in 2024 to address land use in the Tulare Lake area of the KWA Management Zone, using provisional 2022 agricultural land use coverage from DWR (https://data.cnra.ca.gov/dataset/statewide-crop-mapping, accessed August 2024). **Table 3-5b** and **Figure 3-6b** provide the land use characteristics of the Tulare Lake area of the KWA Management Zone associated with agricultural activity (based on provisional 2022 DWR land use designations). Land use is predominantly made up of Field Crops (20%).

Table 3-5b. Land Use Summary for the Tulare Lake Area of the KWA Management Zone			
Land Use Designation	**Area (sq. mi.)**	**Area (Acres)**	**Percent of Total Management Zone Area**
C - Citrus and Subtropical	3.5	2,257	0.45%
D - Deciduous Fruits and Nuts	107.2	68,627	13.58%
F - Field Crops	158.6	101,518	20.09%
G - Grain and Hay Crops	34.1	21,814	4.32%
I – Idle	110.5	70,736	14.00%
P – Pasture	20.4	13,074	2.59%
T - Truck Nursery and Berry Crops	34.7	22,189	4.39%
U – Urban	26.5	16,957	3.36%
UL - Urban Landscape	0.2	111	0.02%
V – Vineyard	5.8	3,719	0.74%
X – Unclassified	23.8	15,242	3.02%
YP - Young Perennial	7.2	4,626	0.92%

Table 3-5b. Land Use Summary for the Tulare Lake Area of the KWA Management Zone			
Land Use Designation	Area (sq. mi.)	Area (Acres)	Percent of Total Management Zone Area
Total Mapped Land Use Area	**532.6**	**340,870**	**67.47%**
Unmapped	**256.8**	**164,363**	**32.53%**
TOTAL	**789.4**	**505,233**	**100.00%**

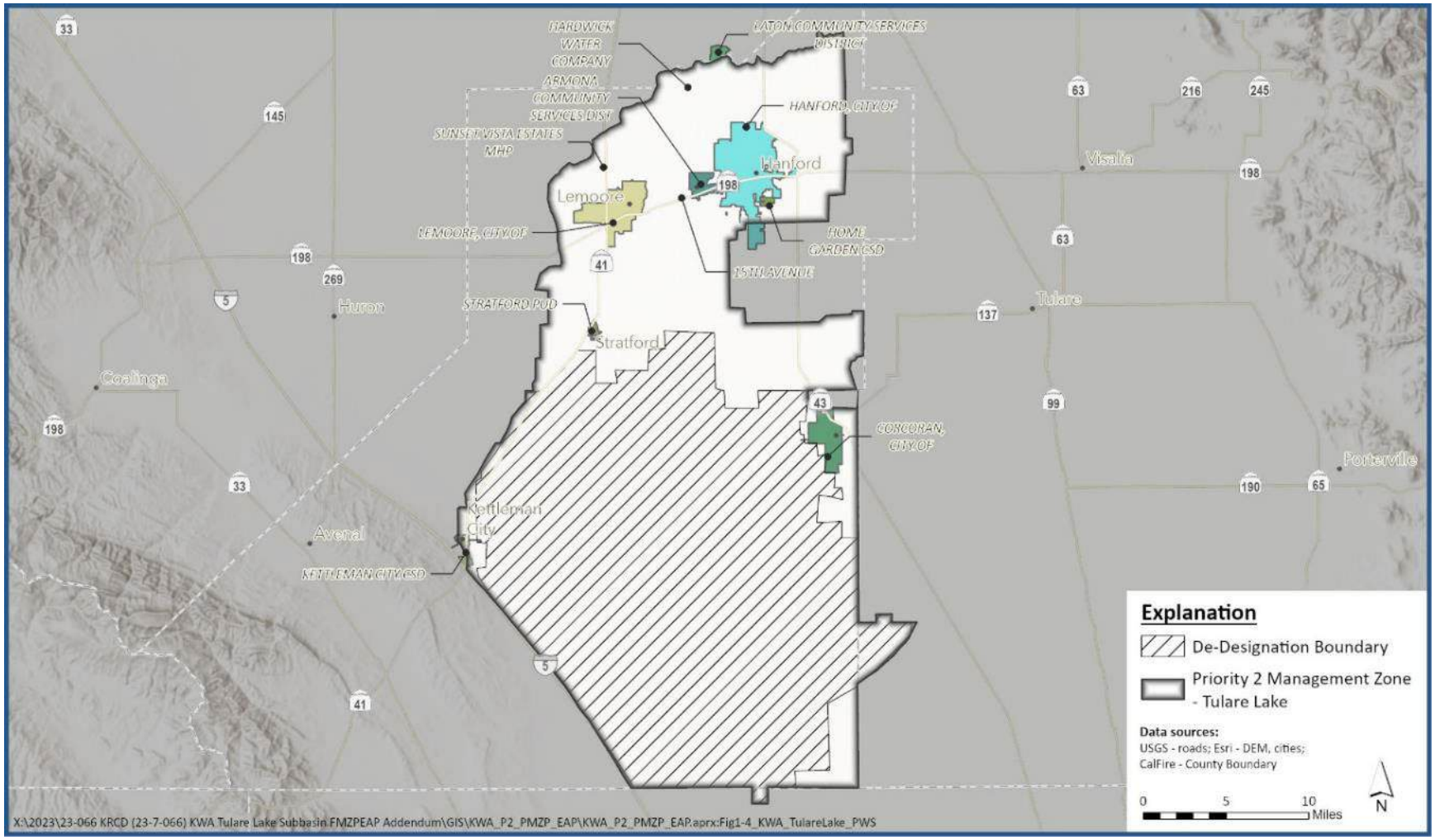


Figure 3-4b. Public Water System Boundaries Within and Adjacent to the Tulare Lake Area of the KWA Management Zone

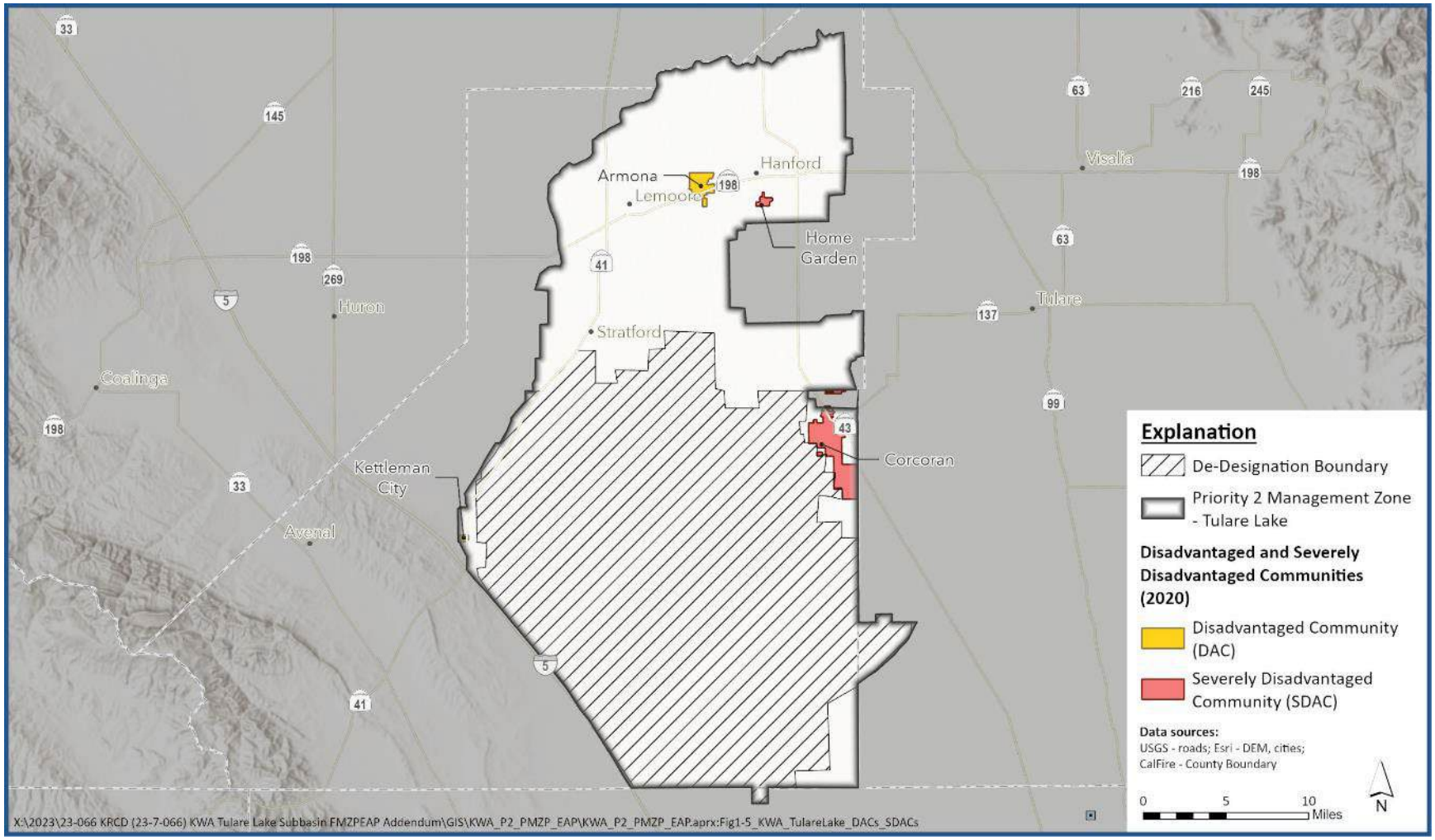


Figure 3-5b. Location of DACs and SDACs within and adjacent to the Tulare Lake Area of the KWA Management Zone

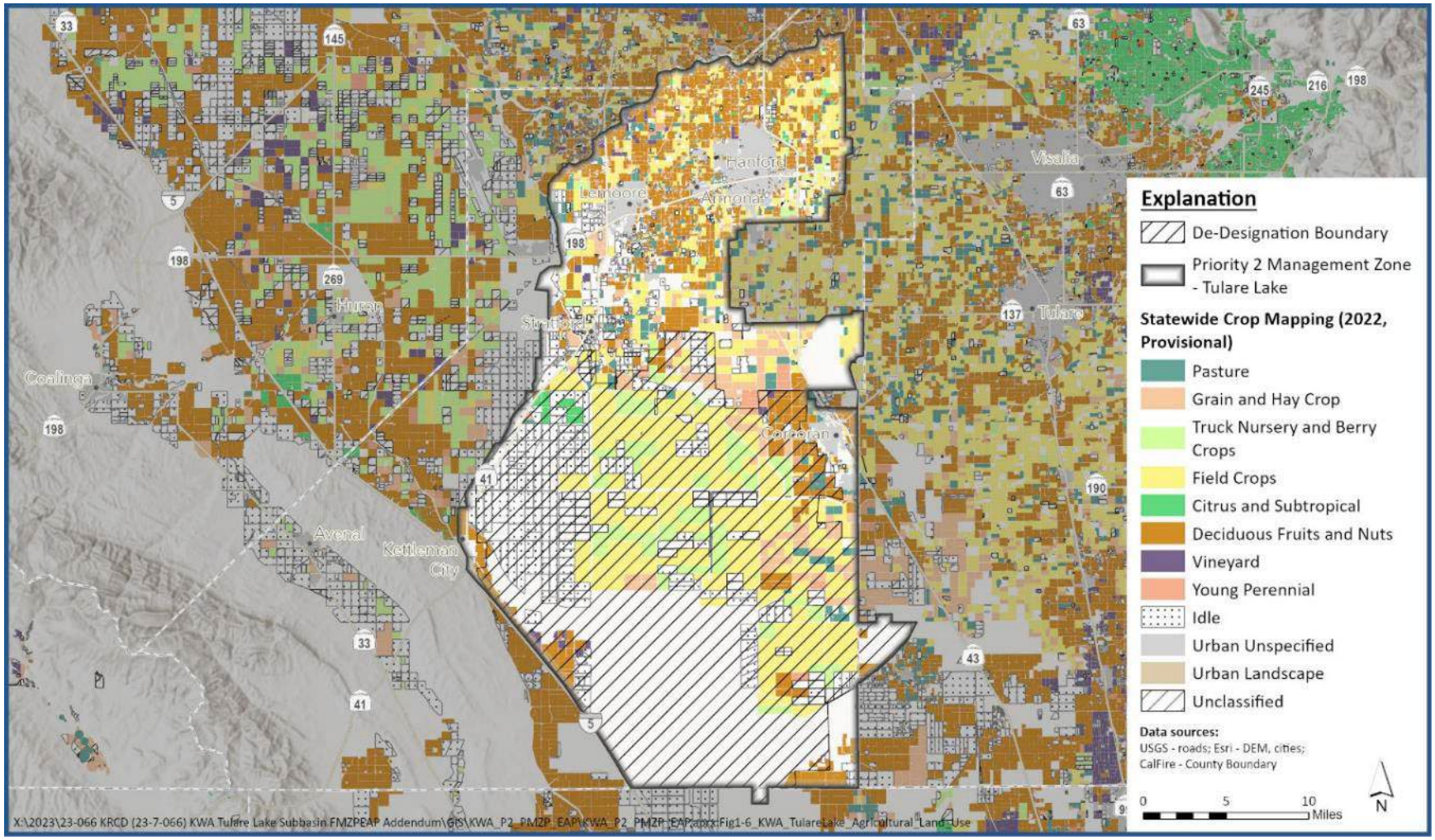


Figure 3-6b. Agricultural Land Use in the Tulare Lake Area of the KWA Management Zone

3.2. Initial Assessment of Groundwater Conditions

The initial assessment of nitrate groundwater conditions for the original Preliminary Management Zone Proposal was based on readily available existing data and information (collected between August and December 2020). Where possible, information from the Central Valley SNMP (CV-SALTS 2016a) was used and updated with more recent groundwater quality data from publicly available sources. The initial assessment of groundwater conditions was updated following the direction of the CVWB and is included in this section of the PMZP Addendum. Groundwater conditions including the hydrogeology of the P2 Tulare Lake Subbasin area of the KWA Management Zone was not updated, and can be found in the original PMZP and FMZP documents available online (https://www.cvsalinity.org/resources/management-zone-development/)

3.2.1. Hydrogeology

Please find the complete description of the Tulare Lake Subbasin's hydrogeology in the original PMZP and FMZP document available online (https://www.cvsalinity.org/resources/management-zone-development/).

3.2.2. Groundwater Elevations and Flow

Regional groundwater generally flows from the Sierra Nevada mountains towards the low point of the valley, following the regional dip of basement rock and sedimentary units. Groundwater elevation contour data and corresponding groundwater elevation point data were updated for this PMZP Addendum in 2024, using groundwater elevation data downloaded from the DWR SGMA Data Viewer (DWR, 2024). The data summarized corresponds to groundwater elevation contours of the water table (unconfined to semi-confined) aquifer and point data from Spring 2023 (**Figure 3-9b**). A groundwater depression in the center of the Tulare Lake area of KWA Management Zone directs the flow of the unconfined portion of groundwater inward toward the middle of the Tulare Lake area. In the unconfined aquifer, groundwater levels are highest in the northeast, with elevations about 180 feet. The groundwater depression located in the center of the Tulare Lake area exhibits groundwater elevations as low as -100 feet. The focus of the Nitrate Control Program is on the Upper Zone as described in Section 3.2.3 below. The description of groundwater movement in this document focuses primarily on the unconfined portion of the groundwater aquifer, which may not represent the movement of all groundwater present in deeper zones within the Management Zone.

Areas of Potential Contribution (Addendum)

This section evaluates potential impacts to groundwater associated with downgradient migration of nitrate from the P2 Tulare Lake portion of the KWA Management Zone. The potential areas of contribution were updated in 2024 for the Tulare Lake area of the KWA

Management Zone in this PMZP Addendum. The only area adjacent to the Tulare Lake area of the KWA Management Zone not already covered under the purview of other Management Zones is the western border with the Westside Subbasin, which is not prioritized according to the Nitrate Control Program. The northern border of the Tulare Lake area borders the P1 Kings Subbasin area of the KWA Management Zone, and the eastern border of the Tulare Lake area borders other P1 Management Zones (Kaweah Water Foundation Management Zone and the Tule Subbasin Management Zone). Therefore, this updated analysis of potential areas of contribution outside the Tulare Lake area of the KWA Management Zone only applies to the western border adjacent to the Westside Subbasin.

Table 3-7a lists the direction of groundwater flow and indicates whether the flow is entering (in) or exiting (out) of the Tulare Lake area of the KWA Management Zone (or flowing parallel to the boundary line) based on Spring 2023 contours of equal groundwater elevation developed and publicly available from DWR. The area of potential contribution associated with nitrate originating from the proposed Management Zone corresponds with spatial areas along the Tulare Lake border where groundwater elevation contours indicate that groundwater flows out of the proposed Management Zone and into the adjacent Westside Subbasin. The western border of the Tulare Lake area of the KWA Management Zone is characterized as one main segment based on similar characteristics of the direction and magnitude of the hydraulic gradient. The contour lines along the entire western border that is adjacent to the non-prioritized Westside Subbasin, suggest that groundwater is migrating into the Tulare Lake area of the KWA Management Zone. Nitrate concentrations are low when known, below 2.5 mg/L as N in the Upper Zone.

The KWA recognizes that there is uncertainty with the updated quantification of the areas of potential contribution described above for the P2 Tulare Lake area of the KWA Management Zone, due to hydraulic gradients calculated from specific seasons and years, the portion of the groundwater system represented by the groundwater elevation contours, and the existing data available to prepare the ambient nitrate map. The KWA also recognizes that this analysis represents a snapshot in time, as represented by DWR's Spring 2023 groundwater elevation contour and the currently available nitrate concentration data. As additional information is developed, including groundwater flow assessments performed for groundwater sustainability plan implementation purposes, the areas of potential nitrate contribution will be revisited for future work for the Nitrate Control Program, especially the Management Zone Implementation Plan. Coordination efforts between the KWA and the groundwater sustainability agencies in their area are underway

Table 3-7b. Quantification of Areas of Potential Nitrate Contribution (Tulare Lake Area of the KWA Management Zone)					
Description of Area Along Proposed MZ Border	**Approximate Hydraulic Gradient (ft/ft)**	**GWE Contour Data Source**	**GW Flow Direction (In/Out of Proposed Management Zone)**	**Ambient Post-2010 Nitrate Level (mg/L as N)**	**Adjacent Subbasin and Priority**
Western border from the intersection of the Tulare Lake Subbasin/Kings Subbasin/Westside Subbasin boundaries (Avenal Cutoff Rd area) south to south of Nevada Ave (west and mostly parallel to State Route 41)	0.0037	Spring 2023 (DWR)	East-southeast (In)	Unknown or <2.5 mg/L as N	Westside Subbasin (Not Prioritized)
All other boundaries	NA	NA	NA	NA	Priority 1 Subbasins covered by approved FMZPs

3.2.3. Upper Zone Delineation

The delineation of the Upper Zone is fully described in the original PMZP and FMZP, including descriptions and maps of the depth to the bottom of the Upper Zone and how that depth was developed. Please refer to the original KWA PMZP and FMZP documents for the complete description of this section, as there was no update necessary for this PMZP Addendum (https://www.cvsalinity.org/resources/management-zone-development/).

3.2.4. Nitrate Water Quality

Table 3-9 summarizes the groundwater quality data that were readily available for use to develop the original Preliminary Management Zone Proposal. These datasets include data previously developed for CV-SALTS and additional data obtained between August and December 2020. This PMZP document includes an update of this nitrate water quality assessment in the next section (**Section 3.2.5**). The original PMZP and FMZP nitrate water quality assessment is available online: https://www.cvsalinity.org/resources/management-zone-development/

3.2.5. Updated Nitrate Water Quality Data and Analysis for P2 Tulare Lake PMZP Addendum

The nitrate water quality data and analysis has been updated from the previous sections (Sections 3.2.4 above) to reflect refined methodologies and updated nitrate groundwater quality datasets available since the previous analysis in 2020.

To characterize nitrate concentrations in groundwater beneath and adjacent to the Tulare Lake area of the KWA Management Zone, available groundwater data were compiled, organized, and used to determine ambient conditions and trends that indicate where nitrate conditions are improving or degrading. This section describes:

- Groundwater nitrate data sources,
- Data quality control procedures,
- Organization of the nitrate data by groundwater depth horizon, and
- Data analysis methodologies for characterizing ambient conditions and trends.

Data Collection

Groundwater nitrate data have been collected and compiled from publicly available sources through the State Water Resources Control Board's Groundwater Ambient Monitoring and Assessment Program (GAMA) groundwater information system for the P2 Tulare Lake area, including a 3-mile buffer. The sources of nitrate data in the bulk download from GAMA included:

- DDW (Division of Drinking Water);
- DWR (Department of Water Resources);
- GAMA_DOM, GAMA_SP_STUDY, and GAMA_USGS (GAMA program specific groundwater monitoring sites for domestic wells, special studies, and joint efforts with the USGS);
- LOCALGW (GAMA data from local water agencies and well owners);
- UCD_NO3 (this contains nitrate data from the University of California Davis nitrate study associated with the SWRCB SBX2 1 Report to the Legislature);
- USGS_NWIS (U.S. Geological Survey's National Water Information System, NWIS);
- WB_CLEANUP (State Water Board data from regulated facilities database, also known as GeoTracker); and
- WB_ILRP (State Water Board data from Irrigated Lands Regulatory Program drinking water wells on grower parcels and groundwater quality trend monitoring (GQTM) wells)

Other data were requested and acquired from local entities, including county departments and groundwater sustainability agencies. These data were requested to use for analysis of groundwater conditions in the proposed Management Zones.

Table 3-12 summarizes the groundwater quality data that were readily available for use to develop the nitrate water quality analysis for the proposed P2 Management Zone areas. These datasets include data previously developed for CV-SALTS and additional data obtained in May 2024. Using the sources listed in this table, nitrate measurements and well data were compiled for each proposed P2 Management Zones.

Table 3-12. Groundwater Quality Data Sources for Proposed KWA Priority 2 Management Zone Areas

Data Category	Data Sources
The Phase II CV-SALTS Conceptual Model nitrate groundwater database developed for the High-Resolution Mapping project (CVSALTS 2016)	• Formerly California Department of Public Health (CDPH), now DDW • DWR • Central Valley Water Board WDR data per the Dairy General Order • Central Valley Water Board Regulated Sites • State Water Board/USGS Groundwater Ambient Monitoring and Assessment Program (GAMA) • USGS
Geotracker GAMA[1] (Note: Not all entities had nitrate data from within the proposed Management Zones)	• Department of Pesticide Regulation • DWR • GAMA – Domestic Wells; Special Studies, and Priority Basin Projects • Local Groundwater Projects • Monitoring Wells (Central Valley Water Board Regulated Sites) • Irrigated Lands Regulatory Program Upper Zone Wells • DDW PWS Wells (Actual Locations) • USGS National Water Information System (NWIS) • UCD Nitrate (University of California, Davis SBX2 1 Nitrate Study: California Spatio-Temporal Information on Nitrate in Groundwater (CASTING) database
Kings County[3]	• Nitrate tests associated with well permits and/or state small water systems

[3] Kings County Community Development Agency and Department of Public Health were contacted and KWA was directed to the publicly available datasets listed above.

Compilation and Standardization

All public data (and locally derived requested data, as available and permitted to be shared with the public) are compiled to standardize naming, formatting, and measurement units. The nitrate data undergo a cursory quality assurance/quality control (QA/QC) process prior to being utilized to characterize groundwater conditions. This process includes removing duplicate entries and marking questionable sample results that appeared to be misreported (typically from incorrect measurement units reported or anomalous/incorrect entries).

Identification of Outliers and Imputation for Left-Censored Data

Groundwater nitrate data are assessed for statistical outliers prior to performing ambient concentration and temporal analyses. Outliers are data points in which the measured value does not represent the actual value due to instrument or other errors. Outliers are detected with the right-tailed Grubbs' outlier test, which detects single outliers in normally distributed datasets (Grubbs, 1969; Stefansky, 1972). The outlier assessment is only performed for wells with four or more data points and less than 25% of their measurements were non-detectable, as smaller sample sizes often misidentify nonoutliers as outliers (Thompson and Lowthian, 2011). For wells with four or more data points and less than 25% of their measurements were non-detectable, the following methodology is used to identify outliers:

> The maximum value is considered an outlier if the null hypothesis of no outliers in the dataset is rejected. The null hypothesis is rejected if the Grubbs test statistic G[2] exceeds the upper critical value at a high significance level ($\alpha = 0.001$).

Identified outliers are removed from the dataset, and the removed data are replaced by imputation[3]. The natural cubic spline method[4] is used for the imputation of removed outliers. This method generates a smooth line connecting points on either side of the missing data using a third-degree polynomial determined by the data in the vicinity. If the imputed result is inaccurate (i.e., zero or negative), the nearest neighbor method is used instead. The Grubbs' test is again performed on the datasets with imputed values to confirm there are no remaining statistically significant outliers in the dataset after imputation.

Additional imputations are performed where applicable on left-censored data. Left-censored data are data with an unknown value but known to be below a certain value. In groundwater nitrate datasets, these are non-detect values in which a measurement cannot be made below a certain threshold. The detection threshold depends on the measuring device or analytical methodology and varies in the dataset. Left-censored data (non-detects) were imputed using regression on order statistics (ROS), which replaces non-detects using a probability plot of the detected values (Helsel and Cohn, 1988; Shumway et al., 2002). ROS is used on wells with four or more data points and no more than 25 percent non-detects. Imputed values depend on the distribution of detected values and may exceed detection limits. These values are used only in the calculation of means and ambient conditions.

Well Depth Zone Assignment

The ambient nitrate concentration and trends analyses consider wells categorized into the "Upper Zone," "Lower Zone," and "Below Lower Zone" depth categories. This depth designation is based on the following criteria:

- Well depth and bottom of screened interval depth[5]
- Well type
- Estimated well depth based on DWR's Well Completion Report spatial representation of statistics
- Comparison of the well's actual or estimated depth with the CV-SALTS delineation of the bottom of the Upper Zone

Wells from the publicly available nitrate dataset do not always have available depth information. The well type may serve as a proxy for wells from this dataset that do not have well depths or screened interval data reported. In this case, all domestic wells are categorized into the Upper Zone (as the depths of domestic wells are what the CV-SALTS' studies relied on most heavily for developing the depth of the Upper Zone). Other well types were assigned an estimated depth based on DWR's Well Completion Report spatial representation of well depth statistics, as available. DWR provides a one-mile grid mapping (based on Public Land Survey System (PLSS) sections) of the general statistics of well depths based on well types (well types include domestic, industrial, irrigation, municipal, and monitoring). However, this coverage has limitations (e.g., data and application are subject to change, attribute tables may include missing and duplicate records, incorrect values, and limited spatial resolution). The estimated depth is assigned based on the well type and DWR Well Completion Report statistics of mean well depth for the PLSS section that the well falls within. Once estimated well depths are assigned, these are compared to the GIS coverage of the depth to the bottom of the Upper and Lower Zones, as defined by CV-SALTS and placed in their appropriate well depth category[6].

Once all the nitrate data are categorized by depth, the groundwater concentration sample data are further scrutinized and standardized. As described above, the publicly sourced data go through a QA/QC process. This process improves the quality of the dataset (removing erroneous data from the dataset that could potentially skew the spatial interpolation incorrectly). Beyond this QA/QC process, however, the methodology of reporting non-detects varies between the various public entities reporting data to the GAMA database. Multiple methods have been used to represent non-detect nitrate sample results. Sometimes this has involved the use of the reporting limit value within the "value" field with a qualifier to denote "less than" entered as "<"; other times, there are non-detects in the public record listed with a value of "0" with or without a reporting limit (RL) in the "RL" field. Non-detect nitrate sample entries were standardized and quantified for purposes of data utility. Imputed values were developed using the ROS approach described above to replace left-censored (non-detect) concentrations where possible.

Public Posting of Nitrate Groundwater Data

The nitrate groundwater quality datasets will be posted on the CV-SALTS website (www.cvsalinity.org) to be publicly available for download for each proposed P2 Management Zone. The dataset contains a README tab which describes the fields and contents within the dataset; another tab provides well information (WellInfo) including location, source, and depth categories; the last tab provides the actual nitrate data (NitrData) used for the analyses described below. The nitrate data include wells sampled for Nitrate or Nitrate+Nitrite within three miles of each proposed P2 Management Zone.

Nitrate Groundwater Quality Analysis Methodology

The spatial interpolation process known as kriging was used for the analysis of ambient nitrate concentrations within the Management Zone. Spatial interpolation is a way to construct estimated values based on the range of a dataset (actual data); in this case, the method was used for the analysis of ambient nitrate concentrations in the Upper Zone. The specific method of interpolation used is known as kriging. This method relies on numerical nitrate values for the calculations; excluding non-detect nitrate levels could result in artificially higher interpolated ambient nitrate concentrations. A sample that returned a non-detect nitrate level should not be discarded simply because its actual low concentration is not quantified. Because non-detect samples are also informative, the method of utilizing imputed values was adopted. Laboratory and U.S. Environmental Protection Agency analytical methods for measuring nitrate concentrations in water samples have not changed significantly in the last 20 years, which supports quantifying non-detect samples with a low value for recent nitrate data (post-2010 data as used in the updated P2 Management Zone analyses).

Groundwater quality data for each well were temporally summarized to produce one average annual value to represent post-2010 concentrations. Annual averages for each well for each year and an average of post-2010 years with data were calculated. This provides one value for each well location with post-2010 data that can then be used for kriging.

There are several parameters associated with the geostatistical kriging approach to represent the spatial distribution of ambient nitrate concentrations in groundwater. The regional variability of nitrate in groundwater has been mapped within the Management Zone with a method that precludes introducing inappropriate or inaccurate representations of nitrate concentrations when wells used for kriging computations are spatially quite distant from one another. To constrain the distance each data control point can have, a 1.5-mile search radius was employed. This means that if no other well with nitrate data within the analysis period is located within 1.5 miles of the control point, the spatial interpolation stops its expansion and does not assign a value of ambient nitrate past 1.5 miles from that control point. The selection of this parameter can result in areas of unknown ambient nitrate concentrations. Spherical ordinary kriging was employed on the depth-dependent datasets for this Management Zone,

which fits a spherical variogram to the spatial patterns associated with changes in nitrate concentration. Weights derived from the structure of the variogram are used to interpolate concentrations at locations without measurements based on separation distances from known concentrations. Other parameters, such as grid spacing (0.1-mile spacing), were assigned to be small enough to allow for high resolution of the interpolated product. Additionally, nitrate data within a buffer zone of three miles outside the boundary of the Management Zone were used to maximize the understanding and estimation of ambient nitrate conditions along the Management Zone boundary. While kriging maintains the geostatistical information recorded in the original dataset, it does not invoke fluid transport mechanics and may produce rapid changes in concentration in regions with varied measurements. A spatial median filtering algorithm was applied to the interpolated dataset to smooth any particularly rapid changes in concentration.

Temporal Trends in Nitrate

Characterization of groundwater conditions in the Management Zone work also includes analysis of temporal trends in nitrate concentrations. Individual wells and regions with multiple groundwater quality measurements through time provide insights into past and future groundwater conditions. Two main approaches to trend analysis are recommended, including parametric and non-parametric statistical analyses of trends.

Parametric statistical analyses of trends assume a defined numerical relationship between the measured quantity and time, as well as normally distributed errors between the modeled and measured data. Parametric trends are estimated using a linear regression model in all wells with five or more data points (not including multiple measurements occurring on the same day, in which case a single median value is used). Five data points are the minimum sample size to attain a p-value less than 0.05 when performing a t-test for a normal distribution (Curtis et al., 2015). The slope hypothesis test is conducted for all linear trends, and only wells with a 95% confidence or greater (p less than 0.05) in the presence of a slope in the data were considered to have linear trends. The coefficient of determination (R^2) is also calculated for all trends to assess the linear regression model's fit to the data. R^2 values range from 0 to 1, with values closer to 1 representing better model fits. Linear trends with R^2 values less than 0.5 are not considered. Water quality changes can be seasonal, rapid, or otherwise not captured by a linear regression model, so these trends are only an approximation of changes in concentration over the period of record. Trends are analyzed over two periods of record, with long-term trends in wells with data preceding 2010 and recent trends considering post-2010 data only.

Both Mann-Kendall and Theil-Sen non-parametric analyses are additionally performed to characterize trends. Non-parametric analyses are performed on wells with five or more data points and over the same long-term and recent records as the parametric analysis. Mann-Kendall analyses determine whether statistically significant increasing or decreasing monotonic trends exist (Mann, 1945; Kendall, 1975). Wells are considered to have a significant trend if the

trend confidence exceeds 95% (i.e., p-value less than 0.05). Significant trends with a negative S-value are decreasing, while positive S-values are increasing. Once a significant trend is identified, a Theil-Sen slope analysis is performed to quantify the magnitude of the trend. The Theil-Sen analysis calculates the slope between all possible pairs of points and uses the median slope to estimate the trend magnitude (Theil, 1950; Sen, 1968; Gilbert, 1987). While the Mann-Kendall and Theil-Sen analyses determine whether statistically significant trends exist and estimate the trend magnitudes, the non-parametric methods do not test whether the data fit a particular model and are less suitable for making projections compared to parametric (e.g., linear) methods.

Results from the Updated Nitrate Water Quality Analyses

To update the characterization of nitrate concentrations in groundwater beneath and adjacent to the Tulare Lake area of the KWA Management Zone, available groundwater quality data were compiled, organized, and used to determine ambient conditions and trends that indicate where nitrate conditions are improving, degrading, or where there is no significant trend. This section describes groundwater nitrate data sources (**Table 3-13**), existing ambient nitrate conditions, nitrate trends analyses, and an evaluation of inactive drinking water wells.

Table 3-13. Summary of Wells with Nitrate Data Located in the Tulare Lake Area of the KWA Management Zone by Source (All Well Depths)

Source[1]	All Well Depth Categories		
	Wells with Nitrate Data	Wells with Post-2010 Nitrate Data	Wells with Post-2010 Nitrate MCL Exceedance
Division of Drinking Water[2]	138	91	4
DWR[3]	152	0	0
GAMA[4]	23	19	1
Irrigated Lands[5]	257	257	21
Regulated Facilities[6]	60	33	17
UC Davis Nitrate[7]	935	12	3
USGS[8]	121	22	2
Total	**1,686**	**434**	**48**

3.2.6. Existing Ambient Conditions

Nitrate measurements and well data were compiled for the Tulare Lake area of the KWA Management Zone from publicly available data sources and complemented by data requests to counties and local groundwater sustainability agencies. Nitrate data were summarized by data source, depth, and recent nitrate exceedances in Table 3-14. There are 434 wells with recent nitrate measurements (since January 2010) in the proposed Management Zone, and 11 percent of them have had a nitrate measurement that exceeds the drinking water MCL.

Figure 3-15 shows the spatial distribution of wells with nitrate measurements by depth category. Wells were categorized into an appropriate depth category (Upper Zone, Lower Zone, Below Lower Zone, and Unknown) to produce GIS coverages of the wells with nitrate data. There are many more Upper Zone wells compared to Lower and Below Lower Zone wells with nitrate data. Upper Zone wells occur in the northern portion of the Tulare Lake area of the KWA Management Zone. Deeper wells completed in the Lower or Below Lower Zones are mainly located near the community of Hanford. The map in Figure 3-16 shows the locations of all Upper Zone wells with nitrate measurements since 2010. This figure also illustrates the locations of Upper Zone wells that have had at least one nitrate sample that exceeded the MCL. Upper Zone wells with data since 2010 show several nitrate exceedances located in the northern portion of the proposed Tulare Lake area of the KWA Management Zone.

High resolution spatial analyses of nitrate in the Upper Zone, Lower Zone, and Below Lower Zone were performed using the nitrate dataset described above. The Upper Zone remains the focus of the Nitrate Control Program Management Zone work, but analyses of deeper aquifer zones were completed to provide insight into conditions throughout the entire groundwater aquifer system as data are available. This includes the following steps:

Annual average nitrate concentrations were calculated for each well for the years 2010-2024 to yield one average nitrate concentration representing recent conditions.

Wells with nitrate data outside the proposed P2 areas of the Management Zone and within a buffer zone of three miles around the P2 areas of the Management Zone boundaries were compiled and used in the high resolution analysis because nitrate occurrence does not cease at the border of the Management Zone.

Geospatial interpolation (kriging) of the well point data from each individual well depth category (Upper, Lower, and Below Lower Zones) was performed using a search radius of 1.5 miles.

Gap areas were shown to exist where post-2010 nitrate well data in a specific depth zone (Upper, Lower, and Below Lower Zones) were insufficient to produce the spatial interpolation using the 1.5 mile search criterion[1].

Figure 3-17a illustrates the average post-2010 nitrate concentrations for all Upper Zone wells in the Tulare Lake area of the KWA Management Zone. This figure also shows the interpolated ambient Upper Zone post-2010 nitrate as well as the gap areas where insufficient Upper Zone nitrate data exist. High nitrate concentrations exist in several relatively small spatial areas throughout the northern area of the Tulare Lake area of the KWA Management Zone, including areas near the community of Lemoore, and surrounding the community of Hanford. Insufficient recent Upper Zone nitrate data are available throughout the southern area and within the de-designated area. Figures 3-17b and 3-17c provide the average post-2010 nitrate concentrations for the Lower and Below Lower Zones, respectively. There are fewer recent nitrate groundwater data available for the Lower Zone compared to the Below Lower Zone, but the dataset available for this time period indicates nitrate levels are relatively low in the Lower and Below Lower Zones, with the exception of a small area northeast of the community of Corcoran which exhibits elevated nitrate levels in the Lower and Below Lower Zones.

To test if the ambient average post-2010 nitrate presented in Figure 3-17a is potentially underestimating conditions in the Upper Zone, the maximum post-2010 nitrate concentration from each well (point data) is overlain atop the interpolated ambient Upper Zone nitrate in Figure 3-18. This map provides a comparison between the shaded colors representing the average annual post-2010 nitrate and the colored dots that represent the maximum measured nitrate in individual wells since 2010. The maximum post-2010 nitrate concentration is presented for the Upper Zone wells in the Management Zone to verify that the identification of areas with potentially elevated nitrate is not underestimated from wells that may have more recently begun to exceed the nitrate MCL. There is good agreement between the ambient post-2010 average-based interpolated Upper Zone nitrate to the maximum Upper Zone nitrate concentrations in individual wells, with very few exceptions. There are several individual wells that plot on top of or very close to another well with different maximum concentrations despite both assumed to be completed in the Upper Zone. This is a testament to the heterogeneity and variability inherent to groundwater quality conditions, as well as the availability and quality of the dataset. Nitrate data for Upper Zone wells may have a maximum nitrate concentration exceeding the MCL but are located adjacent to other wells that have no measured nitrate concentrations above the MCL. The KWA recognizes that there is some inherent uncertainty associated with this analysis, and also recognizes that the recent ambient nitrate coverage is subject to refinement as additional Upper Zone groundwater nitrate data become available.

3.2.7. Groundwater Nitrate Trends Analysis

The refined methodology used to perform updated temporal trends analyses on the groundwater nitrate data in the Tulare Lake area of the KWA Management Zone is provided above. The groundwater nitrate trends analysis includes parametric and non-parametric trends analyses for the full record of measurements for a particular well as well as a more recent view, utilizing data records since 2010. Trends analyses are only performed for wells with at least five measurements in the time period of interest. Identified trends are categorized by magnitude of concentration

change annually. The magnitude of change in concentration is equivalent to the best fitting linear slope for parametric trends and the Theil-Sen slope for non-parametric trends. Slopes are calculated for wells with statistically significant trends. Trends in nitrate that are changing more than 1 mg/L/yr (i.e., 1/10th the MCL for nitrate annually) are considered "increasing" or "decreasing" depending on trend direction. Trends that are changing less than or equal to 1 mg/L/yr but more than 0.1 mg/L/yr are considered "slightly increasing" or "slightly decreasing". Trends changing less than or equal to 0.1 mg/L/yr are considered "neutral" and represent small but statistically significant upward or downward changes in concentration. Parametric trends are summarized by depth zone, trend period, and trend magnitude in **Table 3-15a**. Non-parametric trends are summarized in **Table 3-15b**.

Wells with trend analysis results are mapped and symbolized with different colors denoting trend results and different shapes denoting well depth. Upper Zone wells are circles, Lower Zone wells are squares, Below Lower Zone wells are triangles, and wells in unknown depth zones are diamonds. Trends increasing at rates exceeding 1 mg/L/yr are red, and slightly increasing trends are orange. Neutral trends with rates less than or equal to 0.1 mg/L/yr are yellow. Decreasing trends are shades of green with darker shades representing rates exceeding 1 mg/L/yr. Trends not meeting minimum criteria are grey. Trends not meeting minimum criteria are not necessarily stable but do not meet conditions for statistical significance.

Long-term trends are analyzed only in wells with at least one data point prior to 2010. Long-term parametric and non-parametric trends are displayed in **Figures 3-19a** and **3-19b**. The recent trend analysis considers only measurements taken after 2010. Recent parametric and non-parametric trends are displayed in **Figures 3-20a** and **3-20b**. Although most wells with nitrate data do not meet the conditions for estimating parametric (linear) or non-parametric trends, many of those wells that do meet the conditions show both increasing or decreasing trends. Spatially, the wells with increasing trends are mostly located in the north, east, and northeastern part of the area in areas with elevated ambient nitrate in the Upper Zone.

Table 3-14 Wells with Nitrate Measurements in the Tulare Lake Area of the KWA Management Zone by Depth Category

Depth Category	All Wells with Nitrate Data	Wells with Post-2010 Nitrate Data	Wells with Post-2010 Nitrate > 10 mg/L-N	Percent of Wells with Post-2010 Nitrate Data > 10 mg/L-N
Upper	1,083	333	42	13%
Lower	11	7	0	0%

Below Lower	52	34	0	0%
Unknown	540	60	6	10%
Total	**1,686**	**434**	**48**	**11%**

Table 3-15a Parametric (Linear) Trends in Nitrate Concentrations in Wells within the Tulare Lake Area of the KWA Management Zone

Depth Zone	Trend Period	Number of Wells						
		Tested for Linear Trend	Not Meeting Conditions for Linear Trend	Decreasing Significantly (>1 mg/L/yr)	Decreasing (>0.1 mg/L/yr)	Stable (<0.1 mg/L/yr)	Increasing (>0.1 mg/L/yr)	Increasing Significantly (>1 mg/L/yr)
Upper	Long Term	18	13	0	1	1	2	1
	Recent	15	11	0	0	0	1	3
Lower	Long Term	2	1	0	0	0	1	0
	Recent	0	0	0	0	0	0	0
Below Lower	Long Term	1	1	0	0	0	0	0
	Recent	1	1	0	0	0	0	0
Unknown	Long Term	28	24	1	1	1	1	0
	Recent	17	14	0	0	2	1	0
All Wells with Nitrate Data	Long Term	49	39	1	2	2	4	1
	Recent	33	26	0	0	2	2	3

Table 3-15b. Non-Parametric Trends in Nitrate Concentrations in Wells within the Tulare Lake Area of the KWA Management Zone

Depth Zone	Trend Period	Number of Wells						
		Tested for Non-Parametric Trend	Not Meeting Conditions for Non-Parametric Trend	Decreasing Significantly (>1 mg/L/yr)	Decreasing (>0.1 mg/L/yr)	Stable (<0.1 mg/L/yr)	Increasing (>0.1 mg/L/yr)	Increasing Significantly (>1 mg/L/yr)
Upper	Long Term	18	15	0	1	0	1	1
	Recent	15	11	1	1	0	1	1

Table 3-15b. Non-Parametric Trends in Nitrate Concentrations in Wells within the Tulare Lake Area of the KWA Management Zone								
Depth Zone	Trend Period	Number of Wells						
		Tested for Non-Parametric Trend	Not Meeting Conditions for Non-Parametric Trend	Decreasing Significantly (>1 mg/L/yr)	Decreasing (>0.1 mg/L/yr)	Stable (<0.1 mg/L/yr)	Increasing (>0.1 mg/L/yr)	Increasing Significantly (>1 mg/L/yr)
Lower	Long Term	2	1	0	0	0	1	0
	Recent	0	0	0	0	0	0	0
Below Lower	Long Term	1	1	0	0	0	0	0
	Recent	1	1	0	0	0	0	0
Unknown	Long Term	28	24	0	1	2	1	0
	Recent	17	14	0	0	1	1	1
All Wells with Nitrate Data	Long Term	49	41	0	2	2	3	1
	Recent	33	26	1	1	1	2	2

[1] The 1.5 mile search radius was selected to refine the local ambient nitrate mapping for the proposed Management Zone and recognize the potential variability inherent in groundwater nitrate concentrations spatially. This search radius reduces the reliance on well data from farther away that may not represent local nitrate conditions.

[1] Data sources originated from the GAMA website (https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/, accessed May 2024).

[2] These wells are from Public Water Systems with data from GAMA.

[3] DWR conducts groundwater sampling and is provided by GAMA.

[4] GAMA data originates from the GAMA Program, which sampled private domestic wells, as well as other supply wells and monitoring wells.

[5] These are drinking water wells tested as required by the Irrigated Lands Regulatory Program (ILRP), with data made available through GAMA.

[6] These are mostly monitoring wells from Water Board regulated facility cleanup and permitted sites with data made available through GAMA.

[7] The UC Davis Nitrate dataset is from the UC Davis Report for the State Water Resources Control Board (SWRCB) Senate Bill X2 1 Report to the Legislature (2012) (https://groundwaternitrate.ucanr.edu/), as made available through GAMA.

[8] These data come from the USGS National Water Information System (NWIS), as made available through GAMA.

[1] https://geotracker.waterboards.ca.gov/gama/gamamap/public/, accessed in May 2024

[2] The Grubbs' test statistic, G, is the largest absolute deviation from the sample mean in units of the sample standard deviation.

[3] Imputation is the assignment of a value based on an inference from other values.

[4] The natural cubic spline method is an interpolation tool to estimate values based on knowledge of the dataset.

[5] Due to lack of a consistent reporting of screened interval information for each well, composite wells were categorized into the lowest depth zone they are completed in. For example, wells that may have a well screen that spans the Upper and Lower Zones were placed in the Lower Zone, utilizing the depth of the well and/or the depth of the bottom of the screened interval and comparing it to the bottom of the Upper Zone and bottom of the Lower Zone.

[6] A future refinement of this methodology could involve utilizing screened interval information (when available) to better assess the understanding of Upper Zone water quality contributions and Lower Zone water quality contributions to wells that have screened intervals that span both depth zones.

3.2.8. Inactive Drinking Water Supply Wells

The Management Zone received comments from the Regional Board on the PMZP, one of which involved a concern about inactive drinking water supply wells producing bias in the ambient Upper Zone nitrate analysis. In order to address this concern, the location of inactive supply wells that have had nitrate exceedances are compared to the ambient nitrate map. The DDW's online public water system database website can be used in conjunction with the GAMA database to identify supply wells that are no longer used within the Management Zone. The DDW website provides database files that include a file containing public water system well identification numbers and well status codes.[4] The wells from the DDW website are not accompanied by location coordinates, but these wells can be linked (using their primary station code ID) to nitrate groundwater quality data from the GAMA dataset which does provide well location coordinates. Wells within the KWA Southern Portion (Tulare Lake Subbasin and small part of Kaweah Subbasin) that have a current status (as provided by DDW, which was last updated in August 2021) of "AB" for abandoned, "DS" for destroyed, "IR" for inactive raw, "IT" for inactive treated, and "IU" for inactive unused, are considered to be no longer actively used for drinking water.

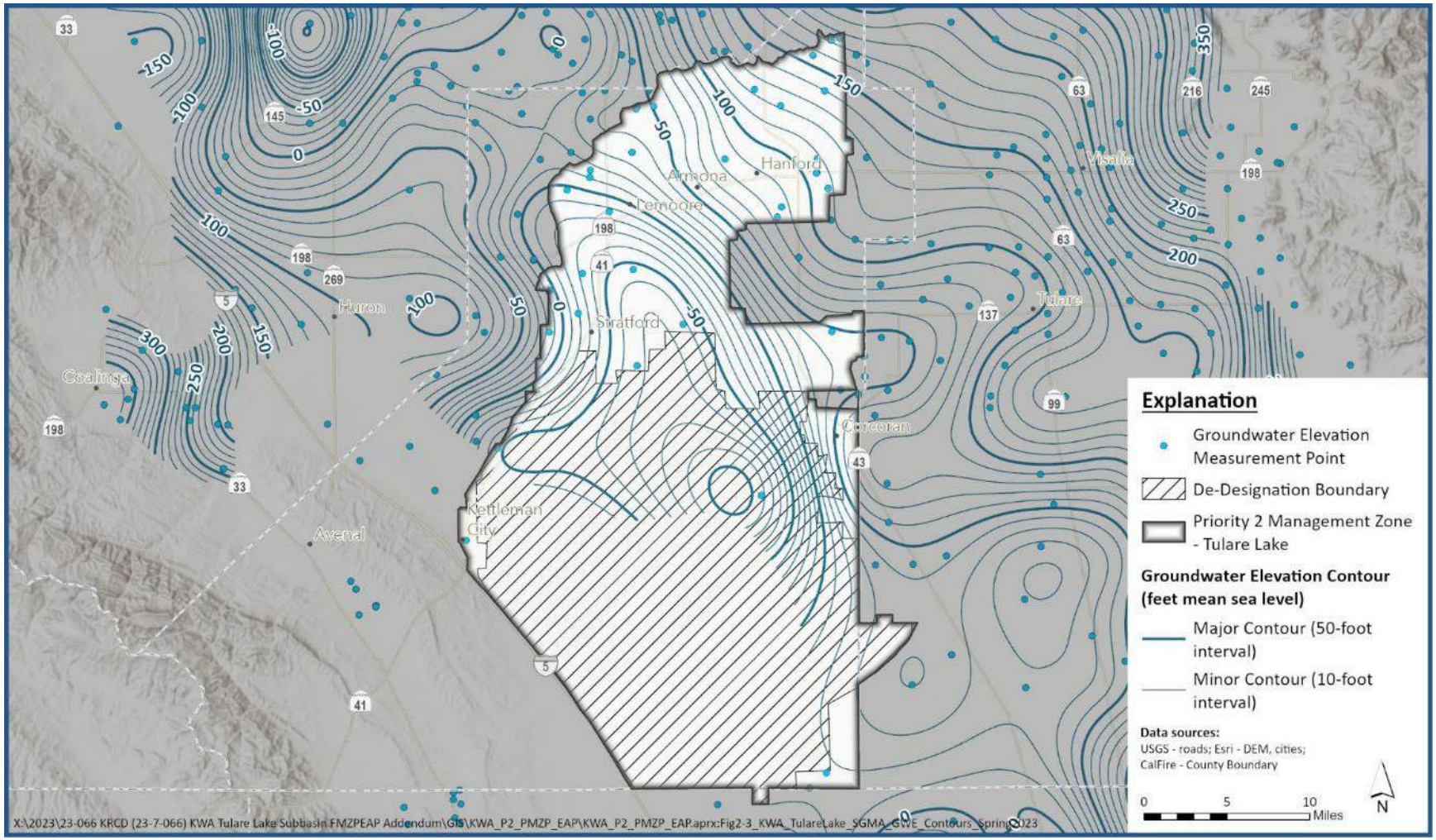
Within the KWA Southern Portion (Tulare Lake Subbasin and small part of Kaweah Subbasin), a total of 42 supply wells are not currently being used for drinking water according to DDW (5 are abandoned, 27 are destroyed, and 10 are inactive). These wells are all less than 9,229 feet from

[4] Water quality database files are publicly accessible here https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/EDTlibrary.html (accessed June, 2022), including the supporting database file SITELOC, which contains primary station codes (well identification numbers) and well status codes that can be used to determine if a well has been abandoned, destroyed, or deemed inactive.

the nearest Upper Zone well with post-2000 nitrate data, with an average proximity of 4,298 feet from the nearest Upper Zone well with post-2000 nitrate data. Most of the wells not currently being used for drinking water supply (according to DDW) fall within ambient Upper Zone concentrations less than 7.5 mg/L as N (25 out of 42 wells). The remaining 17 wells fall within the ambient Upper Zone concentration reflective of MCL exceedances. **Figure 3-15** shows the locations of the 42 wells in the KWA Southern Portion (Tulare Lake Subbasin and small part of Kaweah Subbasin) not currently being used for drinking water supply in relation to Upper Zone wells with post-2000 data and ambient post-2000 nitrate conditions.

3.2.9. Discussion of De-Designated Areas

As illustrated in **Figure 3-9b**, there are areas within the P2 Tulare Lake Subbasin portion of the KWA Management Zone that have been de-designated for beneficial MUN (municipal and domestic drinking water) use. These areas are not subject to the Nitrate Control Program, which means that any discharger within the de-designated area are not subject to comply or participate in the KWA Management Zone activities. Any domestic wells located within the de-designated area are currently being investigated to determine if the wells are screened below the de-designated portion of the subsurface (the designated clay unit based on the de-designation) and may be eligible to participate in the Early Action Plan.



Source: DWR

Figure 3-9b. Spring 2023 Contours of Equal Groundwater Elevation for the Tulare Lake Subbasin

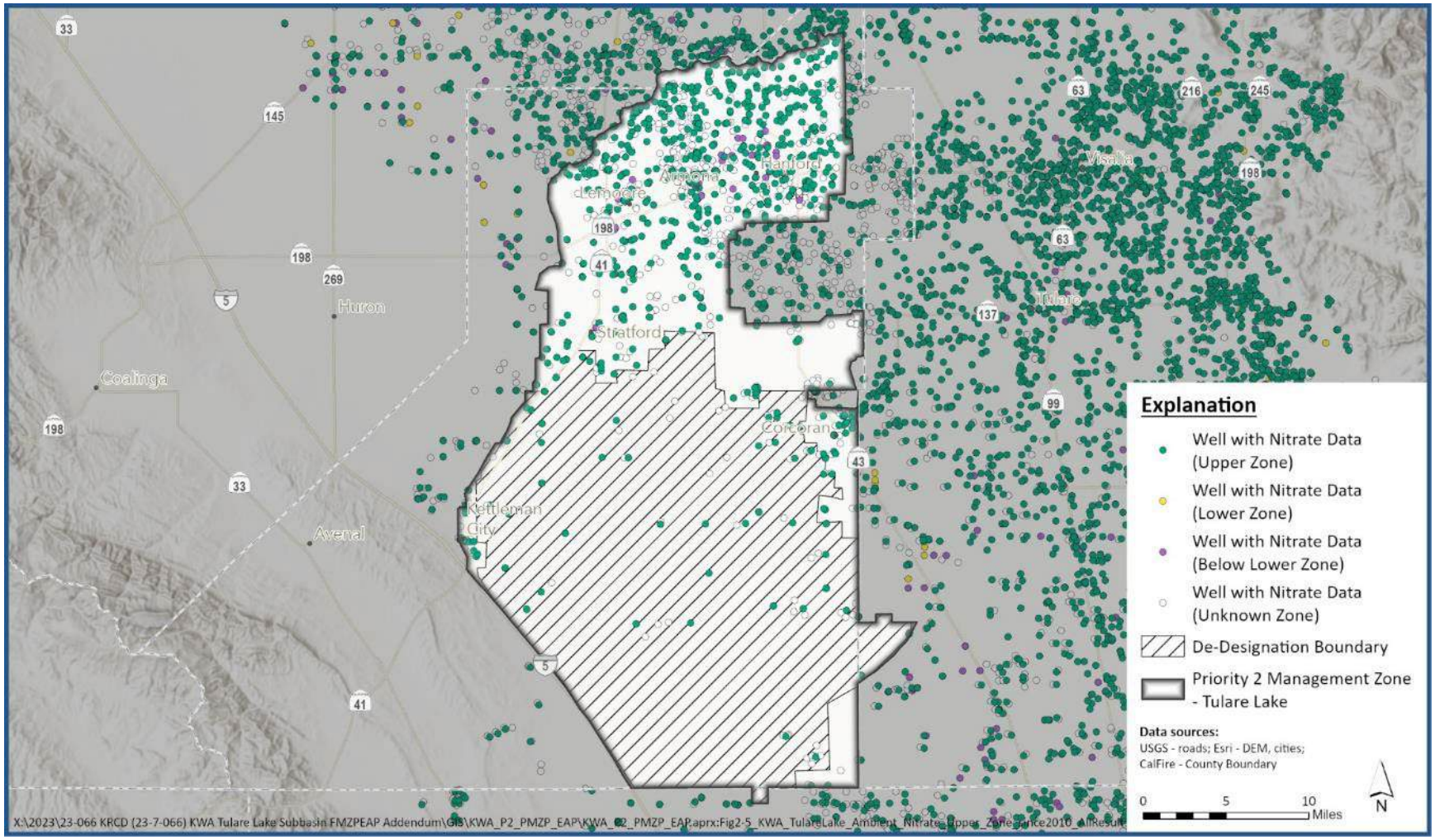


Figure 3-16. Wells with Nitrate Data within the Tulare Lake Area of the KWA Management Zone by Depth Category

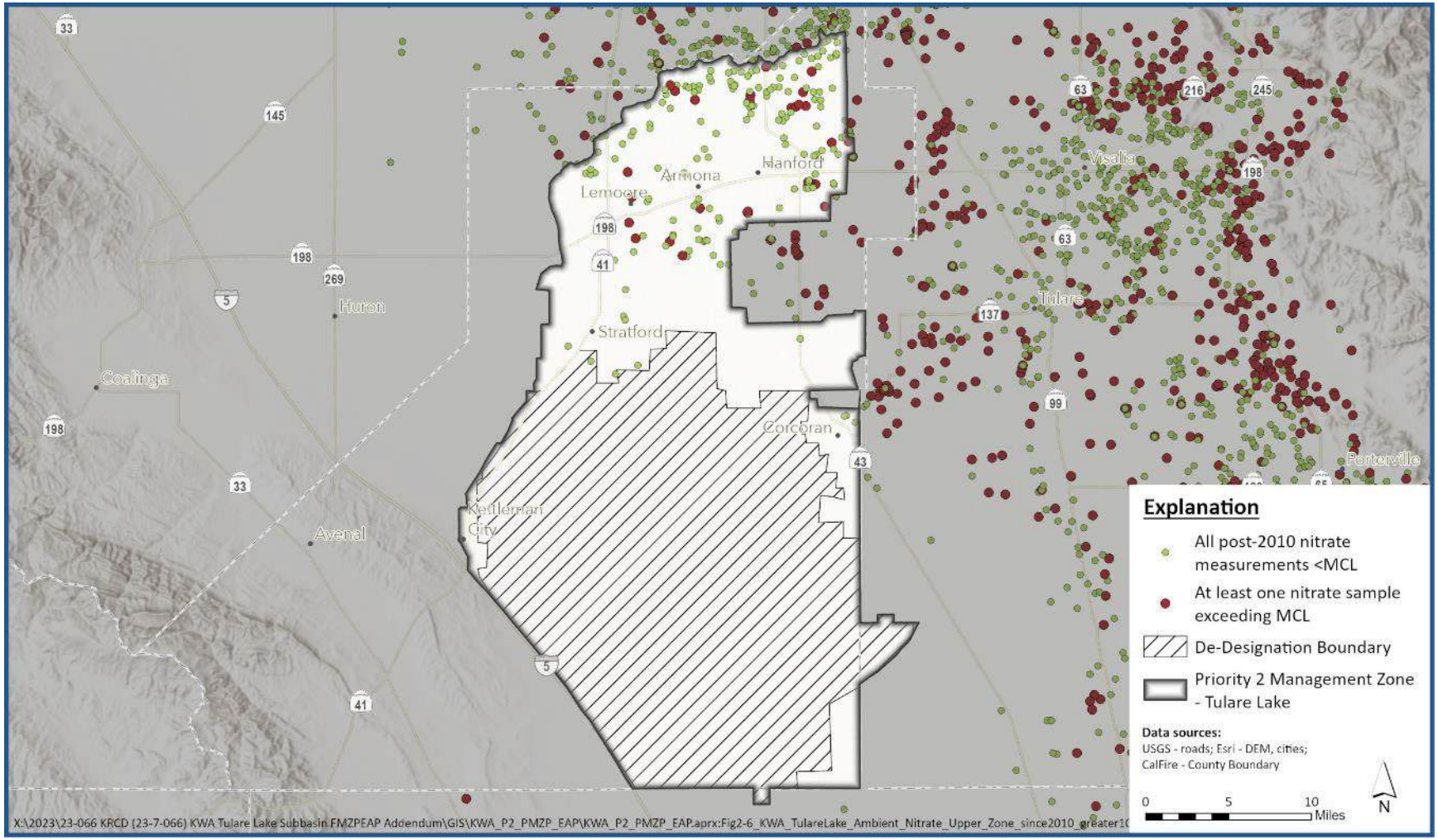
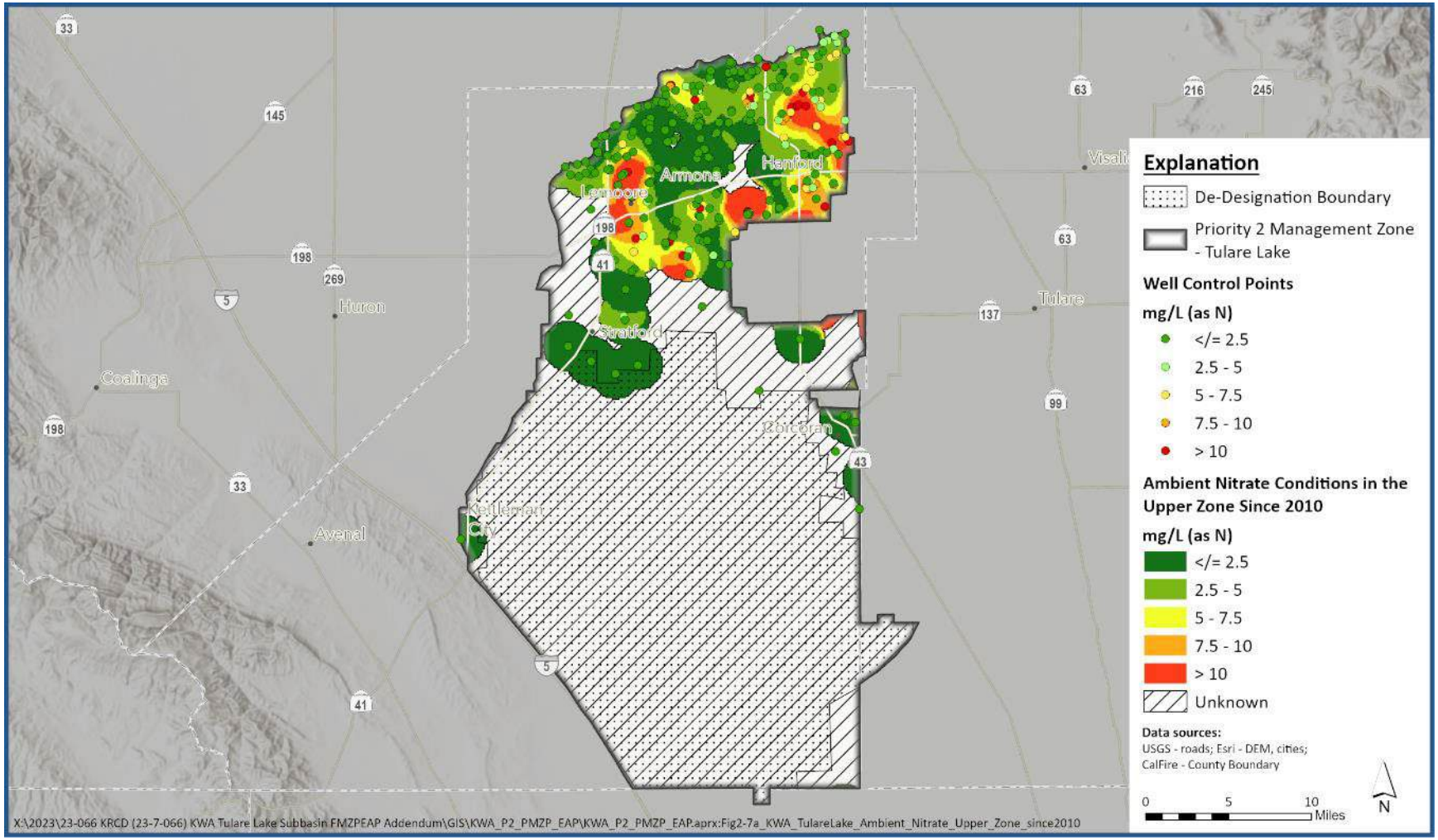
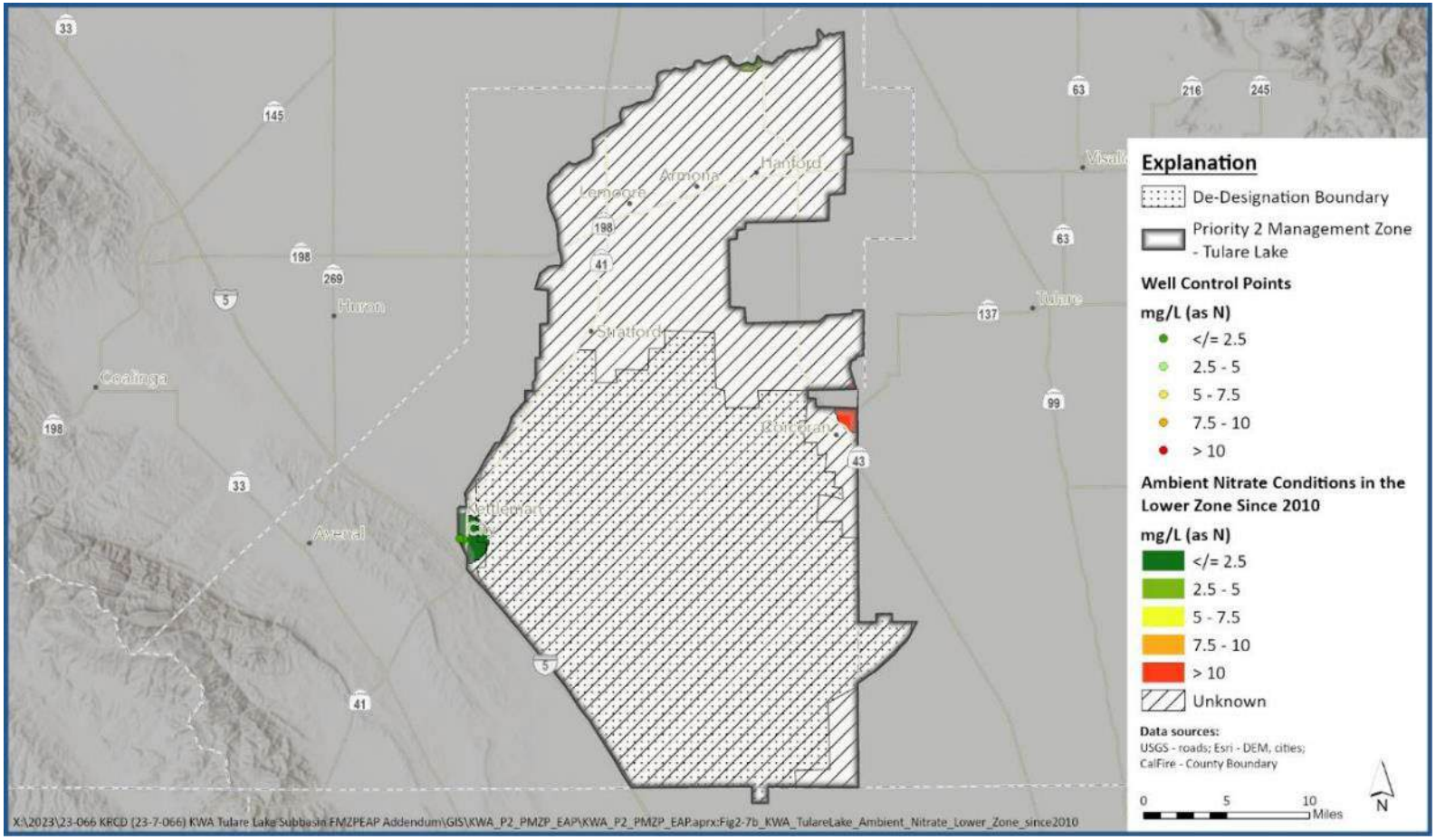


Figure 3-17. Upper Zone Wells with Nitrate Data and Nitrate Concentrations > 10 mg/L-N (Post-2010) in the Tulare Lake Area of the KWA Management Zone



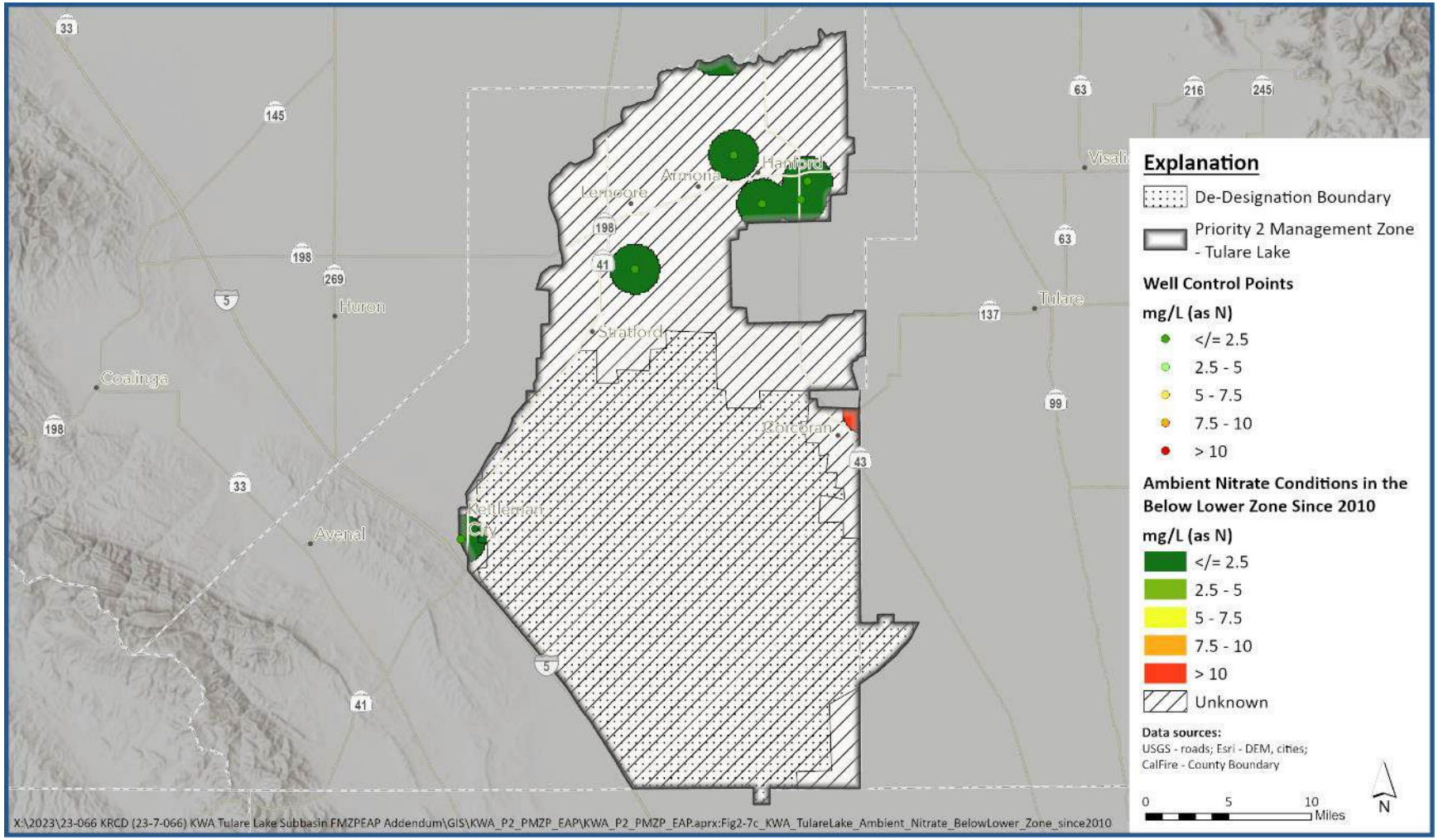
Note: This map was developed using the best available groundwater nitrate data from January 2010 to May 2024 for wells completed in the Upper Zone. This map is subject to refinement as additional data becomes available

Figure 3-17a. Ambient Post-2010 Nitrate Concentrations in the Upper Zone of Groundwater Underlying the Tulare Lake Area of the KWA Management Zone



Note: This map was developed using the best available groundwater nitrate data from January 2010 to May 2024 for wells completed in the Upper Zone. This map is subject to refinement as additional data becomes available

Figure 3-17b. Ambient Post-2010 Nitrate Concentrations in the Lower Zone of Groundwater Underlying the Tulare Lake Area of the KWA Management Zone



Note: This map was developed using the best available groundwater nitrate data from January 2010 to May 2024 for wells completed in the Lower Zone. This map is subject to refinement as additional data becomes available

Figure 3-17c. Ambient Post-2010 Nitrate Concentrations in the Below Lower Zone of Groundwater Underlying the Tulare Lake Area of the KWA Management Zone

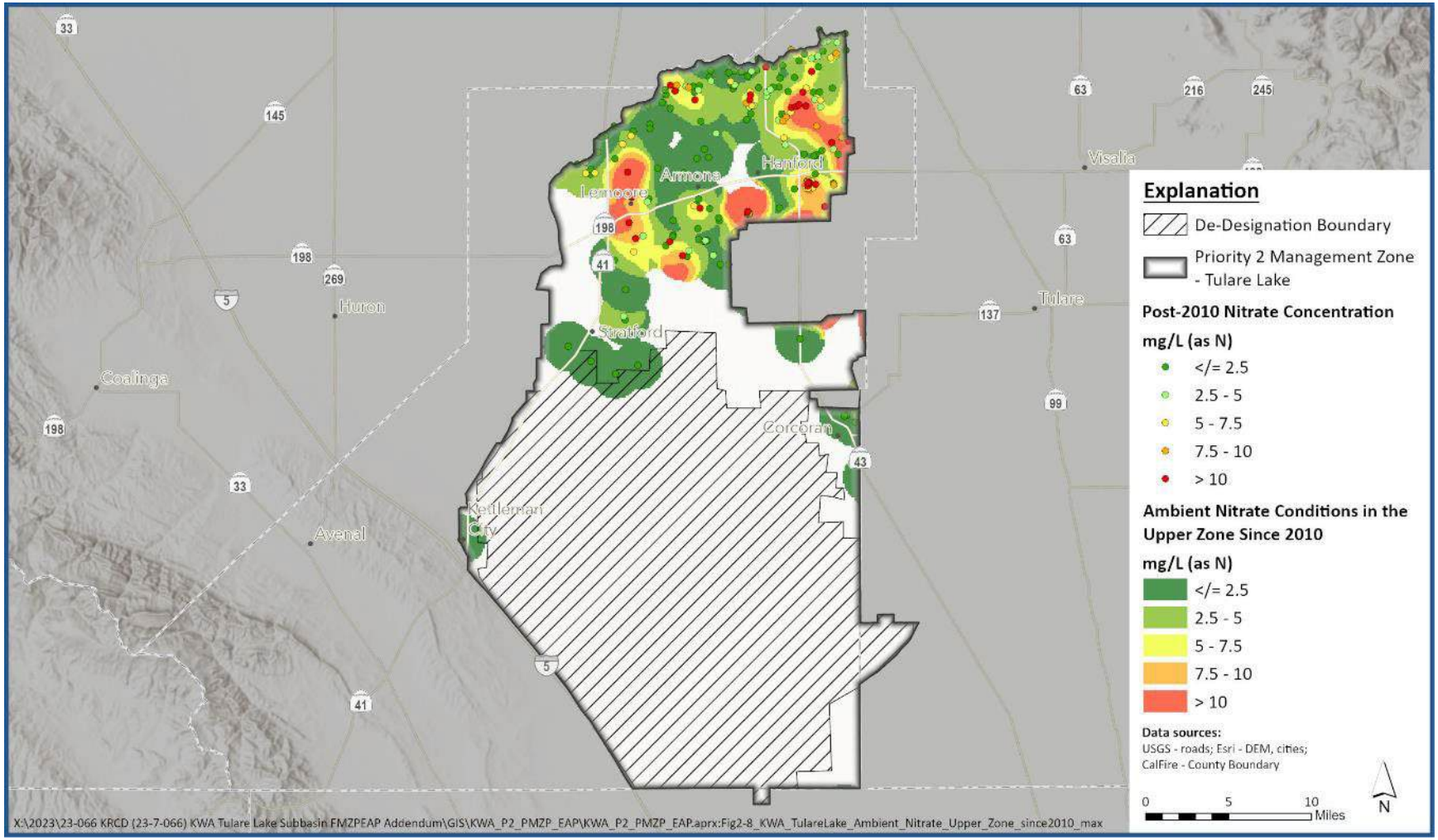


Figure 3-18. Maximum Post-2010 Nitrate in Wells Completed in the Upper Zone with Ambient Groundwater Underlying the Tulare Lake Area of the KWA Management Zone

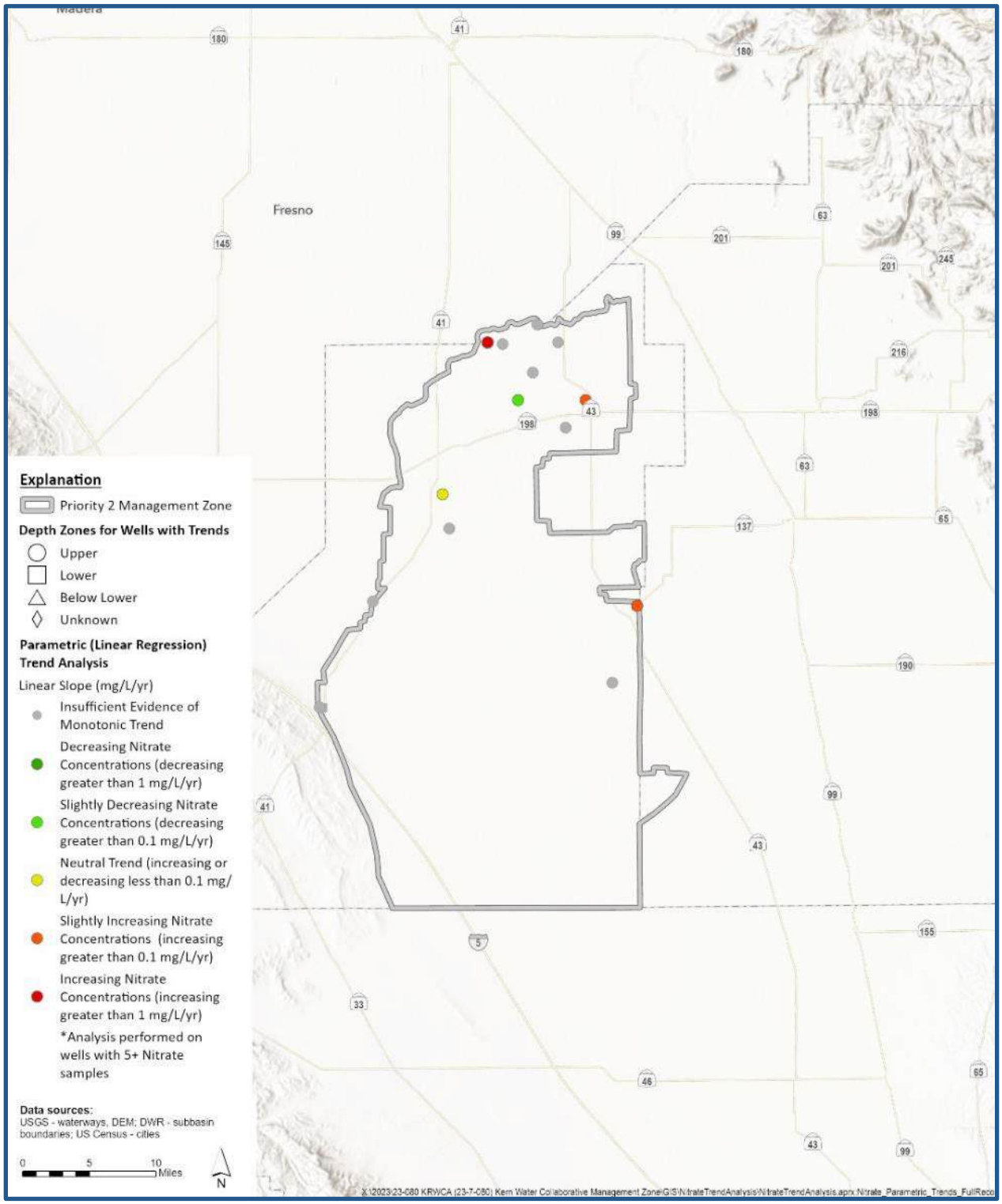


Figure 3-19a. Historical (Long-Term) Parametric Trends in Nitrate

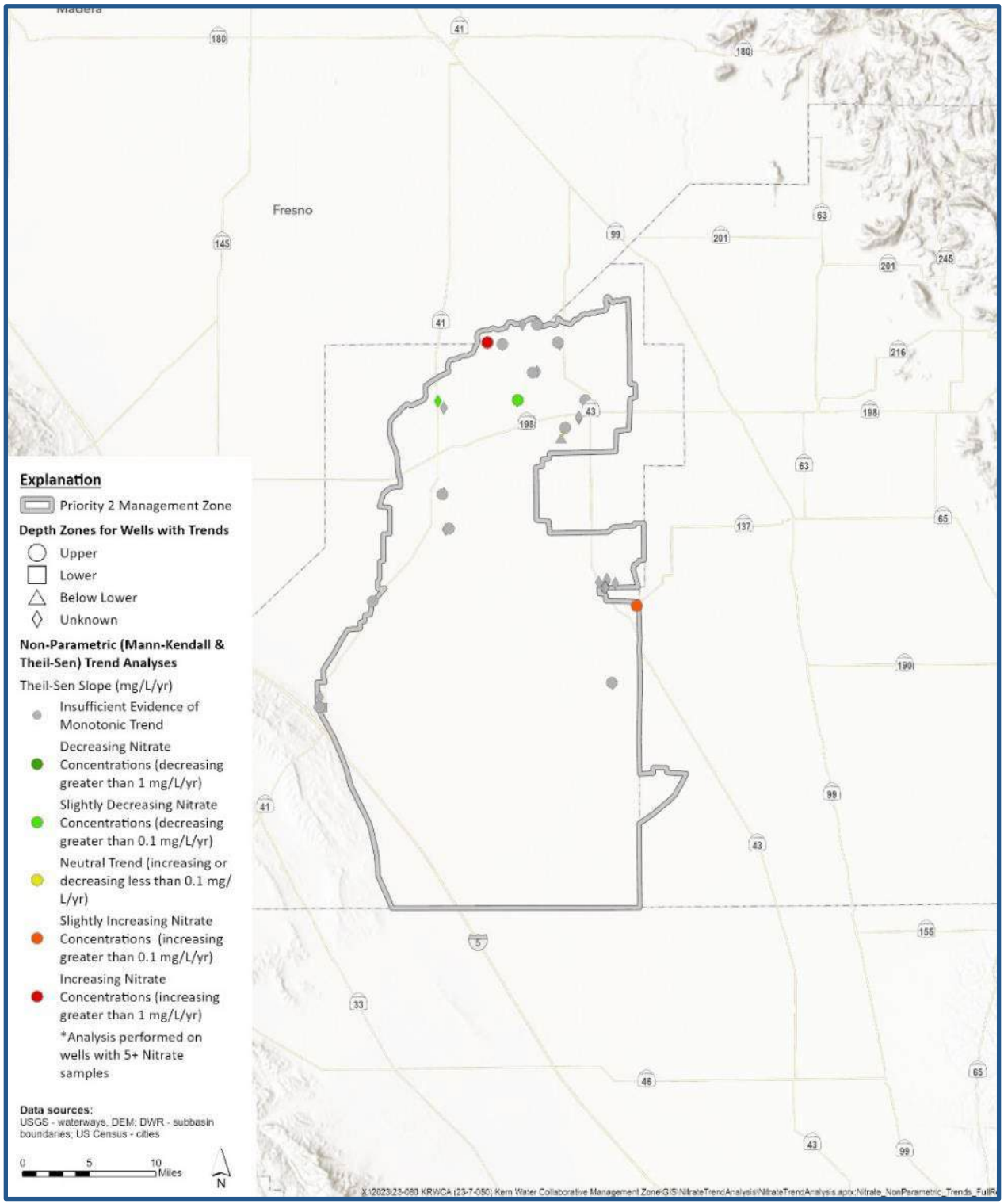


Figure 3-19b. Historical (Long-Term) Non-Parametric Trends in Nitrate

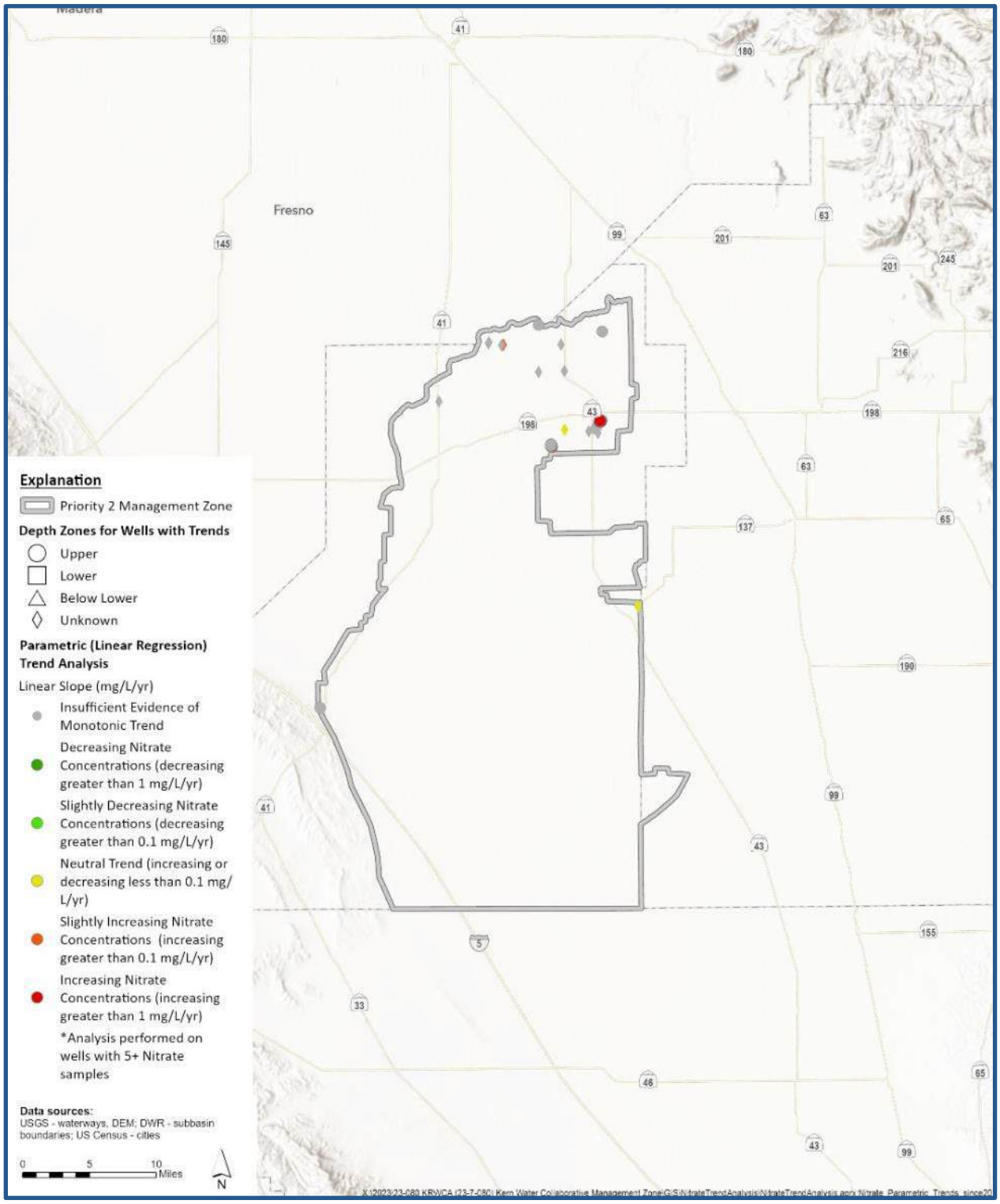


Figure 3-20a. Recent (Post-2010) Parametric Trends in Nitrate

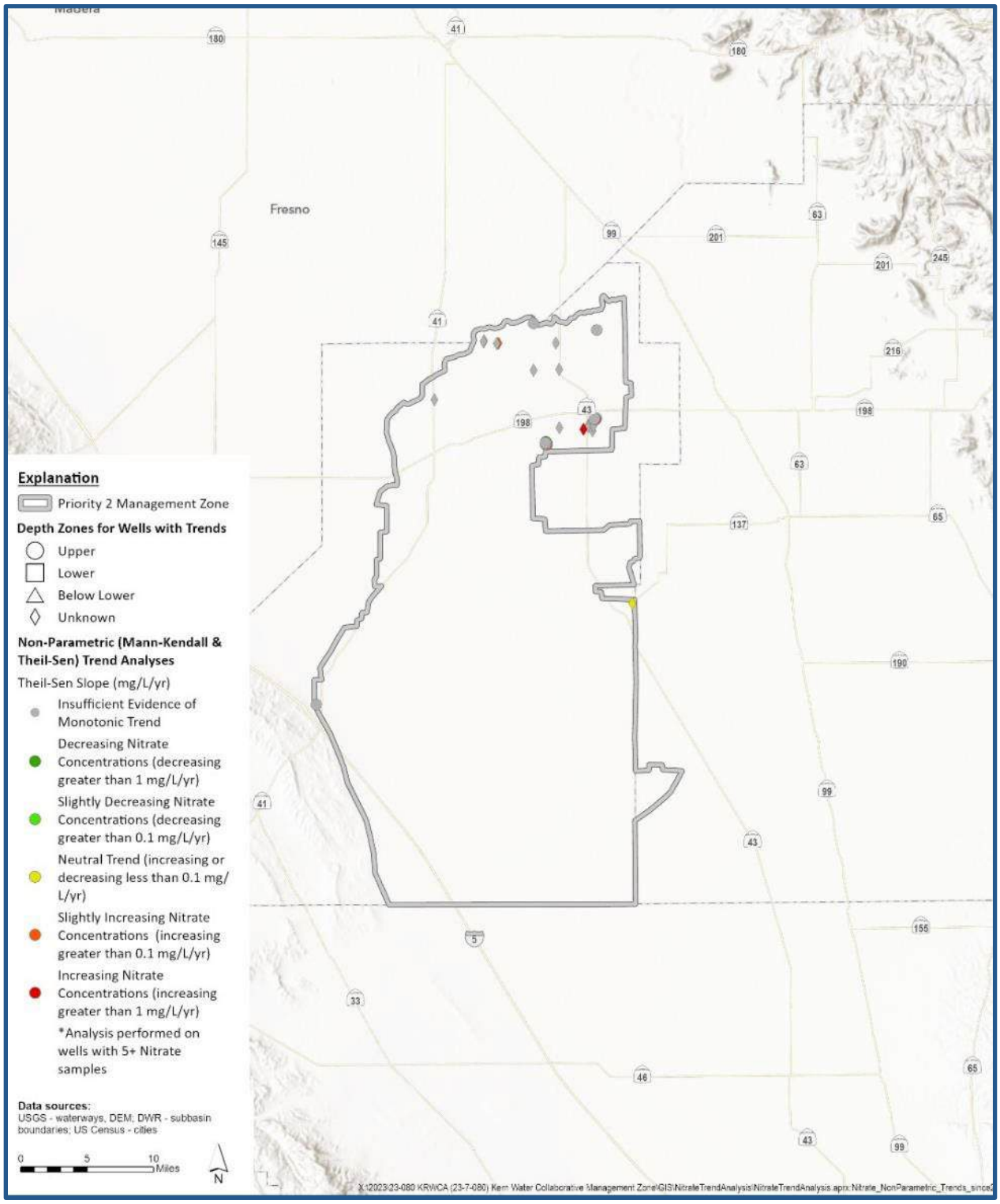


Figure 3-20b. Recent (Post-2010) Non-Parametric Trends in Nitrate

3.3. Addendum Management Zone Participants

Management Zone participants may include both permitted dischargers subject to the requirements of the Nitrate Control Program and non-dischargers working collaboratively with the permitted dischargers to support implementation of the Program in general and the EAP specifically. The following sections summarize the permitted dischargers and non-dischargers in the Management Zone located within the following subbasins: Tulare Lake, Kaweah, Westside, Pleasant Valley, Tule and Kern County.

3.3.1. Permitted Dischargers

Central Valley Water Board sent an NTC to permitted dischargers in the Priority 2 groundwater subbasin areas on December 29, 2023. To facilitate coordination with NTC letter recipients, the KWA requested and received the list of permitted dischargers that were sent the NTC via certified mail. The KWA then worked with the Central Valley Water Board staff to refine the list as needed. The following sections summarize the permitted dischargers in the Priority 2 Management Zone areas within the KWA by permit type and the status of their participation. There are dischargers located within areas of the Tulare Lake Subbasin where MUN and AGR beneficial uses have been de-designated. These facilities are not subject to the Nitrate Control Program and will not receive a NTC (based on communication with the CVWB staff). Accordingly, facilities located in de-designated areas are not included in this PMZP.

Irrigated Lands Regulatory Program

Growers are permitted to discharge under the ILRP, which works to prevent runoff from agricultural operations from impairing surface waters and groundwater. Implementation of the ILRP occurs through water quality coalitions. A coalition (sometimes referred to as a "third-party") collectively represent growers within its respective jurisdiction to assist them in their efforts to comply with ILRP requirements. The Kings River Water Quality Coalition ("Coalition") represents the growers in the proposed Management Zone including both Priority 1 and 2 areas. General Order R5-2013-0120-09 ("Waste Discharge Requirements General Order for Growers within the Tulare Lake Basin Area that are Members of the Third-Party Group") establishes the regulatory requirements applicable to growers within the Coalition. The NTC with the Nitrate Control Program was sent to the Coalition on December 29, 2023. On behalf of the growers enrolled under the General Order, the Coalition will comply with the Program as a participant in the KWA.

Concentrated Animal Feeding Operations

CAFOs are authorized to discharge under various General Orders based on the type of animal feeding operation. Participation in the KWA by the dischargers authorized to discharge under these General Orders is discussed in the sections below.

Milk Cow Dairies

Most milk cow dairies located in the KWA are regulated under General Order R5-2013-0122 ("Reissued Waste Discharge Requirements General Order for Existing Milk Cow Dairies"). The NTC with the Nitrate Control Program was sent to each permitted milk cow dairy within the Kaweah Subbasin on May 29, 2020, and in the Tulare Lake Subbasin on December 29, 2023. **Attachment B, Tables 2 and 4** list the milk cow dairies in the Kaweah and Tulare Lake Subbasins, respectively, that are members of the CVDRMP and, therefore, are participating in the KWA.

Confined Bovine Feeding Operations

Confined bovine feeding operations located within the KWA are regulated under General Order R5-2017-0058 ("Waste Discharge Requirements General Order for Confined Bovine Feeding Operations"). The NTC with the Nitrate Control Program was sent to the confined bovine feeding operations within the Kaweah Subbasin on May 29, 2020, and in the Tulare Lake Subbasin on December 29, 2023. **Attachment B, Tables 2 and 4** list the confined bovine feeding operations in the Kaweah and Tulare Lake Subbasins, respectively, that are members of the CVDRMP and, therefore, are participating in the KWA.

Poultry Operations

Poultry operations located within the KWA are regulated under General Order R5-2016-0087-01 ("Waste Discharge Requirements General Order for Poultry Operations") (Poultry General Order)."). There are no poultry facilities located within the Kaweah Subbasin. The NTC with the Nitrate Control Program was sent to poultry facilities in the Tulare Lake Subbasin on December 29, 2023. **Attachment B, Table 5** lists the poultry facilities within the Tulare Lake Subbasin that received an NTC. These permitted dischargers are collectively participating in the KWA and are being outreached to and coordinated with by representatives of the poultry industry, including the California Poultry Federation and Foster Poultry Farms. Under the Poultry General Order poultry operations are categorized as either Low Threat Operations or Full Coverage Operations. All poultry facilities in the KWA are Low Threat Operations.

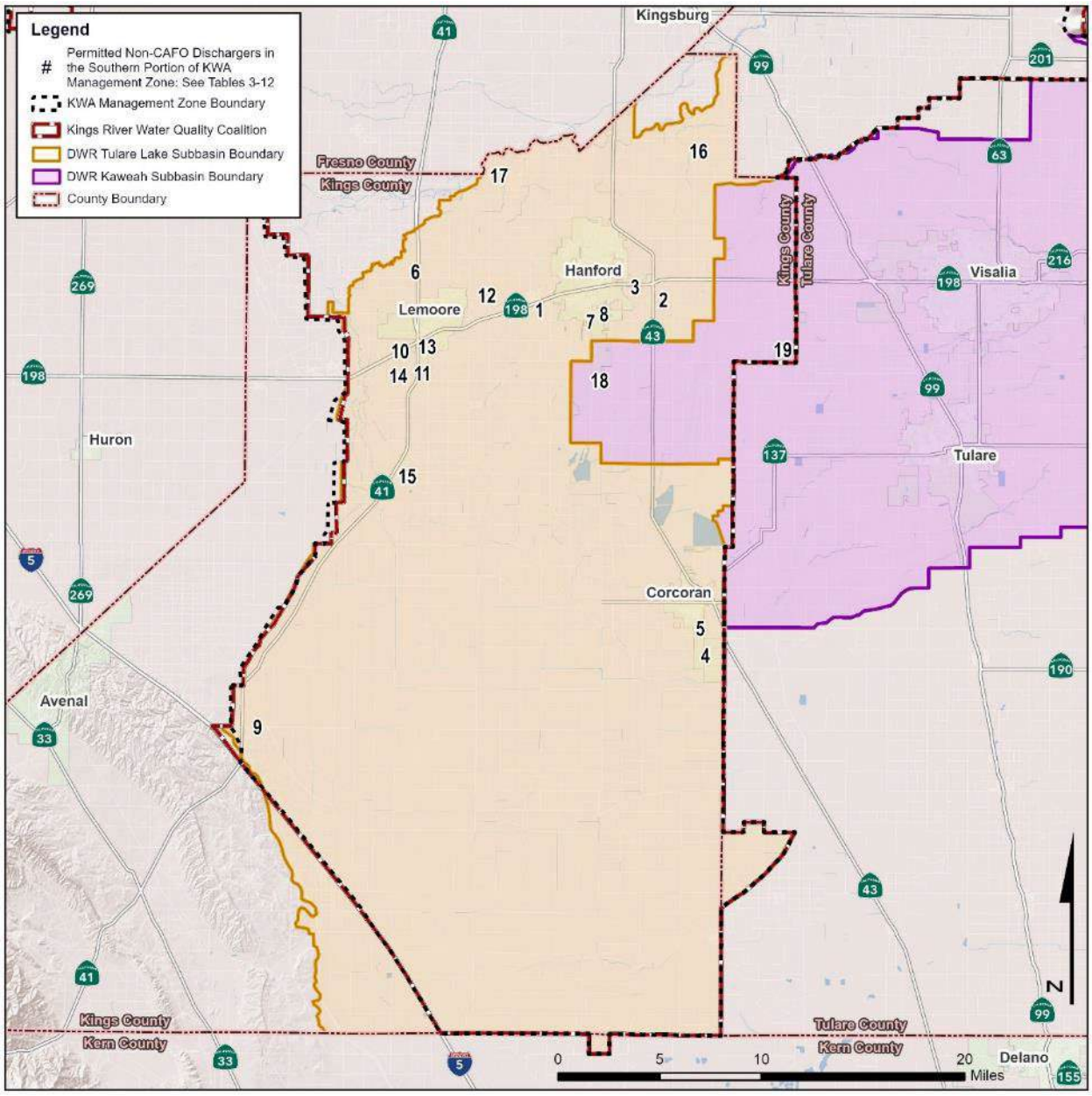
Individually Permitted Dischargers

Table 3-15 lists the permitted facilities authorized to discharge waste under individual WDRs within the Tulare Lake and Kaweah Subbasins. **Figure 3-21** illustrates the location of each of these permitted facilities within the Southern Portion (Tulare/Kaweah Subbasin Areas) of the KWA (map numbers in **Figure 3-21** correspond to the map numbers provided in the first column in **Table 3-15**).

Table 3-15. Individual Permitted Dischargers within the Southern Portion (Tulare Lake and Kaweah Subbasin) of the Kings Water Alliance Management Zone						
Map ID.	**Facility Name**	**Facility Type**	**Permittee/Facility Address**	**County**	**Order No.**	**CV-SALTS ID**
Tulare Lake Subbasin						
1	Armona CSD WWTF	Non15	13545 Hume Avenue, Hanford, CA, 93230	Kings	92-017	1784
2	Baker Commodities Hanford Facility	Non15	7480 Hanford Armona, Hanford, CA, 93230	Kings	R5-2005-0177	2111
3	Central Valley Meat Hanford Facility	Non15	10431 8 3/4 Ave, Hanford, CA, 93230	Kings	R5-2023-0028	2112
4	Corcoran State Prison WWTF	Non15	4001 King Avenue, Corcoran, CA, 93212	Kings	R5-2016-0027	1932
5	Corcoran WWTF	Non15	895 Pueblo Avenue, Corcoran, CA, 93212	Kings	R5-2021-0025	2658
6	El Dorado MHP WWTF	Non15	9630 Hwy 41, Lemoore, CA, 93245	Kings	96-028	1994
7	Hanford Master Reclamation Project	Non15	10555 Houston Avenue, Hanford, CA, 93230	Kings	00-223	1758
8	Hanford WWTF	Non15	10555 Houston Avenue, Hanford, CA, 93230	Kings	01-153	2667
9	Kettleman City WWTF	Non15	2000 Racine Avenue, Kettleman City, CA, 93239	Kings	79-143	2715
10	Lemoore NAS WWTF	Non15	Hwy 198, Lemoore, CA, 93245	Kings	R5-2002-0062	2210
11	Lemoore Recycled Water Project	Non15	1805 S. 19th Avenue, Lemoore, CA, 93245	Kings	2016-0068-DDW	3636
12	Morais Goat Dairy	CAFO - Dairy	16152 West Hanford Armona Road, Lemoore, CA, 93245	Kings	Pending	51

Table 3-15. Individual Permitted Dischargers within the Southern Portion (Tulare Lake and Kaweah Subbasin) of the Kings Water Alliance Management Zone						
Map ID.	**Facility Name**	**Facility Type**	**Permittee/Facility Address**	**County**	**Order No.**	**CV-SALTS ID**
13	OTP Lemoore Plant	Non15	1175 South 19th Avenue, Lemoore, CA, 93245	Kings	R5-2012-0120	2504
14	Sandridge Cattle Plant	Non15	19668 Jackson Avenue, Lemoore, CA, 93245	Kings	Pending	3613
15	Stratford WWTF	Non15	SE 1/4 of Section 17, T20S, R20E MDB&M, Stratford, CA, 93266	Kings	2014-0153-DWQ	2682
16	Summer Hill Goat Dairy	CAFO - Dairy	5784 6th Avenue, Hanford, CA, 93230	Kings	Pending	59
17	Warmerdam Packing Facility	Non15	15650 Excelsior, Hanford, CA, 93230	Kings	Pending	2609
Kaweah Subbasin						
18	Del Monte Foods, Inc., Hanford Plant #24	Non15	Del Monte Foods, Inc., Hanford Plant #24, 10652 Jackson, Hanford, CA 93230	Kings	R5-2014-0116	1951
19	Nichols Pistachio	Non15	Nichols Pistachio, 13762 First, Hanford, CA 93230	Kings	R5-2013-0007	2321

Note: Map ID refers to Figure 3-21



Note: See Table 3-15 to identify permitted dischargers

Figure 3-21. Location of Individually Permitted Dischargers in the Southern Portion (Tulare Lake and Kaweah Subbasin Areas) of the Kings Water Alliance Management Zone

KWA has conducted outreach to each individually permitted discharger in the Tulare Lake/Kaweah Subbasin areas to discuss the Nitrate Control Program requirements and the opportunity to participate in the KWA. Tables 1-6 and 1-7 identify the permitted dischargers in

the Kaweah subbasin areas (Priority 1) and Tulare Lake Subbasin areas (Priority 2), respectively that have opted to participate in the KWA.

3.3.2. Non-Discharger/Stakeholder Participation

Active participation by non-dischargers can facilitate the efforts of the KWA to achieve the goals of the Nitrate Control Program. This is especially critical to EAP development and implementation which requires the KWA to establish a process to coordinate with others to facilitate efforts to provide interim replacement water. In addition, participation by non-dischargers with roles or interests in land use planning, management of drinking water and wastewater and community engagement will benefit long-term efforts to manage nitrate in the KWA.

Since work began to establish the KWA, the KWA has sought to identify key non-dischargers to invite them to participate in the development of the Management Zone. Appendix A in the EAP (Attachment D of this document) lists all interested parties, including non-dischargers, currently receiving information about the KWA, including invitations to participate in stakeholder meetings. This list was developed through: (a) local area knowledge of project proponents; (b) direct request from entities to be added to the KWA's outreach list; (c) addition of entities recommended by participants; and (d) others identified as potentially interested parties through the KWA characterization process, e.g., county agencies, water districts or community service districts. All the interested parties will receive regular communication about KWA activities, including EAP implementation, and will be provided the opportunity to comment on KWA's deliverables. The KWA will continue to add entities to the interested party outreach list to increase opportunities for collaboration in meeting Nitrate Control Program goals.

3.4. Addendum Current Nitrate Treatment and Control Efforts or Management Practices

The Nitrate Control Program requires the PMZP to identify and summarize current nitrate treatment and control efforts or management practices being implemented by permitted dischargers participating in a Management Zone. Nitrate control practices for each General Order describe the minimum or baseline nitrate management requirements applicable to all permittees covered by their respective General Order. The requirements of each of these General Orders are applicable to permittees in the KWA. Dischargers permitted under individual WDRs typically have site-specific requirements for the management of nitrate or nitrogen-related constituents. The following subsections summarize existing nitrate treatment and control efforts or management practices being implemented by: (a) permittees under the ILRP and CAFO permit programs; and (b) Management Zone participants with an individual WDR.

3.4.1. Irrigated Lands Regulatory Program

General Order R5-2013-0120-09 establishes the current treatment and control efforts members of the Kings River Water Quality Coalition, the entity responsible for the implementation of the ILRP within the KWA. The ILRP groundwater program, which focuses on nitrate contamination, includes elements that address evaluation of current nitrate contamination, monitoring of groundwater quality, development and evaluation of management practices to reduce the leaching of nitrate to groundwater, metrics of grower performance that reflect their potential leaching of nitrogen to groundwater, performance goals, and measures used to evaluate grower progress in reducing leaching. Section 2.4.1 summarized the key reporting and monitoring elements associated with the protection of groundwater under the ILRP. These elements also apply to the Tulare Lake/Kaweah Subbasin areas within the KWA. To reduce repetition in this PMZP, please see Section 2.4.1 for further details about the ILRP's components.

3.4.2. Concentrated Animal Feeding Operation General Order

Dairy Program

Dairy General Order R5-2013-0122 establishes the current treatment and control efforts of member dairies. These activities are the same as already described in **Section 2.4.2.1**. Please see **Section 2.4.2.1** for more information about the Dairy Program.

Confined Bovine Feeding Operations

Bovine General Order R5-2017-058 establishes the current treatment and control efforts for Full Coverage Operations. These activities are the same as already described in **Section 2.4.2.2**. For more information on the Confined Bovine Feeding Operations, please refer to **Section 2.4.2.2**.

Poultry Farms

Poultry General Order R5-2016-0087-01 establishes the current treatment and control efforts for poultry operations in the Tulare Lake/Kaweah Subbasin areas of the KWA. These activities are the same as already described in **Section 2.4.2.3**.

3.4.3. Individual Permitted Dischargers

The following subsections summarize the current nitrate treatment and control efforts, or management practices being implemented by facilities that have already indicated they will be a KWA participant within the Priority 2 Tulare Lake and the Priority 1 Kaweah subbasin areas as required by their individual WDRs.

Armona Community Services District Wastewater Treatment Facility

Facility Description (CV-SALTS ID: 1784)

Armona Community Services District (Discharger) is authorized to discharge under WDR Order 92-017. This facility is in Section 4, Township 19S, Range 21E, Mount Diablo Base and Meridian (MDB&M). Beneficial uses applicable to the underlying groundwater include MUN, AGR, and IND.

The existing treatment plant consists of a Parshall flume, a comminutor, an Imhoff tank, an aeration pond, and three evaporation-percolation ponds in series. The Armona Community Services District Wastewater Treatment Facility (Facility) currently discharges about 0.27 million gallons per day (mgd), which is the hydraulic capacity of the existing Facility. The Discharger's Report of Waste Discharge included a geotechnical investigation and technical report proposing to expand the capacity of the existing Facility to 0.4 mgd. The expansion project includes abandonment of the existing headworks and Imhoff tank, and reconstruction of the existing evaporation/percolation ponds into one aeration and two stabilization ponds. The Discharger purchased 54 acres of farmland adjacent to the Facility for wastewater reclamation and storage. Roughly 20 acres of this land will be used for reclamation by surface irrigation of peach and plum trees and the remaining land will be used to construct two additional evaporation-percolation ponds.

Nitrate Management Requirements

Table 3-16 summarizes the nitrate management-related requirements in this facility's WDR.

Table 3-16. Summary of Key Armona CSD WWTF WDR Nitrate Management-Related Requirements

Category	Summary of Requirements
Discharge Prohibitions	• Prohibits the discharge of waste to surface waters and to surface water drainage courses.
Discharge Specifications	• Monthly average daily discharge flow from the Facility to the lagoons shall not exceed 0.4 mgd.
Groundwater Limitations	• Discharge, in combination with other sources, shall not cause underlying groundwater to contain waste constituents in concentrations statistically greater than receiving water limits or background water quality.
Monitoring & Reporting	• Groundwater monitoring – quarterly grab sample for nitrate.

Baker Commodities Hanford Facility

Facility Description (CV-SALTS ID: 2111)

The Baker Commodities, Inc., Hanford Skinning and Hide Curing Facility is authorized to discharge under WDR Order R5-2005-0177. This facility is located at 7480 Hanford Armona Road, Hanford, CA 93230. The facility is authorized to discharge waste to a designated land application area (LAA) within Detailed Analysis Unit (DAU) 238 in the Kings Basin hydrologic unit. Beneficial uses applicable to the underlying groundwater include MUN, AGR, IND and PRO.

Hide skinning wastewater is generated during the skinning and rinsing process, by washing down truck beds, facility floors, and equipment, and from the rinsing of carcasses and hides. Hide skinning wastewater is discharged to three lined lagoons. The water in these lagoons is pumped and blended with other water sources and delivered to irrigate crops in the LAA.

Nitrate Management Requirements

Table 3-17 summarizes the nitrate management-related requirements in this facility's WDR.

Table 3-17. Summary of Key Baker Commodities Hanford Facility WDR Nitrate Management-Related Requirements

Category	Summary of Requirements
Discharge Prohibitions	• Prohibits the discharge of waste to surface waters and to surface water drainage courses
Discharge Specifications	• Monthly average daily discharge flow from the facility to the lagoons shall not exceed 0.035 mgd. • The 124-acre LAA shall be double cropped and irrigated at the reasonable hydraulic rate that meets crop demand.
Groundwater Specifications	• No waste constituent shall be released through the composite liner of the three lined lagoons in a concentration or mass that will cause groundwater to be degraded more than approved by the Regional Board pursuant to Title 27, section 20400(b)
Management Plans	• Nutrient Management Plan that annually provides: Crop information, wastewater analysis, irrigation analysis, field information crop water needs, nutrient application and removal record per field, summary of nitrogen rations per filed and crop and a nutrient budget summary
Monitoring & Reporting	• Lagoon water blended with irrigation water representative of land-applied discharge which includes nitrate nitrogen, Total Kjeldahl Nitrogen (TKN), ammonia and total nitrogen • Groundwater monitoring which includes nitrate nitrogen • Supply water for the facility which includes nitrate nitrogen

Central Valley Meats Hanford Facility

Facility Description (CV-SALTS ID: 2112)

Central Valley Meat Company is authorized to discharge under WDR Order R5-2023-0028. This facility is located at 10431 8 3/4 Avenue in Hanford, CA. Beneficial uses of underlying groundwater are MUN, AGR, IND, PRO, REC-1, and WILD.

Hanford Beef Processing Facility (Facility) is a slaughterhouse and beef processing facility. Cattle are kept in holding pens to provide a continuous supply of animals for processing. Wastewater generated from various processes within the Facility include live cattle washing, kill floor, tripe processing, carcass washes, condensers, boning room, truck washes, plant sanitation, stormwater, and other processing activities. All wastewater is collected in drains and various sumps throughout the Facility and then to a central aerated collection sump (Central Sump). From the Central Sump the wastewater is treated and placed in one of two concrete-lined settling ponds. From the settling ponds wastewater is discharged to two double-lined wastewater storage ponds before being sent to the various LAAs for irrigation of crops via surface irrigation. Crops grown in the LAA are irrigated with a combination of wastewater, groundwater, and surface water from the Lakeside Irrigation District.

Nitrate Management Requirements

Table 3-18 summarizes the nitrate management-related requirements in this facility's WDR.

Table 3-18. Summary of Key Central Valley Meat Hanford Facility WDR Nitrate Management-Related Requirements

Category	Summary of Requirements
Discharge Prohibitions	• Waste constituents shall not be discharged or otherwise released from the Facility in a manner that results in violations of the Groundwater Limitations of this Order, or a condition of nuisance or pollution as defined per Water Code Section 13050. • Discharge of wastes other than the Facility's treated process wastewater at the locations and in the manner described in the Findings and authorized herein is prohibited. • Except as otherwise expressly authorized in this Order, waste shall not be discharged to surface waters or surface water drainage courses. • Waste shall not be discharged from the Facility in a manner other than as described in this Order. • Discharge of domestic wastewater to the process wastewater treatment system, lined ponds, and/or LAA fields is prohibited.
Flow Limitations	• Effluent discharged from the Facility to the LAAs shall not exceed a total annual discharge of 365 million gallons.

Table 3-18. Summary of Key Central Valley Meat Hanford Facility WDR Nitrate Management-Related Requirements	
Category	**Summary of Requirements**
Discharge Specifications	• Discharge shall remain within the permitted waste treatment/containment structures and LAAs at all times. • All systems and equipment shall be operated to optimize discharge quality.
Groundwater Limitations	• Release of waste constituents from any treatment or storage component associated with the discharge shall not cause or contribute to groundwater containing constituent concentrations in excess of natural background quality or nitrate (as N) of 10 mg/L, whichever is greater.
Land Application Area Specifications	• Crops shall be grown on the LAAs and be selected based on nutrient uptake, consumptive use of water, and irrigation requirements to maximize crop uptake. • Application of waste constituents shall be at reasonable agronomic rates to preclude creation of a nuisance or degradation of groundwater, considering the crop, soil, climate, and irrigation management system. The annual nutritive loading to the LAAs, including the nutritive value of organic and chemical fertilizers and of the wastewater, shall not exceed the annual crop demand. • Hydraulic loading of wastewater and irrigation water shall be at reasonable agronomic rates designed to minimize the percolation of wastewater and irrigation water below the root zone (i.e., deep percolation). • Wastewater shall be distributed uniformly on adequate acreage to preclude the creation of nuisance conditions.
Monitoring & Reporting	• Pond influent monitoring, including monthly 24-hr composite for nitrate (as NO_3-N), ammonia (as NH_3-N), TKN and total nitrogen. • Pond effluent monitoring, including monthly grab for nitrate (as NO_3-N), nitrite (as NO_2-N), TKN and total nitrogen. • Groundwater monitoring, including quarterly grab for nitrate (as NO_3-N), nitrite (as NO_2-N), TKN and total nitrogen. • LAA monitoring: (a) Wastewater and Supplemental Irrigation flow and hydraulic wastewater loading; (b) BOD loading rates; and (c) monthly nitrogen loading from wastewater, supplemental irrigation water, and fertilizer.

Morais Goat Dairy

Facility Description (CV-SALTS ID: 51)

Pending Waste Discharge Requirements (WDR) permit from the Central Valley Regional Water Quality Control Board. Facility description and Nitrate Management Requirements will be updated once the WDR permit is available.

Sandridge Cattle Plant

Facility Description (CV-SALTS ID: 3613)

Pending Waste Discharge Requirements (WDR) permit from the Central Valley Regional Water Quality Control Board. Facility description and Nitrate Management Requirements will be updated once the WDR permit is available.

Stratford Wastewater Treatment Facility

Facility Description (CV-SALTS ID: 2682)

Stratford Public Utility District (Discharger) is authorized to discharge wastewater under State Water Board General WDR for Small Domestic Wastewater Treatment Systems (Order No. 2014-0153-DWQ). Per the Notice of Applicability (NOA), this facility is assigned Order No. 2014-0153-DWQ-R5288. This facility is located at the southeast corner of Empire Street and 5th Avenue in Kings County. Beneficial uses applicable to the underlying groundwater include MUN, AGR, and IND.

The existing wastewater treatment facility (WWTF) consisted of three aeration tanks, one secondary clarifier, and 20 acres of evaporation/percolation ponds. Proposed upgrades to the WWTF includes a new headworks, four facultative ponds, two storage ponds, and five evaporation/percolation ponds. Based on data from 2015 through 2017, flows at the WWTF average about 60,000 gallons per day (gpd), and range from 10,000 gpd to 123,000 gpd.

Nitrate Management Requirements

Table 3-19 summarizes the nitrate management-related requirements in this facility's WDR.

Table 3-19. Summary of Key Stratford WWTF WDR Nitrate Management-Related Requirements

Category	Summary of Requirements
Discharge Prohibitions	• In accordance with Section B.1 of the General Order, wastewater discharged to the WWTF's headworks shall not exceed 100,000 gpd as a monthly average. • Direct or indirect discharge of any wastewater to surface waters or surface water drainage courses is prohibited. • Treatment, storage, and/or disposal of waste in or at the wastewater system shall not cause or contribute to a condition

Table 3-19. Summary of Key Stratford WWTF WDR Nitrate Management-Related Requirements	
Category	**Summary of Requirements**
	of pollution, contamination, or nuisance as defined in Water Code Section 13050. • Discharge of wastewater other than domestic wastewater is prohibited. • Bypass or overflow of treated or untreated waste is prohibited. • Discharge of waste to land not owned, operated, or controlled by the Discharger is prohibited.
Groundwater Limitations	• Discharge shall not: ○ Pollute groundwater or surface waters. ○ Adversely affect beneficial uses of groundwater or cause an exceedance of any applicable Basin Plan water quality objectives for groundwater or surface water
Effluent Limitations	• Discharge shall not exceed a total nitrogen concentration of 10 mg/L.
Monitoring & Reporting	• Influent monitoring – monthly grab sample for total nitrogen. • Effluent monitoring – monthly grab sample for total nitrogen. • Groundwater monitoring – semiannual grab sample for nitrate as N and total nitrogen.

Nichols Pistachio

Facility Description (CV-SALTS ID: 2321)

Nichols Pistachio is authorized to discharge under WDR Order R5-2013-0007. This facility is located at 13762 First, Hanford, CA 93230. The facility is authorized to discharge waste to a designated LAA within DAU 242 in the Kaweah Basin hydrologic unit. Beneficial uses applicable to the underlying groundwater include MUN, AGR, IND and PRO. Nichols Pistachio processes and packs pistachio nuts for export and sale. Pistachio processing season takes place over 30 to 40 days during the six to eight week period between late August and the middle of October when the pistachios are harvested.

During the pistachio harvest, the facility may operate 24 hours a day seven days a week. Pistachios brought in from the fields are cleaned and processed to remove the hulls. Wastewater generated from the cleaning and hulling process is screened to remove solids and discharged into four lined temporary retention basins. The four temporary retention basins are lined with a 36-mil scrim-reinforced polypropylene synthetic liner, and operated in series with a combined capacity of about two million gallons. The retention basins provide 12 to 24 hours of temporary storage in case of upsets. Wastewater is applied as irrigation water on about 675 acres of farmland. Wastewater is applied via flood, sprinkler or drip irrigation depending on

crop type. To remove fine solids and minimize clogging of the drip and irrigation lines the wastewater is pumped through a series of sand filters prior to entering the irrigation system.

Nitrate Management Requirements

Table 3-19 summarizes the nitrate management-related requirements in this facility's WDR.

Table 3-19. Summary of Key Nichols Pistachio Facility WDR Nitrate Management-Related Requirements

Category	Summary of Requirements
Discharge Prohibitions	• Discharge of waste, including storm water containing waste, to surface waters or surface water drainage courses is prohibited
Discharge and Solids Disposal Specifications	• The discharge shall not exceed a maximum daily flow of 5 million gallons or an average daily flow for the season of 2.4 mgd • No waste constituent shall be released, discharged, or placed where it will be released or discharged, in a concentration or in a mass that causes violation of Groundwater Limitations of this Order • Wastewater treatment, storage, and disposal shall not cause pollution or a nuisance as defined by Water Code section 13050 • Any handling and storage of residual solids on property of the Discharger shall be temporary, and controlled and contained in a manner that minimizes leachate formation and precludes infiltration of waste constituents into soils in a mass or concentration that will violate the groundwater limitations of this Order • Hulls and other solids shall be removed from sumps, screens, wastewater ponds, etc. as needed to ensure optimal operation and adequate hydraulic capacity. Solids drying operations, if any, shall be designed and operated to prevent leachate generation.
Land Application Area	• The cycle average BOD loading rate to the LAA shall not exceed 100 lbs/acre/day. • Crops shall be grown on the LAA. Crops shall be selected based on nutrient uptake, consumptive use of water, and irrigation requirements to maximize crop uptake. • Hydraulic loading of wastewater and irrigation water shall be at reasonable agronomic rates designed to minimize the percolation of wastewater and irrigation water below the root zone (i.e., deep percolation). • Application of waste constituents shall be at reasonable agronomic rates to preclude creation of a nuisance or degradation of groundwater, considering the crop, soil, climate, and irrigation management. The annual nutritive loading to the LAA, including the nutritive value of organic and chemical fertilizers and of the

Table 3-19. Summary of Key Nichols Pistachio Facility WDR Nitrate Management-Related Requirements	
Category	**Summary of Requirements**
	wastewater, shall not exceed the annual crop demand, except for potassium, which may be applied at rates exceeding crop demand, due to the fact that the crops grown in the LAA can take up more potassium than that which is required with no decrease in yield. • Any handling and storage of residual solids on property of the Discharger shall be temporary, and controlled and contained in a manner that minimizes leachate formation and precludes infiltration of waste constituents into soils in a mass or concentration that will violate the groundwater limitations of this Order
Groundwater Specifications	• Release of waste constituents from any treatment, reclamation, or storage component associated with the discharge shall not cause or contribute to groundwater containing constituent concentrations in excess of the concentrations specified below or background quality, whichever is greater: ○ Nitrate (as N) of 10 mg/L ○ For constituents identified in Title 22, the MCLs quantified therein
Management Plans	Nutrient and Wastewater Management Plan that includes at a minimum: (a) procedures for monitoring the LAA including daily records of wastewater applications and acreages; (b) action plan to deal with objectionable odors and/or nuisance conditions; (c) discussion on blending of wastewater and supplemental irrigation water; (d) supporting data and calculations for monthly and annual water and nutrient balances; and (e) management practices that will ensure wastewater, irrigation water, and commercial fertilizers are applied at agronomic rates, except for potassium. For potassium, the Plan must describe how potassium loading to the Reuse Area will not impact groundwater quality over the long term.
Monitoring & Reporting	• Effluent monitoring including nitrate (as N), TKN and total nitrogen • Soils monitoring that includes TKN and nitrate (as N) • LAA monitoring: (a) Wastewater flow and loading; supplemental Irrigation flow; total hydraulic loading; (b) BOD loading rates; (c) nitrogen loading from wastewater and fertilizer

4. EARLY ACTION PLAN ADDENDUM DEVELOPMENT

The Nitrate Control Program requires establishment of an EAP for the KWA. Per the regulations, the EAP is required to include the following (Central Valley Water Board, 2020):

- A process to identify affected residents and the outreach utilized to ensure that impacted groundwater users are informed of and given the opportunity to participate in the development of proposed solutions;
- A process for coordinating with others that are not dischargers to address drinking water issues, which must include consideration of coordinating with impacted communities, domestic well users and their representatives, the State Water Board's Division of Drinking Water, Local Planning Departments, Local County Health Officials, Sustainable Groundwater Management Agencies (SGMA) and others as appropriate;
- Specific actions and a schedule of implementation that is as short as practicable to address the immediate drinking water needs of those initially identified within the management zone, that are drinking groundwater that exceeds nitrate standards and that do not otherwise have interim replacement water that meets drinking water standards; and
- A funding mechanism for implementing the EAP, which may include seeking funding from Management Zone participants, and/or local, state and federal funds that are available for such purposes.

In general, the EAP identifies specific activities, and a schedule for implementing those activities, to ensure immediate access to safe drinking water for those who are dependent on groundwater from wells that exceed the nitrate drinking water standard. However, the establishment and implementation of the EAP to provide interim replacement water does not create a presumption of liability for the cause of the elevated nitrate concentrations in the groundwater. **Attachment D** to this PMZP provides the complete EAP Addendum for the KWA that is consistent with the above requirements. The sections below provide a high-level overview of the key elements associated with the development and content of the EAP Addendum.

4.1. Development Approach

The EAP Addendum was developed as part of the public outreach process implemented to develop the KWA. Because the KWA includes both Priority 1 and 2 areas that have different implementation schedules under the Nitrate Control Program, this Management Zone has phased implementation of the EAP:

- *Phase 1* - EAP implementation began on May 8, 2021 in the Priority 1 areas of the KWA that include all or part of the Kings, Kaweah, and Tule Subbasins and the very small adjacent Priority 2 areas in the Delta Mendota and Madera Subbasins. Phase

1's EAP has now been incorporated into KWA's Management Zone Implementation Plan (MZIP) where it will continue to guide community outreach efforts, provide free well testing to residents and, where needed, offer emergency and interim drinking water to residents while the KWA implements its long-term drinking water program (Kings Water Alliance 2023).

- *Phase 2* - EAP implementation will soon begin in the Priority 2 Tulare Lake Subbasin and very small adjacent Priority 2 areas in the Westside, Pleasant Valley, and Kern County Subbasins. This Phase will begin within 60 days of the EAP Addendum submittal, or by February 26, 2025, unless the Central Valley Water Board notifies the KWA that this EAP Addendum is incomplete.

The following sections describe how the groundwater data and community outreach activities were coordinated to develop this EAP Addendum.

4.1.1. Identification of Public Water Supplies and Domestic Wells Potentially Exceeding Nitrate Water Quality Objective

Nitrate-Impacted Areas

Section 2.2.4 and Section 3.2.4 above summarize sources of nitrate groundwater quality data available for the KWA (e.g., see **Table 2-9** and **Table 3-9**) and describe how these data were used to assess existing nitrate water quality conditions. The Upper Zone average nitrate concentration data for wells in the KWA were used to produce a geospatial analysis of estimated average ambient groundwater quality conditions across the Management Zone (**Figure 2-14** and **Figure 3-13**).

For the KWA Northern Portion (Kings Subbasin Area), groundwater quality data for wells completed in the Upper Zone were prevalent throughout the entire region, with slightly less well coverage in the west. **Figure 2-14** shows that several smaller local nitrate-impacted areas exist within the Upper Zone in the KWA (defined as having average recent nitrate concentrations exceeding the MCL of 10 mg/L nitrate as N). The largest nitrate-impacted area is in the southeast area of the Northern Portion (Kings Subbasin Area) of the KWA, as well as some smaller pockets throughout the remainder of the Management Zone.

For the KWA Southern Portion (Tulare Lake Subbasin and small part of Kaweah Subbasin), groundwater quality data for wells completed in the Upper Zone were mainly available in the northern region and along the eastern side of the area, with less well coverage in the south and west. **Figure 3-13** shows that several local nitrate-impacted areas exist within the Upper Zone in the Management Zone (defined as having average recent nitrate concentrations exceeding the MCL of 10 mg/L nitrate as N). There are small nitrate-impacted areas that occur within the Tulare Lake Subbasin portion of the KWA. The largest nitrate-impacted areas exist in the vicinity of Lemoore, south Hanford, and northwestern Remnoy.

The KWA recognizes that the map of ambient nitrate in the Upper Zone has inherent uncertainty and is adaptive in nature. As more Upper Zone nitrate data become available (through EAP implementation of well testing, or other monitoring programs associated with the Irrigated Lands Regulatory Program, Groundwater Sustainability Agencies, or other entities), the ambient nitrate analysis will be repeated, and the ambient map will be updated (and potentially changed) prior to the Final Management Zone Proposal submittal date.

Potentially Impacted Public Supply Wells

Section 2.1.5 and **Section 3.1.5** above describe how residential water systems are classified in California and summarize the types of water systems present within the KWA. The following sections further develop this information by evaluating, to the extent data are available, the nitrate water quality characteristics associated with public supply wells within these water systems. Where appropriate, information may be summarized here, and the reader will be directed to the EAP Addendum in **Attachment D** for more detailed information.

Public Supply Wells in the Management Zone

The State Water Board's Drinking Water Source and Water Systems identification documentation was accessed from DDW to understand how many systems have active versus inactive wells that have nitrate (as N) exceeding the MCL. This documentation provides a status code for each well, as well as a population served and number of connections for each water system. Wells with any measurement of raw untreated water having nitrate exceeding the MCL were extracted from the database to determine if the wells are considered to be actively providing water to the water system or have been abandoned, destroyed, or inactive.

Elevated nitrate concentrations have been found in many PWS wells in the KWA. The State Water Board's Drinking Water Source and Water Systems identification documentation was accessed via the internet[5] to provide water system information that complements water quality data from the DDW. Together, these two sources provide information on how many systems have active versus inactive wells that have nitrate (as N) exceeding the MCL. This documentation provides a status code for each well, as well as a population served and number of connections for each water system.

Wells with any measurement of raw untreated water having nitrate exceeding the MCL were extracted from the database to determine if the wells are considered to be actively providing water to the water system or have been abandoned, destroyed, or inactive.

For the P2 Tulare Lake area of the KWA Management Zone, an updated analysis of public water supply wells and public water systems is provided in the EAP Addendum Appendix D.

[5] https://sdwis.waterboards.ca.gov/PDWW/

Public Water System Delivered Water Treatment Status

There are a small number of active wells that have been tested for nitrate with results indicating nitrate concentrations exceeding the MCL of 10 mg/L nitrate as N, many PWS have treatment facilities to remove nitrate prior to the water being delivered to consumers. Using the best information readily available, it is possible to find DDW sources of water for PWS that are categorized as "treated". This includes the following potential DDW-defined well status categories:

- AT – Active Treated: An active source which is sampled after any treatment.
- CT – Combined Treated: Combined sources which are treated.
- DT – Distribution System Sample Point, Treated: Sample point within the distribution system after treatment.
- IT – Inactive Treated: A source which is not in service for periods of one year or greater and which provides treated water to a system.
- ST – Standby Treated: A source which is used less than 15 calendar days per year, with periods not to exceed five consecutive days and which provides raw water which is sampled after treatment.

Even when a water system has a documented treated source according to DDW, this does not ensure that the water system treats its water for nitrate (a treated source may mean chlorination prior to being distributed, or possible treatment for other contaminants such as organic chemicals). PWS' typically treat elevated nitrate by using blending, reverse osmosis (RO; membrane technology), ion exchange (IX), or biological or chemical nitrate removal via denitrification (less common).

For the P2 Tulare Lake area of the KWA Management Zone, an updated analysis of public water supply wells and public water systems is provided in the EAP Addendum Appendix D. Table E-4 in Appendix E of the EAP - Addendum (**Attachment D**) lists all of the PWS' in the KWA and lists the compliance status and whether or not the system is out of compliance due to being impacted by elevated nitrate conditions.

Potentially Impacted Domestic Wells

Figure 4-1 illustrates the locations of potentially impacted domestic wells and areas of elevated nitrate (7.5 mg/L to 10 mg/L nitrate as N, and > 10 mg/L nitrate as N) for the KWA FMZP submitted in 2022. These areas were used along with DWR spatial coverage of domestic well locations based on Well Completion Reports (WCRs) recorded by DWR[6]. In the Northern Portion

[6] Several domestic well locations provided by DWR's Well Completion Report database may not be exact locations, but rather plot in the center of a 1-square mile township/range-section area. Therefore, several domestic wells

(Kings Subbasin Area) of the KWAMZ, there are approximately 4,858 domestic wells within the PWS residential service areas. In the Southern Portion (Tulare Lake Subbasin and small part of Kaweah Subbasin) of the KWAMZ, there are approximately 216 domestic wells within the PWS residential service areas. It is unknown whether any of these wells are still being used even though they are potentially in a PWS area. The number of domestic wells outside of PWS service areas far outweighs those of unknown use status within PWS service areas. Smaller Public Water Systems do not have a mappable service area associated with them, simply a physical address and number of connections. The domestic wells that may be located within these smaller PWS that do not have a documented service area mapped boundary readily available to the public are conservatively counted in the domestic well count in the category of domestic wells outside known PWS boundaries.

To estimate the number of wells potentially impacted by elevated nitrate, domestic wells were placed into six groups:

- Group 1 - Groundwater in the Upper Zone with nitrate as N at or below 2.5 mg/L;
- Group 2 - Groundwater in the Upper Zone with nitrate as N above 2.5 mg/L and at or below 5.0 mg/L;
- Group 3 - Groundwater in the Upper Zone with nitrate as N above 5.0 mg/L and at or below 7.5 mg/L;
- Group 4 - Groundwater in the Upper Zone with nitrate as N above 7.5 mg/L and at or below the MCL of 10 mg/L;
- Group 5 - Nitrate as N exceeding the MCL of 10 mg/L in the Upper Zone; and
- Group 6 - Unknown category because the domestic well(s) are located where insufficient nitrate data exist in the Upper Zone to perform the spatial interpolation of ambient nitrate conditions.

The total number of domestic wells outside PWS boundaries was compared to the number of wells in each elevated nitrate category to provide an estimate of the percent of domestic wells potentially impacted by elevated nitrate in the groundwater in the 2022 FMZP (**Table 4-1**).

For the 2022 KWA FMZP, an estimation of the population of people relying on potentially impacted groundwater with elevated nitrate in their domestic wells was produced using 2010 census block data that were mapped and joined with the ambient Upper Zone ambient nitrate concentrations occurring outside of PWS boundaries. The population was summed for census blocks outside PWS boundaries and within the proposed Management Zone for those areas with nitrate concentrations in the Upper Zone (using the six categories of nitrate concentration described above). **Table 4-1** summarizes the results of this 2022 analysis.

may plot at the same location, and their locations are accurate up to one mile. Also the map of ambient nitrate is adaptable and subject to change as more Upper Zone nitrate data become available.

The same methodology was performed for the P2 Tulare Lake area of the KWA Management Zone. About 91 percent of the total number of domestic wells (1,164 out of 1,278 domestic wells) in the P2 Tulare Lake area of the KWA Management Zone are located outside of PWS boundaries. Approximately 144 domestic wells are located outside of PWS boundaries and in areas with estimated nitrate levels considered to be elevated (above three-quarters of the MCL, or above 7.5 mg/L as N). According to 2023 census data, a population of approximately 1,867 residents reside in areas outside PWS boundaries (and outside the de-designated boundary) and in areas with estimated nitrate levels above 7.5 mg/L as N.

For the P2 Tulare Lake area of the KWA Management Zone, an updated analysis of domestic wells and population potentially impacted by elevated nitrate is provided in the EAP Addendum Appendix D. Also, Table 4-1a and Figure 4-1a are provided in this PMZP Addendum section below using updated nitrate mapping and 2023 census data.

Table 4-1. Summary of Domestic Wells and Population with Estimated Upper Zone Nitrate Area Categories										
Estimated Upper Zone Ambient Nitrate (2000-2020)**	DWR Domestic Wells Located Outside PWS Boundaries						DWR Dom. Wells Within PWS Boundaries Total Domestic Wells in MZ Within PWS	2010 Census Block Analysis (outside PWS service areas)		
	Northern Portion (Kings Subbasin Area) of Domestic Wells Outside PWS Boundaries	% of Total Northern Portion Domestic Wells Outside PWS	Southern Portion of Domestic Wells Outside PWS Boundaries	% of Total Southern Portion Domestic Wells Outside PWS	Within De-Designation Boundary Areas	Total Domestic Wells in MZ Outside PWS		Northern Portion (Kings Subbasin Area) Population Outside PWS Boundaries	Southern Portion Population Outside PWS Boundaries	Total MZ Population Outside PWS Boundaries
Group 1: <=2.5 mg/L as N	1,685	13.7%	513	25.7%	3	**2,198**	*870*	12,257	21,633	**33,890**
Group 2: >2.5 – 5.0 mg/L as N	1,611	13.1%	219	11.0%	0	**1,830**	*1,203*	12,555	2,886	**15,441**
Group 3: >5.0 – 7.5 mg/L as N	1,748	14.2%	156	7.8%	0	**1,904**	*765*	11,873	764	**12,637**
Group 4: >7.5 – 10.0 mg/L as N	1,598	13.0%	88	4.4%	0	**1,686**	*736*	9,688	823	**10,511**
Group 5: >10.0 mg/L as N	5,491	44.7%	935	46.8%	3	**6,426**	*1,457*	38,416	9,238	**47,654**
Group 6: Unknown*	156	1.3%	85	4.3%	14	**241**	*43*	669	893	**1,562**
Total (Outside PWS Boundaries)	**12,289**	**100.0%**	**1,996**	**100.0%**	**20**	**14,285**	***5,074***	**85,458**	**36,236**	**121,695**

*Domestic wells or Census Blocks are located in a "Gap Area" where insufficient Upper Zone nitrate data exist to do a spatial interpolation of ambient nitrate conditions.

** Ambient nitrate levels are based on the best available groundwater nitrate data meticulously vetted at the time of analysis and is based on Upper Zone nitrate data from January 2000 to August 2020. These mapped nitrate levels are subject to change and are therefore adaptable, as new data become available.

Table 4-1a Addendum. Summary of Domestic Wells and Population with Estimated Upper Zone Nitrate Area Categories (Priority 2 Tulare Lake Subbasin KWAMZ)								
Estimated Upper Zone Ambient Nitrate (2010-2024)**	DWR Domestic Wells Located Outside PWS Boundaries		DWR Dom. Wells Within PWS Boundaries	DWR Total Domestic Wells in Management Zone	Domestic Wells in De-Designation Boundary		2023 Census Block Analysis (Outside PWS service areas)	
	Domestic Wells Outside PWS Boundaries	% of Total Domestic Wells Outside PWS	Total Domestic Wells in P2 Tulare Lake Subbasin portion of KWAMZ Within PWS Boundaries	All Domestic Wells in Management Zone	DWR Domestic Wells Outside of PWS Boundary and Within De-Designation Boundary	DWR Domestic Wells Within PWS Boundary and Within De-Designation Boundary	Population Outside PWS Boundaries	Population Outside PWS Boundaries and Within De-Designation Boundary
Group 1: <=2.5 mg/L as N	368	88.9%	46	414	4	0	10,511	14
Group 2: >2.5 – 5.0 mg/L as N	359	95.0%	19	378	0	0	3,449	0
Group 3: >5.0 – 7.5 mg/L as N	136	96.5%	5	141	0	0	1,179	0
Group 4: >7.5 – 10.0 mg/L as N	65	97.0%	2	67	0	0	804	0
Group 5: >10.0 mg/L as N	79	75.2%	26	105	0	0	1,063	0
Group 6: Unknown*	157	90.8%	16	173	74	1	3,121	750
Total	**1,164**	**91.1%**	**114**	**1,278**	**78**	**1**	**20,127**	**764**

*Domestic wells or Census Blocks are located in a "Gap Area" where insufficient Upper Zone nitrate data exist to do a spatial interpolation of ambient nitrate conditions.

**Ambient nitrate levels are based on best available groundwater nitrate data meticulously vetted at the time of analysis and are based on Upper Zone nitrate data from January 2010 to May 2024. These mapped nitrate levels are subject to change and are therefore adaptable, as new data become available.

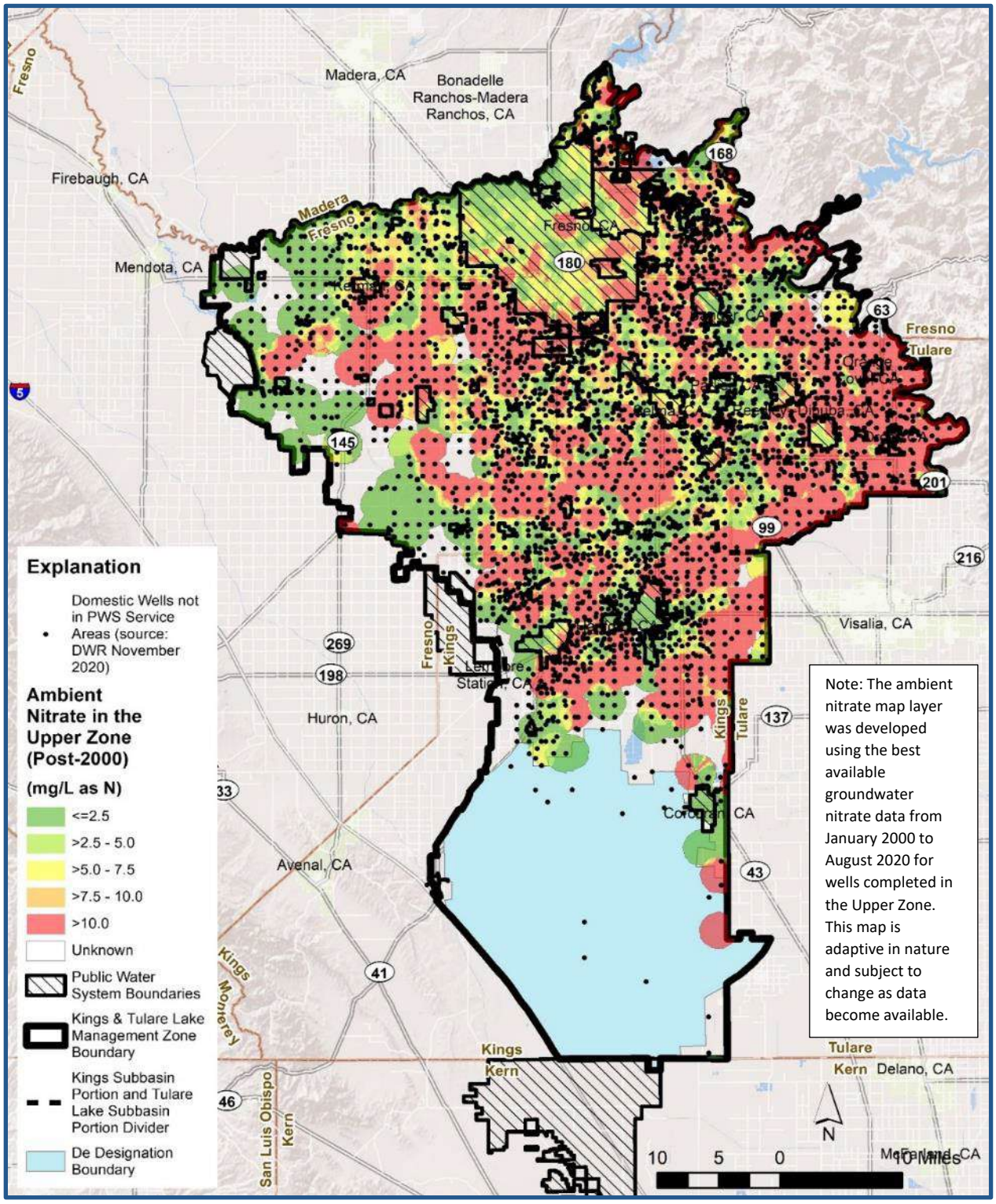


Figure 4-1. Domestic Wells Located Outside Public Water System Areas in the Kings Water Alliance Management Zone.

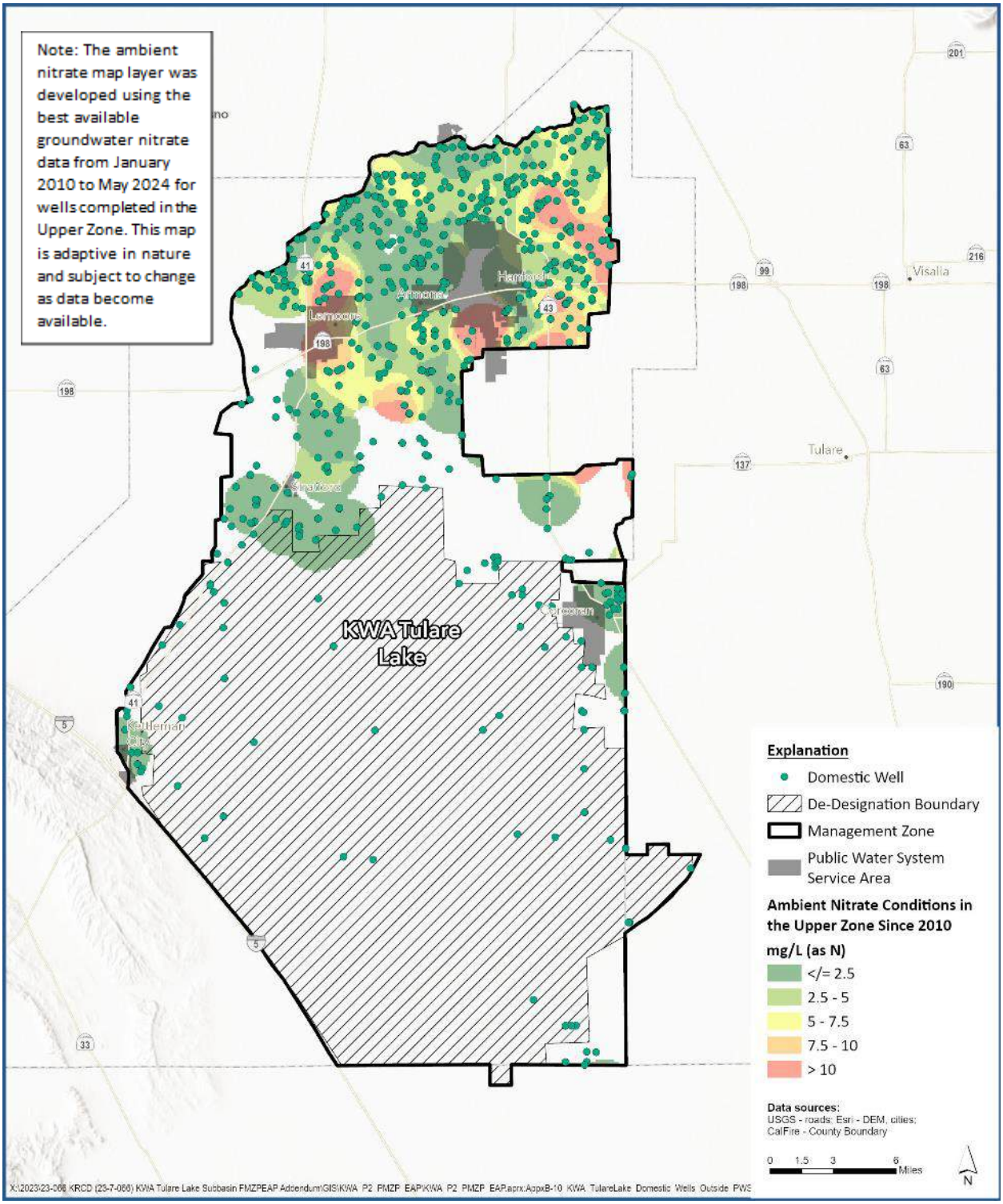


Figure 4-1a. Domestic Wells Located Outside Public Water System Areas in the P2 Tulare Lake Area of the Kings Water Alliance Management Zone.

4.2. Community Outreach

The KWA implemented a community outreach program to support development of the EAP. Section 1.4.4.2 above summarized the community outreach activities completed during the development of the EAP submitted with the PMZP for Phase 1 and the PMZP/EAP Addendum for Phase 2. Section 1.2 of the EAP Addendum and the associated attachments in the EAP appendices provided additional information regarding those outreach efforts.

4.3. Key Early Action Plan Elements

This section provides a summary of the key elements of the KWA's EAP, which is being implemented in two phases:

- *Phase 1* - EAP implementation began on May 8, 2021 in the Priority 1 areas of the KWA that include all or part of the Kings, Kaweah, and Tule Subbasins and the very small adjacent Priority 2 areas in the Delta Mendota and Madera Subbasins. Phase 1's EAP has now been incorporated into KWA's Management Zone Implementation Plan (MZIP) where it will continue to guide community outreach efforts, provide free well testing to residents and, where needed, offer emergency and interim drinking water to residents while the KWA implements its long-term drinking water program (Kings Water Alliance 2023).
- *Phase 2* - EAP implementation will soon begin in the Priority 2 Tulare Lake Subbasin and very small adjacent Priority 2 areas in the Westside, Pleasant Valley, and Kern County Subbasins. This Phase will begin within 60 days of the EAP Addendum submittal, or by February 26, 2025, unless the Central Valley Water Board notifies the KWA that this EAP Addendum is incomplete.

Attachment D should be consulted to review the details associated with the implementation of each of these elements:

- *Process to Identify Affected Residents* – EAP Addendum Section 3 describes the approach the KWA will implement to identify residents most likely to be relying on a domestic well with nitrate > 7.5 mg/L-N (e.g., see **Figure 2-14** above). This method, which will be implemented in both phases, is designed to obtain the addresses of residents in impacted areas so that the KWA can reach out directly to let them know of the availability of an interim replacement water program to address nitrate contamination concerns. Even though these residents are targeted for outreach based on the water quality findings described above, anyone in the Management Zone can request to have their well tested to be sure they are not drinking nitrate-contaminated water.
- *Community Outreach during EAP Implementation* – EAP Addendum Section 4 describes community outreach activities that are being implemented under the EAP. Outreach is

occurring through regular community meetings and other means of communication (website, flyers, email, etc.). Outreach initiated in Phase 1 will continue into Phase 2.

- *Interim Replacement Water Program* – The EAP Addendum includes options for obtaining safe drinking water that targets areas where the Upper Zone groundwater most likely has nitrate concentrations that exceed 10 mg/L-N. These options include:
  - *Bottled Water Delivery or Point-of-Use Treatment Systems* ("POU System") – The KWA has implemented bottled water delivery and POU System programs for residents that meet specific criteria under Phase 1 and this will continue into Phase 2. These criteria include: (a) residence is on a domestic well within the KWA; (b) resident is willing to establish the necessary agreements to establish requested replacement water services; and (c) the residence receives its drinking water from a source that has nitrate that exceeds 10 mg/L-N.
  - *Water Fill Stations* – The KWA currently has three operational fill stations located in Dinuba, Kerman and Hanford, CA. A water fill station is an independent water-dispensing facility connected directly to a PWS that meets safe drinking water standards and is constructed and operated as required by state and federal regulations. These fill stations would provide additional trusted sources of safe drinking water to the community at no cost.
- *Well Testing Program* – The KWA has implemented a well testing program to support the bottled water delivery and POU System replacement water programs under Phase 1 and this will continue into Phase 2. This program will test a resident's domestic well for nitrate at no cost to the resident to verify they meet program criteria for receiving replacement water at their residence. Residents may request to have their well tested for nitrate at any time by contacting the KWA.

4.4. Schedule of Implementation

EAP activities in the KWA have been implemented in two phases. Phase 1 EAP implementation began on May 8, 2021 in the Priority 1 areas within the Management Zone boundary: Kings Subbasin, Kaweah Subbasin and Tule Subbasin (**Figure 4-2**). The very small areas within the Priority 2 Madera and Delta-Mendota Subbasins within the Management Zone boundary are also included in Phase 1. The EAP for this phase has been incorporated into the Priority 1 MZIP where it will continue to guide efforts to outreach to the community, provide free well testing to residents and, where needed, offer emergency and interim drinking water until the KWA implements its long-term drinking water program that will work to assist residents and communities obtain permanent solutions to provide safe drinking water to residents in the KWA (Kings Water Alliance 2023).

Phase 2 implementation in the Priority 2 areas of the Management Zone begins within 60 days of submittal of this Addendum, or by February 26, 2025, unless the Central Valley Water Board

notifies the KWA that this EAP Addendum is incomplete. A summary of the activities that occurred during Phase 1 EAP implementation is included in Appendix A of the EAP Addendum. These types of activities will continue during Phase 2.

	Year/Quarter																
	2021				2022				2023				2024				2025
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Priority 1 Notice to Comply (NTC) - 5/29/20		↑					↑				↑						
	PMZP submitted 3/8/21; EAP implemented 5/8/21				FMZP submitted 8/29/22				MZIP submitted (9/5/23; to replace EAP in Priority 1 areas)				MZIP Implementation				
Priority 2 Areas												↑				↑	↑
	No Activity								Priority 2 NTC - 12/29/23				PMZP/EAP to be submitted 12/28/24				EAP Phase 2 Startup (2/26/25)

Figure 4-2. Phasing of EAP Implementation in Relation to Notices to Comply (NTC) in Priority 1 and 2 Subbasins

Task	Subtasks	2025 QTR 1	2025 QTR 2	2025 QTR 3	2025 QTR 4	2026 QTR 1	2026 QTR 2	2026 QTR 3	2026 QTR 4
General Community Outreach	General Community Outreach activities (website, flyers, other communications)								
	Conduct public community and stakeholder meetings					2026 schedule determined in 2025			
Phase 2 Targeted Residential Outreach	Establish mailing list of targeted residents in Phase 2 area								
	Mailout Replacement Water Program information								
	Conduct follow up outreach (as necessary)								
Phase 2 Replacement Water: Bottled Water & POU Treatment Systems	Expand vendor services to Phase 2 area								
	Process well-testing requests from Phase 2 residents								
	Residents follow-up to verify service being provided and conduct follow-up well testing								
Phase 2 Replacement Water: Fill Stations	In coordination with the community, identify planning locations of new water fill station(s) in the Phase 2 area	Schedule dependent on residents' input							
Monitoring and Reporting	Gather monitoring data from all program activities								
	Prepare EAP status reports								

Figure 4-2. Addendum. General Phase 2 EAP Implementation Schedule

4.5. EAP Implementation Metrics

At the request of the Central Valley Water Board's Executive Officer and in coordination with other Priority 1 Management Zone entities, the KWA established the following metrics to track progress in the implementation of the KWA Priority 1 EAP (KWA 2022):

Location, forum type and general attendance figures for all outreach efforts

Number of residences tested for nitrates

Number of residences tested for other contaminants

Number of households being provided bottled water

Number of operable fill stations/kiosks and usage information for each.

These metrics will continue to be implemented as part of KWA's Phase 1 MZIP Emergency & Interim Drinking Water Program and begin for KWA's Phase 2 EAP implementation. In general, the KWA along with other Management Zone entities provide the above information monthly to the Central Valley Salinity Coalition (CVSC). The CVSC then compiles the information into a report which is submitted to the CV-SALTS Executive Committee, which includes the Central Valley Water Board. The Central Valley Water Board's Executive Officer shares this information with the Central Valley Water Board in the Executive Officer reports, which are prepared and disseminated approximately six times per year. The information is summarized into a dashboard format and is also publicly available on the CVSC's website at: https://cvsalts.mljenv.com/.

The Management Zone entities report this information in numeric and graphic formats. Reported information includes illustration of periodic reporting for the non-outreach metrics (e.g., number of residences wells tested, people being served bottled water, and kiosk usage information). In addition to providing periodic reporting of the metrics described above, the Management Zone entities also report summary statistics of combined outreach activities. Outreach activities generally fall within the following fourteen outreach types split into two categories: people engagements and meetings and events.

- People Engagements include the following eight outreach types:
    - Mailers – This engagement includes the number of mailings and physical mail pieces Management Zones sent to homes.
    - Hand-delivered materials – This engagement includes the number of Management Zone materials dropped off at homes, such as door hangers, in mailboxes, etc., and does not include in-person contact.
    - Emails – This engagement includes the number of emails sent to deliver information on a Management Zone.

  - Flyers and packets – This engagement includes the number of printed Management Zone materials distributed through schools or other third-party distribution.
  - Newspaper articles – This engagement includes the estimated number of readers that would be exposed to Management Zone content, through paid or earned media promotions.
  - Radio and TV – This engagement includes the estimated number of listeners that may be exposed to Management Zone messages via radio mentions, TV coverage, through paid or earned media promotions.
  - Social media – This engagement includes the total number of people reached when exposed to Management Zone messages through social media.
  - Website visitors – Each Management Zone entity manages a website (KWA Priority 1 and Priority 2 Management Zones share the same website) that provides information regarding the program and allows for well testing applications to be submitted on-line. The Management Zone entities utilize on-line browser tools to track the number of website visitors, and receive and respond to applications submitted via the website.

- Meetings and events include the following six types:
  - Online meetings – This includes the number of attendees participating in Management Zone meetings via Zoom and other conferencing events.
  - In-person public meetings – This includes the number of attendees participating in Management Zone in-person meetings.
  - Briefings and reports – This includes the total audience that would attend Management Zone briefings/updates for officials, leaders, and organizations to describe and promote the Nitrate Control Program.
  - Door-to-door meetings – This includes the number of people Management Zone representatives have spoken with at households.
  - Open public events – This includes the number of contacts and conversations Management Zone representatives have with people at tabling public events at community-based events (e.g., County fairs, flea markets, farmers markets, food banks).
  - Phone conversations – This includes the number of individuals Management Zone representatives have conversations with.

4.6. Management Zone Governance & Funding

The Management Zone is governed by the KWA, a non-profit public benefit corporation that filed for non-profit status on November 17, 2020. The KWA is a 501(c)(3) corporation established to organize and operate the proposed Kings Water Alliance that will manage the proposed nitrate Management Zone encompassing the Kings and Tulare Lake Subbasins, a portion of the western part of the Kaweah Subbasin and very small portions of the Tule, Westside, Pleasant Valley and Kern County Subbasins.

The KWA was established for the following specific purpose: "To maintain and improve the quality of life in the central and southern San Joaquin Valley by implementing programs that provide access to safe drinking water for residents, and by engaging in groundwater nitrate reduction activities with the goal of protecting or enhancing the quality of groundwater drinking water supplies for residents." **Attachment E** provides the Articles of Incorporation and By-laws of the KWA. The following sections describe elements of the governance of the Management Zone.

4.6.1. Roles and Responsibilities

The following sections summarize the key roles and responsibilities associated with the governance of KWA.

Board of Directors (Article IV)

The Board of Directors currently has seven seats that can be expanded up to 11 as needed. The current expected Board members and seats they hold are as follows:

- Kings River Water Quality Coalition – Three representatives
- CVDRMP - Two representatives
- California Poultry Federation – One representative
- Wine Industry – One representative

The term of office of each director is three years and until a successor has been appointed and qualified. The Board of Directors have general corporate powers to exercise and manage the corporation's activities and affairs as described in the bylaws (see Attachment E). They also have specific powers related to proper implementation of the purposes of the corporation.

Officers (Article V)

Elected officers of the corporation shall be a Chair, Vice Chair, Secretary, and Treasurer and must be on the Board of Directors. Offices of the Secretary and Treasurer may be combined and held by one person at the discretion of the Board. Officers are elected annually by and from among the directors. They serve one-year terms with no limit on the number of terms.

The Chair presides at meetings of the Board and exercises and performs the power and duties assigned by the Board. The Vice Chair assists the Chair of the Board and performs the duties of the Chair in the absence or incapacity of the Chair. Secretary keeps a book of minutes of all meetings, proceedings, and actions of the Board and committees of the Board and provides notice of all meetings. If the Chair/Vice Chair are absent or unable to serve, the Secretary can perform all the duties of the Chair. The Treasurer maintains adequate and correct books, accounts of the corporation's properties and transactions, and financial statements and reports of the corporation.

Committees (Article VI)

Committees of the Board may be created by the Board of Directors by resolution. Each committee consists of two or more directors and no persons who are not directors. In addition, the Board may also establish Advisory Committees composed of any number of directors and/or other interested persons who are not directors. The role of the Advisory Committees is to provide advice and recommendations to the Board. Appointments to Advisory Committees are made by the Board or the Chair of the Board.

Management Zone Participants

Each Management Zone participant has signed an agreement with the KWA (**Attachment F**). Through this agreement, participants agree to comply with the Nitrate Control Program through contributing to and cooperating with KWA and other participants.

4.6.2. Funding Mechanism

Funding to implement the EAP and further develop Management Zone deliverables is currently provided by the participating dischargers based on a Kings Water Alliance Board-approved cost allocation. As part of its annual budgeting process, the Board will evaluate cost allocations among its participating dischargers.

4.6.3. Dispute Resolution Mechanism

Per the KWA Agreement, Management Zone participants agree to work cooperatively to develop and implement all Management Zone related documents and programs. If disputes arise among Management Zone participants, the members of the KWA Board will be informed and every effort will be made to gather appropriate information to support the Board's efforts to resolve the dispute. Once adequate understanding and background are available, the dispute will be brought before the Board at a properly noticed meeting to work with the participants to cooperatively resolve the dispute. The goal of the process will be to resolve the issue as quickly and informally as possible by gaining consensus among the parties to facilitate an agreement. If an agreement is not reached informally, additional meetings or other mechanisms may be employed by the Board, e.g., establishment of a committee as allowed by the bylaws, to resolve

the dispute. Ultimately, the KWA Board has the authority to make any final decisions regarding the dispute between management zone participants based on the available information. If the dispute between participants cannot be resolved in a reasonable manner, a participant is free at any time to withdraw from the Management Zone per the terms of the Agreement (see Attachment F).

4.7. Coordination with Other Programs

The following sections describes how the KWA intends to coordinate implementation of the Nitrate Control Program in the proposed Management Zones with other regulatory programs and dischargers.

4.7.1. SGMA and GSAs

It is anticipated that the Management Zone will continue to coordinate with GSAs during the development of the MZIP, particularly with the development of water budget components, future SGMA water management projects and actions within the subbasins, and future land use changes.

4.7.2. Path A Facilities

The Nitrate Control Program provided recipients of the NTC in the Priority 1 area of the KWA Management Zone the opportunity to select Path A compliance, i.e., comply with the Nitrate Control Program as an individual discharger. Within the Management Zone boundary, nine permitted dischargers have submitted a Notice of Intent (NOI) to the Central Valley Water Board to comply with the Nitrate Control Program under Path A. At the time of submittal of this FMZP, the Central Valley Water Board has not approved the NOIs submitted by these dischargers. Given the uncertainty of the status of these facilities under the Nitrate Control Program, the KWA Management Zone plans to coordinate with each of these permitted dischargers during MZIP development in the following manner:

- *Chateau Fresno Landfill Groundwater Clean-up Site (CV-SALTS ID: 1887)* – The NOI delineates an area around this facility that was used to evaluate potential impacts to drinking water sources (see Figure 6, red circle on pdf page 14 of 146, Pathway A Report, Nitrate Control Program Pathway A Report, April 16, 2021). While the NOI does not specifically define this area as the facility's area of contribution, for the purposes of this FMZP the KWA Management Zone will consider the encircled area as the preliminary boundary of the area that this Path A facility will be responsible for under the Nitrate Control Program. During MZIP development, the KWA Management Zone will work with this permitted discharger and Central Valley Water Board to establish a final boundary between this Path A facility and the Management Zone. Further, during MZIP development the Management Zone will be responsible for addressing any request for a well test outside

of this preliminary boundary; in contrast, the discharger will be responsible for well test requests within the preliminary boundary.

- *North Fresno Wastewater Reclamation Facility (WWRF) (CV-SALTS ID: 1931)* – The NOI describes the potential area of contribution relevant to this WWRF and the land application area, an adjacent golf course that is irrigated with tertiary treated wastewater (see Figure 1 in Nitrate Initial Assessment Report, April 2021). Per the NOI, a confining clay layer lies below the WWRF, and it is assumed that this same confining clay layer also underlies all of the irrigated land area. Given the information in the NOI, the KWA Management Zone considers the following as a preliminary boundary between the Management Zone and this permitted facility: Area bounded by Copper Avenue, Friant Road and Willow Avenue. The KWA Management Zone will be responsible for addressing any requests for a well test outside of this preliminary boundary (unless the requested well falls within an area the Management Zone considers under the responsibility of another Path A permitted discharger). In contrast, any residents requesting a well test within this preliminary boundary will be the responsibility of the North Fresno WWRF. The Management Zone will coordinate with the discharger and Central Valley Water Board during MZIP development to develop a final boundary between the Management Zone and the North Fresno WWRF (Note: Final boundary delineation may need to be coordinated with delineation of boundary for the City of Fresno Regional WWTF, CV-SALTS ID: 2665).

- *Fresno Cogeneration Project (CV-SALTS ID: 2039)* – The NOI does not delineate a specific area of contribution but does describe the underlying groundwater flow direction (e.g., see Figure 8 in the Nitrate Discharger Assessment Report, April 26, 2021). Given the information in the NOI and for the purposes of this FMZP, the proposed preliminary boundary between the Management Zone and this permitted facility is a circle with a 1 mile radius centered on the cogeneration facility. The Management Zone will coordinate with the discharger and Central Valley Water Board during MZIP development to develop a final boundary between the Management Zone and this facility. Until then, the Fresno Cogeneration Project will be responsible for addressing any well test requests for wells located within the preliminary boundary; the Management Zone will be responsible for well test requests outside the boundary.

- *Fresno Regional Wastewater Treatment Facility (WWTF) (CV-SALTS ID: 2665)* – The City of Fresno's NOI identifies an area of contribution that provides the basis for implementation of the Nitrate Control Program, including implementation of its conditionally approved Early Action Plan (e.g., see Figure ES-4, Nitrate Assessment Report, Executive Summary, May 2021). The KWA Management Zone continues to evaluate this assessed area of contribution as it relates to the City's Regional WWTF. However, the KWA Management Zone also believes that the City of Fresno's area of responsibility under the Nitrate Control Program should include any area within the jurisdictional boundary of the City. Areas outside the

City's jurisdictional boundary and its assessed area of contribution (i.e., as shown in Figure ES-4) are within the KWA Management Zone and, unless covered by another Path A facility, the Management Zone will be responsible for addressing any requests for a well test. In contrast, any residents requesting a well test for a well located within the City of Fresno's jurisdiction or within the area of contribution shown on Figure ES-4 of the City's NOI will be the responsibility of the City. During the development of the MZIP, the KWA Management Zone will continue to coordinate with the City of Fresno and Central Valley Water Board to formalize the boundary between the City and the KWA Management Zone. The process to formalize this boundary may need to consider: (a) coordination with efforts to formalize boundaries around other Path A facilities within the City of Fresno area (e.g., North Fresno WWRF, CV-SALTS ID: 1931 and Fresno Recycled Water Application Area, CV-SALTS ID: 3008); and (b) potential presence of Management Zone participants, e.g., milk cow dairies, within the City's delineated area of contribution.

- *Reedley Wastewater Treatment Facility (CV-SALTS ID: 2679)* – The NOI does not define an area of contribution for this permitted WWTF. However, given that the facility generally serves the City of Reedley, for the purposes of this FMZP, the KWA Management Zone considers the following areas to be subject to the NOI submitted by this permitted discharger: (a) all areas located within the City of Reedley's jurisdictional boundary; and (b) area around the Reedley WWTF bounded as follows: Kings River (East and South); Lac Jac Road (West) and Dinuba Avenue (North). The KWA Management Zone will be responsible for nitrate well testing of any wells that are outside of these areas; in contrast, any residents requesting a well test within these bounded areas will be the responsibility of the City of Reedley. During the development of the MZIP, the Management Zone will coordinate with the City and Central Valley Water Board to formalize the boundary between the City of Reedley and the Management Zone.

- *Caruthers Wastewater Treatment Facility (CV-SALTS ID: 2817)* – The NOI submitted by the Caruthers Community Services District (CSD) delineates a potential area of contribution around its currently active wastewater effluent disposal ponds (see Figure 2-2, Area of Potential Impact in the Nitrate Assessment Report, November 2020). The KWA Management Zone believes that the Caruthers CSD's area of responsibility under the Nitrate Control Program should not be limited to just the area of potential impact delineated around its wastewater treatment facility, but also include any area served by the CSD within the jurisdiction of the Community of Caruthers. For the purposes of this FMZP, these combined areas represent the Caruthers CSD Area of Responsibility. Areas outside of the Caruthers CSD Area of Responsibility are within the KWA Management Zone; accordingly, the Management Zone will be responsible for addressing requests for well tests in this area. In contrast, any residents requesting a well test within the Caruthers CSD Area of Responsibility will be the responsibility of the Caruthers CSD. During the development of the MZIP, the KWA Management Zone will coordinate with the Caruthers CSD and Central

Valley Water Board to formalize the boundary between the Management Zone and areas under the responsibility of the Caruthers CSD.

- *Fresno Recycled Water Application Area (CV-SALTS ID: 3008)* – The City of Fresno's Nitrate Initial Assessment Report prepared as part of its Path A NOI does not describe a specific area of contribution but does summarize the current areas receiving the application of recycled water (e.g., see Table 1, May 2021). The NOI also identifies a number of potential users of recycled water (see Figure 1, NOI, May 2021). For the purposes of this FMZP, the KWA Management Zone considers any current or potential land application areas (plus a surrounding 500-foot buffer) to be within the area of responsibility of the City of Fresno under the Nitrate Control Program. Areas outside of these land application areas with associated 500 foot buffer are within the KWA Management Zone; accordingly, the Management Zone will be responsible for addressing requests for a well test. In contrast, any residents requesting a well test for a well located within the 500 foot buffer around a land application area will be the responsibility of the City of Fresno. During the development of the KWA MZIP, the Management Zone will coordinate with the City of Fresno and Central Valley Water Board to formalize the boundary between this facility's land application areas and the Management Zone (Note: Final boundary delineation may need to be coordinated with delineation of the boundary for the City of Fresno Regional WWTF, CV-SALTS ID: 2665).

- *Clovis Wastewater Treatment Facility (CV-SALTS ID: 3201)* – The City of Clovis WWTF's treated effluent is either used for landscape irrigation within the WWTF's service area or discharged to Fancher Creek. The NOI submitted by the City of Clovis discusses the potential area of contribution only relative to the surface water discharge to Fancher Creek. The NOI does not explicitly delineate a spatially defined area of contribution; however, the NOI does evaluate potential impacts to shallow groundwater within an approximately two-mile wide section along Fancher Creek from the effluent discharge outfall to a point approximately six miles downstream (e.g., see Figure 7 in the Nitrate Initial Assessment Report, April 2021). The KWA Management Zone believes that the City of Clovis' area of responsibility under the Nitrate Control Program should include areas potentially impacted as shown in the NOI along Fancher Creek and any area within the jurisdiction of the City of Clovis (combined area = City of Clovis Area of Responsibility). Areas outside of the City of Clovis' Area of Responsibility are within the KWA Management Zone; accordingly, the Management Zone will be responsible for addressing well test requests in this area. In contrast, any residents requesting a well test within the City of Clovis' Area of Responsibility will be the responsibility of the City of Clovis. During the development of the KWA MZIP, the Management Zone will coordinate with the City of Clovis and Central Valley Water Board to formalize the boundary between the Management Zone and the City of Clovis' Area of Responsibility.

- *Cutler-Orosi Wastewater Treatment Facility (CV-SALTS ID: 3310)* – The NOI submitted by the Cutler-Orosi Joint Powers Wastewater Authority (Authority) delineates a general potential area of contribution that includes the permitted property and an area downgradient of the wastewater facility (e.g., Figures 1 and 3 of the NOI's Initial Assessment Report). The KWA Management Zone believes that the Authority's area of responsibility under the Nitrate Control Program should not be limited to just these areas but should also include the area serviced by the Cutler-Orosi WWTF. For the purpose of this FMZP, these combined areas, or Cutler-Orosi Area of Responsibility, include: (a) area serviced by the Cutler-Orosi WWTF; (b) area within the permitted property of the treatment facility (see Figure 1, Initial Assessment Report); and (c) downgradient area from the permitted property with the following boundary (generally based on Figure 3, Initial Assessment Report): Avenue 404 (north); Road 120 (east); Avenue 392 (south); Road 108 (west). Areas outside of the Cutler-Orosi Area of Responsibility are within the KWA Management Zone; accordingly, the Management Zone will be responsible for addressing any requests for a well test in this area. In contrast, any residents requesting a well test within the Cutler-Orosi Area of Responsibility will be the responsibility of the Authority. During the development of the MZIP, the KWA Management Zone will coordinate with the Authority and Central Valley Water Board to formalize the boundary between the Management Zone and area under the responsibility of this permitted discharger.

4.7.3. ILRP

Well testing regulatory requirements have been established for both the ILRP and permitted dischargers subject to the Nitrate Control Program. Given the overlap between these regulatory programs, the KWA Management Zone recognizes the importance of simplifying efforts by residents with the Management Zone to have their drinking water well tested. Accordingly, the KWA Management Zone will coordinate its Residential Well Testing Program with ILRP's Drinking Water Well Monitoring Program. If a resident applying for a well test under the EAP well testing program is located on an enrolled parcel under the ILRP, the Management Zone will work with the resident and the associated parcel owner within the ILRP Coalition to determine if the well has already been sampled to satisfy ILRP well testing requirements. If the well has been tested and the test result indicates that nitrate exceeds the 10 mg/L-N threshold, the Management Zone will work with the resident and parcel owner to ensure the resident receives replacement water. Similarly, if the well has not been tested for nitrate, consistent with the EAP procedures, the Management Zone will work with all parties to get the well sampled and address any needs for replacement water. Regardless of the situation, the Management Zone will coordinate with all parties so that the resident can receive replacement water if warranted. Also, while the Management Zone is ready to assist residents with having their well tested, any action by the Management Zone under the NCP is not a substitute for or satisfies domestic well testing requirements under the ILRP program.

4.7.4. Central Valley Dairy Representative Monitoring Program

The CVDRMP is working closely with selected dairy and confined bovine feeding operations within the Central Valley to implement a monitoring program to evaluate potential impacts of industry practices on first encountered groundwater. Domestic well testing is not part of the CVDRMP. However, the facilities permitted under the dairy/confined bovine feeding operation general orders and participants in the CVDRMP do test domestic wells and submit findings directly to the Central Valley Water Board. As a participant in the proposed Management Zones, the CVDRMP will encourage dairies and confined bovine feeding operations to share domestic well test results with the KWA to facilitate implementation of the KWA EAP in a more cost effective and efficient manner.

4.7.5. Others (as needed)

Any permittee that requests to join the KWA Management Zone after FMZP submittal, for whatever reason, must obtain approval from the KWA Staff and KWA Board chairperson. KWA staff will inform the permittee requesting Management Zone participation of the requirements to join, including for example the required level of financial support and necessary data submittals.

When a facility submits a ROWD to the Central Valley Water Board for a new or expanded discharge within the KWA Management Zone boundaries, the facility may elect to comply with the Nitrate Control Program through participation in the appropriate Management Zone. The KWA will work with the permittee and the Central Valley Water Board to support efforts by dischargers to join the Management Zone after FMZP submittal.

5. PREPARATION OF FINAL MANAGEMENT ZONE PROPOSAL ADDENDUM

The KWA Management Zone will work with the Central Valley Water Board during the review and acceptance of this PMZP Addendum. While that process is ongoing, the KWA Board will begin development of the FMZP Addendum for the Priority 2 Tulare Lake portion of the KWA Management Zone. The content of the FMZP Addendum will be consistent with the Nitrate Control Program regulations and outcome of ongoing discussions with Central Valley Water Board staff regarding interpretation of these regulations.

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7. ATTACHMENTS

Kings Water Alliance Preliminary Management Zone Proposal Addendum Attachments

Please refer to the original PMZP and FMZP documents for Attachments that did not require updating for this PMZP Addendum addressing the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone. The original PMZP and FMZP documents and attachments are available online: https://www.cvsalinity.org/resources/management-zone-development/

The Attachments that were updated for this Addendum are listed below:

Attachment B	Permitted Milk Cow Dairies, Confined Bovine Feeding Operations and Poultry Operations in the Management Zone
Attachment C	Outreach Records for Development of PMZP for P2 Tulare Lake & Public Draft Comments and Response Log
Attachment D	Early Action Plan Addendum [See Separate EAP Addendum Document File]
Attachment F	Kings Water Alliance Management Zone Participation Agreement

Attachment A

A-1. Groundwater Sustainability Agencies Within and Adjacent to the Proposed Kings Water Alliance Management Zone

This Attachment did not require updating for the Priority 2 PMZP for Tulare Lake. Please refer to the original PMZP and FMZP documents for this Attachment that is available online: https://www.cvsalinity.org/resources/management-zone-development/

A-2. Groundwater Sustainability Agencies Within and Adjacent to the Proposed Kings Water Alliance Management Zone

This Attachment did not require updating for the Priority 2 PMZP for Tulare Lake. Please refer to the original PMZP and FMZP documents for this Attachment that is available online: https://www.cvsalinity.org/resources/management-zone-development/

Attachment B

Permitted Milk Cow Dairies, Confined Bovine Feeding Operations and Poultry Operations in the Management Zone

Table 1. Non-Poultry Concentrated Animal Feeding Operations (CAFOs) in the Kings Water Alliance Management Zone (Priority 1 Area - Kings Subbasin) that are Management Zone Participants (primarily through CVDRMP Membership)

CV-SALTS ID	WDID No.	Facility	Address
General Order R5-2013-0122 – Milk Cow Dairies, CVDRMP Members			
1	5D165106N01	Thomas Dairy	20111 Excelsior Ave, Riverdale, CA 93656
13	5C10NC00072	Charles Vander Kooi Dairy	13696 West Elkhorn Avenue, Riverdale, CA 93656
100	5C10NC00119	A.T.O Dairy	19249 South Fruit Avenue, Riverdale, CA 93656
102	5C10NC00092	River Valley Dairy	22700 South Cornelia Avenue, Riverdale, CA 93656
103	5C10NC00137	Adams Dairy	16661 S. Fowler Avenue, Selma, CA 93662
116	5C10NC00066	AJ Slenders Dairy	625 East Coleman Avenue, Laton, CA 93242
120	5D105050N01	Antonio Ribeiro Dairy	430 West Mt Whitney Avenue, Riverdale, CA 93656
122	5C10NC00061	A & M Farms Dairy	10350 West Manning Avenue, Fresno, CA 93706
123	5C10NC00058	River Oaks Dairy	3621 East Mount Whitney Avenue, Laton, CA 93242
126	5C10NC00034	G & A Dairy	2200 South Marks Avenue, Fresno, CA 93706
129	5C10NC00043	Astiasuain Dairy	22654 East Jefferson Avenue, Reedley, CA 93654
146	5C10NC00094	Fontes Dairy Farms-Dairy 1	5512 West Davis Avenue, Riverdale, CA 93656
152	5D105042N01	Big De Cattle Dairy	2947 West Manning Avenue, Fresno, CA 93706
176	5C10NC00129	Maria C. Mendonca Living Trust	1253 West Lewiston Avenue, Riverdale, CA 93656
192	5C10NC00085	Coelho Farms Dairy	21655 South Cornelia Avenue, Riverdale, CA 93656
221	5C16NC00069	The Dairy, Inc.	6240 21st Avenue, Lemoore, CA 96245
226	5D105011001	Sozinho Dairy #2	8489 East Elkhorn Avenue, Selma, CA 93662
239	5D105029001	VIP Cattle	19436 South East Avenue, Laton, CA 93242
244	5D165103N01	Dover Dairy	4265 Dover Avenue, Hanford, CA 93230
246	5D165097N01	Droogh Dairy	23535 Grangeville Boulevard, Lemoore, CA 93245
263	5D545036003	Elkhorn Dairy	10400 Avenue 368, Visalia, CA 93291
265	5C10NC00123	Black Diamond Dairy	18789 South Fruit Avenue, Riverdale, CA 93656
299	5D105007001	Zonneveld Dairies Complex	1560 Cerini Avenue, Laton, CA 93242
300	5C10NC00126	Frea Dairy LLC	6205 South Brawley Avenue, Fresno, CA 93706
301	5D101039001	Fred Rau Dairy	10255 West Manning Avenue, Fresno, CA 93706
308	5C10NC00116	Fontes Dairy Farms-Dairy 2	20334 South Polk Avenue, Riverdale, CA 93656
309	5D105036N01	Frank S. Brown Co. Dairy	22045 South Valentine Avenue, Riverdale, CA 93656

Table 1. Non-Poultry Concentrated Animal Feeding Operations (CAFOs) in the Kings Water Alliance Management Zone (Priority 1 Area - Kings Subbasin) that are Management Zone Participants (primarily through CVDRMP Membership)

CV-SALTS ID	WDID No.	Facility	Address
311	5D165071N01	Eden-Vale Dairy	6944 21 1/2 Avenue, Lemoore, CA 93245
312	5C54NC00060	G-P Dairy	8676 Avenue 360, Visalia, CA 93291
316	5D105046N01	Joe R. Garcia Dairy	20677 East Street, Laton, CA 93242
328	5C10NC00140	Green Valley Dairy	2685 South Madera Avenue, Kerman, CA 93630
329	5D545130001	Griffioen Dairy LP	7901 Avenue 368, Dinuba, CA 93618
361	5C10NC00055	J & D Wilson & Sons Dairy	11720 W Mt Whitney, Riverdale, CA 93656
369	5C16NC00008	Double N Dairy II	18104 Everett Avenue, Laton, CA 93242
373	5C10NC00091	J & F Martins Dairy #2	541 East Wood Avenue, Laton, CA 93242
383	5C10NC00040	Generations Dairy	6043 South Madera Avenue, Kerman, CA 93630
396	5C10NC00088	Liquid Gold Dairy	15959 South Marks Avenue, Caruthers, CA 93609
417	5C10NC00096	Kerman Cattle Company	4301 South Dickenson Avenue, Fresno, CA 93706
419	5D105049N01	John De Groot & Son Dairy	6105 West Lincoln Avenue, Fresno, CA 93706
431	5C10NC00065	Jose Ribeiro & Son Dairy	3666 East Mt. Whitney Avenue, Laton, CA 93242
437	5C10NC00050	L & J Vanderham Dairy	10772 West Mt. Whitney Avenue, Riverdale, CA 93656
453	5C54NC00190	A.M. Dairy	8651 Avenue 388, Dinuba, CA 93618
501	5C10NC00112	Medeiros Dairy	608 East Riverdale Avenue, Laton, CA 93242
510	5D105026N01	Milky Way Dairy	10610 West Whitesbridge Avenue, Fresno, CA 93706
512	5C10NC00082	Monteiro Bros. Dairy #1	5336 West Harlan Avenue, Riverdale, CA 93656
513	5C10NC00079	Monteiro Bros. Dairy #2	4604 West Harlan Avenue, Riverdale, CA 93656
514	5C10NC00089	Morning Star Dairy	10032 West Elkhorn Avenue, Burrel, CA 93656
516	5C10NC00081	Mt. Whitney Dairy	2792 West Mt. Whitney Avenue, Riverdale, CA 93656
518	5C10NC00017	Maple Dairy	19860 Maple Street, Laton, CA 93242
523	5C10NC00114	El Dorado Ranches Dairy	23025 West American Avenue, San Joaquin, CA 93660
526	5D105038001	Raven Dairy	4109 East Conejo Avenue, Selma, CA 93662
527	5C54NC00056	L & L Dairy Farms	7435 Avenue 360, Kingsburg, CA 93631
539	5D165030001	Georgenson Dairy	8519 24th Avenue, Lemoore, CA 93245
546	5C10NC00122	Pacheco Dairy	1108 North Plumas Avenue, Kerman, CA 93630
578	5C16NC00070	Mendes & Toste Dairy	23568 Fargo Avenue, Lemoore, CA 93245
580	5C54NC00067	Red Rose Dairy	8950 Avenue 360, Visalia, CA 93291
594	5C54NC00138	Rocky Road Dairies #1	8715 Avenue 368, Dinuba, CA 93618
596	5C10NC00078	Mel-Tina Dairy	1748 West Mt. Whitney Avenue, Riverdale, CA 93656
598	5C10NC00109	Ruann Dairy	7285 West Davis Avenue, Riverdale, CA 93656
611	5C10NC00068	Kiss Cattle, LLC	2585 South Chateau Fresno Avenue, Fresno, CA 93706
621	5C10NC00048	Jessie P. Silva Dairy	3451 East Harlan Avenue, Laton, CA 93242
632	5C10NC00131	Souza's Dairy	8555 South Valentine Avenue, Fresno, CA 93706

Table 1. Non-Poultry Concentrated Animal Feeding Operations (CAFOs) in the Kings Water Alliance Management Zone (Priority 1 Area - Kings Subbasin) that are Management Zone Participants (primarily through CVDRMP Membership)

CV-SALTS ID	WDID No.	Facility	Address
637	5C10NC00117	Sweet Haven Dairy	10467 West Kamm Avenue, Riverdale, CA 93656
653	5C10NC00001	Excelsior Avenue Feedlot	20800 Excelsior Avenue, Riverdale, CA 93656
671	5C10NC00008	CSUF Dairy	5450 North Sierra Vista Avenue, Fresno, CA 93740
695	5C10NC00134	Verwey Dairy	12063 West Manning Avenue, Fresno, CA 93706
697	5C10NC00151	Open Sky Dairy	12103 West Elkhorn Avenue, Riverdale, CA 93656
698	5C10NC00120	Gerrit Visser & Sons Dairy	18565 South Marks Avenue, Riverdale, CA 93656
703	5C54NC00232	DJ Dairy	4390 Avenue 352, Traver, CA 93631
720	5D545052001	Tri BAK Dairy, LLC	9045 Avenue 368, Dinuba, CA 93618
721	5C54NC00069	Island Dairy Farms	37943 Road 144, Visalia, CA 93292
727	5C10NC00030	Shady Acres Dairy #2	15391 West Elkhorn Avenue, Helm, CA 93627
749	5B10NC00009	Sousa Dairy	7709 Avenue 376, Dinuba, CA 93618
761	5C10NC00060	Bar None/Van Der Hoek Dairy	15886 South Lassen Avenue, Helm, CA 93627
772	5D545103001	Rui and Jennifer Brasil Dairy	8061 Avenue 360, Visalia, CA 93291
773	5C54NC00295	Sunrise Dairy	8022 Avenue 368, Dinuba, CA 93618
General Order R5-2017-0058 – Confined Bovine Feeding Operations, CVDRMP Members			
1490	5D545078001	Traver Cattle Ranch	3212 Avenue 352, Traver, CA 93673
1513	5C10NC00098	Hillview Cattle & Farms	12250 West Lincoln Avenue, Fresno, CA 93706
1516	5C16NC00055	Dairy Goddess Farms	21154 Elgin Avenue, Lemoore, CA 93245
1518	5C16NC00064	John & Natalie Toste	21519 Elgin Avenue, Lemoore, CA 93245
1525	5C10NC00047	Standard Cattle Company Feedlot	8105 S. Lassen Avenue, Fresno, CA 94577
1530	5C10NC00093	Green Valley Feedlot	2160 West Elkhorn Avenue, Caruthers, CA 93609
1558	5C54NC00253	Olivas Ranch	4505 4th Avenue, Hanford, CA 93230
1701	5B10AP00004	Todd Ventura	4630 South Fig Avenue, Fresno, CA 93706
1706	5C10NC00257	Fontes Heifer Ranch	18109 South Fruit Avenue, Riverdale, CA 93656
1708	5C16NC00195	Contente & Co Ranch	5730 20th Avenue, Riverdale, CA 93656
1720	5C54NC00364	Gary Zysling Feedlot	7437 Avenue 376, Dinuba, CA 93618
Other WDRs – CDVRMP Members			
73	5C10NC00054	Lone Oak Farms Dairy # 2 (WDR R5-2008-001)	14523 Dinuba Avenue, Helm, CA 93627
74	5C10NC00062	Johann Dairy (R5-2008-0002)	11511 West Floral Avenue, Fresno, CA 93706
75	5C10NC00002	Maddox Dairy (R5-2008-0003)	12840 West Kamm Avenue, Riverdale, CA 93656
80	5C10NC00107	Bar 20 Dairy No. 2 & 3 (R5-2008-0066)	25500 West Whitesbridge Avenue, Kerman, CA 93630
Other Non-Poultry CAFOs (Path B Selected)			
20	5D165108N01	Little Dream Goat Dairy (No Order No. available)	3299 10th Avenue, Laton, CA 93242

Table 2. Non-Poultry CAFOs in the Kings Water Alliance Management Zone (Priority 1 Area – Kaweah Subbasin) that are Management Zone Participants through CVDRMP Membership

CV-SALTS ID	WDID	Facility	Address
General Order R5-2013-0122 – Milk Cow Dairies, CVDRMP Members			
46	5C16NC00110	Countryside Dairy	21094 4th Avenue, Corcoran, CA 93212
143	5D165093N01	Barreto & Silveira Dairy	11305 2nd Avenue, Hanford, CA 93230
150	5C16NC00101	Bernard Te Velde Dairy #1	1305 Iona Avenue, Hanford, CA 93230
156	5D165069001	Still Water Ranch LP	5001 4th Avenue, Hanford, CA 93230
177	5C16NC00039	C. Mattos & Sons Dairy	17800 4th Avenue, Hanford, CA 93230
178	5C16NC00028	Santa Anita Dairy	4356 Kansas Avenue, Hanford, CA 93230
203	5D165046N01	Poplar Lane Dairy	5387 Kent Avenue, Hanford, CA 93230
209	5D165101N01	Mattos Dairy #4	4555 Kansas Avenue, Hanford, CA 93230
217	5D165082002	Diamond D LLC Dairy	9423 Idaho Avenue, Hanford, CA 93230
231	5C16NC00023	Dias and Sons Dairy	7594 Kent Avenue, Hanford, CA 93230
249	5C16NC00050	Dutra & Dutra Dairy	7480 5th Avenue, Hanford, CA 93230
254	5D165094N01	Phoenix Dairy	10736 1 1/2 Avenue, Hanford, CA 93230
257	5C16NC00088	P&E #2 Dairy	13245 9th Avenue, Hanford, CA 93230
260	5D165091N01	Valadao Dairy	17293 9 1/2 Avenue, Hanford, CA 93230
277	5D165120001	Felicita Dairy	22154 Road 20, Tulare, CA 93274
278	5C16NC00089	Fernandes Dairy	16452 11th Avenue, Hanford, CA 93230
339	5D165092N01	Over The Moon Dairy	9455 Second Avenue, Hanford, CA 93230
345	5D165085001	Henry Veenendaal Dairy	3678 Houston Avenue, Hanford, CA 93230
354	5C16NC00067	Holland's Dairy	3533 Grangeville Boulevard, Hanford, CA 93230
374	5C16NC00082	Bill Idsinga Dairy	4595 Houston Avenue, Hanford, CA 93230
393	5C16NC00040	Joe B. Pacheco Dairy	16025 6 1/2 Avenue, Hanford, CA 93230
408	5D165063N01	Cactus Ranch	8800 Lansing Avenue, Hanford, CA 93230
420	5D165005001	Cowlifornia Dairy LLC	3742 Lacey Boulevard, Hanford, CA 93230
423	5C16NC00087	Jersey Creek Dairy	14857 5th Avenue, Hanford, CA 93230
450	5D165070001	Lone Oak Farms Dairy #1	13866 4th Avenue, Hanford, CA 93230
451	5C16NC00097	Jackson Dairy, LLC	8637 Jackson Avenue, Hanford, CA 93230
452	5C16NC00056	High Roller Dairy	14782 8th Avenue, Hanford, CA 93230
459	5C16NC00099	Valley View Dairy #2	15010 5th Avenue, Hanford, CA 93230
483	5D165068N01	M.F. Rosa Dairy	10090 2nd Avenue, Hanford, CA 93230
494	5D165078001	Robert Brazil Dairy	15035 8th Avenue, Hanford, CA 93230
495	5C16NC00021	Mattos Brothers Dairy	4017 Kansas Avenue, Hanford, CA 93230
587	5C16NC00020	River Ranch Dairy	6155 Jackson Avenue, Hanford, CA 93230
633	5C10NC00153	P & E Dairy	15336 10th Avenue, Hanford, CA 93230
657	5D165140N01	Anthony & Robert Brazil Dairy/Sunshine Dairy	13419 7th Avenue, Hanford, CA 93230
658	5D165098001	DeGroot Dairies-South	3101 Grangeville Boulevard, Hanford, CA 93230
674	5C16NC00006	De Groot Dairies-North	2446 Grangeville Boulevard, Hanford, CA 93230
680	5C16NC00019	Valley View Farms Dairy	15673 5 1/2 Avenue, Hanford, CA 93230

Table 2. Non-Poultry CAFOs in the Kings Water Alliance Management Zone (Priority 1 Area – Kaweah Subbasin) that are Management Zone Participants through CVDRMP Membership

CV-SALTS ID	WDID	Facility	Address
682	5C16NC00078	Antonio Parreira Dairy	3604 Houston Avenue, Hanford, CA 93230
692	5D165099N01	North Tri Palm Dairy	4119 Houston Avenue, Hanford, CA 93230
715	5C16NC00062	Willow Grove Farms Dairy	6267 5th Avenue, Hanford, CA 93230
733	5C16NC00117	Dixie Creek Ranch	3601 Lacey Boulevard, Hanford, CA 93230
736	5C16NC00123	Joaquim Mattos & Family Dairy	4790 Kansas Avenue, Hanford, CA 93230
General Order R5-2017-0058 – Confined Bovine Feeding Operations, CVDRMP Members			
1493	5D165067N01	Rancho Del Sol	13301 9th Avenue, Hanford, CA 93230
1496	5C16NC00061	Clark Feedlot	14541 10th Avenue, Hanford, CA 93230
1617	5C16NC00181	Outback Ranch	12202 1st Avenue, Hanford, CA 93230
Other WDRs – CDVRMP Members			
78	5D165080001	Hollandia Farms North Dairy	7905 Kansas Avenue, Hanford, CA 93230

Table 3. Poultry Operations in the Kings Water Alliance Management Zone (Priority 1 – Kings Subbasin) Permitted under the Poultry General Order (all facilities are categorized as Low Threat Operations)

CV-SALTS ID	WDID No.	Facility Name	Address
1237	5C10NC00206	CSUF Ag Foundation Poultry Facility	E Portals and N Woodrow, Fresno, CA 93710
1238	5C10NC00233	Southwest Ranch	6636 South West Avenue, Fresno, CA 93706
1239	5C10NC00242	Adams Ranch	2359 West Adams Avenue, Fresno, CA 93706
1241	5C10NC00247	American Ranch Complex	16999 West American Avenue, Helm, CA 93630
1243	5C10NC00243	Barret Ranch	12255 West Barret Avenue, Burrel, CA 93656
1244	5C10NC00230	Brawley Ranch	15250 South Brawley Avenue, Caruthers, CA 93609
1245	5C10NC00231	Bryan Ranch	8024 South Brayn Avenue, Raisin City, CA 93706
1246	5C10NC00220	Cerini Ranch Complex	19453 South Chateau Fresno Avenue, Riverdale, CA 93656
1247	5C10NC00238	Chateau Ranch Complex	8109 West Harlan Avenue, Riverdale, CA 93656
1248	5C10NC00232	Chestnut Ranch	18845 South Chestnut Avenue, Laton, CA 93242
1249	5C10NC00213	Davis Ranch Complex	8121 East Davis Avenue, Laton, CA 93662
1250	5C10NC00221	El Dorado Ranch Complex	1324 South El Dorado Avenue, San Joaquin, CA 93660
1251	5C10NC00239	Elkhorn Ranch Complex	6225 West Elkhorn Alley, Riverdale, CA 93656
1252	5C10NC00240	Floral Ranch Complex	15403 West Floral Avenue, Helm, CA 93660
1253	5C10NC00222	Garfield-Harlan Ranch Complex	19865 South Grantland Avenue, Riverdale, CA 93656
1254	5C10NC00223	Grantland Ranch Complex	22391 South Bryan Alley, Riverdale, CA 93656
1256	5C10NC00224	Huntsman Ranch Complex	20845 South Englehart Avenue, Reedley, CA 93654
1257	5C10NC00225	Jameson Ranch Complex	8265 South Jameson Avenue, Fresno, CA 93706
1259	5C10NC00244	Laguna Ranch	1580 West Laguna Avenue, Riverdale, CA 93656
1260	5C10NC00226	Madera Ranch	12720 South Madera Avenue, Kerman, CA 93630
1261	5C10NC00241	Magnolia Ranch Complex	2660 West Magnolia Alley, Caruthers, CA 93609
1262	5C10NC00253	Manning Ranch	17135 Manning Avenue, Kerman, CA 93630
1264	5C10NC00227	McMullin Grade Ranch	9471 South McMullin Grade, San Joaquin, CA 93660
1267	5C54NC00334	Seville Ranch Complex	14910 Avenue 376, Visalia, CA 93292
1268	5C10NC00228	Shasta Ranch	221 South Shasta Avenue, Kerman, CA 93630
1269	5C10NC00245	Shields Ranch	19945 West Shileds Avenue, Kerman, CA 93630
1270	5C10NC00248	Swanson Ranch Complex	3741 West Swamson Avenue, Caruthers, CA 93609
1271	5C10NC00229	Valentine Ranch	7260 South Valentine Avenue, Fresno, CA 93706
1272	5C10NC00246	Wood	545 West Wood Avenue, Riverdale, CA 93656
1273	5C10NC00207	Alta Ranch	22141 East South Avenue, Reedley, CA 93654
1276	5C10NC00214	Bickner Ranch	19010 South Marks Avenue, Riverdale, CA 93656
1277	5C10NC00249	Bishop Milleo Ranch	1472 Cove Avenue, Reedley, CA 93654

Table 3. Poultry Operations in the Kings Water Alliance Management Zone (Priority 1 – Kings Subbasin) Permitted under the Poultry General Order (all facilities are categorized as Low Threat Operations)

CV-SALTS ID	WDID No.	Facility Name	Address
1278	5C10NC00208	Bluefox Ranch	24018 East south Avenue, Reedley, CA 93654
1279	5C10NC00234	Boss Ranch	8010 West Manning, Fresno, CA 93706
1280	5C54NC00329	Bronze Ranch	16276 420 Avenue, Orosi, CA 93647
1281	5C10NC00209	Carter Ranch	6427 East Floral, Selma, CA 93662
1282	5C10NC00237	Central Lay Ranch	12591 West Central Avenue, Kerman, CA 93630
1284	5C10NC00212	Christenson Ranch	11055 East Clarkson, Kingsburg, CA 93631
1285	5C10NC00235	Deaver Ranch	1499 West Stroud, Caruthers, CA 93609
1286	5C10NC00236	Dino Ranch	17557 West Jensen, Kerman, CA 93630
1288	5C10NC00215	Elm Ranch	12680 South Elm Avenue, Fresno, CA 93706
1289	5C16NC00157	Enns Ranch	7477 Clinton, Kingsburg, CA 93631
1291	5C10NC00210	Friesen Ranch	21598 East Dinuba Avenue, Reedley, CA 93654
1294	5C10NC00216	Hayes Ranch	12229 South Hayes Avenue, Caruthers, CA 93609
1295	5C10NC00217	Hill Ranch	9760 South Hill Avenue, Orange Cove, CA 93646
1298	5C16NC00161	Lovelace Ranch	39090 80 Road, Dinuba, CA 93618
1301	5C10NC00218	Mason Ranch	2478 South Hills Valley Street, Orange Cove, CA 93646
1302	5C10NC00250	Moroni Ranch	45286 132 Road, Orange Cove, CA 93646
1306	5C54NC00335	Poppy Ranch	37611 108 Road, Dinuba, CA 93618
1309	5C10NC00219	Stagis Ranch	8505 South Marks, Fresno, CA 93706
1310	5C10NC00211	Sweetwater Creek Ranch	4517 East Simerly Avenue, Laton, CA 93242
1315	5C54NC00332	Traver Ranch	6045 Avenue 360, Kingsburg, CA 93631
1316	5C10NC00251	Twin Palms Ranch	20090 Central Avenue, Reedley, CA 93654
1317	5C10NC00252	Vail Ranch	4347 400 Avenue, Dinuba, CA 93618
1427	5C54NC00337	Sweeney Ranch	38599 Road 16 Road, Kingsburg, CA 93631
1428	5C10NC00255	Laton Ranch	20710 South Cedar Avenue, Laton, CA 93242
1440	5C54NC00339	Froese Ranch	22687 Floral Avenue, Dinuba, CA 93618
1443	5B10NC00079	WC & B Ranch	19010 South Brawley Avenue, Riverdale, CA 93656
1445	5B10NC00080	Potter Ranch	15956 South East Avenue, Caruthers, CA 93609
1447	5B10NC00088	Montesito	14195 South Hayes Avenue, Caruthers, CA 93609
1448	5B10NC00089	Norlake	18941 West North Avenue, Kerman, CA 93630
1449	5B10NC00081	Sunbird	5606 East Davis Avenue, Laton, CA 93242
1450	5B10NC00082	Placer 3 Ranch	5556 South Placer Avenue, San Joaquin, CA 93660
1451	5B10NC00083	Placer 2 Ranch	5548 South Placer Avenue, San Joaquin, CA 93660
1452	5B10NC00084	Kamm Ave. Ranch	590 West Kamm Avenue, Caruthers, CA 93609
1453	5B10NC00085	Placer 1 Ranch	20739 West American Avenue, Kerman, CA 93630

Table 3. Poultry Operations in the Kings Water Alliance Management Zone (Priority 1 – Kings Subbasin) Permitted under the Poultry General Order (all facilities are categorized as Low Threat Operations)

CV-SALTS ID	WDID No.	Facility Name	Address
1454	5B10NC00086	G & H Ranch	8351 McMullin Grade, Fresno, CA 93706
1455	5B10NC00087	Ave 145 Ranch	8479 South Madera Avenue, Kerman, CA 93630
1460	5C54NC00340	Christian Fagundes Farm Inc.	Avenue 344 and Road 36, Kingsburg, CA 93631
1461	5B10NC00091	Woods Farm - Camden	17588 South Camden Avenue, Caruthers, CA 93609
1462	5B10NC00090	Pitman Family Farms	19487 West Whitesbridge, Kerman, CA 93630
1466	5B10NC00095	Vang Poultry Farm	3272 North Leonard, Fresno, CA 93737

Table 4. Milk Cow Dairies and Confined Bovine Feeding Operations in the Proposed Kings Water Alliance Management Zone in the Priority 2 Tulare Lake Subbasin Area that are Management Zone Participants through CVDRMP Membership

CV-SALTS ID	WDID No.	Facility Name	Address
Enrolled Under General Order R5-2013-0122 – Milk Cow Dairies			
101	5D165075N01	Daniel Brazil Dairy	18280 Fairfax Avenue, Lemoore, CA 93245
112	5C16NC00046	Alvaro Machado Dairy	5230 9th Avenue, Hanford, CA 93230
131	5C16NC00076	Sozinho Jerseys	5811 Lacey Boulevard, Hanford, CA 93230
172	5C16NC00071	Mello D Jerseys	14803 Grangeville Boulevard, Hanford, CA 93230
175	5C16NC00102	Borba Brothers Dairy	13243 Houston Avenue, Hanford, CA 93230
205	5C16NC00015	Contente & Company Dairy	7900 15th Avenue, Hanford, CA 93230
207	5C16NC00047	Silva & Sons #2 (Dairy)	6700 Excelsior Avenue, Hanford, CA 93230
232	5D16515N01	Bar E Dairy	6740 Corona Avenue, Kingsburg, CA 93631
243	5D165109001	Double N Dairy	12700 Everett Avenue, Hanford, CA 93230
250	5C16NC00081	Golden Star Dairy LLC #2	6398 16th Avenue, Hanford, CA 93230
281	5C16NC00025	Flatland Farms, LLC	8483 15th Avenue, Hanford, CA 93230
291	5C16NC00094	Four Star Dairy	18886 4th Avenue, Hanford, CA 93230
293	5D16517N01	15th Avenue Feedlot	10522 15th Avenue, Hanford, CA 93230
297	5C16NC00042	Vitor Borba Dairy	7721 Flint Avenue, Hanford, CA 93230
307	5D545098001	Flint Dairy	6511 Flint Avenue, Hanford, CA 93230
314	5D165079001	Midnight Farms	9240 19 1/2 Avenue, Lemoore, CA 93245

Table 4. Milk Cow Dairies and Confined Bovine Feeding Operations in the Proposed Kings Water Alliance Management Zone in the Priority 2 Tulare Lake Subbasin Area that are Management Zone Participants through CVDRMP Membership

CV-SALTS ID	WDID No.	Facility Name	Address
317	5C16NC00030	Antonio Garcia Dairy	6571 Fargo Avenue, Hanford, CA 93274
322	5A57NC00052	F&D Giacomazzi Farms	9624 6th Avenue, Hanford, CA 93230
371	5C16NC00075	Jaques & Silva Dairy	10256 6th Avenue, Hanford, CA 93230
372	5C16NC00012	JD Mello Dairy	15609 Grangeville Boulevard, Hanford, CA 93230
381	5C16NC00051	Silva & Son Dairy	8331 Excelsior Avenue, Hanford, CA 93230
410	5D16509002	Parreira Dairy	18081 17th Avenue, Stratford, CA 93266
412	5C16NC00043	Joe V Pimentel Dairy	4625 6th Avenue, Hanford, CA 93230
413	5D165083N01	Sozinho Dairy #1 and #3	11447 8 1/2 Avenue, Hanford, CA 93230
449	5C16NC00026	Log Haven Dairy	7755 Fargo Avenue, Hanford, CA 93230
456	5C16NC00086	Lu - AR Dairy	6121 15th Avenue, Hanford, CA 93230
477	5C16NC00045	Wilgenburg West, LLC	7442 7th Avenue, Hanford, CA 93230
582	5D165053N01	Richard Simas Dairy	17571 Flint Avenue, Hanford, CA 93230
590	5C16NC00049	Vitor Borba Heifers	7410 7th Avenue, Hanford, CA 93230
628	5D165096N01	Hakker Dairy	12499 Idaho Avenue, Hanford, CA 93230
670	5D165056001	Vaca Linda Dairy	14235 Kent Avenue, Hanford, CA 93230
675	5C16NC00016	Tony Cox Family Dairy #3	15410 Excelsior Avenue, Hanford, CA 93230
678	5D165055N01	C&R Dairy	18321 Idaho Avenue, Lemoore, CA 93245
705	5C16NC00033	West Creek Dairy	8409 5th Avenue, Hanford, CA 93230
717	5C16NC00001	White River Dairy	20784 Laurel Avenue, Stratford, CA 93266
726	5C16NC00111	Manuel & Alda Lawrence Dairy	12871 Kent Avenue, Hanford, CA 93230
728	5C16NC00119	Cunha Dairy #1	6680 16th Avenue, Hanford, CA 93230
730	5C16NC00124	Neves Dairy	16831 Jackson Avenue, Lemoore, CA 93245
731	5C16NC00118	ED Paulo & Sons Dairy	8730 Iona Avenue, Hanford, CA 93230
738	5C16NC00116	Sozinho Dairy #5	7205 Houston Avenue, Hanford, CA 93230
Enrolled Under General Order R5-2017-0058 – Confined Bovine Feeding Operations			

Table 4. Milk Cow Dairies and Confined Bovine Feeding Operations in the Proposed Kings Water Alliance Management Zone in the Priority 2 Tulare Lake Subbasin Area that are Management Zone Participants through CVDRMP Membership

CV-SALTS ID	WDID No.	Facility Name	Address
179	5C16NC00203	Hanford Armona Feedlot	10482 14 1/2 Avenue, Lemoore, CA 93245
1489	5C16NC00199	Headquarters Ranch	9495 17th Avenue, Lemoore, CA 93245
1517	5C16NC00072	Sunshine Dairy Heifers	12700 7th Avenue, Hanford, CA 93230
1527	5C16NC00010	Sam Habib Cattle Co	5590 East Excelsior Avenue, Hanford, CA 93230
1531	5D165110N01	Manuel B Toste	6431 Hanford-Armona Road, Hanford, CA 93230
1537	5D165088N01	Pacific Coast Calf Ranch	18644 16th Avenue, Stratford, CA 93266
1538	5C54AP00003	King Avenue Feedlot	18741 19th Avenue, Stratford, CA 93266
1543	5C16NC00058	Joe Soares	11560 8th Avenue, Hanford, CA 93230
1556	5D165073001	MF Cattle Co	11336 7th Avenue, Hanford, CA 93230
1595	5C16NC00194	JL Fragoso Cattle Company	7871 Houston Avenue, Hanford, CA 93230
1604	5C16NC00184	Van Dyk Cattle Co.	3275 8th Avenue, Hanford, CA 93230
1613	5C16NC00177	Grimmius Cattle Company	5715 Kansas Avenue, Hanford, CA 93230
1614	5C16NC00175	Bar E Heifer Ranch	6058 Flint Avenue, Hanford, CA 93230
1632	5C16NC00178	Jason & Julie Starr	18039 Lakeview Avenue, Stratford, CA 93266
1633	5C16AP00002	3H Cattle Co	19690 6th Avenue, Hanford, CA 93230
1634	5C16NC00180	Nevada Heights	21001 10 1/2 Avenue, Hanford, CA 93230
1729	5C16NC00201	Triple D Dairy & Farming Feedlot	13th Avenue and Flint Avenue, Hanford, CA 93230
Permitted Under WDR Order No. R5-2010-0130			
77	5D165107001	Cloverdale Dairy	19142 10 1/2 Avenue, Hanford, CA 93230
79	5C16NC00036	Wreden Ranch Dairy	8749 Lansing Avenue, Hanford, CA 93230
Permitted Under Unknown WDR Order Nos.[1]			
14	5C16NC00190	Top Line Dairy #1	18386 13th Avenue, Hanford, CA 93230
36	5C16NC00129	Rocking Horse Dairy	21028 13th Avenue, Hanford, CA 92320
40	5C16NC00109	Lake Shore Dairy	15978 Manteca Avenue, Corcoran, CA 93212
43	5C16NC00131	Top Line Dairy #2	18705 13th Avenue, Hanford, CA 93230

Table 4. Milk Cow Dairies and Confined Bovine Feeding Operations in the Proposed Kings Water Alliance Management Zone in the Priority 2 Tulare Lake Subbasin Area that are Management Zone Participants through CVDRMP Membership

CV-SALTS ID	WDID No.	Facility Name	Address
50	5C16NC00135	Philip Verwey Farms Dairy	19765 13th Avenue, Hanford, CA 93230

[1] Order number was not included in Central Valley Water Board's February 2024 list of facilities in Priority 2 areas that received a Notice to Comply with the Nitrate Control Program

Table 5. Milk Cow Dairies and Confined Bovine Feeding Operations in the Proposed Kings Water Alliance Management Zone Priority 2 Tulare Lake Subbasin Area That Are Not Currently Members of the CVDRMP and Status of Management Zone Participation is Unknown at the Time of PMZP Submittal

CV-SALTS ID	WDID No.	Facility Name	Address
Enrolled Under General Order R5-2013-0122 – Milk Cow Dairies			
272	5C16NC00024	Fagundes Agribusiness Dairy	7546 8 1/2 Avenue, Hanford, CA 93230
315	5C16NC00100	Garcia & Sons Dairy	15405 17th Avenue, Lemoore, CA 93245
421	5C16NC00077	Mayar Feedlot	15739 Grangeville Boulevard, Hanford, CA 93230
597	5D165054N01	Milk Flow Dairy	17250 Medford Avenue, Stratford, CA 93266
623	5D165150N01	Clarence Dutra Dairy	9887 Flint Avenue, Hanford, CA 93230
734	5C16NC00122	Top Line Dairy #5	21009 South 19th Avenue, Stratford, CA 93266
737	5C16NC00121	Laurel Avenue Feedlot (Dairy)	19883 Laurel Avenue, Stratford, CA 93266
Enrolled Under General Order R5-2017-0058 – Confined Bovine Feeding Operations			
1226	5C16NC00202	Jersey Avenue Feedlot	19256 Jersey Avenue, Lemoore, CA 93245
1504	5C16NC00176	Dina Simas Property	14672 Flint Avenue, Hanford, CA 93230
1505	5C16NC00044	Dream Dairy Heifer Ranch	6505 10th Avenue, Hanford, CA 93230
1515	5C16NC00198	Frank Mendonca Heifer Ranch	19090 Fargo Avenue, Lemoore, CA 93245
1519	5D165041N01	John Correia Cattle	6672 Hanford-Armona, Hanford, CA 93230
1562	5C16NC00200	Headquarters Ranch 2	16501 Colony Road, Lemoore, CA 93245
1606	5C16NC00174	APN 004-280-075 Feedlot	9223 16 1/2 Avenue, Lemoore, CA 93245
1616	5C16NC00182	Overland Stock Yard	10565 9th Avenue, Hanford, CA 93230
1692	5C16NC00189	Faustino A Diaz	16560 Jackson Avenue, Lemoore, CA 93245
1702	5C16NC00192	Jose Nuno	20164 18th Avenue, Stratford, CA 93266

Table 5. Milk Cow Dairies and Confined Bovine Feeding Operations in the Proposed Kings Water Alliance Management Zone Priority 2 Tulare Lake Subbasin Area That Are Not Currently Members of the CVDRMP and Status of Management Zone Participation is Unknown at the Time of PMZP Submittal

CV-SALTS ID	WDID No.	Facility Name	Address
1703	5C16NC00191	Robert Martins Cattle	17250 Medford Avenue, Stratford, CA 93266

Table 6. Milk Cow Dairies and Confined Bovine Feeding Operations in the Kings Water Alliance Management Zone (Southern Portion – Kaweah Subbasin) that are Management Zone Participants through CVDRMP Membership

CV-SALTS ID	WDID	Facility	Address
General Order R5-2013-0122 – Milk Cow Dairies			
143	5D165093N01	Barreto & Silveira Dairy	11305 2nd Avenue, Hanford, CA 93230
150	5C16NC00101	Bernard Te Velde Dairy #1	1305 Iona Avenue, Hanford, CA 93230
177	5C16NC00039	C. Mattos & Sons Dairy	17800 4th Avenue, Hanford, CA 93230
178	5C16NC00028	Santa Anita Dairy	4356 Kansas Avenue, Hanford, CA 93230
203	5D165046N01	Poplar Lane Dairy	5387 Kent Avenue, Hanford, CA 93230
209	5D165101N01	Mattos Dairy #4	4555 Kansas Avenue, Hanford, CA 93230
217	5D165082002	Diamond D LLC Dairy	9423 Idaho Avenue, Hanford, CA 93230
231	5C16NC00023	Dias and Sons Dairy	7594 Kent Avenue, Hanford, CA 93230
249	5C16NC00050	Dutra & Dutra Dairy	7480 5th Avenue, Hanford, CA 93230
254	5D165094N01	Phoenix Dairy	10736 1 1/2 Avenue, Hanford, CA 93230
257	5C16NC00088	P&E #2 Dairy	13245 9th Avenue, Hanford, CA 93230
260	5D165091N01	Valadao Dairy	17293 9 1/2 Avenue, Hanford, CA 93230
277	5D165120001	Felicita Dairy	22154 Road 20, Tulare, CA 93274
278	5C16NC00089	Fernandes Dairy	16452 11th Avenue, Hanford, CA 93230
339	5D165092N01	Over The Moon Dairy	9455 Second Avenue, Hanford, CA 93230
345	5D165085001	Henry Veenendaal Dairy	3678 Houston Avenue, Hanford, CA 93230
354	5C16NC00067	Holland's Dairy	3533 Grangeville Boulevard, Hanford, CA 93230
374	5C16NC00082	Bill Idsinga Dairy	4595 Houston Avenue, Hanford, CA 93230
393	5C16NC00040	Joe B. Pacheco Dairy	16025 6 1/2 Avenue, Hanford, CA 93230
408	5D165063N01	Cactus Ranch	8800 Lansing Avenue, Hanford, CA 93230
420	5D165005001	Cowlifornia Dairy LLC	3742 Lacey Boulevard, Hanford, CA 93230
423	5C16NC00087	Jersey Creek Dairy	14857 5th Avenue, Hanford, CA 93230
450	5D165070001	Lone Oak Farms Dairy #1	13866 4th Avenue, Hanford, CA 93230
451	5C16NC00097	Jackson Dairy, LLC	8637 Jackson Avenue, Hanford, CA 93230
452	5C16NC00056	High Roller Dairy	14782 8th Avenue, Hanford, CA 93230
459	5C16NC00099	Valley View Dairy #2	15010 5th Avenue, Hanford, CA 93230
483	5D165068N01	M.F. Rosa Dairy	10090 2nd Avenue, Hanford, CA 93230
493	5C16NC00083	Lone Star Dairy #2	13380 9th Avenue, Hanford, CA 93230
494	5D165078001	Robert Brazil Dairy	15035 8th Avenue, Hanford, CA 93230
495	5C16NC00021	Mattos Brothers Dairy	4017 Kansas Avenue, Hanford, CA 93230

Table 6. Milk Cow Dairies and Confined Bovine Feeding Operations in the Kings Water Alliance Management Zone (Southern Portion – Kaweah Subbasin) that are Management Zone Participants through CVDRMP Membership

CV-SALTS ID	WDID	Facility	Address
587	5C16NC00020	River Ranch Dairy	6155 Jackson Avenue, Hanford, CA 93230
633	5C10NC00153	P & E Dairy	15336 10th Avenue, Hanford, CA 93230
657	5D165140N01	Anthony & Robert Brazil Dairy/Sunshine Dairy	13419 7th Avenue, Hanford, CA 93230
658	5D165098001	DeGroot Dairies-South	3101 Grangeville Boulevard, Hanford, CA 93230
674	5C16NC00006	De Groot Dairies-North	2446 Grangeville Boulevard, Hanford, CA 93230
680	5C16NC00019	Valley View Farms Dairy	15673 5 1/2 Avenue, Hanford, CA 93230
682	5C16NC00078	Antonio Parreira Dairy	3604 Houston Avenue, Hanford, CA 93230
692	5D165099N01	North Tri Palm Dairy	4119 Houston Avenue, Hanford, CA 93230
715	5C16NC00062	Willow Grove Farms Dairy	6267 5th Avenue, Hanford, CA 93230
733	5C16NC00117	Dixie Creek Ranch	3601 Lacey Boulevard, Hanford, CA 93230
736	5C16NC00123	Joaquim Mattos & Family Dairy	4790 Kansas Avenue, Hanford, CA 93230
General Order R5-2017-0058 – Confined Bovine Feeding Operations			
1493	5D165067N01	Rancho Del Sol	13301 9th Avenue, Hanford, CA 93230
1496	5C16NC00061	Clark Feedlot	14541 10th Avenue, Hanford, CA 93230
1617	5C16NC00181	Outback Ranch	12202 1st Avenue, Hanford, CA 93230
Other WDRs – Members of CDVRMP			
78	5D165080001	Hollandia Farms North Dairy	7905 Kansas Avenue, Hanford, CA 93230

Table 7. Milk Cow Dairies and Confined Bovine Feeding Operations in the Kings Water Alliance Management Zone (Southern Portion – Kaweah Subbasin) that are Not Currently Members of the CVDRMP and Status of Management Zone Participation is Unknown at time of PMZP Submittal.

CV-SALTS ID	WDID	Facility	Address
General Order R5-2013-0122 – Milk Cow Dairies			
517[1]	5C54NC00038	Tripalm Dairy	2429 Idaho Avenue, Hanford, CA 93230
General Order R5-2017-0058 – Confined Bovine Feeding Operations			
1523	5C16NC00179	Manuel Mendonca Trustee	9080 1 1/2 Avenue, Hanford, CA 93230
1546	5C16NC00057	A&M Livestock	12051 8th Avenue, Hanford, CA 93230
1704	5C16NC00193	Veenendaal Angus	3678 Houston Avenue, Hanford, CA 93230
Other Permittees – Order No. Unknown[1]			
42[1]	5C16NC00115	Yokum Dairy	10234 Lansing Avenue, Hanford, CA 93230
46[1]	5C16NC00110	David Lemstra Dairy	21094 4th Avenue, Corcoran, CA 93212

[1] Facility on Central Valley Water Board's Kaweah Subbasin list of permittee's receiving an NTC (January 12, 2021), but not on CVDRMP list of known milk cow dairies or confined bovine feeding operations

Table 8. Poultry Farms in the in the Kings Water Alliance Management Zone (Southern Portion – Tulare Lake Subbasin) that are Management Zone Participants through Poultry General Order (all are categorized as Low Threat Operations)

CV-SALTS ID	WDID No.	Facility Name	Address
1240	5C16NC00155	2Y's Ranch	10635 6th Avenue, Hanford, CA 93230
1287	5C16NC00156	Dutra Ranch	19258 14th Avenue, Hanford, CA 93230
1292	5C16NC00164	Gilkey Ranch	11009 Nevada Avenue, Hanford, CA 93230
1293	5C16NC00158	Hanford Ranch	18670 13th Avenue, Hanford, CA 93230
1296	5C16NC00159	Huffman Ranch	16445 Laurel Avenue, Stratford, CA 93266
1297	5C16NC00160	Index Ranch	16740 Index Avenue, Lemoore, CA 93245
1308	5C16NC00162	Smith Ranch	12565 Kansas Avenue, Hanford, CA 93230
1441	5C16NC00171	Kopenhefer	3127 10 1/2 Avenue, Laton, CA 93242
1442	5C16NC00165	6th Avenue Ranch	43501 6th Avenue, Alpaugh, CA 93201
1444	5C16NC00166	18th Avenue Ranch	17388 18th Avenue, Lemoore, CA 93245
1456	5C16NC00167	Kent Ranch	19744 Kent Avenue, Lemoore, CA 93245
1457	5C16NC00168	Holm Ranch	16395 19th Avenue, Lemoore, CA 93245
1458	5C16NC00169	Samuel Grow	11005 Nevada Avenue, Hanford, CA 93230

Attachment C

Outreach Records for Development of PMZP for P2 Tulare Lake

Please see the full record of outreach materials that the KWA performed available in Attachment D Early Action Plan Appendix A.

Public Draft Comments and Response Log

This attachment will be populated based on the comments received on this PMZP Addendum Public Draft document and will be provided for submittal to the CVWB on December 28, 2024.

Attachment D

Early Action Plan Addendum

PUBLIC DRAFT SUBMITTAL REPORT | Nov 25, 2024

KINGS WATER ALLIANCE PRIORITY 2 MANAGEMENT ZONE EARLY ACTION PLAN ADDENDUM

Attachment D

PREPARED FOR

KINGS WATER ALLIANCE

PREPARED BY

LUHDORFF & SCALMANINI, CONSULTING ENGINEERS

GEI CONSULTANTS, INC.

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LIST OF ACRONYMS

Acronym	Definition
AB	Public Water Supply Well Status, Abandoned
AR	Public Water Supply Well Status, Active Raw
AU	Public Water Supply Well Status Active Untreated
C	Public Water System Type, Community
Central Valley Water Board	Central Valley Regional Water Quality Control Board
CVDRMP	Central Valley Dairy Representative Monitoring Program

Acronym	Definition
CV-SALTS	Central Valley Salinity Alternatives for Long-term Sustainability
CVSC	Central Valley Salinity Coalition
CVWB	Central Valley Water Board
CSD	Community Services District
DAC	Disadvantaged Community
DDW	Division of Drinking Water
DS	Public Water Supply Well Status Destroyed
DWR	California Department of Water Resources
DWW	Drinking Water Watch
EAP	Early Action Plan
FMZP	Final Management Zone Proposal
GAMA	Groundwater Ambient Monitoring and Assessment
GIS	Geographic Information Systems
GSA	Groundwater Sustainability Agency
ILRP	Irrigated Lands Regulatory Program
IR	Public Supply Well Status Inactive Raw
IU	Public Supply Well Status Inactive Untreated
KWA	Kings Water Alliance
LSWS	Local Small Water System
MCL	Maximum Contaminant Level
mg/L	milligrams per liter
mg/L as N	milligrams per liter as nitrogen
MHI	Median Household Income
MZ	Management Zone
MZIP	Management Zone Implementation Plan
N	Nitrogen
NC	Public Water System Type, Non-Community
NO_3-N	Nitrate as Nitrogen
NTC	Notice to Comply
NTNC	Public Water System Type, Non-Transient Non-Community
OWTS	Onsite Waste Treatment System
PMZP	Preliminary Management Zone Proposal
PN	Public Supply Well Status Pending
POU	Point of Use
PWS	Public Water System
SDAC	Severely Disadvantaged Communities
SDWIS	Safe Drinking Water Information System
SGMA	Sustainable Groundwater Management Act
SSWS	State Small Water System
State Water Board	State Water Resources Control Board

EXECUTIVE SUMMARY

E.S. 1. Background

The Central Valley Regional Water Quality Control Board (Central Valley Water Board) has begun implementing a new Nitrate Control Program in the Central Valley that is designed to achieve three nitrate management goals:

- *Goal 1* – Ensure a safe drinking water supply;
- *Goal 2* – Reduce nitrate loading so that ongoing discharges neither threaten to degrade high quality waters absent appropriate findings by the Central Valley Water Board nor cause or contribute to exceedances of nitrate water quality objectives; and
- *Goal 3* – Implement long-term, managed restoration of impaired water bodies.

The Kings Water Alliance (KWA) was established to achieve these three goals for its Management Zone. As required by the Nitrate Control Program, the KWA prepared this Early Action Plan (EAP), which identifies the initial actions that will be carried out to address drinking water with unsafe nitrate levels being used by residences in the Priority 1 (Kings groundwater subbasin) and Priority 2 (portions of the Tulare Lake groundwater subbasin) areas of the Management Zone (**Figure ES-1**). EAP implementation is occurring in phases. Phase 1 began implementation in the Priority 1 area in May 2021. This EAP addendum has been prepared to facilitate implementation of Phase 2 which will begin in the Priority 2 area in February 2025.

The key element of this EAP, which was developed in collaboration with the community, is the Interim Replacement Water Program. This Program provides immediate alternative sources of drinking water for residences that depend on groundwater from domestic wells for drinking and cooking purposes where that groundwater contains unsafe levels of nitrate (water with more than 10 milligrams per liter nitrate as nitrogen (mg/L-N)).

Figure ES-1. Scale Showing Nitrate Safe and Unsafe Levels

E.S. 2. Identification of Nitrate-Impacted Areas

As described in more detail within the Preliminary Management Zone Proposal (PMZP), nitrate groundwater data were requested, downloaded, and compiled using various publicly available sources and complemented by data requested from the Fresno and Tulare County Environmental Health departments[1]. The compiled nitrate groundwater data were categorized into depth zones, following previously developed CV-SALTS best management practices. Wells constructed in the Upper Zone of the groundwater system and with nitrate data since the year 2010 were used to determine recent average ambient nitrate concentrations. The best readily available groundwater nitrate dataset compiled and analyzed included sample results for wells in the Upper, Lower, and Below Lower Zones from January 2010 to May 2024. These nitrate data were used in determining ambient nitrate conditions in the Upper Zone of the groundwater system for the Priority 2 KWA Management Zone area (i.e., Tulare Lake Subbasin).

The Upper Zone average nitrate concentrations were used to produce a map showing the spatial interpolation (kriging using a search radius of 1.5 miles) of ambient nitrate conditions within the Management Zone for conditions between 2010 and 2024. As illustrated in Figure E.S. 1, several nitrate-impacted areas occur within the Priority 1 and 2 areas of the Management Zone. These areas are defined by average recent nitrate concentrations in the Upper Zone that exceed the drinking water Maximum Contaminant Level (MCL) of 10 milligrams per liter nitrate as nitrogen. Inherent uncertainty exists for the preliminary estimate of ambient nitrate conditions. As more Upper Zone nitrate data become available (through EAP implementation of well testing, or other monitoring programs associated with the Irrigated Lands Regulatory Program, Groundwater Sustainability Agencies, or other entities), the ambient nitrate analysis will be repeated, and the ambient map will be updated (and potentially changed) prior to the Final Management Zone Proposal submittal date. The ambient nitrate Upper Zone map is not intended to be a substitute for well testing or interim water replacement requirements.

[1] Kings County was also contacted but did not have readily-available groundwater nitrate data not already contained in the public databases utilized.

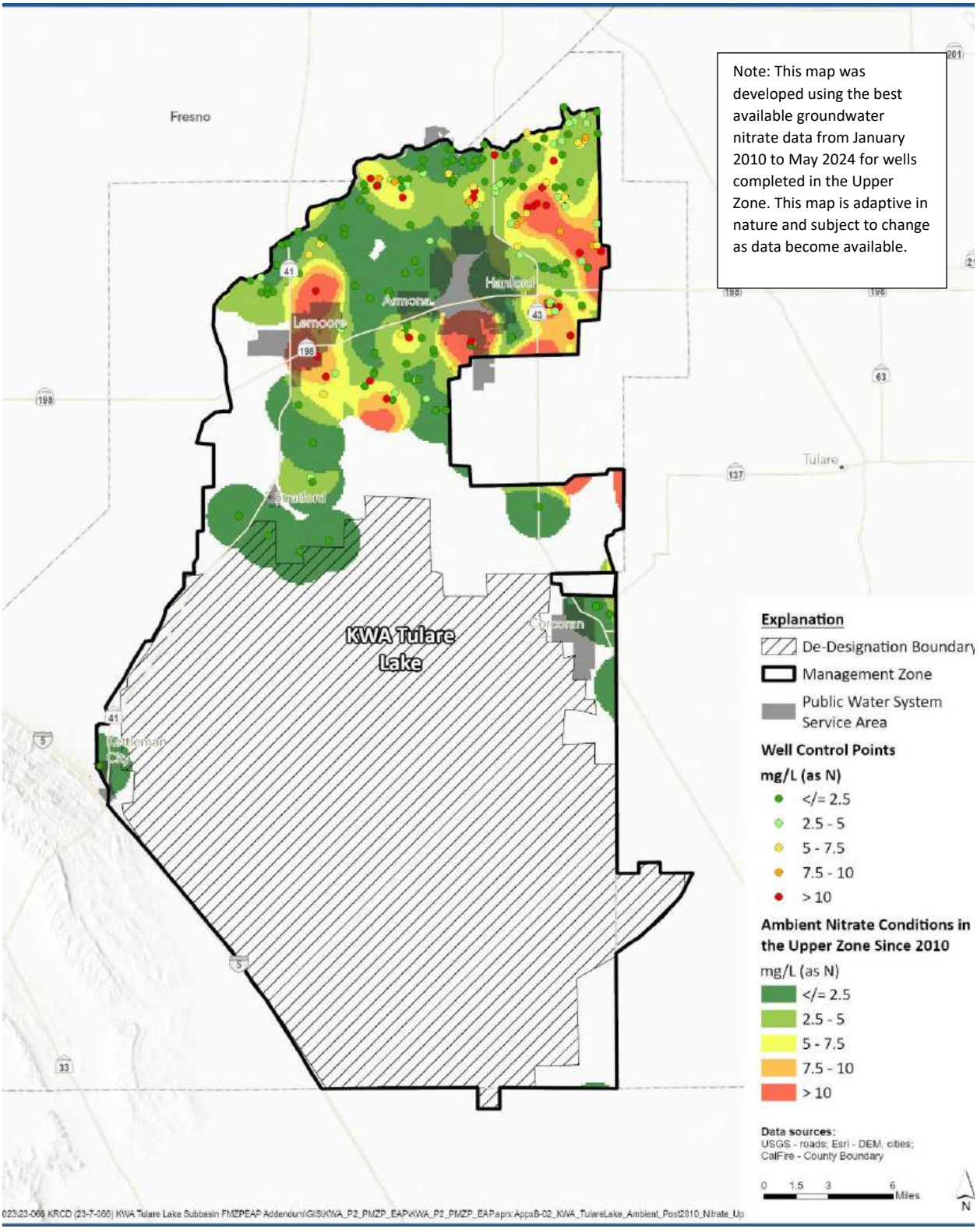


Figure ES 2. Ambient Nitrate Conditions in the Upper Zone since 2010

In addition to the map that shows areas potentially impacted by nitrate in groundwater in the Upper Zone, the groundwater nitrate data compilation also contains all available public water system supply well nitrate sample results. From the available records downloaded from the State Division of Drinking Water[2], it appears that 4 public supply wells located within the Priority 2 Tulare Lake Subbasin KWA Management Zone have exceeded the nitrate MCL at some time. All four of those wells were considered to have an "active" status, as listed by the Drinking Water Watch[3]. None of the public water systems in the Priority 2 Tulare Lake Subbasin KWA Management Zone are currently (as of August 2024) out of compliance due to elevated nitrate conditions or elevated nitrate plus one or more co-contaminants.

The ambient nitrate conditions map for the Upper Zone was overlain with known public water system boundaries and approximate domestic well locations to identify potentially impacted residents. Only 114 domestic wells are plotted within known public water system boundaries. An estimate of 79 domestic wells located outside of known public water system boundaries are located within mapped areas with estimated Upper Zone ambient nitrate above the safe drinking water standard (of 10 milligrams per liter nitrate as nitrogen). Using census block data from the 2023 U.S. Census, the estimated population of residents living outside known public water system boundaries and within mapped areas with potentially unsafe drinking water (estimated Upper Zone ambient nitrate above the MCL) is over 1,063.

E.S. 3. Identification of Potentially Affected Areas

A key component of the EAP is identification of residents or other entities in the Management Zone that may be obtaining their drinking water from a well impacted by nitrate levels that exceed 10 mg/L-N. Some KWA outreach efforts will target those identified as being most likely impacted by elevated nitrate (nitrate levels > 7.5 mg/L as N). This targeted outreach will occur at the same time the KWA is implementing general community outreach activities for the entire Management Zone. The process to identify residents or other entities in potentially affected areas will begin immediately upon EAP implementation using the steps described. Where appropriate, the KWA will prioritize and target those that rely on domestic wells, and for the Public Water Systems (PWSs), will evaluate on a case-by-case basis the role of the Management Zone.

E.S. 4. Community Outreach Program

The KWA has and will continue to engage the community on the EAP including the Interim Replacement Water Program with the overall objective to create a level of engagement and

[2] Public Supply Well nitrate data was acquired from the Division of Drinking Water (https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/EDTlibrary.html) accessed August2024.
[3] Public Water System information was acquired from the State's Safe Drinking Water Information System (SDWIS) Drinking Water Watch online database (https://sdwis.waterboards.ca.gov/PDWW/) accessed August 2024.

awareness with community residents and stakeholders that establish trust and robust participation. The stated goals of the community outreach program are to: 1) identify and cultivate relationships with key influential individuals and organizations in the communities to amplify information from the Management Zone, 2) provide channels for input and participation that connect with residents in a way that is effective and accessible, and 3) provide easy-to-understand, timely information on the EAP development and implementation.

The community outreach program goals guided outreach during EAP development in the Priority 1 area of the Management Zone (i.e, the Kings Subbasin). KWA conducted a series of community outreach events beginning in November 2020 to obtain input on EAP development. Webinars included opportunities to ask questions and provide comments to KWA staff and its consultants. Webinar polling was conducted to solicit input on demographics, communications preferences, and drinking water solutions. Virtual office hours were open to the public to solicit input and answer questions on EAP development. Events were promoted using varying communications methods including community flyers at key locations, community organization distribution, email, and direct mail. A survey in both English and Spanish to solicit feedback on preferred drinking water solutions was conducted and distributed via email, website, and community organization outreach using digital platforms.

This EAP reflects the input received from the public. General community outreach will continue during EAP implementation through a variety of communications mediums including virtual and in-person community meetings, sharing information through the KWA's website, sharing regular updates via email to the interested persons email list, direct mail pieces, and/or information distribution through entities that are locally collaborating with the KWA's efforts to provide safe drinking water. In addition to ongoing broad community outreach, this EAP includes a program to outreach directly to residences in areas most likely to have domestic wells contaminated by nitrate. A community survey to potentially impacted residents was conducted to obtain input.

E.S. 5. Interim Replacement Water

The Interim Replacement Water Program provides an immediate solution for those currently experiencing unsafe levels of nitrate in their drinking water source. However, these solutions are only temporary and will eventually be replaced by long-term, permanent solutions.

There are three key options to obtain safe water now at no cost to residents located in the Management Zone: (a) delivered or non-delivered home bottled water; (b) installation of a Point-of-Use (POU) treatment system in your home; or (c) utilizing water fill stations strategically located within the Management Zone. Regarding the first two options, a residence

may receive these alternative water options if the resident can answer yes to the following three statements:

1. My home is a residence relying on a domestic well for drinking water in the KWA;
    a. For residents requesting service that receives drinking water from a PWS that is non-compliant with the nitrate drinking water standard, where appropriate, the KWA will prioritize and target those that rely on domestic wells, and for the Public Water Systems (PWSs), will evaluate on a case-by-case basis the role of the Management Zone.
2. I am willing to sign an agreement with the KWA's service provider; and
3. My well has unsafe nitrate levels (> 10 mg/L-N) (see Figure ES-1) as determined by a water quality analysis conducted by a certified laboratory

If you do not know if your well water has unsafe nitrate levels, you may contact the KWA (https://kingswateralliance.org) to request that your well be sampled at no cost to you. Results from the nitrate test, which will be provided to you will be used to determine the next steps. Most importantly, if your nitrate levels are unsafe the KWA will work with you immediately to obtain a safe source of drinking water. If nitrate levels are high (> 7.5 mg/L-N) but safe, the KWA will offer the opportunity to have your well tested again at no cost to you in the future.

Finally, the KWA may also install additional water fill stations in the Management Zone. Three are currently operational in the Dinuba, Kerman, and Hanford areas; all fill stations use a certified source of safe and free drinking water and are available to the entire community at no cost. Based on the needs of the community, additional fill station locations may be developed through the implementation of this EAP. Through this program, the community will be made aware of the existing fill stations and the availability of additional stations, if developed.

E.S. 6. Early Action Plan Implementation

The KWA began implementing Phase 1 of this EAP in the Priority 1 area (Kings Subbasin) on May 8, 2021. Implementation of Phase 2 in the Priority 2 area (relevant portions of the Tulare Lake Subbasin) will begin within 60 days of submittal of this Addendum, or by February 26, 2025, unless the Central Valley Water Board notifies the KWA that this EAP Addendum is incomplete. A community outreach meeting will be held in early 2025 to kick-off Phase 2 of the program and inform residents regarding how to participate in the Interim Replacement Water Program. The Management Zone will also continue in its outreach to the community regarding the need and/or approach for developing additional water fill stations.

1. BACKGROUND

1.1. Regulatory Requirements

The Central Valley Regional Water Quality Control Board (Central Valley Water Board) established a Nitrate Control Program for the Central Valley Region of California that became effective January 17, 2020. One of the key goals of this Program is to work with the local community to ensure that a safe drinking water supply is available to residents affected by high levels of nitrate in the groundwater that is the source of their drinking water.

Implementation of the Nitrate Control Program is prioritized by groundwater subbasin. The Central Valley Water Board sent out Notices to Comply with the Nitrate Control Program to permitted dischargers (e.g., growers, dairies, poultry farms, wastewater treatment and food processing facilities) in the Priority 1 subbasins (Modesto, Turlock, Chowchilla, Kings, Kaweah, and Tule Subbasins) on May 29, 2020 and in the Priority 2 subbasins (Yolo, Eastern San Joaquin, Merced, Delta-Mendota, Madera, Tulare Lake, Kern County (Westside South), and Kern County (Poso) on December 29, 2023.

The priority for groundwater subbasins to comply with the Nitrate Control Program, and thus the schedules for program implementation, vary across the Kings Water Alliance (KWA) Management Zone. Regardless, permitted dischargers within the boundary of the Kings River Water Quality Coalition opted to work collectively together to establish one Management Zone to comply with all Nitrate Control Program requirements. The KWA Management Zone includes the Kings and Tulare Lake Subbasins, the northwestern portion of the Kaweah Subbasin and very small portions of the Madera, Delta-Mendota, Westside, Kern County, Tule and Pleasant Valley Subbasins (**Figure 1-1**).

The Management Zone entities are required to develop an Early Action Plan (EAP), which is defined in the Nitrate Control Program as: “a plan that identifies specific activities, and a schedule for implementing those activities, that will be undertaken to ensure immediate access to safe drinking water for those who are dependent on groundwater from wells that exceed the primary maximum contaminant level (MCL) for nitrate” (Central Valley Water Board, 2020). The MCL is 10 milligrams/liter nitrate as nitrogen (mg/L-N). The provisions to provide access to safe drinking under this EAP are considered temporary and will be replaced by permanent solutions through an approved Management Zone Implementation Plan (MZIP).

The Nitrate Control Program regulations state that the EAP must include the following elements (Central Valley Water Board, 2020):

- A process to identify affected residents and the outreach utilized to ensure that impacted groundwater users are informed of and given the opportunity to participate in the development of proposed solutions;

- A process for coordinating with others that are not dischargers to address drinking water issues, which must include consideration of coordinating with impacted communities, domestic well users and their representatives, the State Water Resources Control Board's (State Water Board) Division of Drinking Water (DDW), Local Planning Departments, Local County Health Officials, Sustainable Groundwater Management Agencies (SGMA) and others as appropriate;
- Specific actions and a schedule of implementation that is as short as practicable to address the immediate drinking water needs of those initially identified within the Management Zone, or area of contribution for a Path A discharger, that are drinking groundwater that exceeds nitrate standards and that do not otherwise have interim replacement water that meets drinking water standards; and
- A funding mechanism for implementing the EAP, which may include seeking funding from Management Zone participants, and/or local, state and federal funds that are available for such purposes.

Because the KWA includes both Priority 1 and 2 areas that have different implementation schedules under the Nitrate Control Program, this Management Zone has phased implementation of the EAP:

- *Phase 1* - EAP implementation began on May 8, 2021 in the Priority 1 areas of the KWA that include all or part of the Kings, Kaweah, and Tule Subbasins and the very small adjacent Priority 2 areas in the Delta Mendota and Madera Subbasins. Phase 1's EAP has now been incorporated into KWA's Management Zone Implementation Plan (MZIP) where it will continue to guide community outreach efforts, provide free well testing to residents and, where needed, offer emergency and interim drinking water to residents while the KWA implements its long-term drinking water program (Kings Water Alliance 2023).
- *Phase 2* - EAP implementation will soon begin in the Priority 2 Tulare Lake Subbasin and very small adjacent Priority 2 areas in the Westside, Pleasant Valley, and Kern County Subbasins. This Phase will begin within 60 days of the EAP Addendum submittal, or by February 26, 2025, unless the Central Valley Water Board notifies the KWA that this EAP Addendum is incomplete.

This EAP Addendum was submitted to the Central Valley Water Board as an attachment to the KWA Priority 2 Management Zone's Preliminary Management Zone Proposal (PMZP), December 28, 2024. Phase 2 implementation will begin within 60 days of submittal, or by February 26, 2025, unless the Central Valley Water Board notifies the KWA that this EAP Addendum is incomplete. If deemed incomplete, the KWA will work with the Central Valley Water Board in a timely manner to address their concerns.

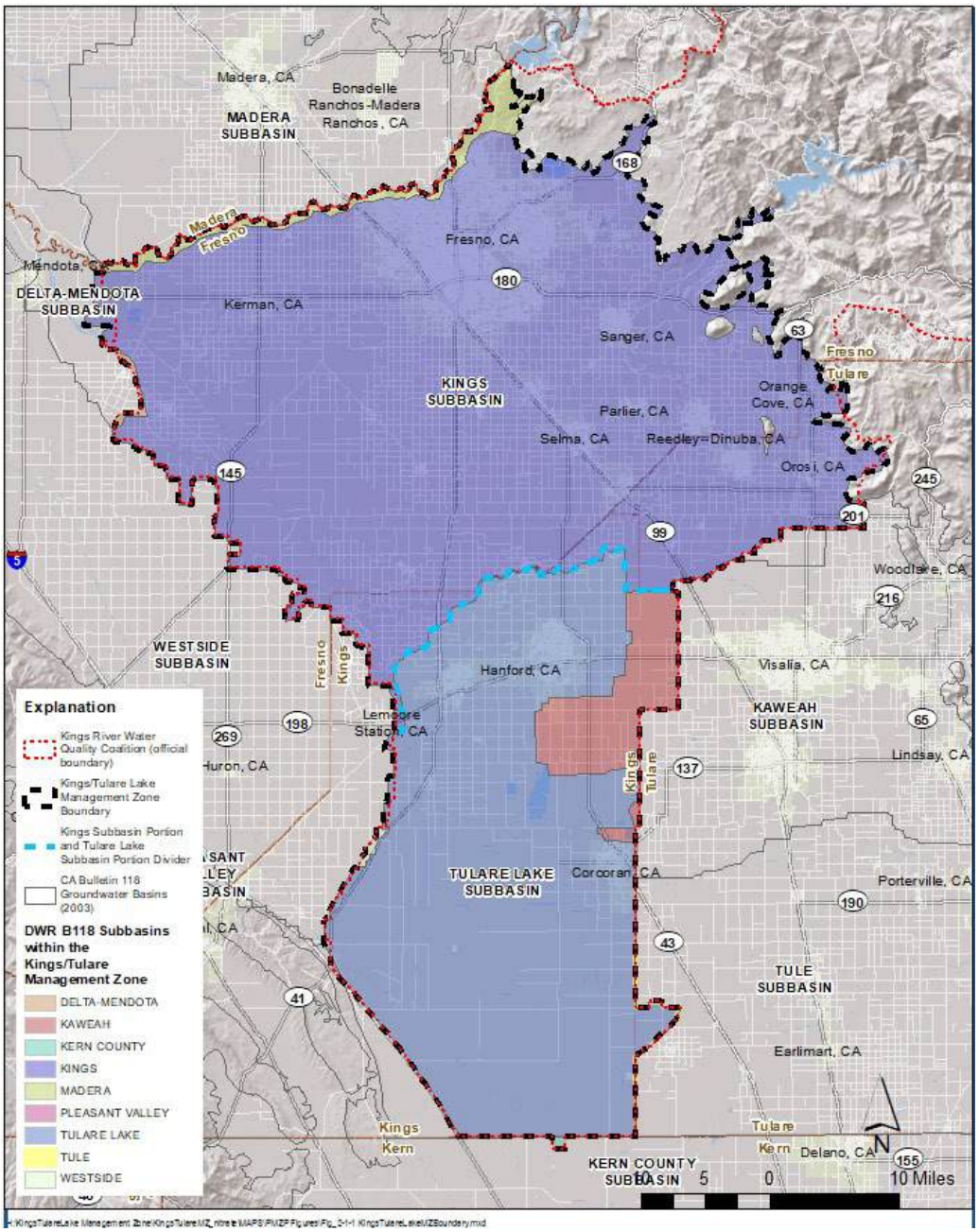


Figure 1-1. Priority 1 and 2 Groundwater Subbasins in the Kings Water Alliance Management Zone

1.2. Community Outreach to Develop Early Action Plan

The KWA implemented a comprehensive effort to reach out to the community within the Management Zone, as described in the KWA's Community Engagement Communication & Outreach Plan (**Appendix A**). Community engagement activities were conducted in a manner consistent with guidance prepared by the State Water Resources Control Board (State Water Board, 2020) (see **Appendix B**). The following sections summarize outreach completed for both phases of EAP implementation, Priority 1 (Phase 1) and Priority 2 (Phase 2) areas. Section 4 below describes the community outreach that will continue during Phase 2 EAP implementation.

1.2.1. Community Outreach Activities

The KWA implemented a variety of activities to involve the community in the development of this EAP. Key Management Zone outreach activities completed during the development of this EAP are described below (see **Appendix A** for additional documentation).

1.2.1.1. Community Outreach Meetings

Due to state directives during the COVID pandemic all Phase 1 community outreach meetings were held online using a ZOOM Webinar platform with Spanish translation provided. This approach is consistent with state-provided guidance (State Water Board, 2020). Table 7 of Appendix A includes a summary of the community public outreach meetings and workshops that were conducted as part of Phase 1.

Phase 2 implementation focused community outreach meetings had a combination of in-person and virtual meeting options. This approach is consistent with state-provided guidance (State Water Board, 2020). Two community outreach meetings were held during Phase 2 EAP development:

- *August 27, 2024, Zoom Webinar* – The meeting presentation information on the following key topics: (a) Why do we care about nitrate? (b) What is the new Nitrate Control Program? (c) Who needs to be involved? (d) Where is drinking water affected? In addition to answering these questions, the EAP was introduced to the community as the mechanism to implement early actions or short-term solutions to address areas where drinking water is impacted by nitrate contamination. Additionally, the draft interim replacement water program planned for implementation through the EAP, including bottled water delivery, Point-of-Use (POU) treatment system installation and water fill stations was presented.
- *September 24, 2024, Hanford, CA* – The meeting presentation information on the following key topics: (a) Why do we care about nitrate? (b) What is the new Nitrate

Control Program? (c) Who needs to be involved? (d) Where is drinking water affected? In addition to answering these questions, the EAP was introduced to the community as the mechanism to implement early actions or short-term solutions to address areas where drinking water is impacted by nitrate contamination. Additionally, the draft interim replacement water program planned for implementation through the EAP, including bottled water delivery, Point-of-Use (POU) treatment system installation and water fill stations was presented.

- *TBA, Lemoore, CA* – This meeting presented: (a) general information to inform the public regarding nitrate concerns in the area; (b) updated information on nitrate water quality conditions in the KWA area and areas where domestic wells are most likely impacted by nitrate; (b) the draft interim replacement water program planned for implementation through the EAP, including bottled water delivery, Point-of-Use (POU) treatment system installation and water fill stations; and (c) how the public may comment on the draft EAP that is available for public review and continue to participate in the program during EAP implementation.
- *TBA, Hanford, CA* – This meeting presented: (a) general information to inform the public regarding nitrate concerns in the area; (b) updated information on nitrate water quality conditions in the KWA area and areas where domestic wells are most likely impacted by nitrate; (b) the draft interim replacement water program planned for implementation through the EAP, including bottled water delivery, Point-of-Use (POU) treatment system installation and water fill stations; and (c) how the public may comment on the draft EAP that is available for public review and continue to participate in the program during EAP implementation.
- *Week of November 18* – A virtual office hour was held to solicit feedback from the community and answer questions. KWA staff were available during the hour.

Appendix A provides the presentations delivered at each of the Phase 1 and Phase 2 meetings and summarizes meeting participation.

1.2.1.2. Public Meeting Notices

The KWA conducted extensive outreach to encourage local participation in public meetings. This outreach includes community residents, non-dischargers, permitted dischargers and any other interested parties as described in **Appendix A**.

For the Phase 1 and Phase 2 community outreach meetings, the KWA publicly noticed the meeting through the following actions (see **Appendix A** for meeting notice examples):

- Direct mailers were sent to residents throughout the KWA

- Meeting notices in English and Spanish were posted at key community locations in the KWA
- Directly inviting local community leaders
- Outreach to local community and governmental organizations
- Event notice on the KWA website and upcoming meeting email notice to the KWA email lists

Virtual Office Hours were promoted through the following actions:

- Promotion during community outreach meetings
- Events notices on the KWA website
- Email notices to the KWA email lists

1.2.1.3. KWA Management Zone

The KWA maintains a website (https://kingswateralliance.org) which includes information on the Nitrate Control Program and EAP, educational information on the KWA, links to past outreach event materials and videos, an events page to promote upcoming outreach, and an interactive map for residents to determine if they are in a Phase 1 or Phase 2 area of the KWA (https://kingswateralliance.org/map/).

1.2.1.4. Public Review Opportunities

The KWA provided stakeholders, including local community residents, the opportunity to review the Phase 1 EAP. For Phase 2 implementation, this EAP addendum was required to include Priority 2 area updates. Similar to the Phase 1 process, the KWA provided an updated Phase 2 EAP Addendum public draft to stakeholders, including local community residents, the opportunity to review. Public notification was done on November 8, 2024, to inform the public draft EAP Addendum was available for review and comment; comments to the KWA were due by November 22, 2024 in order to be included in the submittal due to the Central Valley Water Board (CVWB) by December 28, 2024. Comments and KWA responses to comments are provided in Attachment C of the PMZP document. Comments received after November 22 were still accepted but not incorporated in the final submittal.

To notify residents of the opportunity to review this document, the following notification activities were conducted:

- Direct email of the document link to list of interested parties;
- Posting of document links on the KWA website and other locations;
- Virtual office hours the week of November 18, 2024.

1.3. Early Action Plan Implementation

As noted above, Phase 1 EAP implementation began in the Priority 1 areas of the KWA Management Zone on May 8, 2021. EAP implementation activities in the Priority 1 areas have now been incorporated into KWA's Priority 1 MZIP (Kings Water Alliance 2023). EAP Phase 2 implementation will begin within 60 days of submittal, or by February 26, 2025, unless the Central Valley Water Board notifies the KWA that this EAP is incomplete. Community outreach will continue to occur on a regular basis during EAP implementation. Phase 2 EAP tasks to be implemented include identification of:

- Date, time and location for a community outreach meeting to kickoff implementation of the EAP.
- Potentially affected residents on domestic wells, i.e., those in areas of the KWA where nitrate concentrations most likely exceed 7.5 mg/L-N. Once these residents are identified the KWA will begin outreach to advise residents of the opportunity to have their well tested for nitrate at no cost to them and interim replacement water options, including the opportunity to obtain bottled water, installation of a Point-of-Use (POU) treatment system ("POU System") in their home or obtain water from fill stations including those already in place (in Kerman, Dinuba, and Hanford).
- With community input, begin identification of potential locations for new water fill stations in the area that would be available to all residents.
- Respond to requests to participate in the Interim Replacement Water Program and need for nitrate testing of wells.

The following sections provide detailed information about the above tasks as well as other activities that will be implemented through this EAP Addendum.

2. IDENTIFICATION OF NITRATE-IMPACTED AREAS

2.1. Groundwater Nitrate Assessment

To support the development of the Tulare Lake PMZP Addendum, nitrate groundwater data were requested, downloaded, and compiled using various publicly available sources, including the State Water Board's Division of Drinking Water (DDW), GeoTracker Groundwater Ambient Monitoring and Assessment (GAMA) data, and the Irrigated Lands Regulatory Program monitoring data. These data were complemented by data requested from Fresno County departments[4]. Groundwater data were meticulously vetted and categorized into depth zones, following previously-developed CV-SALTS best management practices, and wells completed in the Upper Zone[5] of the groundwater aquifer were used to determine recent average ambient nitrate concentrations for data since the year 2010. The best available groundwater nitrate dataset for Upper Zone wells consisted of publicly and non-public data between January 2010 and May 2024 for wells in the Management Zone and a three-mile buffer around the Management Zone[6].

The Upper Zone average nitrate concentrations for wells in the Management Zone were used to produce a geospatial analysis of ambient conditions across the Management Zone. This methodology involves a technique called "kriging", which utilizes known control point data and interpolates (or estimates) ambient nitrate conditions in between control points, using a search radius of 1.5 miles. **Figure 2-1** shows the Tulare Lake Management Zone with the estimated ambient nitrate conditions in the Upper Zone, representing average groundwater quality conditions since 2010. The Management Zone recognizes that the map of ambient nitrate in the Upper Zone has inherent uncertainty and is adaptive in nature. As more Upper Zone nitrate data become available (through EAP implementation of well testing, or other monitoring programs associated with the Irrigated Lands Regulatory Program, Groundwater Sustainability Agencies, or other entities), the ambient nitrate analysis will be repeated, and the ambient map will be updated (and potentially changed) prior to the Final Management Zone Proposal submittal date. The map of ambient Upper Zone nitrate is not intended to be a substitute for well testing or interim water replacement requirements. For the Priority 2 Tulare Lake Subbasin Management Zone area, groundwater quality data for wells completed in the Upper Zone covered most of the northern area, with data gaps in the central and south parts of the

[4] Kings County was also contacted, but did not have readily-available groundwater nitrate data that are not already published via other sources previously listed.
[5] Upper Zone as defined by the Central Valley Water Board is, "the portion of the groundwater basins, subbasin or Management Zone from which most domestic wells draw water."
[6] "Public and non-public" data refer to data from public and non-public entities that was either requested and/or downloaded for this data-gathering effort.

subbasin. The largest data gap area with unknown nitrate conditions in the Upper Zone occurs near the De-Designation Boundary in the southern portion of the Tulare Lake Subbasin[7].

Using the available nitrate dataset, there are small nitrate-impacted areas that occur within the Tulare Lake Subbasin portion of the KWA Management Zone; these are defined by average recent nitrate concentrations in the Upper Zone exceeding the drinking water Maximum Contaminant Level (MCL) of 10 mg/L nitrate as N. **Figure 2-1** depicts these nitrate-impacted areas (see Section 3 of Chapters 2 and 3 of the PMZP for information regarding the development of Figure 2-1). The largest nitrate-impacted areas exist in the vicinity of Lemoore, south Hanford, and northwestern Remnoy.

2.2. Potentially Impacted Public Water Supply Wells

2.2.1. Public Water Supply Wells in the Management Zone

Public Water Systems (PWS) are defined as systems that provide drinking water to: (1) 15 or more service connections; or (2) regularly serves at least 25 individuals daily for at least 60 days per year (**Table 2-1**). Non-Community systems include any facility that provides drinking water, such as churches, rest stops, stores, schools, businesses, etc.

Table 2-1. Classification of Drinking Water Systems by Constituency, Connections, and Duration of Service per Year (adapted from Boyle et al. 2012)

<table>
<tr><td rowspan="2">Duration of Service</td><td>Connections:</td><td rowspan="6">Classification Defined By</td><td>< 5</td><td>5 +</td><td>< 15</td><td>15 +</td><td>< 200</td><td>200 +</td></tr>
<tr><td>Persons Served:</td><td colspan="3">< 25</td><td colspan="3">25 +</td></tr>
<tr><td>N/A</td><td>Small Water System (SWS)[1]</td><td colspan="5">Connections</td><td></td></tr>
<tr><td>< 60 days/year</td><td>Local Small Water System</td><td>Connections & (persons, duration)</td><td colspan="5"></td></tr>
<tr><td>< 60 days/year</td><td>State Small Water System</td><td></td><td colspan="2">Connections & (persons, duration)</td><td colspan="3"></td></tr>
<tr><td>>= 60 days/year</td><td>Community Public Water System (PWS)[2]</td><td colspan="3"></td><td colspan="3">Connections or (persons, duration)</td></tr>
</table>

1. Classification as a SWS does not preclude classification as any of the other types. SWS may be regulated by DDW or by Local Primary Agency county, but must have less than 200 connections.

[7] See the Kings Water Alliance Management Zone Preliminary Management Zone Proposal (2021) for additional information.

2. A PWS is a system for the provision of water for human consumption that has 15 or more service connections OR regularly serves at least 25 individuals at least 60 days per year.

Community PWS, which are regulated by the State Water Board's DDW, are required to submit water samples of their raw and delivered water for a broad suite of regulated constituents on various schedules that depend on the constituent and the source water context. All PWS data on water quality, source locations, service areas, and historical data are publicly available on the State Water Board website[8].

State Small Water Systems (SSWS) are defined as systems serving at least five but not more than 14 residential households. Mutual Water Companies are frequently classified as a SSWS. Typically, SSWS are regulated by county environmental health departments; regulatory oversight of these systems varies by county. Typically, counties require submission of water quality samples annually (at most) for a smaller set of constituents than monitored by a PWS.

SSWS data are public; however, most counties in the state do not have these data compiled in any easily accessible format. Many counties require a fee for data retrieval for these systems. Typically, the data available include sporadic water quality data for a few constituents, and the original permit for the system. The permit typically includes information on the construction of the water source (well) and the street where service is provided.

Local Small Water Systems (LSWS) include residential systems serving two to four households. Most counties regulate LSWS as if they were simply private wells – that is, they are unregulated except for the requirements associated with the drilling permit. Typically, no information is available to identify the difference between a single-household well and one used for a LSWS.

Elevated nitrate concentrations have been found in many PWS wells in the Kings/Tulare Lake Management Zone. The State Water Board's Drinking Water Source and Water Systems identification documentation was accessed via the internet[9] to provide water system information that complements water quality data from the DDW. Together, these two sources provide information on how many systems have active versus inactive wells that have nitrate (as N) exceeding the MCL. This documentation provides a status code for each well, as well as a population served and number of connections for each water system.

Wells with any measurement of raw untreated water having nitrate exceeding the MCL were extracted from the database to determine if the wells are considered to be actively providing water to the water system or have been abandoned, destroyed, or inactive. Based on DDW data (accessed August 20204), four (4) public supply wells in the Tulare Lake Subbasin portion of the KWA Management Zone have exceeded the MCL for nitrate. All four of these wells are considered "Active" (Active Raw, meaning the groundwater is sampled directly from the well).

[8] https://data.ca.gov/dataset/drinking-water-public-water-system-information, accessed October 2021
[9] https://sdwis.waterboards.ca.gov/PDWW/ accessed August 2024.

Active public supply wells that have experienced nitrate concentrations exceeding the MCL are located near the city of Corcoran (**Figure 2-2 Addendum**).

California Department of Water Resources (DWR) provides approximate well locations for all Well Completion Reports (WCR) they have on record. These records include location information for domestic wells drilled across the state. **Figure 2-2 Addendum** show the locations provided by DWR for the domestic drinking water wells in their WCR database, as well as the service area boundaries of PWSs available in the area. Publicly available PWS service area boundaries are compiled by the California Environmental Health Tracking Program (CEHTP).

Table E-1 in **Appendix E-Addendum** lists the four public supply wells from the DDW database that have experienced nitrate concentrations that have exceeded the MCL one or more times in their period of record for the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone. This table provides:

(a) Summary of the nitrate data available for the individual well, including:
    a. Date range of measurements;
    b. Number of measurements;
    c. Range of nitrate measurements; and
    d. Date of the most recent nitrate exceedance.

(b) Well system characteristics, including:
    a. Well status (active, inactive, etc.);
    b. Water system the well provides water to;
    c. Water system type (community, non-community non-transient, etc.);
    d. Number of connections; and
    e. Population served by that water system.

Table E-2 in **Appendix E-Addendum** provides information about the public water supply system that has experienced at least one well where nitrate concentrations have exceeded the MCL. This table provides:

a) Water system number (as identified by DDW);
b) Water system name;
c) Water system type;
d) Number of connections (which ranges from 1 to 135,693);
e) Number of wells in each well status category that have exceeded the nitrate MCL;
f) Population served by the PWS; and
g) If the PWS has an active impacted well, the population of potentially affected people served by the PWS.

2.2.2. Delivered Water Treatment Status of Public Water System Wells

Although there are some active wells that have been tested for nitrate with results indicating nitrate concentrations have exceeded the MCL of 10 mg/L nitrate as N, many PWSs have treatment facilities to remove nitrate or other contaminants prior to the water being delivered to consumers. Using the best information readily available, it is possible to find DDW sources of water for PWS that are categorized as "treated". This includes the following potential DDW-defined well status categories:

- AT – Active Treated: An active source which is sampled after any treatment.
- CT – Combined Treated: Combined sources which are treated.
- DT – Distribution System Sample Point, Treated: Sample point within the distribution system after treatment.
- IT – Inactive Treated: A source which is not in service for periods of one year or greater and which provides treated water to a system.
- ST – Standby Treated: A source which is used less than 15 calendar days per year, with periods not to exceed five consecutive days and which provides raw water which is sampled after treatment.

Even when a water system has a documented treated source according to DDW, this does not ensure that the water system treats its water for nitrate (a treated source may mean chlorination prior to being distributed, or possible treatment for other contaminants such as arsenic, manganese, or organic chemicals). PWS typically treat elevated nitrate by using blending, reverse osmosis (RO; membrane technology), ion exchange (IX), granular activated carbon (GAC), or biological or chemical nitrate removal via denitrification (less common). Out of the eleven (11) Public Water Systems located within any portion of the Management Zone, 4 of these systems have treatment capabilities as indicated by having a treated source in the DDW records. One of the 4 systems have some form of treatment that might treat nitrate (e.g., blending, reverse osmosis, granular activated carbon, ion exchange), as indicated by their source name mentioning nitrate.

Table E-3 Addendum in **Appendix E** summarizes the water system treatment information that is available from DDW. **Figure 2-3 Addendum** shows the Management Zone and the public supply wells that have exceeded the nitrate MCL; the circled water systems have treated water sources (according to well status data from DDW) that might treat for nitrate. The color of the circle indicates whether the water system has had a nitrate sample from a treated source that exceeds the MCL (greater than 10 mg/L as N).

2.3. Potentially Impacted Public Water Systems

Public supply wells impacted by nitrate have been identified, and information about treatment status has been summarized. Based on further investigation of public water systems with potential nitrate issues, it is possible to determine current compliance status. If a public water system is fully in-compliance with all Title 22 drinking water standards, these systems will not have any open violations filed with the State Water Board (accessible via Drinking Water Watch).

The Human Right to Water Data Portal (also through the State Water Board, https://www.waterboards.ca.gov/water_issues/programs/hr2w/, accessed August 2024) provides a GIS point shapefile of public water systems and their compliance status (as of November 2020). The Human Right to Water Portal map file represents information available on community and non-transient non-community public drinking water systems that are regulated by the State Water Board or Local Primacy Agency (LPA). Public drinking water systems included in this dataset have had or are in exceedance of a federal/state primary or secondary drinking water standard between January 2012 to November 2020. The State Water Board's regulatory authority does not include water systems that are defined as "state small water systems", "local state small water systems", or private domestic wells.

The Human Right to Water Data Portal was last updated in November 2020. Information about why public water systems may be out of compliance is available through individual investigation of each public water system through the Drinking Water Watch website. Using a combination of information gleaned from data summarized in Section 2.2, (public supply wells with nitrate data from the Division of Drinking Water), the Human Right to Water Data Portal, and the Drinking Water Watch website, the compilation of the compliance status of all public water systems in the Priority 2 Tulare Lake Subbasin portion of the KWA Management Zone can be seen in **Appendix E Table E-4 Addendum**. This table illustrates that there are no PWS currently out of compliance (as of August 2024) due to nitrate or nitrate plus a co-contaminant. There are five PWS that are currently out of compliance as of August 2024, two due to non-MCL related violations (such as not performing monitoring on an appropriate schedule). MCL exceedances cause violations in three PWS resulting in them being out of compliance. Contaminants causing compliance issues due to MCL exceedances include TTHM, HAA5, and coliform for those three PWS.

There are zero public water systems in the Priority 2 Tulare Lake Subbasin portion of the KWAMZ that are out of compliance due to nitrate conditions that exceed the safe drinking water limit. This means that there are zero residents people served by public water systems currently out of compliance (as of August 2024) due to nitrate contamination alone or due to nitrate PLUS additional co-contaminants.

2.4. Potentially Impacted Domestic Wells and Local Small Water Systems

Figures 2-2 Addendum illustrate the locations of potentially impacted domestic wells and areas of elevated nitrate (7.5 mg/L to 10 mg/L as N, and > 10 mg/L as N). These areas were used along with DWR's domestic well locations based on Well Completion Reports[10]. The approach to identify potentially impacted domestic wells and local small water systems utilizes Public Water System service area GIS map coverages, which are only available for larger systems. Public Water System boundaries are not the same as city limits, although most large cities do have their own Public Water System, with mapped service areas. Domestic wells located within the boundaries of a PWS were identified even though they may not be used for drinking water (**Figure 2-2 Addendum**). The map of recent ambient Upper Zone nitrate was used to estimate the number of potentially impacted domestic wells in the Management Zone.

There are approximately 114 domestic wells located within the PWS residential service areas in the Priority 2 Tulare Lake Subbasin portion of the KWA MZ. It is unknown whether any of these wells are still being used even though they are potentially in a PWS area[11]. The number of domestic wells outside of PWS service areas far outweighs those of unknown use status within PWS service areas. Smaller Public Water Systems do not have a mappable service area associated with them, simply a physical address and number of connections. The domestic wells that may be located within these smaller PWS that do not have a documented service area mapped boundary readily available to the public are conservatively counted in the domestic well count in the category of domestic wells outside known PWS boundaries.

To estimate the number of wells potentially impacted by elevated nitrate, domestic wells were placed into six groups:

- Group 1 - Groundwater in the Upper Zone with nitrate as N at or below 2.5 mg/L;
- Group 2 - Groundwater in the Upper Zone with nitrate as N above 2.5 mg/L as N and at or below 5.0 mg/L;
- Group 3 - Groundwater in the Upper Zone with nitrate as N above 5.0 mg/L and at or below 7.5 mg/L;
- Group 4 - Groundwater in the Upper Zone with nitrate as N above 7.5 mg/L and at or below the MCL of 10 mg/L;
- Group 5 - Nitrate as N exceeding the MCL of 10 mg/L in the Upper Zone; and

[10] Many domestic well locations provided by DWR's Well Completion Report database may not be exact locations, but rather many wells are plotted in the center of a 1-square mile township/range-section area. Therefore, several domestic wells may plot at the same location, and their locations are accurate up to one mile.
[11] Outreach to individual PWS to request accounting data may help identify residents within a PWS boundary that rely on private domestic wells rather than compliant metered water.

- Group 6 - Unknown category because the domestic well(s) are located where insufficient nitrate data exist in the Upper Zone to perform the spatial interpolation of ambient nitrate conditions.

The total number of wells inside and outside PWS boundaries was compared to the number of wells in each elevated nitrate category to provide an estimate of the percent of domestic wells potentially impacted by elevated nitrate in the groundwater. **Table 2-3 Addendum** summarizes the results of this analysis. This analysis has some inherent uncertainty associated with domestic well locations and the ambient nitrate map (which is adaptable and subject to change as additional Upper Zone groundwater nitrate data become available over time).

To estimate the population potentially impacted by residents relying on groundwater that may have elevated nitrate, 2010 census block data were mapped and joined with the ambient Upper Zone nitrate concentrations occurring outside of PWS boundaries. The population was summed for census blocks outside PWS boundaries and within the Management Zone for those areas with nitrate concentrations in the Upper Zone (using the six categories of nitrate concentrations described above). **Table 2-3** summarizes the results of this analysis.

The total estimated number of domestic wells located outside of PWS boundaries and the potential population associated with residents relying on groundwater that may have elevated nitrate concentrations are derived from two very different methodologies. Based on the estimated population in the potentially affected areas, it is likely that the estimated number of domestic wells located in those areas is underestimated based on information from DWR's WCR database.

Table 2-3 Addendum. Summary of Domestic Wells and Population with Estimated Upper Zone Nitrate Area Ca 2 Tulare Lake Subbasin KWAMZ)							
Estimated Upper Zone Ambient Nitrate (2010-2024)**	DWR Domestic Wells Located Outside PWS Boundaries		DWR Dom. Wells Within PWS Boundaries	DWR Total Domestic Wells in Management Zone	Domestic Wells in De-Designation Boundary		2023 (Outsi
	Domestic Wells Outside PWS Boundaries	% of Total Domestic Wells Outside PWS	Total Domestic Wells in P2 Tulare Lake Subbasin portion of KWAMZ Within PWS Boundaries	All Domestic Wells in Management Zone	DWR Domestic Wells Outside of PWS Boundary and Within De-Designation Boundary	DWR Domestic Wells Within PWS Boundary and Within De-Designation Boundary	Popu Outsic Boun
Group 1: <=2.5 mg/L as N	368	88.9%	46	414	4	0	10,
Group 2: >2.5 – 5.0 mg/L as N	359	95.0%	19	378	0	0	3,4
Group 3: >5.0 – 7.5 mg/L as N	136	96.5%	5	141	0	0	1,1
Group 4: >7.5 – 10.0 mg/L as N	65	97.0%	2	67	0	0	8(
Group 5: >10.0 mg/L as N	79	75.2%	26	105	0	0	1,(
Group 6: Unknown*	157	90.8%	16	173	74	1	3,1
Total (Outside PWS Boundaries)	**1,164**	**91.1%**	**114**	**1,278**	**78**	**1**	**20,**

*Domestic wells or Census Blocks are located in a "Gap Area" where insufficient Upper Zone nitrate data exist to do a spatial interpolation of ambient nitrate conditions.

**Ambient nitrate levels are based on best available groundwater nitrate data meticulously vetted at the time of analysis and are based on Upper Zone nitrate data from January 2010 to May 2024. These mapped nitrate levels are subject to change and are therefore adaptable, as new data become available.

Figure 2-1 Addendum. Ambient Nitrate Conditions in the Upper Zone Since 2010

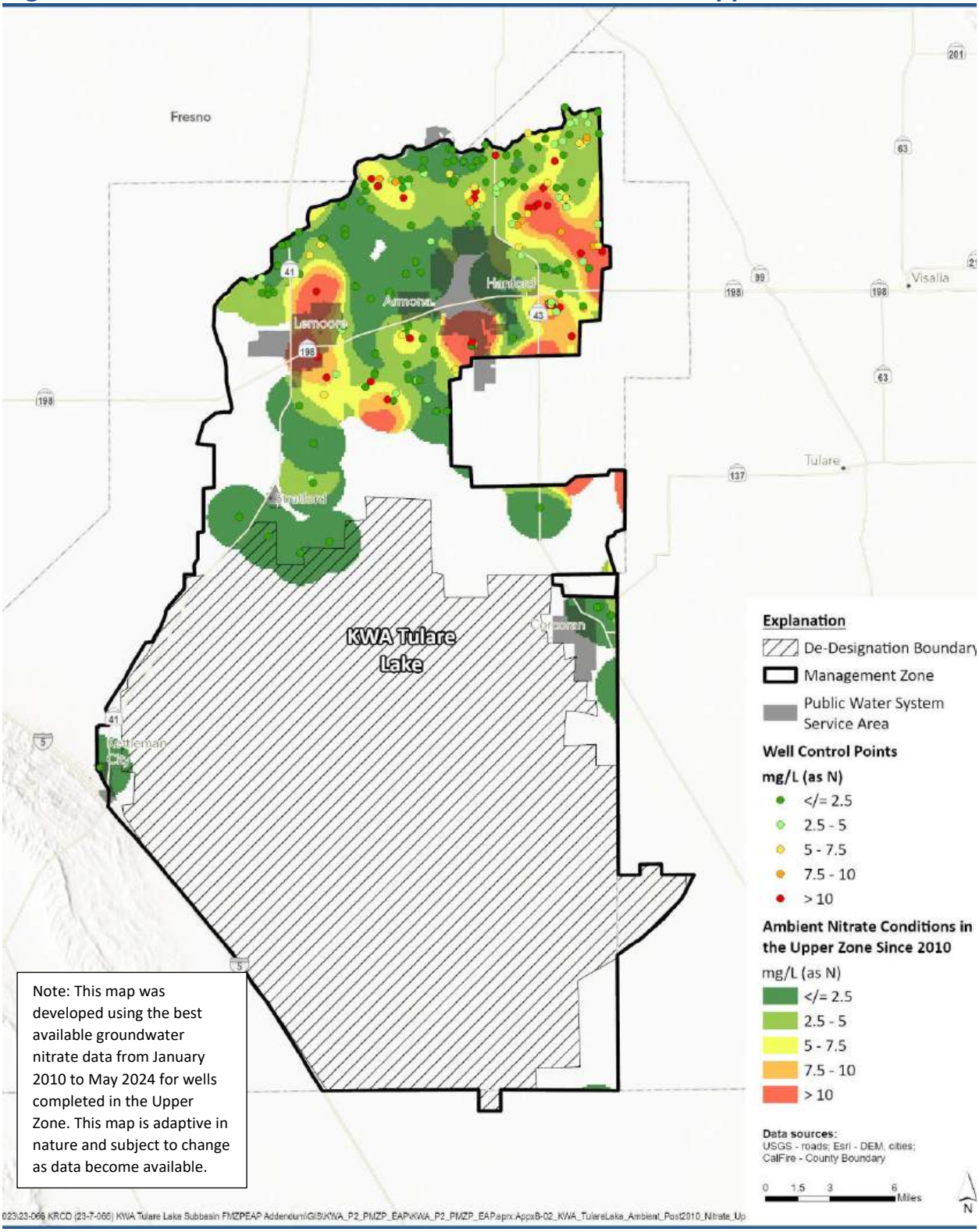


Figure 2-2 Addendum. Potentially Impacted Public Water Supply Wells and All Domestic Wells

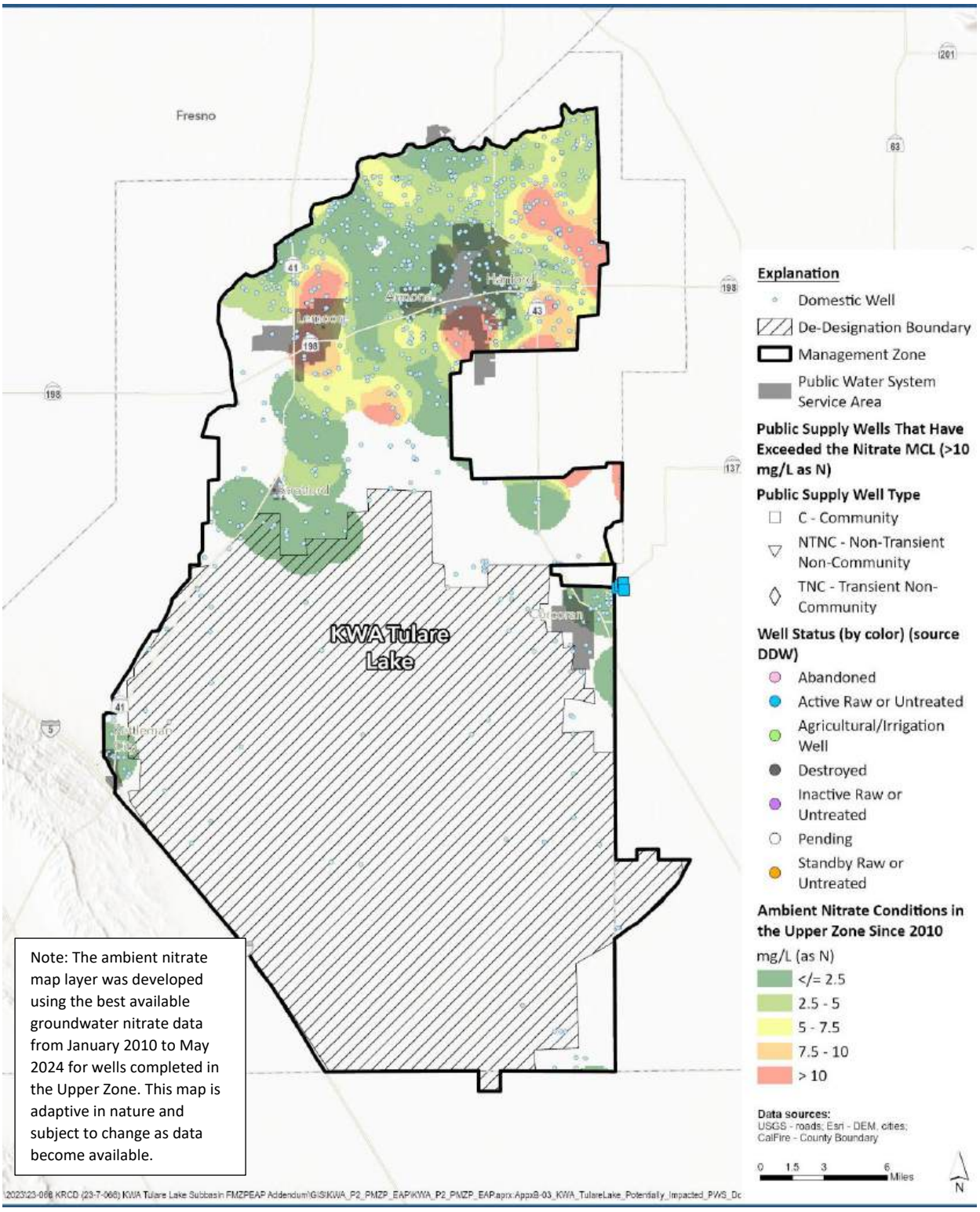


Figure 2-3 Addendum. Treatment Status for Water Systems that have Wells with Nitrate-Impacted Samples

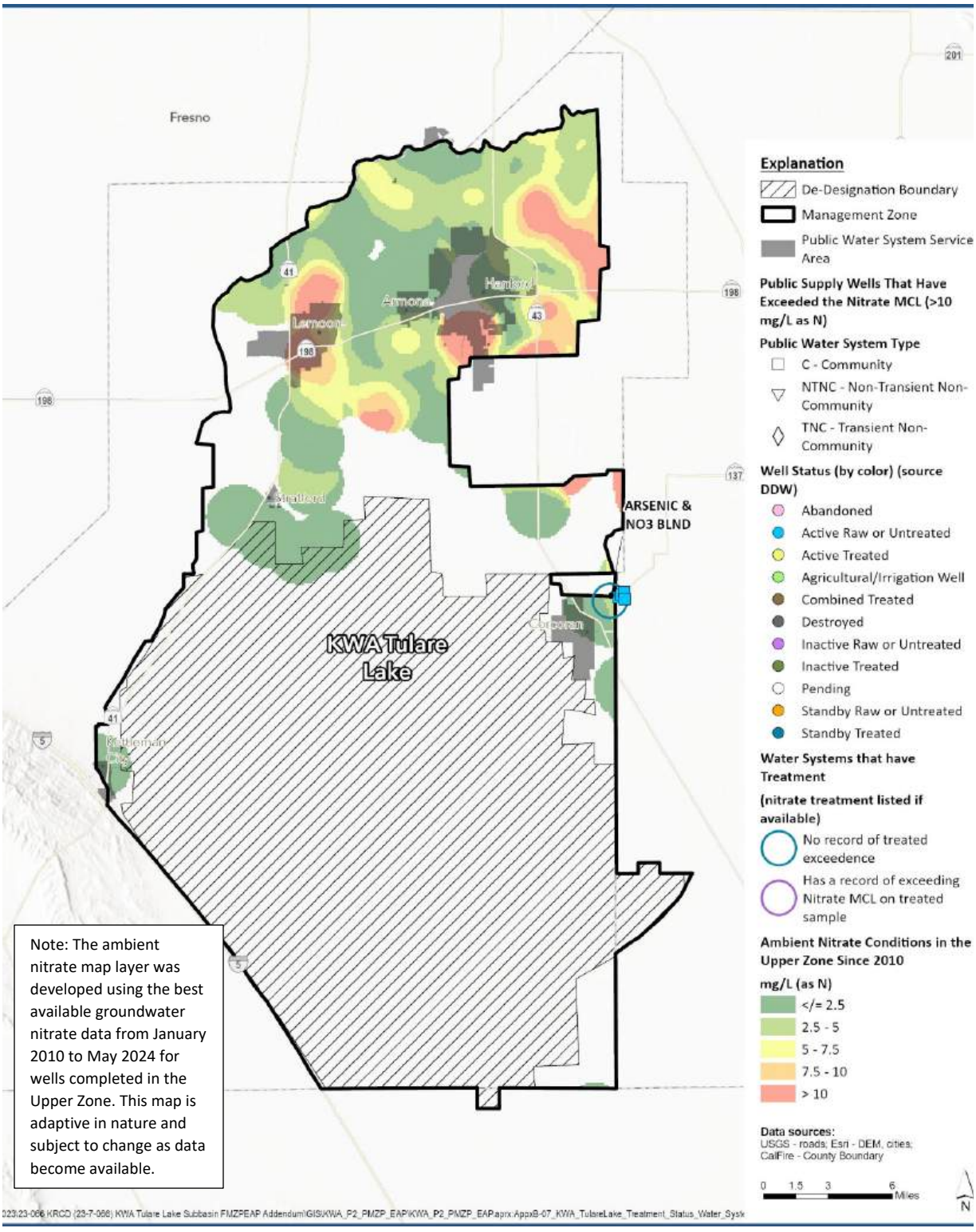
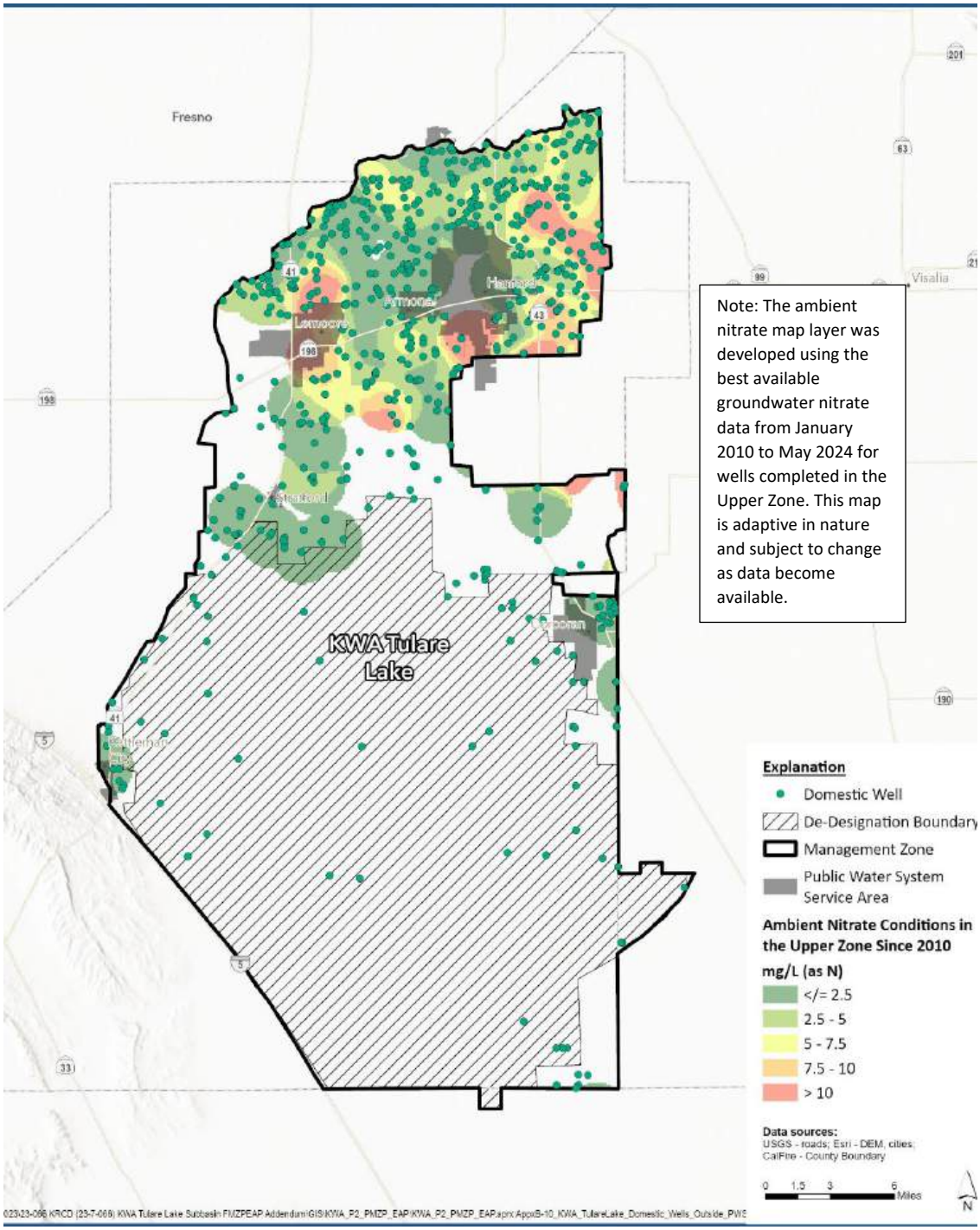


Figure 2-4 Addendum. Domestic Wells Located Outside Public Water System Areas in the Kings/Turlock Lake Management Zone



3. IDENTIFICATION OF POTENTIALLY AFFECTED AREAS

A key component of the EAP is identification of residents in the KWA that may be obtaining their drinking water from a domestic well impacted by nitrate levels > 10 mg/L-N. While the KWA conducts outreach to the entire Management Zone (Phase 1 and Phase 2 areas), the KWA will target some of its outreach efforts specifically to those identified as being most likely impacted by elevated nitrate, i.e., in areas where nitrate is most likely > 7.5 mg/L-N. This targeted outreach will occur at the same time the KWA is implementing general community outreach activities to the entire Management Zone. The process to identify residents in potentially affected areas will begin immediately upon EAP implementation using the steps described in the following subsections.

3.1. Process to Identify Affected Residents

Figure 2-1 Addendum identifies the portions of the KWA where nitrate conditions in the Upper Zone of the groundwater system are likely > 7.5 mg/L-N (see orange and red-colored areas). Regardless of these findings, any resident on a domestic well within the Management Zone may contact the KWA at any time to discuss the opportunity to participate in the Interim Replacement Water Program.

The KWA will implement the following stepwise process to identify residences that may have a domestic well. The information developed to identify domestic wells in nitrate-impacted areas provides a starting point for the work described below. The outcome of this process will be information needed to target EAP outreach to those residents most likely served by a domestic drinking water source that has high nitrate levels. As nitrate data are received from this EAP's well testing program, these data will be incorporated into the KWA's database and used to support periodic re-evaluations regarding whether targeted outreach should include additional areas.

Step 1: Data Development – Identify PWS Boundaries and Obtain County Parcel Data

Public databases that provide PWS boundary information are often not accurate. Therefore, in Step 1, the Management Zone will utilize publicly available PWS boundaries for mailing to Assessor Parcel Numbers (APN) and addresses. After the initial mailing using APN data, KWA will switch to rural residential mailing routes provided by the U.S. Postal Service for additional mailing.

To identify the parcels within the Management Zone, county assessor parcel GIS data will be requested. The GIS-based parcel data will be overlaid with the PWS data obtained above and groundwater nitrate water quality characterization data. The outcome will be a base map that identifies areas where nitrate is most likely > 7.5 mg/L-N and not served by a PWS.

Step 2: Remove Parcels Served by Nitrate Compliant PWS

Each PWS will be evaluated to determine if it is compliant with the nitrate water quality standard (Note: An initial evaluation was completed during development of the PMZP; the findings from this effort will be updated as needed). Parcels located within nitrate compliant PWS boundaries will be removed from further evaluation. If it is unclear whether the PWS is in compliance with the nitrate requirements, the associated parcels will be retained. After Step 2, all remaining parcels should meet the following criteria:

- Located within the Management Zone;
- Not served by a nitrate compliant PWS or status of compliance of the associated PWS is unknown; and
- Located in an area where the Upper Zone of the relevant groundwater subbasin potentially has elevated nitrate levels > 7.5 mg/L-N.

Step 3: Establish List of Potentially Affected Residences

GIS-based parcel information (APN or address) will be exported into an Excel spreadsheet. The resulting spreadsheet will be provided to a third-party vendor to generate a mailing list. The outcome will be a preliminary mailing list to be used for targeted resident outreach activities, as described below.

Step 4: Identify Targeted Residences Subject to Existing Well Testing Program

The Irrigated Lands Regulatory Program (ILRP) required that growers in the Tulare Lake Basin begin monitoring domestic (drinking water) wells on their enrolled parcels for nitrogen in 2020. The purpose of this monitoring is to identify drinking water wells that have nitrate concentrations > 10 mg/L-N and notify well users of the potential for human health risks if the water is used for drinking or cooking.

Under Step 4, the preliminary mailing list created under Step 3 will be evaluated to determine if any residences included on the target list have already had their well tested under the existing well sampling program. For residences identified under this step: (a) if the well test result is > 10 mg/L-N, the Management Zone will include them on the targeted outreach mailing list to inform them of the EAP and interim replacement water options available to them (if replacement water is still needed); or (b) if the test result is ≤ 7.5 mg/L, then they will not be targeted for direct outreach under the EAP. However, their well will continue to be re-tested as required under the ILRP (see also Section 5.3).

3.2. Process for Non-Compliant Public Water Systems

Section 2.3 identified PWSs located within the KWA that are currently non-compliant with the nitrate drinking water standard. During EAP implementation, the KWA will prioritize and target

those that rely on domestic wells, and for the Public Water Systems (PWSs), will evaluate on a case-by-case basis the role of the Management Zone. This support would also apply to other PWSs found to be non-compliant with nitrate standards during EAP implementation (i.e., those not already identified in Section 2.3).

4. COMMUNITY OUTREACH PROGRAM

Section 1.2 above summarized the community outreach activities completed to support the development of this EAP. Community outreach will continue during EAP implementation to obtain additional community input. The outcome of these efforts may result in modifications to this EAP in the future (See Section 6.4.2 and process to amend the EAP).

4.1. Information Sharing

The Management Zone shares information with stakeholders, including community residents, with interests in the implementation of this EAP through several mechanisms, as described in the following subsections.

4.1.1. Management Zone Website

The KWA maintains a website (https://kingswateralliance.org) that serves two key purposes, including providing a: (a) mechanism for residents to notify the KWA that they would like to receive notifications of upcoming outreach events and mailouts of program information; and (b) place to post the following information:

- Planned community outreach-related activities and how to participate.
- Schedule for implementation of EAP's interim replacement water program.
- Information regarding how to have your well tested for nitrate at no cost to the resident.
- Interim Replacement Water Program information, including, e.g., (1) how to receive bottled water deliveries at your home; (2) how to have a POU System installed in your home; and. (3) locations of and procedures to use the existing operational water fill stations and information on the development status of any new water fill stations in the area;.
- Informational materials such as fact sheets, community flyers or other materials that can be used individually or shared with others.
- Frequently Asked Questions (FAQs) regarding relevant Nitrate Control Program activities, e.g., phasing of EAP implementation and Management Zone development.

4.1.2. Materials Development & Distribution

The KWA will prepare informational materials on an as needed basis to support implementation of this EAP Addendum (e.g., FAQs or "how to" instructions for topics such as how to have your well tested, how to request bottled water delivery or installation of a POU System, or how to access and operate a water fill station). These materials will be posted on the website and, as needed, provided to stakeholders within the KWA to facilitate information sharing. Any posted documents will include both English and Spanish translations when feasible. Other language translations will be developed, if the need is identified.

4.2. Community Outreach Activities

The KWA will conduct periodic community outreach meetings to support EAP implementation (see Section 6.1 for implementation schedule). Upcoming meeting schedules will be shared with the community during outreach activities and through website postings.

4.2.1. General Community Outreach Meetings

General community outreach meetings were held during development of this EAP (information will be provided in both English and Spanish to the maximum extent practicable; other language support will be provided if determined necessary). Opportunities to participate in these meetings will continue during EAP implementation. KWA will hold a combination of hybrid and virtual community outreach meetings depending on the need/purpose of the meeting and the residents' input. **Table 4-1** summarizes the activities that have been and will continue to be implemented by the KWA to conduct each meeting. The content of each meeting may vary, but the primary purpose of these meetings is to inform the community of the following:

- Phasing of EAP implementation across the KWA;
- Overall status of implementation of EAP activities: under Phase 2 in the Tulare Lake Subbasin and ongoing implementation of the Interim Replacement Water Program under the MZIP in the Kings Subbasin;
- Opportunity for residents with a domestic well with nitrate at a concentration greater than 10 mg/L-N to participate in or access services from the interim replacement water programs;
- Obtain input from the community on how implementation of the EAP can be improved;
- Have discussions regarding potential long-term drinking water solutions as those planning efforts increase;

- Status of next steps in the Nitrate Control Program, e.g., development of Final Management Zone Proposal and Management Zone Implementation Plan in the Priority 2 area; and
- Schedule for subsequent meetings and upcoming milestones.

The KWA will notify the public of EAP-related community outreach events (at a minimum in both English and Spanish) through the use of one or more of the following methods:

- Email to residents that have registered with the KWA to receive information.
- Postings on the KWA website and the websites of organizations that have partnered with the KWA to share information.
- Social media networks, e.g., Facebook or Nextdoor.
- Direct mail to KWA residents, using cost effective methods.
- Public announcements, e.g., through newspaper notices in local and regional media or radio advertisements in the local area.
- Requests to other entities to facilitate outreach efforts, e.g., civic organizations, school and community service districts or houses of worship.
- Others, as determined by the KWA.

Table 4-1. Process to Conduct Community Outreach Meeting	
Task	Primary Activities
1. Address meeting logistics (if meeting is virtual, 1a will not be necessary)	a. Secure public venue for in-person meeting b. Prepare and send out "save the date" meeting notice at least 10 days in advance of the meeting date (English and Spanish); post same information on the website c. Send out follow-up meeting notice in English and Spanish within 3-4 days of the meeting date d. Send out meeting notice flyers to other supporting stakeholders to email their internal email list, post on bulletin boards or post on their websites e. Secure necessary translation services for meeting
2. Prepare meeting materials	a. Prepare, as needed, meeting agenda, handouts, PowerPoint presentation materials specific to the purpose of the meeting b. Bring copies of any Management Zone informational materials for distribution at the meeting (if in-person)
3. Post follow-up information as needed after outreach meeting	a. Post meeting presentation materials and handouts to Management Zone website (Note: If meeting was virtual, also post a recording of the meeting on the website)
4. Follow-up directly with meeting participants after meeting, as needed	a. Follow-up on action items from the meeting b. Respond to post-meeting emails/inquiries

4.2.2. Targeted Resident Outreach

Section 2 identifies areas within the KWA where nitrate concentrations in the Upper Zone of the underlying groundwater are most likely > 10 mg/L-N (e.g., see Figure 2-1). The KWA has been and will continue to conduct additional outreach (in addition regular, ongoing outreach to the entire Management Zone) to target residents on domestic wells in these areas. Outreach in the Priority 1 area (under Phase 1) will continue as described in the MZIP. In the Priority 2 area targeted outreach will occur as noted in the EAP implementation schedule in Section 6.1. Section 3.1 describes the process for identifying the residents on domestic wells within Priority 2 target areas for the purpose of developing a targeted mailing list for direct residential outreach.

The KWA will send the following information to each household on the targeted residential outreach mailing list (at a minimum, information will be provided in both English and Spanish):

- Cover letter that explains the EAP and how its implementation may apply to their residence.
- Educational materials regarding nitrate in drinking water as a potential health concern.
- Provide information about options available to obtain interim replacement water and, if needed, have their domestic well tested for nitrate (these materials will make clear that where well testing is needed it will be done at no cost to the resident).
- Information about opportunities to participate in EAP implementation and development of long-term drinking water solutions.
- Contact information for a KWA representative and website address where the resident can obtain more information (KWA will have Spanish-speaking representative available, as needed). A KWA representative will be available to address questions during day and evening hours.

The KWA will conduct additional outreach to targeted residents on domestic wells that have not responded in some manner to the initial mailout of information. Additional outreach to non-respondents may include a second mailout of information (unless previous mailed information was returned as undeliverable). The KWA will also look for additional opportunities to share information at locations where people gather in the local area, e.g., local community centers, schools, houses of worship, or farm labor centers.

4.3. Coordination with Non-Dischargers

The KWA will coordinate with entities that are not dischargers subject to the requirements of the Nitrate Control Program but have a potential role in ensuring residents have access to safe drinking water. This collaboration can help the KWA:

- Identify potentially affected residents to target for outreach;
- Implement the Interim Replacement Water Program;
- Support outreach activities to all residents within the Management Zone;
- Prepare outreach materials tailored to the constituencies associated with non-dischargers;
- Inform other interested parties of EAP-related activities ongoing in the area, e.g., Kings County Boards of Supervisors, Kings County Public Health Departments, other appropriate County departments, trade groups, local community organizations, etc.
- Keep the Central Valley Water Board and DDW informed (outside of regular EAP status reports) of any issues or concerns that may be developing through program implementation;

- Apply for grants that support not just implementation of the Nitrate Control Program but other area programs to ensure the community has safe drinking water; and
- Develop long-term solutions for providing safe drinking water to residents in the Management Zone.

Appendix A has a list of stakeholders including community residents that the Management Zone has been coordinating with during EAP development and implementation. This list will be added to as other stakeholders are identified over time. During EAP implementation all entities on the interested parties list will continue to receive notices of EAP-related activities and will be invited to all community outreach meetings.

5. INTERIM REPLACEMENT WATER PROGRAM

This section describes the specific early actions the KWA will implement in the Priority 2 areas per the EAP schedule to provide interim replacement water for residents who are dependent on groundwater from domestic wells that supply water that has a nitrate concentration of > 10 mg/L-N. These actions are ongoing in the Priority 1 area (Kings Subbasin) through the MZIP (Kings Water Alliance 2023). Early actions will begin in the Priority 2 areas within the KWA when EAP implementation begins within 60 days of submittal of this EAP Addendum, or by February 26, 2025, unless the Central Valley Water Board notifies the KWA that this EAP Addendum is incomplete. These actions are considered temporary, but they will remain available until permanent sources of safe drinking water become available within the KWA.

5.1. Interim Replacement Water Program Options

The Interim Replacement Water Program has two key components that will be implemented in parallel to meet the needs of as many residents as possible and as quickly as possible:

- Replacement water options designed to meet individual household needs including: (a) bottled water delivery; and (b) installation of a POU System in the home (where appropriate).
- Implementation of water fill stations to meet additional community needs.

The sections below describe each of these program components and how they are being implemented through the EAP. Section 6 provides the schedules for implementation of this program in the Priority 2 areas within the Management Zone. Activities within the Priority 1 areas are now guided by the MZIP developed for that area (Kings Water Alliance 2023).

5.1.1. Bottled Water Delivery Program

The KWA will offer a bottled water delivery program to meet household-specific water needs. Section 5.2 below describes how a residence can participate in this program. In general, residents participating in the program will:

- Receive regular deliveries of bottled water from the KWA's bottled water vendor at no cost to the residents.
- Establish any necessary agreements and schedules with the KWA's vendor(s) to implement service at their residence. It is anticipated the vendor providing the bottled water service will: (a) provide a hand pump to the resident at no cost during the initial delivery; (b) deliver 5-gallon water bottles on a regular schedule; and (c) pick-up the empty bottles (Note: Smaller sized bottle options, e.g., 3-gallon, may also be available).
- Receive an initial volume of 60 gallons/month of water at their home. Through coordination with the KWA, this initial volume may be increased or decreased based on the needs of each household.

As noted above, each resident is responsible for establishing any necessary agreements with the vendor and complying with the terms and conditions of any signed agreements. However, the KWA will assist residents as needed with any questions or issues that arise during the establishment of the agreement with the KWA's vendor.

5.1.2. Point of Use Treatment System Program

The KWA may offer a program to install and operate a POU System in a residence at no cost to the resident to meet household-specific water needs. In general, a residence participating in this program would have a POU System installed at an appropriate location in the residence to provide the household with water for drinking and cooking (e.g., under the kitchen sink). Section 5.2 below describes how a residence can participate in this program.

Every request for POU System installation will require careful evaluation to be sure the appropriate treatment system can be installed in the household. In addition, a POU System cannot be considered for installation without additional water quality analyses that test for the full range of water quality contaminants known to potentially occur in groundwater in the subbasin. In some cases, for example due to a lack of necessary data or site-specific circumstances a POU System may not be a viable interim drinking water option for the residence. Reasons why installation of a POU System may not be a viable option include, but may not be limited to:

- Inadequate incoming pressure to the treatment system;

- High nitrate levels (typically > 20 mg/L-N) that limit the effectiveness of the POU System to treat the water to a safe level;
- Presence of other contaminants besides nitrate that limit the effectiveness of the POU System and/or are not treatable through a POU System;
- Presence of bacteria from the drinking water well;
- Inadequate location for the POU treatment system waste stream disposal; and
- Inability to ensure that a robust POU System service plan can be implemented at the residence.

To support the POU System Program, the KWA will coordinate with DDW and the vendor(s) as needed to assist with POU System technical issues. If the technical problems are unresolvable, the residence may alternatively participate in the bottled water delivery program.

Where a POU System is a feasible interim replacement water option, the KWA's POU System vendor(s) will work with the resident to install the treatment system. If the resident is not the owner of the residence, the process to install and maintain the POU System will require written approval of the property owner.

Once approved, the resident will establish any necessary agreements (and schedule) with the KWA's vendor(s) to install and maintain a POU System at the residence. It is anticipated that services will include: (a) installation of the treatment device; (b) initial water testing to ensure the device is removing nitrate down to safe levels as expected; and (c) periodic maintenance of the POU System (as required by the manufacturer). The cost of these services will be borne by the Management Zone as long as the EAP is effective or until an alternative option is provided to ensure the residence has drinking water safe from nitrates. If a resident chooses to continue the use of the POU treatment system, even where permanent drinking water solutions have been made available, the resident will be responsible for paying maintenance services. If the resident does not allow required maintenance and monitoring of the POU System to take place (as per the vendor agreement), then the KWA has the discretion to modify the approved interim replacement water option from a POU System to bottled water delivery.

As noted above, each resident is responsible for establishing any necessary agreements with the vendor and complying with the terms and conditions of any signed agreements. However, the KWA will assist residents as needed with any questions or issues that arise during the establishment of an agreement with the KWA's vendor.

5.1.3. Water Fill Station Program

5.1.3.1. Description

A water fill station is an independent water-dispensing facility connected directly to a PWS that meets safe drinking water standards and is constructed and operated as required by state and federal regulations (i.e., as required to meet implementation of the California Safe Drinking Water Act as defined in the California Health & Safety Code and Titles 17 and 22 of the California Code of Regulations), as applicable. Three water fill stations are currently operational within the KWA (**Figure 5-1**) (https://kingswateralliance.org/safedrinkingwater/fillstationshttp://www.kingswateralliance.org/):

- *Kerman, CA* – This station, is located in the northwest portion of the Priority 1 Kings Subbasin at the Kerman Community Center (15101 W Kearney Blvd, Kerman, CA 93630).
- *Dinuba, CA* – This station is located in the southeast portion of the Priority 1 Kings Subbasin at 517 E El Monte Way, Dinuba, CA 93618.
- *Hanford, CA* - This station is located in the northern portion of the Priority 2 Tulare Lake Subbasin at the KART Transit Center (504 W. 7th Street, Hanford, CA 93230).

In addition to the three stations above already located within the KWA, two water fill stations are also operating within the boundary of the Kaweah Water Quality Coalition along the east/southeast side of the KWA. One of these locations is only a few miles east of the KWA boundary, at the southwest corner of Avenue 229 and Road 48 in Okieville (see **Figure 5-1**). The Kaweah Management Zone provides additional information about this water fill station on their website (https://kaweahwater.org).

The existing fill stations were developed in the KWA in response to the State Water Board's Office of Enforcement's Replacement Water Settlement Agreement (RWSA) with three water quality coalitions (Kings River Water Quality Coalition Authority, Kaweah Basin Water Quality Coalition and Tule Basin Water Quality Coalition) (State Water Board 2019). The RWSA required the coalitions to "install drinking water kiosks" to ensure safe drinking water for individuals who may be impacted by nitrate contamination from nearby drinking water wells. The settlement agreement required installation of three water fill stations within the Kings River Water Quality Coalition with each station expected to serve drinking water to up to 3,000 residents (State Water Board 2019).

The fill stations may be used by anyone to fill water bottles up to five gallons in size as often as necessary at no cost to the user. Water stations may not be the preferred solution for some residents to obtain drinking water; however, they do serve as a front-line solution to reach as many residents as possible while other solutions are implemented. Moreover, while fill stations

are being developed to address nitrate concerns, their presence in the community can provide other local benefits, including for example:

- Safe drinking water source for homeless;
- Source of water for farm labor contractors to fill up containers to provide safe water for field workers;
- Alternative water source for residents who are:
  - Reliant on wells that may dry up during significant periods of drought; and
  - Who, because of privacy concerns, do not respond to the KWA's offers to provide bottled water delivery or POU System services.

Under the EAP, the KWA may establish additional fill stations that target areas with the following characteristics:

- Results of community outreach activities indicate the need and support for additional fill stations;
- Residents are not served by a nitrate compliant PWS;
- Nitrate concentrations in the underlying groundwater are most likely > 10 mg/L-N; and
- Area is not already served by an existing water fill station (see **Figure 5-1 Addendum**), including those in an adjacent Management Zone.

If additional fill stations are planned for development, the KWA will work with the community through its outreach process to identify the best areas to target for installation of the stations as needed, where it fits operational standards and requirements.

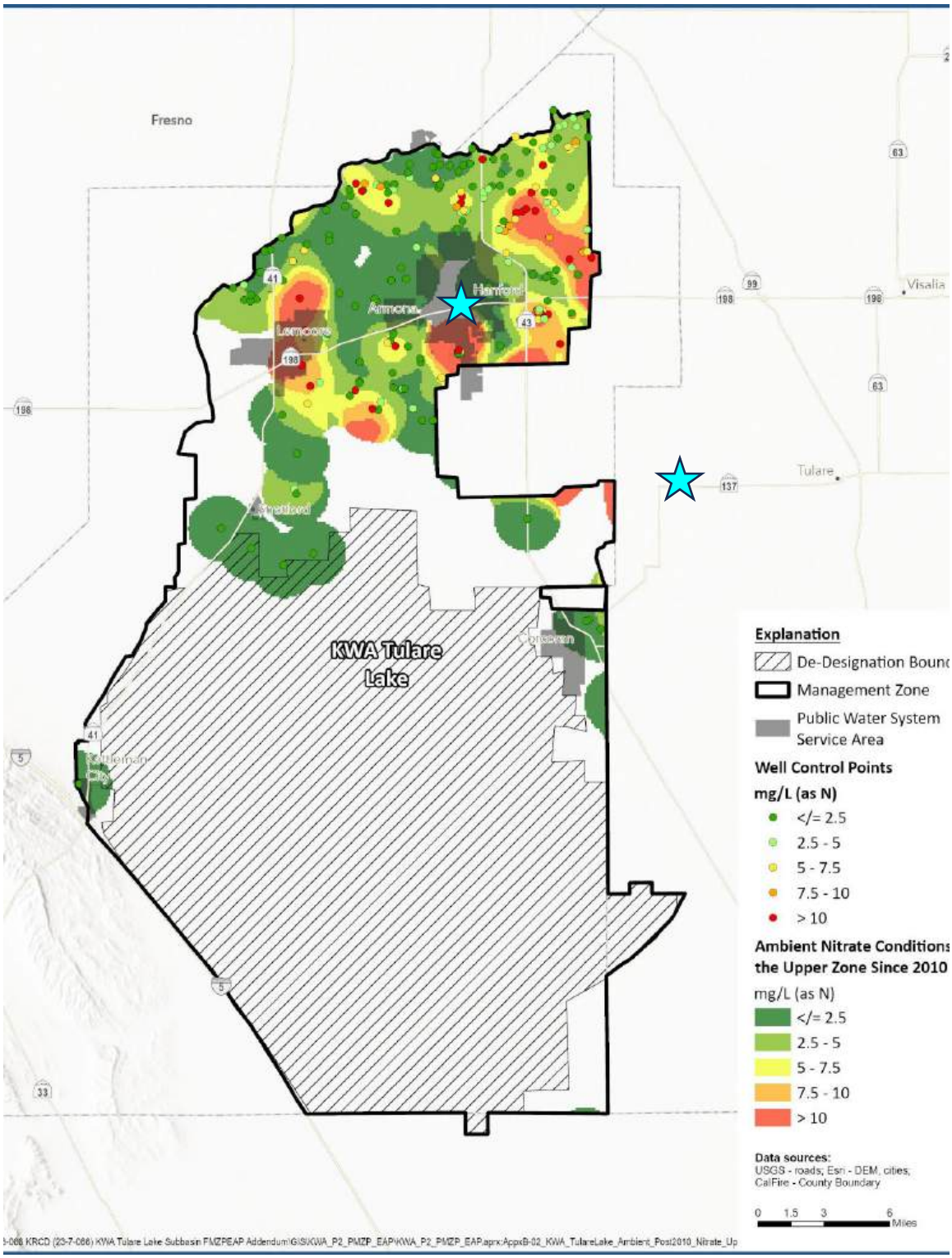


Figure 5-1 Addendum. Existing Water Fill Station Locations in Proposed Kings Water Alliance and Kaweah Management Zones Relative to Nitrate

Concentrations in Groundwater in the Kings Water Alliance Management Zone.

5.1.3.2. Siting and Use Criteria for Identifying a Water Fill Station Location

It is anticipated that any additional fill stations developed by the KWA will be new installations. However, if the opportunity becomes available in the Management Zone, the KWA will consider partnering with entities that already have an operational fill station. Where such a partnership can be established, KWA will work with the entity to make any modifications to the facility necessary to support the fill station requirements under this program and compensate the owner for water used.

When identifying a new location to establish a water fill station, the KWA will look for locations that meet as many of the following criteria as possible:

- It is within an area that the community has indicated would benefit from a water fill station.
- KWA is able to obtain permission to install and operate a filling station on land or property owned by a third party.
- Fill station receives its water from an existing PWS that (a) complies with all regulatory requirements to provide safe drinking water; and (b) has sufficient capacity to dispense water at a reasonable rate to fill up multiple containers (up to five-gallons) within a short period of time. The minimum targeted rate is 1.5-2 gallons/minute, consistent with California regulations for faucets in new residential construction.
- The location is within an area where the public already goes to meet other family needs, e.g., at a governmental facility, shopping center, school or house of worship.
- Establishment of the fill station is not expected to create any safety issues for users, e.g., location is in a well-lit and well-trafficked area.
- Vehicle access/parking is available close to the fill station (to minimize distance a water bottle must be carried) and sufficient in area to not cause any unnecessary congestion.
- To the extent practicable, the location meets the goal to have a water fill station open 24 hours/7 days per week.
- Operation of the fill station does not create noise impacts to neighboring properties, especially during nighttime hours.

Through its existing program to establish water fill stations, the Kings River Water Quality Coalition has developed significant experience identifying and developing locations for these stations. This experience has shown there are challenges to finding viable locations that meet all of the above the criteria. Regardless, the KWA will work to identify sites that most closely meet these criteria.

5.1.3.3. Implementation Approach

Table 5-1 summarizes the key steps/activities that the KWA will implement to install and operate a water fill station. Consistent with the implementation of existing fill stations, residents that use the fill station will need to provide their own bottles to fill at the facility. Information regarding how the user should clean and sanitize water bottles and store them is provided here: https://kingswateralliance.org/safedrinkingwater/fillstations.

Table 5-1. Process to Develop Water Fill Stations	
Task	Primary Activities
1. Establish locations for installation of additional fill stations	a. Complete research to identify viable locations b. Conduct site visits; coordinate with land/property owners c. Make final selection of site location
2. Establish agreements with land/property owner of selected site and water provider for the station	a. Establish any necessary agreements to secure use of the site for installation and operation of a fill station b. Establish water usage agreements with water provider, as needed
3. Complete site design and obtain necessary approvals and funding to install new fill station	a. Prepare the station design (including operational signage) and construction-related documents) b. Obtain any required approvals/permits to implement the project (as required by local or state regulations)
4. Establish operational plans, as needed	a. Prepare sampling analysis plan for testing (or rely on existing plans used for other water fill stations) b. Prepare operation and maintenance (O&M) procedures including cleaning procedures as needed to operate the station
5. Construct the new filling station	a. Complete construction of the facility (including installation of signage) and obtain any necessary approvals to open the facility to the public
6. Conduct outreach to the local community to inform the public of the availability of the fill station	a. Conduct outreach as described in Section 4 b. Notify the community when the fill station is open c. Notify the Central Valley Water Board when the fill station is open
7. Manage operating site, conducting necessary maintenance and gathering usage data	a. Gather data on usage b. Respond promptly to repair needs to minimize time when water not available c. Conduct routine maintenance

5.2. Participation in Bottled Water or POU System Programs

Table 5-2 summarizes the steps or activities to be carried out by the KWA to implement the bottled water and POU System programs. Residents in Priority 1 areas of the KWA have been and may continue to request participation during MZIP implementation for either of these interim replacement water options by: (a) contacting the KWA directly by phone (559) 549-6747; (b) sending an email to info@kingswateralliance.org; or (c) submitting an eligibility survey available on the KWA website (https://kingswateralliance.org/eligibilty/) which can be submitted by mail or online to the KWA (**Appendix D**). Priority 2 areas within KWA will be able

to begin requesting participation during Phase 2 EAP implementation. The KWA will confirm that the resident submitting the request meets the following three eligibility criteria:

1. Residence requesting services is a resident on a domestic well within the KWA and does not receive drinking water from a PWS where state- and/or county-mandated testing indicates the PWS complies with the nitrate water quality objective.
    - For residents requesting service that receives drinking water from a PWS that is non-compliant with the nitrate drinking water standard, where appropriate, the KWA will prioritize and target those that rely on domestic wells, and for the Public Water Systems (PWSs), will evaluate on a case-by-case basis the role of the Management Zone.
2. If the KWA contracts with a vendor(s) to provide the requested bottled water or POU System services and the vendor(s) requires the resident sign an agreement to receive these services, the resident must be willing to sign and meet the terms and conditions of the agreement.
3. Current drinking water source at the residence has a nitrate concentration that is above the safe drinking water level of 10 mg/L-N (see Section 5.3 below for information regarding how to have your well tested).

Residents participating in the bottled water or POU System programs will receive periodic check-ins (e.g., via email or telephone) from the KWA after services are initiated. These check-ins are provided to verify the KWA's approved vendor(s) are providing services as contracted. In addition, check-ins provide the opportunity for the KWA to (a) the answer questions from residents; (b) verify sufficient bottled water is being delivered to the residence; and (c) evaluate if the POU System is receiving proper maintenance.

Table 5-2 Process to Request Participation in Replacement Water Programs

Task	Primary Activities
1. Establish agreements with vendor(s) to provide services to residents	a. Select vendor(s) to provide the following services: (a) bottled-water delivery; (b) POU System installation and maintenance; and (c) well testing. b. Establish procedures to (a) connect vendor(s) with residents (including understanding regarding agreements residents will need to establish with the vendor); and (b) process payments for services rendered.

Table 5-2 Process to Request Participation in Replacement Water Programs	
Task	Primary Activities
2. Conduct targeted residential outreach in Management Zone (see Section 4.2.2)	a. Send direct mailout to target areas (areas most likely to have nitrate concentrations in groundwater > 10 mg/L-N) informing them of the availability of all replacement water programs active in the KWA and how to participate in any program. b. Use other mechanisms described in Section 4 to notify the community at large of the availability of replacement water programs and how to participate in any program.
3. Verify residents requesting bottled-water delivery or POU System installation meet eligibility Criteria 1 and 2 (see Section 5.2)	a. Verify the resident is located within the Management Zone. b. Verify the resident is willing to establish any required agreements with the Management Zone's vendor(s) providing the requested services.
4. Unless acceptable nitrate data are already available (see Section 5.3.1), conduct well testing to verify eligibility with Criterion 3	a. Obtain well water sample in coordination with the resident (and property owner, as needed) to test the drinking water source to the residence; notify resident of well test results. b. If well test result indicates the nitrate concentration is > 10 mg/L-N, the KWA will discuss options for replacement water with the resident, including the pros and cons of each approach. The KWA will connect the resident or property owner with the appropriate vendor (bottled water delivery or POU System) to initiate replacement water services if either of these replacement water options are selected. c. If well test result indicates the nitrate concentration is ≤ 10 mg/L-N the resident and property owner will be notified that (a) the bottled water delivery or POU System options are not available to them through the KWA at this time; and (b) a follow-up well test may be offered, (i.e., if the test result was ≥ 7.5 and ≤ 10 mg/L-N (see Section 5.3.2)
5. Conduct follow-up with residents receiving bottled water deliveries	a. Check-in with residents receiving services to verify: (a) monthly delivery volume is sufficient for household; modify as needed; and (b) service is being provided by vendor(s) as contracted. Check-ins will occur as follows: i. Within one month of initiation of service; ii. Approximately six months after initiation of service; and iii. Annually

Table 5-2 Process to Request Participation in Replacement Water Programs	
Task	Primary Activities
6. Conduct follow-up with residents with POU System	a. Check-in with residents receiving services to: (a) verify POU System is operating; (b) answer any questions regarding POU System O&M; and (c) verify resident is having system maintained as required by the agreement established with the vendor(s). Check-ins will occur as follows: i. Within one month of initiation of service; ii. Approximately six months after initiation of service; and iii. Annually
7. Conduct follow-up outreach to residents or property owners with a nitrate test result that was ≤ 10 mg/L but ≥ 7.5 mg/L-N	a. Provide opportunity for residents or property owners to have well re-tested per procedures provided in Section 5.3.2.

5.3. Residential Well Testing Program

The KWA established its residential nitrate well testing program in Priority 1 areas during Phase 1 EAP implementation. KWA will continue to implement this program in these areas through implementation of the Priority 1 MZIP (Kings Water Alliance 2023). During Phase 2 residents in the Priority 2 area of the Management Zone may request to have their well sampled for nitrate. Well testing will be provided to rural residents on domestic wells that live within the Management Zone boundary, are not currently receiving drinking water from a nitrate-compliant PWS and receive their drinking water from a well. In addition, well testing will be provided to residents that live outside the Management Zone boundary *where* the resident is located immediately downgradient from Management Zone dischargers within their area of contribution. The KWA will only test the well that provides water to the residence. If the resident does not know the source of water to the household, e.g., whether the household receives nitrate-compliant water from a regulated PWS, KWA representatives will work with them to evaluate this question.

A well test is necessary to verify eligibility to receive bottled water delivery or installation of a POU System, as described in the previous section. Section 5.2 above describes the various ways a resident can contact the KWA regarding getting a well test conducted. The following sections describe the KWA well-testing program.

5.3.1. Initial Well Test

If the nitrate concentration of the well water is unknown, the KWA will coordinate with the residence to have the water tested as soon as possible at no cost to the resident. If the resident is not the owner of the property, permission from the property owner is necessary to have the well tested (see http://kingswateralliance.org/eligibilty/ for well testing information). The resident may also provide the results from a previous well test if the water sample was collected within the last five years using standard methods for well sampling, and the nitrate concentration was analyzed using an approved Environmental Protection Agency (EPA) method by a laboratory certified under the California Environmental Laboratory Accreditation Program (ELAP).

It is anticipated that the resident will initiate contact with the landowner to obtain permission to have a well tested. However, if requested by the resident, the KWA will follow up and obtain permission from the landowner on behalf of the resident. If the KWA learns that the resident is unable to obtain permission from the landowner or the landowner is not responsive to requests to obtain permission, the KWA will work with the Central Valley Water Board staff to address the issue.

Well sampling carried out by the KWA will be conducted using standard well sampling procedures consistent with sample methods used to implement other well testing programs in the area, e.g., as described in Central Valley Water Board's ILRP Drinking Water Well Program FAQ guidance (Central Valley Water Board 2020). All samples will be analyzed for nitrate using EPA-approved methods at an ELAP certified laboratory.

Residents and property owners will be notified of the results from the well test following receipt of the results from the laboratory:

- If the results indicate nitrate levels are > 10 mg/L-N, the resident and property owner will be contacted directly via telephone or email within 24 hours of the KWA receiving the test result. The KWA will discuss options for replacement water with the resident, including the pros and cons of each approach. If bottled water or POU System service is selected, the KWA will coordinate with the resident and property owner to initiate bottled-water or POU System service at the residence as quickly as possible. The telephone/email communication will be followed up with a mailed written summary of the well test findings to the resident and the property owner, as applicable, that includes: a copy of the laboratory report; if applicable, documentation that the well water was only tested for nitrate, recommend that the resident consider having the well tested for other potential contaminants if seeking installation of a POU System (also see Section 5.4; if known, the KWA will provide information regarding other well testing programs that may be available in the area) and

any recommended next steps. If any additional water testing is required by the vendor to support installation of a POU System, the KWA will coordinate this testing with the vendor providing this service.

- If the results indicate nitrate levels are ≤ 10 mg/L-N, the resident and property owner will receive a written summary of the results, including a copy of the laboratory report. The written summary will indicate, as relevant that: (a) the residence will not be able to participate in the KWA's bottled water or POU System replacement water programs; (b) the well water was only tested for a selected set of contaminants and that the resident may want to consider having their well tested for other potential contaminants (also see Section 5.4) (if known, the KWA will provide information regarding other well testing programs that may be available in the area); and (c) advise the resident of opportunity to have their well tested again, if applicable (see Section 5.3.2).

5.3.2. Follow-up Well Test

For any resident or property owner that has an initial nitrate well test result showing nitrate levels ≤ 10.0 mg/L but ≥ 7.5 mg/L-N, and the resident is not already having their well tested on a regular basis as required through the Central Valley Water Board's ILRP or the KRWQC groundwater trend monitoring program, the KWA will offer follow-up well testing. Within one year of the initial well test the KWA will contact the resident or property owner to offer the opportunity to retest the well at no cost. If the resident or property owner does not want their well re-tested, no additional follow-up will occur. If the resident or property owner agrees to have the well re-tested and the result remains between 7.5 and 10 mg/L-N, then the KWA will continue to reach out on an annual basis to provide the opportunity to have the well tested at no cost until the nitrate concentration is < 7.5 mg/L-N, or > 10 mg/L and the resident is provided the option to receive bottled water or have a POU system installed.

5.4. Coordination with Other Related Safe Drinking Water Programs

The purpose of this EAP Addendum is to fulfill the safe drinking water requirements of the Nitrate Control Program as they pertain to nitrate levels in groundwater. It does not address other potential water quality concerns that may impact drinking water within the KWA area, e.g., arsenic, uranium or 1,2,3 Trichloropropane (TCP). However, other programs (e.g., Safe and Affordable Funding for Equity and Resilience [SAFER] under the Safe and Affordable Drinking Water Fund are anticipated to support efforts to test for these other constituents of concern through the grant funding in the near future (pending KWA Board approval, as early as 2024).

Through its ongoing community outreach program and coordination with Self-Help Enterprises (SHE) (either directly or through contract mechanisms established by other entities such as the Central Valley Salinity Coalition), the KWA will identify opportunities to collaboratively address

these other contaminants of concern where appropriate. The intent of this collaboration is to implement as cost effective a program as possible that minimizes the potential for a residence to have its well tested multiple times, each time for different constituents. To this end, the KWA will coordinate with the State Water Board, Central Valley Water Board, community-based organizations and other interested entities to identify opportunities to implement a complementary well testing program. KWA is currently applying for a SAFER grant to enhance the well testing program to contain additional water quality concerns. KWA has participated in monthly collaborative efforts with SHE in the past to avoid duplicating efforts providing assistance to residents and continue to communicate with SHE as needed when questions about services arise.

5.5. Coordination with Irrigated Lands Regulatory Program

Well testing regulatory requirements have been established for the ILRP. Given the overlap between these regulatory programs, the KWA recognizes the importance of simplifying efforts by residents with the Management Zone to have their drinking water well tested. Accordingly, the KWA will coordinate its Residential Well Testing Program with ILRP's Drinking Water Well Monitoring Program. If a resident applying for a well test under the Interim Replacement Water Program well testing program is located on an enrolled parcel under the ILRP, the KWA will work with the resident and the associated parcel owner within the ILRP Coalition to determine if the well has already been sampled to satisfy ILRP well testing requirements. If the well has been tested and the test result indicates that nitrate is > 10 mg/L-N threshold, the KWA will work with the resident and parcel owner to ensure the resident receives drinking water. Similarly, if the well has not been tested for nitrate, consistent with the Interim Replacement Water Program procedures, the KWA will work with all parties to get the well sampled and address any needs for drinking water. Regardless of the situation, the KWA will coordinate with all parties so that the resident can receive drinking water if warranted. Also, while the KWA is ready to assist residents with having their well tested, any action by the KWA under the NCP is not a substitute for or satisfies domestic well testing requirements under the ILRP program.

5.6. Central Valley Dairy Representative Monitoring Program

The CVDRMP is working closely with selected dairy and confined bovine feeding operations within the Central Valley to implement a monitoring program to evaluate potential impacts of industry practices on first encountered groundwater. Domestic well testing is not part of the CVDRMP. However, the facilities permitted under the dairy/confined bovine feeding operation general orders and participants in the CVDRMP do test domestic wells and submit findings directly to the Central Valley Water Board. As a participant in the KWA, the CVDRMP will encourage dairies and confined bovine feeding operations to share domestic well test results with the KWA to facilitate MZIP implementation in a more cost effective and efficient manner.

6. EARLY ACTION PLAN IMPLEMENTATION

6.1. Schedule/Milestones

EAP activities in the KWA have been implemented in two phases. Phase 1 EAP implementation began on May 8, 2021 in the Priority 1 areas within the Management Zone boundary: Kings Subbasin, Kaweah Subbasin and Tule Subbasin (**Figure 6-1**). The very small areas within the Priority 2 Madera and Delta-Mendota Subbasins within the Management Zone boundary are also included in Phase 1. The EAP for this phase has been incorporated into the Priority 1 MZIP where it will continue to guide efforts to outreach to the community, provide free well testing to residents and, where needed, offer emergency and interim drinking water until the KWA implements its long-term drinking water program that will work to assist residents and communities obtain permanent solutions to provide safe drinking water to residents in the KWA (Kings Water Alliance 2023).

Phase 2 implementation in the Priority 2 areas of the Management Zone begins within 60 days of submittal of this Addendum, or by February 26, 2025, unless the Central Valley Water Board notifies the KWA that this EAP Addendum is incomplete (**Figure 6-1**). A summary of the activities that occurred during Phase 1 EAP implementation is included in **Appendix A**. These types of activities will continue during Phase 2.

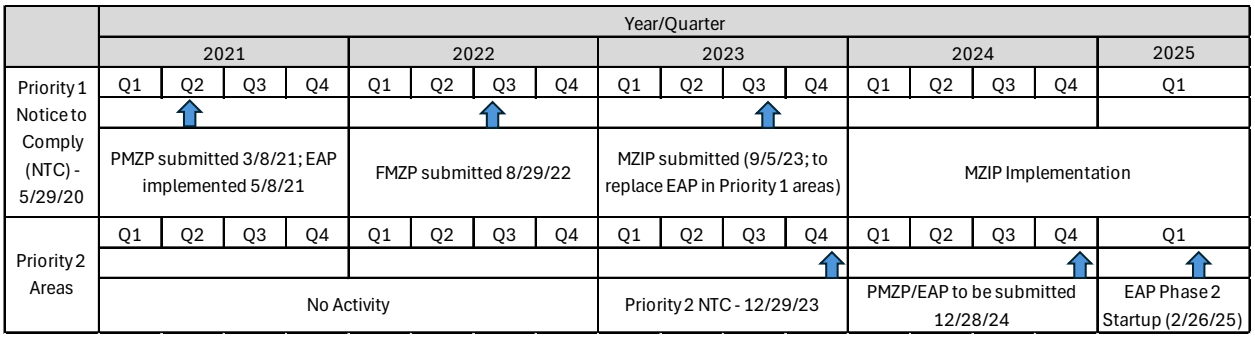


Figure 6-1. Phasing of EAP Implementation in Relation to Notices to Comply (NTC) in Priority 1 and 2 Subbasins

6.1.1. Phase 2 Schedule/Milestones

Figure 6-2 illustrates the general schedule and key milestones currently planned for implementation during Phase 2. Note that with the exception of the installation of fill stations, the activities that occurred in Phase 1 will continue into Phase 2 as part of MZIP implementation in the Priority 1 area (e.g., General Community Outreach, Bottled Water and POU System

Programs and Monitoring and Reporting). **Table 6-1** provides more detailed information regarding EAP implementation in this portion of the KWA.

6.2. Early Action Plan Funding Mechanism

The KWA, governing body overseeing efforts to comply with the Nitrate Control Program, is a non-profit public benefit corporation that filed for non-profit status on November 17, 2020. **Attachment E** of the PMZP provides the Articles of Incorporation and by-laws of the KWA. The Board of Directors currently has seven seats that can be expanded up to 11 as needed; these Board members have worked collaboratively to develop an equitable cost allocation approach to fund the implementation of this EAP. The Board of Directors will regularly review and, where needed, update this cost allocation as part of its annual budgeting process. The KWA is prepared and fully committed to funding the activities associated with the EAP including implementation.

KWA will explore potential supplemental funding sources, including but not limited to, grant and loan programs administered by the State Water Board and Department of Water Resources, which are intended for drinking water and agricultural water quality improvement.

6.3. EAP Program Evaluation

The KWA will conduct monitoring to evaluate the effectiveness of its EAP program. This information will be used to (a) prepare EAP status reports and (b) adaptively manage the EAP over time while long-term drinking water solutions are in development.

6.3.1. Monitoring Activities

For Phase 1, the KWA implemented the following record-keeping and data collection efforts; these activities will continue into Phase 2:

- *Bottled-water Delivery Program* - The KWA will maintain records that include the following information:
  - Requests for participation in this program;
  - Wells tested as a result of requests for participation and the well test results;
  - Communications with each resident regarding well test results and eligibility to participate in bottled water program; and
  - Communications with residents and status of participation in program (e.g., follow-up check-ins to verify water needs are being met and contracted services are being provided).

- *POU System Program* - The KWA will maintain records that include the following information:
  - Requests for participation in this program;
  - Wells tested as a result of requests for participation and the well test results (including results for contaminants other than nitrate);
  - Communications with each resident and property owner (as needed) regarding well test results and eligibility to participate in POU System program;
  - Status of participation of residents that had a POU System installed (e.g., verify vendor is able to provide maintenance and conduct monitoring as required for each system); and
  - Communications with residents and status of participation in program (e.g., follow-up check-ins to verify contracted services are being provided).
- *Water Fill Station* – For any stations operational, the KWA will collect usage data, including volume of water dispensed and days and times fill stations are most often used. These data will provide (a) insight on patterns of usage at each facility; and (b) if needed, a basis for compensating the owner of the facility providing water to the fill station. Fill station usage data also may be used to evaluate whether additional fill station capacity is needed in the KWA. If periods of high usage are identified at any station, additional site monitoring may be temporarily conducted to determine the degree to which lines may be forming causing significant delays in obtaining water or congestion at the site.

The KWA will also conduct the following additional record-keeping activities to support its effort to evaluate Phase 2 EAP implementation:

- Residences that have been targeted for outreach to participate in the Interim Replacement Water Program but have not responded or have indicated no interest in participating in the program[12].
- Documentation of any residents that were approved for bottled-water delivery or POU System installation but did not activate the services with the KWA's vendor(s).
- Documentation of how situations were resolved where the resident requested a POU System but due to technical issues had to rely on bottled water delivery instead.
- Contacts with residents to provide an opportunity for a re-test of their domestic well and the outcome of those efforts.

[12] This tracking is completed using the number of mailers sent using the USPS direct mailing route and the response rate.

- Documentation of how a situation was resolved if the well was tested as part of the ILRP or dairy program, and how the resident's drinking water needs are resolved if the well test indicates that the well exceeds the nitrate standard of 10 mg/L-N.

6.3.2. Reporting and Adaptive Management

At the request of the Central Valley Water Board's Executive Officer and in coordination with other Priority 1 Management Zone entities, the KWA established the following metrics to track progress in the implementation of the KWA Priority 1 EAP (KWA 2022):

- Location, forum type and general attendance figures for all outreach efforts
- Number of residences tested for nitrates
- Number of residences tested for other contaminants
- Number of households being provided bottled water
- Number of operable fill stations/kiosks and usage information for each.

These metrics will continue to be implemented as part of KWA's Phase 1 MZIP Emergency & Interim Drinking Water Program and begin for KWA's Phase 2 EAP implementation. In general, the KWA along with other Management Zone entities provide the above information monthly to the Central Valley Salinity Coalition (CVSC). The CVSC then compiles the information into a report which is submitted to the CV-SALTS Executive Committee, which includes the Central Valley Water Board. The Central Valley Water Board's Executive Officer shares this information with the Central Valley Water Board in the Executive Officer reports, which are prepared and disseminated approximately six times per year. The information is summarized into a dashboard format and is also publicly available on the CVSC's website at: https://cvsalts.mljenv.com/.

The Management Zone entities report this information in numeric and graphic formats. Reported information includes illustration of periodic reporting for the non-outreach metrics (e.g., number of residences wells tested, people being served bottled water, and kiosk usage information). In addition to providing periodic reporting of the metrics described above, the Management Zone entities also report summary statistics of combined outreach activities. Outreach activities generally fall within the following fourteen outreach types split into two categories: people engagements and meetings and events.

- People Engagements include the following eight outreach types:
    - Mailers – This engagement includes the number of mailings and physical mail pieces Management Zones sent to homes.

  - Hand-delivered materials – This engagement includes the number of Management Zone materials dropped off at homes, such as door hangers, in mailboxes, etc., and does not include in-person contact.
  - Emails – This engagement includes the number of emails sent to deliver information on a Management Zone.
  - Flyers and packets – This engagement includes the number of printed Management Zone materials distributed through schools or other third-party distribution.
  - Newspaper articles – This engagement includes the estimated number of readers that would be exposed to Management Zone content, through paid or earned media promotions.
  - Radio and TV – This engagement includes the estimated number of listeners that may be exposed to Management Zone messages via radio mentions, TV coverage, through paid or earned media promotions.
  - Social media – This engagement includes the total number of people reached when exposed to Management Zone messages through social media.
  - Website visitors – Each Management Zone entity manages a website (KWA Priority 1 and Priority 2 Management Zones share the same website) that provides information regarding the program and allows for well testing applications to be submitted on-line. The Management Zone entities utilize on-line browser tools to track the number of website visitors, and receive and respond to applications submitted via the website.
- Meetings and events include the following six types:
  - Online meetings – This includes the number of attendees participating in Management Zone meetings via Zoom and other conferencing events.
  - In-person public meetings – This includes the number of attendees participating in Management Zone in-person meetings.
  - Briefings and reports – This includes the total audience that would attend Management Zone briefings/updates for officials, leaders, and organizations to describe and promote the Nitrate Control Program.
  - Door-to-door meetings – This includes the number of people Management Zone representatives have spoken with at households.
  - Open public events – This includes the number of contacts and conversations Management Zone representatives have with people at tabling public events at

community-based events (e.g., County fairs, flea markets, farmers markets, food banks).

- Phone conversations – This includes the number of individuals Management Zone representatives have conversations with.

Any substantive changes to the EAP being considered will be discussed with the community through regular community meetings prior to submittal as a recommended change to the Regional Board. Recommended revisions to the KWA Priority 2 EAP Addendum will be submitted to the Executive Officer of the Central Valley Water Board (recommendations may be submitted by letter or as part of an EAP status report).

Unless the Central Valley Water Board objects to the recommended revisions to this EAP Addendum, KWA will begin implementation of the revised EAP within 60 days of submittal unless the Central Valley Water Board objects and notifies the KWA that this EAP Addendum is incomplete. If the Central Valley Water Board objects to the proposed revisions, the KWA will work with the Central Valley Water Board to address their concerns to the extent possible. If the proposed revisions are not approved, then the EAP will continue to be implemented as written.

Task	Subtasks	2025 QTR 1	2025 QTR 2	2025 QTR 3	2025 QTR 4	2026 QTR 1	2026 QTR 2	2026 QTR 3	2026 QTR 4
General Community Outreach	General Community Outreach activities (website, flyers, other communications)								
	Conduct public community and stakeholder meetings					2026 schedule determined in 2025			
Phase 2 Targeted Residential Outreach	Establish mailing list of targeted residents in Phase 2 area								
	Mailout Replacement Water Program information								
	Conduct follow up outreach (as necessary)								
Phase 2 Replacement Water: Bottled Water & POU Treatment Systems	Expand vendor services to Phase 2 area								
	Process well-testing requests from Phase 2 residents								
	Residents follow-up to verify service being provided and conduct follow-up well testing								
Phase 2 Replacement Water: Fill Stations	In coordination with the community, identify planning locations of new water fill station(s) in the Phase 2 area	Schedule dependent on residents' input							
Monitoring and Reporting	Gather monitoring data from all program activities								
	Prepare EAP status reports								

Figure 6-2 Addendum. General Phase 2 EAP Implementation Schedule

Table 6-2 Addendum. Kings Water Alliance Management Zone Phase 2 EAP Implementation Schedule (see also Figure 6-2)		
Task	Subtasks	Schedule (Assumes EAP Start Date: February 26, 2025)
General Community Outreach	Maintain Management Zone website	Ongoing
	Maintain existing and develop additional mechanisms to provide notice to the public of EAP implementation activities	Ongoing
	As needed, prepare materials to support community outreach activities (e.g., flyers for upcoming meetings, FAQs, etc.)	Ongoing
	Send out public notice of upcoming community meetings	• "Save the Date" public meeting notice – send within 10 days prior to scheduled meeting. • Final meeting notice – send within 3-4 days of meeting date (include Zoom link if meeting will be virtual).
	• Conduct public community meetings to provide: – EAP status update; – Information on replacement water program options; – Implementation schedule; – Well-testing opportunity; and – Other topics as needed.	• Initial EAP implementation kickoff meeting in the Phase 2 area – Early 2025. • Additional meetings – periodic community outreach meetings will be held on a regular basis as needed to best accomplish the goals of Phase 2 EAP implementation. Note: Meetings are currently a balance of in-person and virtual to meet multiple needs within the community.

Table 6-2 Addendum. Kings Water Alliance Management Zone Phase 2 EAP Implementation Schedule (see also Figure 6-2)			
Task	Subtasks		Schedule (Assumes EAP Start Date: February 26, 2025)
Phase 2 Targeted Residential Outreach	Establish mailing list for targeted residents in the Phase 2 area (residents with domestic well in areas most likely impacted by nitrate at concentrations > 7.5 mg/L-N – see red and orange areas in Figure 2-1)		Complete by April 30, 2025.
	Mailout Replacement Water Program information to residents on mailing list of targeted residents		Complete initial mailing by June 30, 2025. Conduct follow-up mailings, if needed.
	Conduct follow-up outreach to residents that did not respond to initial contact or had mailed information returned as undeliverable		As needed, but complete by August 15, 2025 for first mailing. Within 45 days after subsequent mailings when they occur.
Phase 2 Replacement Water: Bottled Water or POU System Programs	Extend third-party agreements with vendors as needed to supply bottled water or install a POU treatment system in Phase 2 area		Prior to initial mailout of outreach packet to targeted residences (see above).
	Acknowledge receipt of service request from Phase 2 residents and initiate eligibility evaluation		Within 3 business days of receipt of request to receive services.
	If well test required to verify eligibility of residents requesting services, schedule and conduct well test		Schedule well testing as quickly as possible in coordination with resident (and property owner if the resident is not the owner).
	Advise residents (or property owner as needed) of initial nitrate well test results	Result is > 10 mg/L-N	Within 24 hours of receipt of test results, contact resident or property owner via telephone or email to discuss replacement water options and initiate bottled water or POU System services as requested by the resident; follow-up with written information within 3 business days (see Section 5.3.1 regarding information to be communicated).
		Result is ≤ 10 mg/L-N	Within 3 business days of receipt of test results, send written notice to the resident or property owner of ineligibility to participate in bottled water or POU System programs (see Section 5.3.1 regarding information to be communicated)

Table 6-2 Addendum. Kings Water Alliance Management Zone Phase 2 EAP Implementation Schedule (see also Figure 6-2)			
Task	Subtasks		Schedule (Assumes EAP Start Date: February 26, 2025)
	Follow-up well testing if initial well test is ≥ 7.5 mg/L-N but ≤ 10 mg/L-N	Initial well test is ≥ 7.5 mg/L but ≤ 10 mg/L-N	Within one year offer resident or property owner the opportunity to retest the well at no cost. If the resident or property owner: • Does not want their well re-tested, no additional follow-up is required • Agrees to have the well re-tested and the result remains between 7.5 and 10 mg/L-N, then the KWA will continue to reach out to the resident or property owner on an annual basis to provide the opportunity to have the well tested at no cost until the nitrate concentration is < 7.5 mg/L-N.
	Follow-up with residents participating in bottled water/POU program to verify: (a) services are being received as contracted; and (b) bottled water recipients have sufficient water being delivered		Conduct first check-in with each resident within 30 days after confirming eligibility to receive bottled water/POU System services; conduct second check-in within 90 days after first check-in.
Phase 2 Replacement Water: Fill Stations	In coordination with the community, identify planning locations of new water fill station(s) in the Phase 2 area		To be discussed with residents during EAP implementation at community meetings. KWA will work with the residents on best opportunities and timing for fill stations.
Monitoring and Reporting	Collect monitoring data/maintain records as described in Section 6.3.1		Ongoing
	Provide data to support compilation of EAP program metrics in collaboration with other Management Zone entities for the Nitrate Control Program dashboard on CV-SALTS website; participate in EAP status reports to the Central Valley Water Board through CV-SALTS Executive Committee Meetings		Monthly in conjunction with CV-SALTS Executive Committee Meetings.

7. REFERENCES

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APPENDIX A COMMUNITY ENGAGEMENT COMMUNICATION & OUTREACH PLAN – UPDATED NOVEMBER 2024

Overview

The adopted Nitrate Control Program (NCP) requires meaningful outreach and the opportunity to participate in development of deliverables and proposed solutions by potentially affected parties. Deliverables for Path B, the Management Zone Approach, includes the Preliminary Management Zone Proposal (PMZP), Early Action Plan (EAP), Final Management Zone Proposal (FMZP), and the Management Zone Implementation Plan (MZIP). Solutions for drinking water needs of those affected by nitrate contamination include both immediate, short-term, and future, long-term solutions. The Kings Water Alliance (KWA) has developed a strategy outlining goals and tactics used to outreach and engage with impacted residents within the KWA service area during community engagement activities related to development and implementation of plans and solutions. The development and implementation of the required deliverables and solutions involves ongoing engagement with potentially impacted and impacted residents to allow public input and response during various stages. The core objective and goals of the strategy will guide ongoing efforts to engage the public. The strategy is intended to guide the Kings Water Alliance's ongoing stakeholder outreach efforts for the most effective engagement throughout the required development and implementation process.

The processes and tactics in the strategy are intended to be iterative, and it is expected certain processes or tactics may adapt to better reflect the needs of impacted residents. The strategy is intended to be flexible and adaptive to reflect community needs and best practices for public involvement.

Strategic Overview

The guiding components to the outreach and engagement strategy includes:

1. Objective
2. Goals
3. Tactics

Objective

The public outreach and engagement strategy's objective is to create a level of engagement and awareness with community residents that establishes trust and provides robust participation in the development and implementation of short- and long-term drinking water solutions.

Critical to achieving the objective are a set of goals that employ integrated communications tactics, using various channels and communications mediums to reach impacted residents effectively while giving all an opportunity for engagement.

Goals

The goals set to achieve the objective are as follows:

1. Identify and cultivate relationships with key influential individuals and organizations in the communities to amplify information from the Kings Water Alliance.
2. Provide channels for input and participation that connect with residents in a way that is effective and accessible.
3. Provide accurate, easy-to-understand, timely information on the development and implementation of short- and long-term drinking water solutions.

Tactics

The integrated communications tactics for community engagement for the development and implementation of drinking water solutions are as follows:

Table 1: Development and Implementation Outreach Tactics

DEVELOPMENT AND IMPLEMENTATION OUTREACH & ENGAGEMENT TACTICS	
TACTIC	**AUDIENCE**
Identify and cultivate community influencers to disseminate information	Community residents
Conduct Community Profiles	All
Consult local NGOs on materials and outreach methods	Community residents
Develop and continue to update webpage to educate and inform with translation feature	All
Develop bi-lingual 1-page information sheet on short-term drinking water solutions	All
Develop information sheet on long-term drinking water solutions (bi-lingual)	All
Develop bi-lingual flyer to promote events	Community residents
Send direct mail piece(s) to support the efforts for short- and long-term drinking water solutions	Community residents
Promote sign-ups to KWA Interested Persons Email List as a means for staying informed	Community residents
Host webinars and virtual office hours for potentially impacted residents and interested stakeholders with live Spanish interpretation	All
Host and/or participate in community events for potentially impacted residents and interested stakeholders	All
Develop and conduct surveys in English/Spanish to gather feedback on short and long-term drinking water solutions	All

Set up and maintain dedicated phone line for interested persons and residents to access for information and questions	All
Identify and directly engage community organization leaders to solicit feedback, cooperative efforts, and/or partnerships	Community organizations and NGOs
Send outreach letter and continue engaging the Tachi Yokut Tribe	Tribes
Informational flyer, webinar, and community events promotion posted at fill stations and key locations within affected communities	Community residents
Employ text messaging communications feature via NGO or other means to conduct a survey to gauge opinions on short- and long-term drinking water solutions	Community residents
Employ text messaging communications feature via NGO to promote upcoming outreach	Community residents
Develop contact database for email communications, notices, and information on development and implementation of short- and long-term drinking water solutions	All
Develop, maintain, and update the Kings Water Alliance website with educational resources and engagement opportunities	All
Radio spots in residents' primary language	Community residents
Disseminate information and notices via NGOs to network of stakeholders and community residents on meetings, events, and/or short- and long- term drinking water solutions	Community residents
Disseminate information and notices via dischargers to network of staff and colleagues for meetings, events, and/or short- and long- term drinking water solutions	Employees of farming and industrial operations; community residents
Develop and maintain strategic community partnerships	Community organizations and NGOs
Disseminate information and notices via community partnerships to network of stakeholders and community residents on meetings, events, and/or short- and long- term drinking water solutions	Community residents
Disseminate information and notices via door-to-door efforts for meetings, events, and/or short- and long- term drinking water solutions	Community residents

The tactics listed above are intended to be iterative, and it is expected certain tactics may adapt to better reflect the needs of impacted residents and best practices for public involvement.

These tactics will serve as a guide for KWA outreach tactics from planning, deliverables, and, ultimately, implementation to engage potentially impacted and impacted residents.

Stakeholder (Audience) Identification

In compliance with the Nitrate Control Program's requirements as well as outreach and engagement best practices, impacted residents (residents potentially impacted by nitrate-contaminated drinking water), community organizations, non-governmental organizations (NGOs), Native American Tribes, in addition to other interested stakeholders and members of the public, will be engaged in the development and implementation short- and long-term drinking water solutions.

The primary existing and potentially engaged stakeholders identified to achieve the goals of this strategy include:

1. Impacted Residents
2. Community Leaders
3. Community Organizations / NGOs
4. Native American Tribes
5. Public or Quasi-Public Agencies
6. Interested Stakeholders

Impacted Residents

In compliance with the Nitrate Control Program's requirements residents potentially impacted or impacted by nitrate-contaminated drinking water are engaged in the process and development of the short- and long-term drinking water solutions.

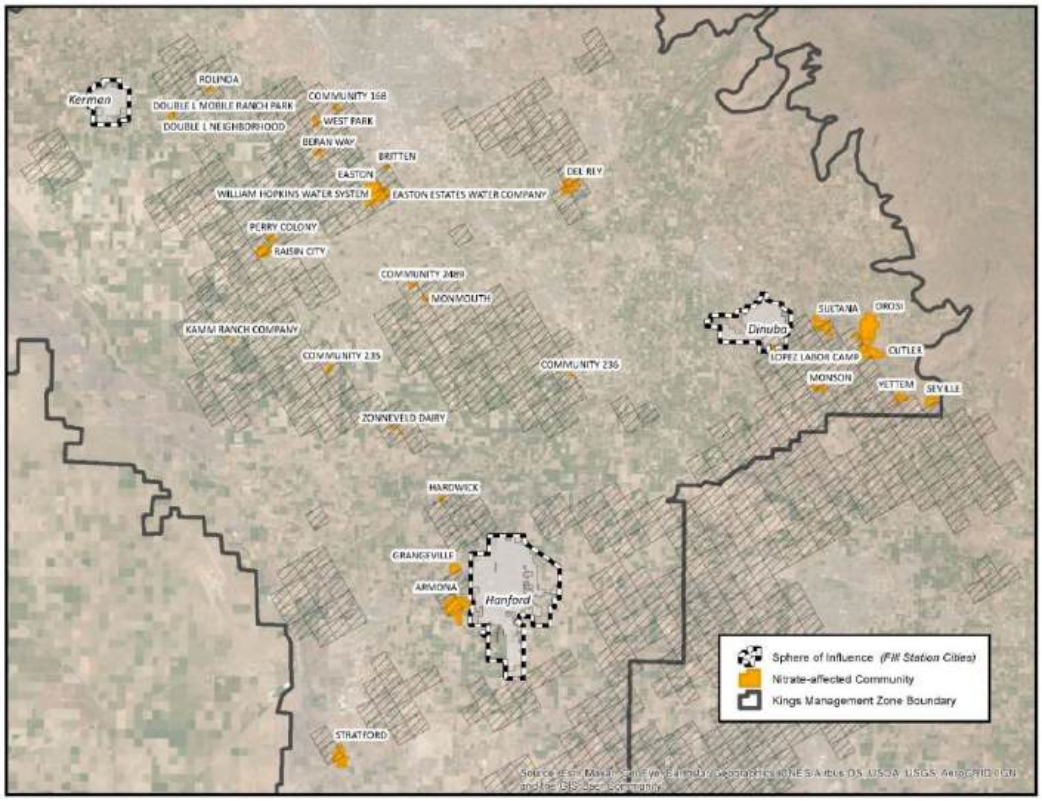
An initial assessment of potential nitrate impacted areas were identified utilizing readily available existing data from the Central Valley Salinity Alternatives for Long-term Sustainability (CV-SALTS) and the State Water Resources Control Board Groundwater Ambient Monitoring and Assessment Program (GAMA) for the analysis. After impacted areas were identified, United State Postal Service (USPS) rural residential zip codes and mailing routes were identified for impacted residents. KWA utilizes Every Door Direct Mail (EDDM) to select rural/highway and PO Box residential routes for potentially impacted residents. The identified residents are generally located within the following Disadvantaged Communities (DACs) and rural communities within the KWA:

Table 2: DACs and Rural Communities with Impacted Residents

Communities with Impacted Residents	
Rolinda	Monmouth

Communities with Impacted Residents	
Double L Mobile Ranch Park	Community 235
Double L Neighborhood	Community 236
Community 168	Hardwick
West Park	Grangeville
Beran Way	Armona
Britten	Stratford
Easton	Sultana
William Hopkins Water System	Lopez Labor Camp
Easton Estates Water Company	Monson
Del Rey	Orosi
Perry Colony	Cutler
Raisin City	Yettem
Kamm Ranch Company	Seville
Community 2489	

Figure 1: Nitrate-affected Communities within the Kings Water Alliance



Impacted or potentially impacted residents within the DACs and rural communities identified are the primary target audience of outreach and engagement efforts during development and implementation of short- and long-term drinking water solutions. Impacted residents have been engaged and will continue to be engaged via diverse channels to ensure a transparent process.

Community Leaders

Community leaders serve as two-way information gatekeepers to potentially impacted residents, and therefore have been invited to engage in the development and implementation of deliverables and solutions. These leaders will continue to be engaged throughout the process of development and through implementation of drinking water solutions. Direct outreach to leaders from the following communities has been conducted:

Table 3: List of Communities with Targeted Community Leader Outreach and Engagement

Community Leader Outreach
Armona
Cutler
Easton
Stratford
Orosi Public Utilities District
Sultana Community Services District
Raisin City
Monson
Zonneveld Dairies
Rolinda
East Orosi

The list of leaders from the communities listed is not exhaustive or conclusive and will continue to develop as further outreach is conducted.

Community Organizations / NGOs

Community Organizations and NGOs serve as two-way information gatekeepers to potentially impacted residents. These organizations and NGOs often bring knowledge and expertise about residents in DACs and rural communities and are an invaluable resource in effectively reaching and communicating to impacted residents and other interested stakeholders.

Individuals from the following Community Organizations and NGOs have been actively outreached to and engaged in the development of the short- and long-term drinking water solutions and in the development of communications tactics and outreach materials:

Table 4: Community Organizations and NGOs actively participating in outreach and engagement

Community Organizations and NGOs	
Fresnoland (Fresno Bee)	Self-Help Enterprises
Fresno County Farm Bureau	Community Water Center
Kings County Farm Bureau	Leadership Counsel for Justice and Accountability

Community Organizations and NGOs listed in Table 4 were effective in disseminating a drinking water survey to their network of community organizations, further extending the reach of the Kings Water Alliance. The network of organizations included in the dissemination of a survey is listed in Table 5 below.

Table 5: Community Organizations and NGOs Reached via Actively Participating NGOs

Community Organizations and NGOs Reached via Actively Participating
Central California Environmental Justice Network
Centro Binacional
Sierra Club Tehipite Chapter
Self-Help Enterprises
California Rural Legal Assistance
California Rural Legal Assistance Foundation
Friend of Calwa
Dolores Huerta Foundation
Fresnoland
Lideres Campesinas
Central Valley Partnership
United Farm Workers Foundation
Mi Familia Vota
Centro La Familia
Pesticide Reform
Radio Bilingue

This audience segment will continually be engaged to amplify information and engagement opportunities, and to better understand the needs of impacted residents. Efforts will be made to continue to engage those listed (Tables 4 and 5) in addition to others willing to participate.

NGOs will continue to be solicited for feedback on outreach methods during development and implementation for short- and long-term drinking water solutions, and to date have offered important feedback, including a recommendation to simplify language on outreach flyers and review of a drinking water survey to ensure simple language and user-friendly questions.

Native American Tribes

A single tribe was identified within the KWA service area. The Tachi Yokut Tribe has been engaged via letter inviting members of the Tribe to participate in EAP development and implementation. Efforts will continue to engage and inform the Tribe on the development and implementation of short- and long-term drinking water solutions.

Public or Quasi-Public Agencies

Public and/or Quasi-Public agencies may include local and regional governmental entities and agencies, municipalities, public water systems, community service districts, counties, county service areas, public utility districts, or water districts (public and private) in which the KWA seeks participation, evaluation, cooperation, and/or coordination in the development and implementation of short- or long-term drinking water solutions.

Interested Stakeholders

Other interested stakeholders may include local and regional entities and agencies, community organizations, and other interested members of the public who wish to participate in the development and implementation of drinking water solutions. This may include but is not limited to agricultural producers, local land-use planning agencies, environmental interests, federal agencies, irrigation districts, and groundwater sustainability agencies (GSAs).

These interested stakeholders have been and will continue to be invited to participate in the activities of development and implementation of short- or long-term drinking water solutions.

Key Messages

The KWA has incorporated and will continue to incorporate key messages in all its communications and engagement activities to help foster clear and accurate communication. This will ensure a level of consistency across all outreach and engagement efforts, instill trust, and provide the opportunity for all KWA staff to engage and communicate a common message. Messages will continue to be developed as development and implementation of short- and long-term drinking water solutions progresses.

The key messages for development and implementation of short- and long-term drinking water solutions are:

- The new Nitrate Control Program is part of a long-term strategy for addressing nitrate pollution in the Central Valley's groundwater.
- The Nitrate Control Program has three goals:
    - Provide safe drinking water supplies
    - Reduce nitrate impacts to water supplies
    - Restore groundwater quality, where reasonable and feasible
- Many small communities in the Central Valley rely on groundwater for drinking water. Some communities cannot safely use groundwater for drinking water as nitrate levels present a potential for human health impacts.
- Safe drinking water solutions are being developed in local communities. We need your input to develop and implement solutions.
- Drinking water solutions should be flexible and locally driven.
- The Kings Water Alliance encourages participation and input from stakeholders.
- The Kings Water Alliance seeks to incorporate public input received in decisions.
- The Kings Water Alliance is committed to considering all stakeholder comments.

Future messaging will be developed as outreach and engagement continues for short-and long-term drinking water solutions.

Transparency and Accountability

Transparency and accountability are integral to the effectiveness of outreach and engagement. Being open and involving stakeholders at key points during the development and implementation of short- and long-term drinking water solutions creates a democratic process that will produce a positive and well-received solution.

Best Practices for Transparency and Accountability

The KWA has adhered and will continue to adhere to the following practices to help ensure accountability and transparency:

- Advanced notification of public meeting times, locations, and agendas
- Website posting of materials and resources
- Solicitation of input from identified stakeholders and a good faith effort to incorporate stakeholder interests in decisions

As the KWA works with stakeholders, various public opportunities for engagement may be considered and deployed to best meet the needs of impacted residents and other interested stakeholders.

Outreach and engagement efforts are intended to be flexible, adapting to meet the needs of impacted residents and other stakeholders engaging in the short- and long-term drinking water

solutions development and implementation process. Timing and specific outreach and engagement tactics and tasks are subject to change to better meet the goals and objectives. If a change occurs, the intended result of the tactics and tasks will still be achieved, but through more efficient and/or effective methods.

Stakeholder Committee Formation

With the support and guidance of KWA staff and Board of Directors, the Stakeholder Committee is an important venue to provide a means in which interested parties may participate in the process of implementation of short- and long-term drinking water solutions. The Stakeholder Committee contributes to the process of ensuring impacted groundwater users are informed of and given the opportunity to participate in the development of proposed solutions. The Committee is a formal venue for coordinating with others that are not dischargers to address drinking water issues, including affected communities, domestic well users and their representatives, the State Water Board's Division of Drinking Water, Local Planning Departments, Local County Health Officials, Groundwater Management Agencies, and others as appropriate. Table 6 below identifies potential participants in the Stakeholder Committee.

The Stakeholder Committee meets regularly to work with the KWA staff and a Board appointed Committee Chair to identify short and long-term solutions for providing safe drinking water to residents impacted by nitrates in the KWA service area, to engage impacted residents and other interested parties, and to provide input to the Board.

Table 6: Stakeholder Committee Representatives

Stakeholder	Identified Participant
Impacted Residents	Rolinda resident Armona resident Stratford resident Easton resident Sultana resident Monson resident Raisin City resident Orosi resident Cutler resident
Irrigated Agriculture	Kings River Water Quality Coalition Fresno County Farm Bureau Kings County Farm Bureau Tulare County Farm Bureau
Groundwater Sustainability Agencies	North Kings GSA McMullin Area GSA

Stakeholder	Identified Participant
	Kings River East GSA North Fork Kings GSA Central Kings GSA South Kings GSA Mid-Kings GSA South Fork Kings GSA Tri-County GSA Southwest Kings GSA El Rico GSA
Community Based Organization	Self-Help Enterprises Leadership Counsel for Justice & Accountability Community Water Center
Municipal	County of Tulare County of Kings County of Fresno City of Dinuba City of Kerman
Dairy	Dairy CARES California Milk Producers Council
Industry/Other	Kings Water Alliance Board Liaison Almond Board American Pistachio Growers The Wine Group Wonderful Zonneveld Dairies

Communication Methods

The outreach and engagement specific to the development and implementation of short- and long-term drinking water solutions relies on integrated communications methods, in which multiple communications channels and mediums are used to inform, educate, and engage stakeholders. It should be noted the strategy and tactics for solutions for short-term drinking water development and implementation outreach and engagement operated initially within the limitations of the COVID-19 pandemic and included a concentrated volume of digital communications. To offset any disadvantage digital formats may create, printed communications methods were employed to reach all potentially impacted residents. This included direct mail to the homes of potentially impacted residents and community flyers at key locations in communities. Once restrictions on in-person gatherings were lifted, in-person formats, like workshops were held in communities. Communication methods in digital, print, in-

person, as well as others will be utilized for outreach and engagement for short- and long-term drinking water solutions.

To meet the objectives of the strategy, the KWA will engage with stakeholders in both existing and new channels and venues.

Tactics for Engagement

The preparation of required deliverables requires community outreach and engagement to help develop short- and long-term drinking water solutions. The KWA provided and will continue to provide opportunities for potentially impacted residents and other interested stakeholders to participate in the development and implementation of drinking water solutions. Some of the broad tactics for outreach and engagement include briefings, one-on-one meetings, community meetings, industry/association briefings, newsletters, email updates, community webinars/workshops, and community call-ins. A list of all outreach efforts can be found in Appendix A-1.

Translation of materials and live interpretation will be offered whenever feasible to best engage with impacted residents and other interested stakeholders.

Stakeholder Advisory Committee

The Stakeholder Advisory Committee is an important venue for public participation. Meetings with representatives of stakeholder groups (Table 6) are held regularly and provide the opportunity for members of the public and representatives from NGOs and other local agencies to participate by providing input and/or voicing concerns. Meeting information is distributed via email and on an easily accessible webpage at www.kingswateralliance.org.

Strategic Community Partnerships

KWA staff is exploring strategic community partnership opportunities with trusted organizations in Fresno, Kings, and Tulare counties for outreach and engagement on short- and long-term drinking water solutions. Communications and discussions with the following Community Organizations are in process or ongoing:

United Way of Fresno/Madera, Kings, and Tulare Counties

KWA staff is exploring partnership opportunities with United Way Fresno/Madera Counties. Potential partnership includes the addition of programmatic information to their community services information directory and social media efforts. United Way Fresno/Madera Counties has offered to introduce KWA staff to their counterparts at United Way Kings County and United Way Tulare County to establish similar partnerships.

Fresno County Economic Opportunities Commission

KWA staff is exploring partnership opportunities with Fresno County Economic Opportunities Commission (EOC) to promote the well testing and short-term drinking water solutions (bottled water delivery program), help connect KWA with private well users for engagement on long-term drinking water solutions, and work alongside Fresno County EOC staff in its regularly scheduled food bank presence. Fresno County EOC serves 100,000 low-income residents annually.

Kings County Health Equity Advisory Panel

KWA has been invited to participate in an inaugural meeting of this new initiative funded by the California Department of Public Health and led by the Kings County Department of Public Health and the Kings Partnership, a "501c3 Coalition working across sectors...To enhance the quality of life in Kings County by creating a collaborative community that focuses on health, family, education, and financial stability."

Environmental Justice Organizations

The KWA is exploring increased coordination with local environmental justice organizations. The potential coordination could include strategy and information dissemination for short- and long-term drinking water solutions, public engagement efforts, and/or coordination and collaboration for funding opportunities.

California Water Institute at Fresno State

The KWA continues to expand public outreach planning and execution, to include strategy to identify and overcome barriers to short- and long-term drinking water solutions participation, and develop audience-specific public engagement and facilitation in discovering and analyzing long-term drinking water solutions.

California State University, Fresno

On-campus events such as Community Service Resource Fairs that provide exposure to students to promote the short- and long-term drinking water solutions program and attract volunteers to help perform public outreach work.

KWA staff are exploring partnerships with Fresno State marketing students to develop an ad campaign competition to increase creative messaging tactics.

Churches

The KWA continues to explore approaching churches within the KWA service area to distribute outreach materials to their congregations. The KWA will also outreach with information on upcoming public engagement efforts on short- and long-term drinking water solutions, and request help in reaching well users/owners to solicit feedback.

School Districts and Community Colleges

The KWA will continue efforts and expand collaborations with local school districts and community college administrative offices to promote short- and long-term drinking water solutions and provide outreach materials for dissemination to students/families. Examples could include posting a link on websites, sending hard copy flyers home and displaying them in lobbies, email, and in-person events. Once that familiarity is established, KWA will explore partnership opportunities for conducting meaningful public engagement on short- and long-term drinking water solutions.

Special Districts

The KWA is exploring potential partnerships with various special districts including recreation and community services. The KWA is working to establish partnerships with these special districts to provide outreach materials and request participation in short- and long-term drinking water solutions through the special district communications. Examples may include utility bill inserts, posting flyers at publicly accessible locations, public events, website and social media posts, email, newsletters, and informing their governing bodies so that they may share with their own networks.

Community service organizations

The KWA continues to explore partnerships with community service organizations to share information and request assistance in promoting short- and long-term drinking water solutions. The KWA is looking for trusted community partners to assist with outreach and surveys on short- and long-term solutions.

Health Clinics

Due to the health effects of elevated nitrate levels in drinking water, there is a clear link between health clinics' mission and the public health benefit of short- and long-term drinking water solutions. KWA will explore potential partnerships with health clinics to increase outreach and engagement efforts and solicit ideas for partnership in public engagement drinking water solutions.

Groundwater Sustainability Agencies

The KWA will seek to further partner with Groundwater Sustainability Agencies for outreach and engagement opportunities.

County and Municipal Governing Bodies and Public Works Staff

The KWA continues to explore establishing regular communication to create familiarity with KWA to promote short- and long-term drinking water solutions efforts, share program materials for distribution to their communication networks, and provide updates on outreach and engagement that could potentially intersection with their areas of responsibility.

Billing Inserts

The KWA is investigating the possibility of including outreach materials in invoices and communications sent by organizations and districts specializing in pumps, irrigation, propane, and septic systems.

Banks/Credit Unions

The KWA is also exploring partnerships with banks and credit unions that serve people in the KWA service area.

Community Public Outreach Meetings

Public outreach meetings and events provide an important venue to educate, inform, and solicit feedback from impacted residents and other interested stakeholders. The KWA will continue efforts for public community outreach meetings throughout the development and implementation of short- and long-term drinking water solutions. Spanish translation is made available at public outreach meetings. KWA community outreach events are listed in Table 7.

Table 7: Community Public Meetings and Workshops

Community Public Meetings/Workshops				
Date	**Meeting Type**	**Location**	**Attendance**	**Topics**
11/19/2020	EAP Community Drinking Water Webinar	Online (Zoom)	32 public; 9 staff	Nitrogen Control Program; EAP 101; drinking water solutions
1/28/2021	EAP Community Drinking Water Webinar #2	Online (Zoom)	28 public; 9 staff	Nitrate Control Program; Impacted Resident Identification; Drinking Water Solutions; Staying Involved

Community Public Meetings/Workshops				
Date	**Meeting Type**	**Location**	**Attendance**	**Topics**
2/10/2021	Community Outreach Virtual "Office Hours"	Online, telephone (Zoom)	4 public; 4 staff	Ealy Action Plan draft
2/8/2021	AGUA Coalition Call	Online (Zoom)	35 residents, managemen t zone staff	Management Zones in the Central Valley; feedback on drinking water & outreach
2/16/2021	Community Outreach Virtual "Office Hours"	Online, telephone (Zoom)	1 public; 3 staff	Early Action Plan draft
5/25/2021	KWA Kick-Off Webinar	Online (Zoom)	18	KWA Resources Introduction
7/27/2021	Nitrates in Groundwater: The Basics (Webinar #1)	Online (Zoom)	16	Nitrate Education and KWA services
7/28/2021	Nitrates in Groundwater: The Basics Webinar (Webinar #2)	Online (Zoom)	13	Nitrate Education and KWA services
7/29/2021	How-to: Filling out the Well Test Form	Online (Zoom)	4	Well Test Application
7/30/2021	How-to: Filling out the Well Test Form	Online (Zoom)	3	Well Test Application
10/12/2021	Domestic Well Owner Workshop	Easton	41	Collaboration between Easton CSD, SHE, Fresno County, North Kings GSA
8/16/2022	Community Outreach Virtual "Office Hours"	Online (Zoom)	0	Early Action Plan and Final Management Zone Proposal
8/17/2022	Community Outreach Virtual "Office Hours"	in-person-Kerman	0	Early Action Plan and Final Management Zone Proposal
8/31/2022	Testing and Drinking Water Webinar	Online (Zoom)	8	KWA Program
10/20/2022	Testing and Drinking Wate Workshop	in-person-Kerman	3	KWA Program
3/15/2023	Testing and Drinking Water Webinar	Online (Zoom)	0	KWA Program

Community Public Meetings/Workshops				
Date	**Meeting Type**	**Location**	**Attendance**	**Topics**
7/31/2023	Back to School Event	Orange Cove Library	65	Nitrate and Safe Drinking Water Education
8/1/2023	Back to School Event	Parlier Library	27	Nitrate and Safe Drinking Water Education
8/2/2023	Back to School Event	Riverdale Library	30	Nitrate and Safe Drinking Water Education
8/3/2023	Back to School Event	Easton	32	Nitrate and Safe Drinking Water Education
8/30/2023	Science VS Unsafe Water	Caruthers	4	Nitrate and Safe Drinking Water Education
10/26/2023	MZIP Community Engagement Meeting	Online (Zoom)	18	Management Zone Implementation Plan
12/14/2023	Drinking Water Community Engagement Meeting	Selma\Online (Zoom)	4 in-person 12 online	Management Zone Implementation Plan
8/27/2024	EAP Community Drinking Water Webinar (Priority 2)	Online (Zoom)	9	Nitrogen Control Program; EAP 101; drinking water solutions
9/24/2024	EAP Community Drinking Water In-Person (Priority 2)	Hanford	4	Nitrogen Control Program; EAP 101; drinking water solutions
12/4/2024	EAP Community Drinking Water In-Person (Priority 2)	Lemoore	TBD	Nitrogen Control Program; EAP 101; drinking water solutions
12/12/2024	EAP Community Drinking Water In-Person (Priority 2)	Hanford	TBD	Nitrogen Control Program; EAP 101; drinking water solutions

Feedback and input solicited from the public during public outreach meetings will be considered by the KWA staff, technical consultants, and Board.

Public outreach meeting materials will be available to the public, posted on the relevant webpage and emailed to the interested persons list.

Webinars and Virtual Office Hours

An important venue for outreach, especially during the COVID-19 pandemic, the KWA has and will continue to host community outreach webinars to educate, inform, and solicit feedback from impacted residents and other interested stakeholders. Spanish translation of materials and live interpretation will be provided whenever feasible during development and implementation of short- and long-term drinking water solutions to better engage with impacted residents and other interested stakeholders.

Extensive outreach has been conducted to promote KWA webinars, including a direct mail piece in English/Spanish to potentially impacted residents, email notices to interested persons, and English/Spanish flyer distribution at key locations in communities covering the KWA, targeted outreach via local Environmental Justice NGO email distribution lists to local community organizations, targeted outreach to the Environmental Justice Community, Fresno Bee, and Fresno County Farm Bureau, email outreach to the Kings Water Alliance email lists, outreach to KBIF 900AM Punjabi Radio, Radio Bilingue, and Hmong Radio. The webinar registration is accessible in English and Spanish, and details listed on the drinking water webpage on the Kings Water Alliance website can be translated on command. KWA webinars included live Spanish interpretation.

Live Polling

Live polling during outreach workshops and webinars is an important tactic to better understand the audience and solicit feedback on key issues and decisions. Live polling will be employed as often as is feasible during outreach events to better understand the audience and solicit feedback on potential short- and long-term drinking water solutions, and possible limitations on proposed solutions.

Office Hours

Another opportunity to engage the public in a more informal venue, virtual office hours will be offered during outreach and engagement for short- and long-term drinking water solutions. Attendees had the option to virtually chat or call in to engage with technical consultants and KWA staff to ask questions, provide input, and/or express concerns relative to short- and long-term drinking water solutions development and implementation. Spanish interpretation will be offered to participants.

Community Meetings

The Kings Water Alliance works to integrate communications and outreach with existing venues. Attending routine meetings of community organizations involving impacted residents is a streamlined opportunity to engage and develop awareness while receiving feedback.

One example is the AGUA Coalition call attended by the Kings Water Alliance among other Central Valley management zones. Hosted by the Community Water Center, the AGUA Coalition, or "Asociación de Gente Unida por el Agua/Association of People United for Water" is a regional grassroots coalition largely made up of impacted community members and leaders who reside in the Central Valley, and are dedicated to securing safe, clean, and affordable drinking water for San Joaquin Valley communities. The Kings Water Alliance attended and provided a short presentation on its service area and purpose in engaging with residents. Feedback from residents on preferred drinking water solutions, potential barriers to access, and outreach recommendations was recorded and will continue to be considered as short-term drinking water solutions implementation occurs.

Community meetings through existing venues will continue to be a part of the Kings Water Alliance outreach and engagement strategy.

In-Person Meetings

In-person meetings will be held both for formal and informal workshops, briefings, and gatherings targeted to impacted residents and other interested stakeholders to share information, educate, build relationships, provide updates, and solicit input. The KWA will make use of existing venues where community residents and other interested stakeholders typically meet as well as new venues as needed.

Library Events

KWA staff organized four Back to School Events at four Libraries in Fresno County: Orange Cove, Parlier, Riverdale, and Easton. The goal of the events was to teach families about short-term drinking water solutions including nitrates and unsafe drinking water and identify eligible well test applicants. A demonstration of how nitrate spreads in groundwater to different wells was performed at each event.

KWA plans to host more events at libraries in the service area to educate communities about nitrates and unsafe drinking water.

Food Banks

To effectively reach residents, the strategy of "meeting folks where they are" was used by accessing familiar events and venues. KWA staff and volunteers attended and distributed flyers at food bank distribution events throughout the service area. In September 2021, KWA launched a volunteer program for food bank outreach in partnership with California State University, Fresno. This provided additional volunteer staffing to increase the number of food bank events attended.

Fresno County Mobile Health Unit Events

A partnership with the Fresno County Mobile Health Unit has allowed KWA staff to attend Rural Mobile Health events with communities in Fresno County. At these events, KWA staff educated community members about resources for safe drinking water.

Key Locations Outreach

When effective to encourage and promote attendance at outreach events, disseminating flyers at key locations within communities are conducted to reach impacted residents. Key locations include but are not limited to, grocery stores and markets, gas stations, churches, community centers, postal stores, and additional relevant locations. In addition, KWA has partnered with community leaders and organizations to further the reach of flyers within communities.

To date, flyers in English and Spanish have been posted and disseminated at key locations and by community partners:

Table 8: Flyer Distribution at Key Locations for MZIP Development

Flyer Distribution at Key Locations (March 2021 – Present)				
Staff/Volunteer Organization	**Date**	**Flyer Topic**	**Event**	**Locations**
Leadership Council for Justice and Accountability (LCJA)	5/19/2021	EAP Kick-Off webinar Spanish/English	EAP Kick-Off Webinar	LCJA resident connections
Self-Help Enterprises (SHE)	5/2021	EAP Kick-Off webinar Spanish/English	EAP Kick-Off Webinar	SHE resident connections
The Wine Group	6/29/2021	Well Testing/Drinking Water Flyers		3 wineries in management zone
Stakeholder Advisory Committee members	6/2021	Well Testing/Drinking Water Flyers		
Lanare Resident	7/1/2021	Laminated well testing/drinking water flyer		Lanare Community Center
Lanare Resident	7/2021	Well Testing/Drinking Water Flyers	COVID Vaccination Drive x2	Riverdale, Laton, Lanare
LCJA	7/12/2021	July Educational Webinars Flyer		Digital
SHE	7/12/2021	July Educational Webinars Flyer		Digital

Flyer Distribution at Key Locations (March 2021 – Present)				
Staff/Volunteer Organization	**Date**	**Flyer Topic**	**Event**	**Locations**
California Rural Legal Assistance (CRLA)	7/12/2021	July Educational Webinars Flyer		Digital
Stakeholder Advisory Committee members	7/2021	July Educational Webinars Flyer		
Central CA Food Bank	8/12/2021	Well Testing/Drinking Water Flyers	7 Food Distributions	Cutler, Orange Cove, Orosi
CRLA	8/2021	Well Testing/Drinking Water Flyers		
Laton Resident	9/11/2021	Food Distribution Outreach Flyer, Laton	Laton Food Distribution	Laton
Easton resident	10/16/2021	Well Testing/Drinking Water Flyers	Friends/Neighbors	Easton
Easton resident	10/16/2021	Laminated well testing/drinking water flyer	Community posting	Easton
Culter-Orosi resident	11/3/2021	Well Testing/Drinking Water Flyers	School district distribution	Cutler-Orosi
Employee Development Department staff	12/17/2021	Well Testing/Drinking Water Flyers	EDD management	
Community resident	1/14/2022	Well Testing/Drinking Water Flyers	Community outreach	
CRLA	1/14/2022	Well Testing/Drinking Water Flyers	Community outreach	
Employee Development Department staff	1/4/2022	Well Testing/Drinking Water Flyers	Community outreach workers	
Peachjar (digital)	3/17/2022	Well Test/drinking water flyers	online distribution	Kings River East GSA
KWA staff	4/26/2022	Well Test/drinking water flyers	Community outreach	Cutler- USPS, La Fiesta Food, First Southern Baptist Church, Apostolic Assembly Church, Open Gate Ministry

Flyer Distribution at Key Locations (March 2021 – Present)				
Staff/Volunteer Organization	**Date**	**Flyer Topic**	**Event**	**Locations**
Peachjar (digital)	4/27/2022	Well Test/drinking water flyers	online distribution to schools	Kings River East GSA
KWA staff	5/17/2022	Well Test/drinking water flyers	Community Outreach	Cutler Orosi Joint Unified School District
KWA staff	5/17/2022	Well Test/drinking water flyers	Community Outreach	Open Gate Ministries
KWA staff	6/3/2022	Well Test/drinking water flyers	Community Outreach	Orosi- SaveCo, Orosi Library, USPS
KWA staff	7/19/2022	targeted resident flyer	direct email	Maria Herrera, CA State Director, Rural Development USDA
KWA staff	3/17/2023	Well Testing/Drinking Water Flyers	Community outreach	Parlier Unified School District
KWA staff	4/25/23	Well Testing/Drinking Water Flyers	Community outreach	Consulado de Mexico en Frenso
KWA staff	4/27/23	Well Testing/Drinking Water Flyers	Community outreach	Proteus Inc.
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	West Selma
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Selma
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Reedley
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Reedley
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Reedley
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Dinuba
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Cutler
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Sanger
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Dinuba
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Dinuba

Flyer Distribution at Key Locations (March 2021 – Present)				
Staff/Volunteer Organization	Date	Flyer Topic	Event	Locations
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Orange Cove
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Orange Cove
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Orange Cove
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Reedley
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Orange Cove
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Del Rey
KWA staff	5/26/2023	Well Testing/Drinking Water Flyers	Packing House	Del Rey
KWA staff	6/14/2023	Well Testing/Drinking Water Flyers	Community outreach	Biola Community Services District
KWA staff	6/27/2023	Well Testing/Drinking Water Flyers	Community outreach	Selma Senior Center
KWA staff	8/18/2023	Well Testing/Drinking Water Flyers	Community outreach	Orange Cove
KWA staff	8/24/2023	Well Testing/Drinking Water Flyers	Community outreach	Riverdale
KWA staff	9/26/2023	Well Testing/Drinking Water Flyers	Community outreach	Laton
KWA staff	10/10/2023	Well Testing/Drinking Water Flyers	Community outreach	Orosi
KWA staff	10/24/2023	Well Testing/Drinking Water Flyers	Community outreach	Raisin City
KWA staff	10/24/2023	Well Testing/Drinking Water Flyers	Community outreach	Riverdale
KWA staff	10/26/2023	Well Testing/Drinking Water Flyers	Community outreach	Sanger
KWA staff	11/22/2023	Well Testing/Drinking Water Flyers	Community outreach	Raisin City
KWA staff	2/13/2024	Well Testing/Drinking Water Flyers	Community outreach	Orosi

Flyer Distribution at Key Locations (March 2021 – Present)				
Staff/Volunteer Organization	Date	Flyer Topic	Event	Locations
KWA staff	3/8/2024	Well Testing/Drinking Water Flyers	Community outreach	Sultana
KWA staff	3/20/2024	Well Testing/Drinking Water Flyers	Community outreach	Kerman
KWA staff	5/16/2024	Well Testing/Drinking Water Flyers	Community outreach	Parlier
KWA staff	9/8/2024	EAP Workshop Event Flyers	Community outreach	Hanford
KWA staff	9/13/2024	EAP Workshop Event Flyers	Community outreach	Hanford
KWA staff	11/20/2024	EAP Workshop Event Flyers and Well Testing/Drinking Water Flyers	Community outreach	Lemoore

Depending on the location, stacks of flyers were left for distribution or a flyer was taped to an easily accessible and visible window at the entrance of the locations. Some locations used a "campus style" flyer, with tear-offs included webinar details and contact information for interested stakeholders to take with them. Flyer examples are included for reference in Appendix A-2.

Influencer Outreach

Communications and event promotions are noticed to community leaders, community-based organizations, and NGOs. Whenever possible, it will be requested that communications be disseminated to the networks of the leaders and individuals within the organizations to better amplify messages and notices to the public.

Partnering with these groups is an important piece of effectively reaching impacted residents, as they understand, have established relationships with, and can comfortably communicate with residents in DACs and rural communities.

Other influencers that may be considered to disseminate information and relevant announcements include industry and commodity groups, governmental agencies, municipalities, public utilities, agricultural producers, and nitrate dischargers. Distributing information to the networks of these groups can bring effective awareness and engagement.

To date, outreach has been distributed to an expanded network of the following entities:

- Kings River Conservation District
- Fresno County Farm Bureau
- Self-Help Enterprises
- Leadership Counsel for Justice and Accountability
- Employment Development Department
- California Rural Legal Assistance
- Community Water Center
- California Water Institute

Direct Mail

When pertinent and timely, the KWA will utilize direct mail to reach all potentially impacted residents within the KWA service area. Communication pieces developed will include messaging that communicates information about the KWA and updates stakeholders on activities. KWA contact information and website information will be included on all direct mail pieces. When feasible, translation of direct mail communications pieces will be available. Communications may include newsletters, postcards, flyers, or additional direct mail formats appropriate for outreach and engagement goals.

The following direct mail pieces have been sent by the KWA (Appendix A-3):

Table 9: Direct Mail

2024 DIRECT MAIL					
In-home date	**Mailer Topic**	**Audience**	**Type**	**Language**	**Quantity**
3/15/24	Colorful postcard	Impacted Residents 7.5-10+ mg/L-n, in targeted Alta I.D. area	postcard	English/Spanish	12,256
8/7/24	EAP Virtual Workshop	Priority Two Residents	postcard	English/Spanish	7,630
9/11/2024	EAP In-Person Workshop (Hanford)	Priority Two Residents (Hanford Area)	postcard	English/Spanish	4,031
11/25/2024	EAP Community Survey	Priority Two Residents	postcard	English/Spanish	7,630

				Total	**31,547**
2023 DIRECT MAIL					
In-home date	**Mailer Topic**	**Audience**	**Type**	**Language**	**Quantity**
1/9/2023	safe drinking water/survey tear off card	Residents in targeted Raisin City, Easton, Kerman area	postcard	English/Spanish	7,700
3/3/2023	Colorful postcard/webinar	Priority One Residents	postcard	English/Spanish	24,646
5/18/2023	safe drinking water/survey tear off card	Residents in targeted Sanger, Parlier, Selma, Fowler	postcard	English/Spanish	8,850
06/2023	Colorful postcard	Residents in targeted Sanger, Parlier, Selma, Fowler	postcard	English/Spanish	11,433
08/2023	Colorful postcard	Residents in Riverdale, Caruthers, Laton and San Jaoquin	postcard	English/Spanish	6,293
10/2023	Colorful postcard	Residents in Riverdale, Caruthers, Laton and San Jaoquin	postcard	English/Spanish	6,293
11/2023	Selma MZIP Meeting	Priority One Residents	postcard	English/Spanish	23,742
				Total	**88,957**
2022 DIRECT MAIL					

In-home date	Mailer Topic	Audience	Type	Language	Quantity
3/21/22	free well test/survey promotion	Impacted Residents 7.5-10+ mg/L-n, in targeted Alta I.D. area	postcard	English/Spanish	14,272
5/11/22	safe drinking water/survey promotion	Impacted Residents 7.5-10+ mg/L-n, in targeted Alta I.D. area	postcard	English/Spanish	14,272
8/17/2022	safe drinking water/survey/webinar	Priority One Residents	postcard	English/Spanish	24261
10/2022	safe drinking water/survey/workshop	Residents in targeted Raisin City, Easton, Kerman area	postcard	English/Spanish	7,700
				Total	**60,505**
2021 DIRECT MAIL					
In-home date	**Mailer Topic**	**Audience**		**Language**	**Quantity**
11/5/2020	Drinking Water Solutions - get involved; webinar promotion	Potentially impacted residents		English/Spanish	6,014
6/26/21	Targeted Resident July 1 Mailer	Impacted Residents 7.5-10+ mg/L-n		English/Spanish	16,500
09/2021	Vulnerable Populations mailer	Impacted residents, most vulnerable		English/Spanish	1,353
09/2021	Targeted Resident postcard	Impacted Residents 7.5-10+ mg/L-n		English/Spanish	25,000
				Total	**48,867**

Outreach Content and Materials

The KWA will develop and disseminate outreach materials that meet the needs of impacted residents and other interested stakeholders depending on their preferred method of receiving information. The KWA is committed to developing clear, consistent, and timely informational materials to help develop public understanding of the KWA, communicate information about short- and long-term drinking water solutions development and implementation and how they relate to impacted residents and other stakeholders, inform the public on how to get involved, and motivate stakeholders to contribute to KWA deliverables and activities. Outreach content and materials will be easy to understand, using plain language to communicate important information in addition to being visually appealing.

Based on the specific outreach and engagement purpose, written materials may include fact sheets, educational handouts, FAQs, presentations, maps, and graphics. Outreach materials will be available in print and website/digital formats and will be posted to the appropriate webpage, emailed, and distributed at meetings, workshops, and events.

Materials developed to date include:

- Flyers
- Webinar presentation slides
- Webinar recordings
- FAQs
- Digital Story Map
- Virtual Nitrate Control Program timeline webpages
- Resident testimonial videos

Digital Communication

Website

The KWA was previously using the Kings River Water Quality Coalition website (www.kingsriverwqc.org) but now has its own website (http://kingswateralliance.org/) to host Kings Water Alliance information and outreach materials. A dedicated EAP drinking water solutions webpage was developed that includes information and education on the Nitrate Control Program, the Kings Water Alliance, CV-SALTS program and links, and clear steps to engage in the drinking water solutions process. The KWA will include long-term drinking water solutions content in the near future. The webpage also includes information on past and upcoming community engagement opportunities. A Google translation tool is available on the webpage with translation capabilities into three additional languages: Spanish, Hmong, and Punjabi. The webpage is available at this link: http://kingswateralliance.org/. The webpage will

continue to be updated regularly with pertinent information, resources, and relevant documents.

Referral Program and Customer Satisfaction Survey

KWA plans to develop a Referral Program with the goal of having residents who are receiving bottled water deliveries refer others to Kings Water Alliance. This will be done through a Customer Satisfaction Survey where, at the end of the survey, it will ask if the resident is interested in receiving flyers to hand out to neighbors, relatives, or friends, and a yard sign to display that they received a well test from Kings Water Alliance. The survey will also include the opportunity for the resident to provide a testimonial, written or filmed, of their experience with Kings Water Alliance.

Email Distribution (Interested Persons List)

One of the fastest and easiest ways to stay up to date on KWA activities is by joining the interested persons email distribution list. An important method for keeping impacted residents and other interested stakeholders informed is via email updates using Constant Contact as a tool for distribution and email list management. The list is used to notify and encourage public involvement in meetings and events. To support transparency, emails detailing important decisions and upcoming events will continue to be sent to a growing list of interested persons.

There are two separate email lists for targeted communications:

- Nitrate dischargers (152 recipients)
- Impacted residents and other interested stakeholders (147recipients)

To date, the following email updates have been sent to dischargers, impacted residents, and other interested parties:

Table 10: Email Updates to Interested Persons for outreach and community engagement

Email Updates to Interested Persons				
Date	**Email Topic**	**# of Recipients**	**Open Rate**	**Click-through rate**
8/7/2020	Next Steps: Nitrate Control Program and Kings Management Zone	104	49%	32%
8/14/2020	Kings Management Zone- August Meeting	105	64%	26%
8/26/2020	Kings Management Zone- August Meeting	106	59%	53%
9/18/2020	Kings Management Zone- October Meeting	109	57%	55%
11/10/2020	Upcoming Webinar: EAP to address safe drinking water	115	55%	59%
11/19/2020	Reminder! Webinar tonight on EAP	138	45%	39%

Email Updates to Interested Persons				
Date	**Email Topic**	**# of Recipients**	**Open Rate**	**Click-through rate**
1/6/2021	Webinar #2: Community Drinking Water Solutions & Nov webinar resources	152	57%	40%
1/11/2021	Your survey response is requested	46	59%	56%
1/11/2021	Help us reach more impacted residents- Distribute flyer and info to your colleagues and staff	129	44%	23%
1/15/2021	Reminder: Your survey response is requested// today is last day to complete the drinking water survey!	50	44%	32%
1/18/2021	Help Us Drive Clean Drinking Water Solutions: WEBINAR #2	53	40%	38%
1/22/2021	Zoom Link: Safe Drinking Water Webinar #2	158	48%	24%
1/28/2021	TODAY @ 6! 💧 Safe Drinking Water Webinar #2 💧	164	34%	33%
2/1/2021	Helpful Resources & January 28 Webinar Recording	62	44%	33%
2/9/2021	Have your safe drinking water questions answered	63	49%	16%
2/10/2021	Join us anytime from now through 2:00 PM to have your questions answered	185	23%	39%
2/16/2021	Virtual Office Hours is now LIVE	185	32%	12%
2/22/2021	Last Call for Comments! Share Your Input on the Early Action Plan and PMZP	185	38%	26%
3/9/2021	Final Early Action Plan and PMZP Available for Download	187	48%	25%
5/3/2021	Fee Structure Workshops for Dischargers	75	39%	39%
5/6/2021	Fee Structure Workshops for Dischargers Reminder	75	38%	43%
5/7/2021	Early Action Plan and PMZP Approved by Regional Board	192	51%	33%
5/12/2021	Early Action Plan Kick-Off: Next Steps to Bring Drinking Water to Residents	192	43%	22%
5/21/2021	EAP Kick-Off Webinar Reminder	207	32%	16%
5/24/2021	Thank you for registering for tomorrow's EAP Kick-Off Webinar	41	73%	23%
5/25/2021	Early Action Plan Kick-Off Webinar TODAY @ 5:30	218	40%	20%
6/3/2021	Webinar Recording and Presentation Available	93	48%	30%
6/9/2021	KWA Stakeholder Advisory Committee Meeting: Wednesday, June 10	161	37%	22%

Email Updates to Interested Persons				
Date	Email Topic	# of Recipients	Open Rate	Click-through rate
7/6/2021	KWA Stakeholder Advisory Committee Meeting	101	47%	24%
7/9/2021	July Educational Webinars	103	44%	21%
7/14/2021	July Mini Webinar Series for Residents	119	35%	15%
7/19/2021	Mini Webinar Series for Well Owners	110	47%	10%
7/23/2021	30-Minute Webinars...	121	43%	6%
7/26/2021	Nitrates in Groundwater: 30-Minute Webinar	137	44%	21%
7/28/2021	Today @ Noon: Nitrates in Groundwater 30-Minute Webinar	26	80%	52%
7/28/2021	Nitrate Basics Webinar Survey	27	69%	19%
7/28/2021	Filling Out The Well Test Form: 30-Minute Webinar	130	42%	4%
7/29/2021	Well Form Webinar 7/29 Zoom link	13	85%	36%
7/30/2021	In 10 minutes! Learn how to fill out the Well Test Form @ Noon	128	30%	5%
8/2/2021	Webinar Recordings Available	151	42%	11%
9/27/2021	Domestic Well Owner Workshop Promo	137	47%	2%
10/7/2021	Domestic Well Owner Workshop Promo	138	38%	2%
10/11/2021	Domestic Well Owner Workshop Promo	138	41%	5%
10/13/2021	Domestic Well Owner Workshop Materials Available	142	45%	7%
5/26/2022	One Year Recap	148	45%	5%
5/31/2022	Press Release	34	46%	0%
8/9/2022	Stakeholder Advisory Committee Meeting: 8-11-22	147	48%	9%
8/11/2022	KWA Early Action Plan PMZP Draft Public Comment	169	53%	9%
8/16/2022	KWA Early Action Plan PMZP Draft Public Comment Office Hours	169	46%	5%
8/16/2022	Testing and Drinking Water Webinar 8-31-22	147	39%	1%
8/23/2022	KWA- Reminder Testing and Drinking Water Webinar 8-31-22	148	40%	1%
8/26/2022	KWA- In 5 Days Testing and Drinking Water Webinar 8-31-22	148	41%	3%
8/30/2022	KWA- Tomorrow-Testing and Drinking Water Webinar 8-31-22	151	37%	3%
8/31/2022	KWA- Today-Testing and Drinking Water Webinar 8-31-22	17	65%	24%
10/5/2022	KWA- Testing and Drinking Water Workshop p 10-20-22	154	42%	3%
10/10/2022	KWA press release 10-10-22 - Spanish	5	25%	0%

Email Updates to Interested Persons				
Date	**Email Topic**	**# of Recipients**	**Open Rate**	**Click-through rate**
10/10/2022	KWA press release 10-10-22	55	59%	3%
10/17/2022	KWA- Reminder Testing and Drinking Water Workshop 10-20-22	154	38%	1%
3/3/2023	KWA- Testing and Drinking Water Webinar 3-15-23	157	44%	4%
3/13/2023	KWA- In 2 Days Testing and Drinking Water Webinar 3-15-23	160	42%	2%
4/28/2023	KWA- Irrigated Agriculture Email	149	54%	4%
7/26/2023	KWA Back to School Events at the Library 7-26-23	141	39%	2%
8/24/2023	KWA science vs. unsafe water 8-22-23	177	39%	2%
10/12/2023	KWA-MZIP Community Engagement Meeting	218	53%	7%
10/19/2023	KWA- One week away- MZIP Community Engagement Meeting	218	53%	3%
10/26/2023	KWA-TODAY- MZIP Community Engagement Meeting	218	53%	5%
11/16/2023	KWA- Drinking Water Community Engagement Meeting	225	48%	3%
12/1/2023	KWA- In less than 2 weeks, Drinking Water Community Engagement Meeting	221	55%	2%
12/14/2023	KWA- Today, Drinking Water Community Engagement Meeting	222	57%	5%
1/17/2024	KWA- Tomorrow SAC meeting	174	63%	5%
1/22/2024	KWA- SAC meeting Follow-Up	28	70%	4%
5/15/2024	KWA press release 5-14-2024	92	66%	3%
6/3/2024	KWA- Well Referral Program- bottle delivery residents	351	63%	1%
8/15/2024	KWA_Aug27_Webinar_Invite_1	243	48%	5%
9/12/2024	KWA_Sept24_In-Person_Invite_1	233	55%	5%
11/19/2024	KWA Dec In-Person Invite 1	TBD	TBD	TBD

An example of an email notice sent to the impacted residents and interested stakeholders list is included in Appendix A-4.

YouTube

A YouTube account for the Kings Water Alliance has been established. The account serves as an outreach tool to share multimedia content. Videos will work to educate the public while providing a catalogue of past webinars and outreach events for public reference.

Table 11: YouTube Videos

YouTube Videos		
Date	**Title**	**Views**
2/1/2021	Safe Drinking Water Webinar: January 28, 2021	31
5/26/2021	Early Action Plan Kick-Off: Next Steps to Bring Drinking Water to Residents	47
7/30/2021	Nitrates in Groundwater: The Basics	55
8/2/2021	How-to: Filling Out the Well Test Form	18
9/2021	Free Safe Water	8
10/2021	Domestic Well Owner Workshop	13
10/2021	Bottled Water Program Overview	13
6/2022	KWA Interview Video	12
7/12/2022	A well Owner's Journey to Secure Safe Drinking Water	8
8/4/2022	Local Well Owner Describes her Experience with Kings Water Alliance	36
9/1/2023	Testing and Drinking Water Webinar August 31, 2022 Recording	6
9/6/2023	Kings Water Alliance Free Well Testing and Bottled Water Delivery GIF	41
10/31/2023	Is Your Well Water Safe to Drink?	80
10/31/2023	Is Your Well Water Safe to Drink? Loop	0
2/22/2023	Hello, Is your Well Water Safe to Drink?	3,287

Social Media

KWA uses several social media channels as means to increase the reach to impacted residents about our safe drinking water programs, reinforce KWA's brand and engage with stakeholders. KWA is currently actively using the following platforms: Facebook, Instagram, Twitter and Nextdoor.

To further the reach to residents and stakeholders, KWA has engaged in social media advertising by boosting several Facebook and Instagram posts along with purchasing Google Ads. KWA plans to continue to actively boost and purchase online advertisements.

Non-digital communication

Newspaper Advertising

In October 2022, KWA advertised its resources in the Fresno Bee Newspaper. In April 2023, KWA advertised its resources in the Vida en el Valle Spanish Newspaper. KWA plans to purchase

more printed advertising with rural publications. Examples of the newspaper advertisements are included in Appendix A-5.

Rural Advertising

KWA plans to reach out to rural transit agencies and businesses to advertise our services in the form of a poster or banner advertisement. KWA also plans to advertise in rural community publications and in church pamphlets or newsletters.

Phone line

In October 2020, the KWA's dedicated phone line became available for impacted residents and other interested stakeholders to contact with questions or comments on EAP development and implementation. Spanish interpretation is available on the phone line when and if needed. The phone number (559) 549-6747 is included on all outreach materials and on the webpage.

Physical Address

The KWA currently shares a physical address with the Kings River Water Quality Coalition. A PO Box is provided on all communications materials and on the webpage if impacted residents and other interested stakeholders prefer to communicate via direct mail.

Media Coverage – Print, Digital, Radio

The KWA has identified preferred media outlets to provide information regarding outreach and engagement. This may include press releases, newspaper articles, and media briefings. Media outreach will seek to promote public engagement and understanding. The KWA will maintain a list of regional media including radio, television, newspapers, and organizational newsletters along with state and specialized media.

To date, individuals from the following media outlets have been actively engaged:

Table 12: Media outlets engaged

News/Media
Fresno County Farm Bureau Newsletter
Fresnoland
Cutler/Orosi News

Table 13: Media Interviews

Media Interviews		
Date	**Topics**	**Channel**
1/21/2021	Promotion of Jan 28 Webinar	KBIF 900AM Punjabi Radio, Radio Bilingue, Hmong Radio
6/25/2021	Dischargers' charged with cleaning up nitrates in groundwater	The Business Journal
9/4/2021	KWA Overview & Bottled Water Program	Radio Bilingue
1/28/22	KWA Overview & Bottled Water Program	Radio Bilingue - Community Calendar
8/19/2022	KWA Overview & Bottled Water Program	Radio Bilingue
10/19/2022	Local nonprofit focused on providing clean drinking water	ABC 30
8/28/2024	Rural Kings County families have a 50-50 chance their well is contaminated with nitrates	SJV Water

Drinking Water Survey

To better understand the priorities of impacted residents, the KWA conducted a drinking water survey. The survey provides an opportunity for impacted residents and other interested stakeholders to identify their solutions preferences and identify challenges to varying drinking water solutions. The Kings Water Alliance collaborated with the environmental justice organization Leadership Counsel for Justice and Accountability (LCJA) to develop and distribute the survey. The survey was disseminated via a diverse set of communications channels including the Kings Water Alliance interested persons email list, LCJA's email and text message lists, including through 16 additional community organizations and NGOs, and LCJA's community Facebook group to ensure wide distribution to the relevant stakeholder groups. The survey was offered in both English and Spanish. Data received from the results were distributed to the KWA staff, technical consultants, and Board for review and consideration.

The KWA will be utilizing additional drinking water surveys to identify preferences and challenges for short- and long-term drinking water solutions.

Outreach and Engagement Evaluation

Outreach and Communication Awards

In 2022, KWA's outreach campaign won two awards: the Public Relations Society of America Program Award-Campaign of the Year and the Association of California Water Agencies Huell Howser Excellence in Communications Award. The application for both of the awards

highlighted the strategic communication tactics used to connect with rural communities as well as the strategic partnerships made with the Central California Food Bank and student volunteer from California State University, Fresno.

Three Month Targeted Area Outreach Campaigns

The objective of a three-month targeted outreach campaign is to saturate a targeted area with multiple communications promoting KWA's short- and long-term drinking water solutions with the goal of boosting community involvement and program participation. Communication channels used include online ads, direct mail, social media, community events, flyer distribution at schools and major businesses, door-to-door canvasing, and media relations. The four targeted areas include:

- Area 1: Dinuba, Orosi, Cutler, Reedley, Orange Cove Area
- Area 2: Kerman, Easton, Raisin City Area
- Area 3: Sanger, Selma, Kingsburg, Fowler Area
- Area 4: Riverdale, Caruthers, Lanare, Laton, San Joaquin Area

In February 2022, the first targeted area was the southeastern portion of the Priority 1 service area, which is one of the areas identified as having high nitrate levels in the groundwater. Between October 2022 and June 2023, KWA conducted two more 3-month targeted outreach campaigns in the western and eastern portions of the Priority 1 service area. The fourth 3-month targeted outreach campaign began August 2023.

Tracking Sheet

To effectively measure outreach and engagement tactics against the goals and objective outlined in this strategy, a tracking document has been established for use across KWA staff in Google Sheets. The tracking sheet will ensure effective outreach and engagement reporting to the KWA Board, public, and Water Board. Upon evaluation, the tracking sheet may assist KWA staff in pivoting efforts to increase clarity and efficiency of achieving the goals and objectives of this outreach strategy.

Measuring the success requires tracking the following metrics:

- Awareness and Reach Metrics:
    - Quantify the number of channels utilized to communicate
    - Quantify output of materials/touchpoints across communications channel
    - Quantify the number of individuals receiving communications across channels
- Engagement Metrics:
    - Website analytics

    - Email open rate and click through rate
    - Workshop and meeting attendance
    - Phone calls received
- Impact Metrics:
    - Track key topics and questions posed by public
    - Increase in engagement over time
    - Level of support and cooperation expressed by stakeholders

The KWA staff will assess metrics on a quarterly basis, and pivot tactics on an as needed basis to ensure effective and efficient communication.

Reports to the Board and Stakeholder Committee

KWA staff will provide outreach and engagement activities reports to the Board and Stakeholder Committee as needed. This will give an opportunity for the Board, representatives of diverse stakeholder groups, and members of the public to provide comment and recommendations to KWA staff on ongoing outreach and engagement activities during short- and long-term development and implementation.

APPENDIX A-1 KWA OUTREACH EFFORTS (2020 – PRESENT)

KWA OUTREACH EVENTS 2024			
Date	**Event Name (Calendar)**	**Event Type**	**Location (City)**
1/22/2024	KC Health Equity Advisory Panel	Food Bank	Parlier
1/18/2024	The Children's Movement Podcast	Online Podcast	Online
1/31/2024	Fresno State Community Service Fair	Resource Fair	Fresno
2/21/2024	Dinuba Food Bank	Food Bank	Dinuba
2/24/2024	Caruthers Food Bank	Food Bank	Caruthers
2/27/2024	Cutler Food Bank	Food Bank	Cutler
2/28/2024	Dinuba Food Bank	Food Bank	Dinuba
3/1/2024	Parlier Food Bank	Food Bank	Parlier
3/8/2024	Dinuba Food Bank	Food Bank	Dinuba
3/9/2024	Sultana-Monson School District Farmworkers Fair	Resource Fair	Sultana
3/11/2024	Orange Cove Food Bank	Food Bank	Orange Cove
3/11/2024	Dinuba Food Bank	Food Bank	Dinuba
3/13/2024	Parlier Unified School District Showcase	Resource Fair	Parlier
3/20/2024	Dinuba Food Bank	Food Bank	Dinuba
3/20/2024	Kerman Farmers Market	Farmers Market	Kerman
3/22/2024	Dinuba Food Bank	Food Bank	Dinuba
3/22/2024	Fresno State World Water Day	Resource Fair	Fresno
3/23/2024	Dinuba Spring Fling	Community event	Dinuba
3/25/2024	Laton Food Bank	Food Bank	Laton
3/25/2024	Orange Cove Food Bank	Food Bank	Orange Cove
3/26/2024	Cutler Food Bank	Food Bank	Cutler
3/29/2024	Dinuba Food Bank	Food Bank	Dinuba
4/3/2024	Fresno State Research Symposium	Community event	Fresno
4/5/2024	Parlier Food Bank	Food Bank	Parlier
4/6/2024	Orange Cove Resource Fair	Resource Fair	Orange Cove
4/11/2024	Parlier Resource Fair	Resource Fair	Parlier
4/16/2024	Raisin City Food Bank	Food Bank	Raisin City

4/17/2024	Kerman Farmers Market	Farmers Market	Kerman
4/18/2024	Fresno Resource Fair	Resource Fair	Fresno
4/19/2024	MZIP Meeting at CVWQCB Office	Meeting	Fresno
4/20/2024	Fresno Zoo party for the planet	Resource Fair	Fresno
4/22/2024	Laton Food Bank	Food Bank	Laton
4/23/2024	Cutler Food Bank	Food Bank	Cutler
4/23/2024	Dinuba High School Resource Fair	Resource Fair	Dinuba
4/24/2024	Biola Food Bank	Food Bank	Biola
4/25/2024	Reedley College Farmers Market	Farmers Market	Reedley
4/27/2024	Parlier Round Up	Community event	Parlier
4/27/2024	TCM Fresno Resident's Movement	Community event	Fresno
4/30/2024	FID Grower's Meeting	Community event	Kerman
5/1/2024	FID Grower's Meeting	Community event	Easton
5/1/2024	Dinuba Food Bank	Food Bank	Dinuba
5/2/2024	Reedley College Farmers Market	Community event	Reedley
5/4/2024	Kerman Almond Festival and Car show	Community event	Kerman
5/15/2024	Kerman Farmers Market	Community event	Kerman
8/27/2024	Fresno City College Volunteer Fair	Volunteer Fair	Fresno
8/28/2024	Fresno State Volunteer Fair	Volunteer Fair	Fresno
9/18/2024	Fresno State Umoja Cookout	Job Fair	Fresno
9/24/2024	Lanare Food Distribution	Food Bank	Lanare
9/26/2024	Kings County Resource Fair	Resource Fair	Hanford
10/16/2024	Reedley College Experience Fair	Experience Fair	Reedley
10/24/2024	Selma Community Health & Resource Fair	Resource Fair	Selma
10/31/2024	Fresno West Community Health & Resource Fair	Resource Fair	Fresno
11/2/2024	Veterans 5 K Run	Community event	Parlier
11/16/2024	Annadale Baptist Church	Food Bank	Sanger
11/18/2024	The Salvation Army San Joaquin	Food Bank	San Joaquin
11/20/2024	Lemoore College Turkey Distribution	Food Dist.	Lemoore

KWA OUTREACH EVENTS 2023

Date	Event Name (Calendar)	Event Type	Location (City)
3/17/2023	Parlier Food Distribution	Food Bank	Parlier
3/25/2023	Sanger Food Distribution	Food Bank	Sanger
3/26/2023	Selma Flea Market	Swap Meet	Selma
3/29/3023	Open House at Quail Lake	School event	Sanger
3/30/2023	Future of Ag in California at Fresno State Summit	Summit	Fresno
4/1/2023	Reedley Fitness and Health Expo	Expo	Reedley
4/13/2023	Del Rey Food Distribution	Food Bank	Del Rey
4/13/2023	Selma Food Distribution	Food Bank	Selma
4/18/2023	Orange Cove Resource Fair with Joaquin Arabula	Resource Fair	Orange Cove
4/21/2023	Parlier Food Distribution	Food Bank	Parlier
4/22/2023	Sanger Food Distribution	Food Bank	Sanger
4/25/2023	Selma Enhancement Food bank	Food Bank	Selma
4/25/2023	Calwa Park Resource Fair with Joaquin Arabula	Resource Fair	Calwa Park
4/27/2023	Fresno Resource Fair with Joaquin Arabula	Resource Fair	Frenso
4/27/2023	Selma Food Distribution	Food Bank	Selma
4/29/2023	Parlier Round Up Information Booth	Carnival	Parlier
6/13/2023	Lanare Community Center	Food Bank	Riverdale
6/14/2023	Biola Community Services District	Food Bank	Biola
6/21/2023	Kerman Food Bank	Food Bank	Kerman
6/22/2023	Easton Mobile Health Event	Mobile Health Event	Easton
6/21/2023	Open Gate Ministries Food Bank	Food Bank	Dinuba
6/27/2023	Selma Food Bank	Food Bank	Selma
7/10/2023	Orange Cove Food Bank	Food Bank	Orange Cove
7/11/2023	Lanare Community Center	Food Bank	Lanare
7/18/2023	Del Rey Mobile Health Unit	Mobile Health Event	Del Rey
7/20/2023	Lanare Community Center	Food Bank	Lanare
7/21/2023	Parlier Food Distribution	Food Bank	Parlier
7/24/2023	Orange Cove Food Bank	Food Bank	Orange Cove
7/25/2023	Cutler	Food Bank	Culter

7/27/2023	Reedley MICA	Food Bank	Reedley
8/8/2023	Lanare Community Center	Food Bank	Lanare
8/1/2023	Kings County Health Equity Advisory	Community Meeting	Hanford
8/12/2023	San Joaquin Back to School Event	Resource Fair	San Joaquin
8/23/2023	Biola Community Services District	Food Bank	Biola
8/28/2023	Reedley Boy and Girls Club Opening	Resource Fair	Reedley
8/30/2023	Fresno State Community Service Fair	Resource Fair	Fresno
9/6/2023	San Joaquin Food Bank	Food Bank	San Joaquin
9/8/2023	Fresno Grizzlies Baseball Game	Food Bank	Fresno
9/12/2023	Lanare Community Center	Food Bank	Lanare
9/19/2023	Laton Nazarrene Church	Food Bank	Laton
10/2/2023	Easton SHE Meeting	Community Meeting	Easton
10/4/2023	Fowler Food Bank	Food Bank	Fowler
10/5/2023	Laton Nazarrene Church	Food Bank	Laton
10/11/2023	Biola Community Services District	Food Bank	Biola
10/13/2023	Reedley Fiesta	Carnival	Reedley
10/14/2023	Reedley Fiesta	Carnival	Reedley
10/19/2023	Lanare Community Center	Food Bank	Lanare
10/19/2023	Selma Resource Fair	Resource Fair	Selma
10/24/2023	Selma Food Bank	Food Bank	Selma
10/25/2023	Kerman Ag Expo	Community	Kerman
10/26/2023	Sanger Resource Fair	Resource Fair	Sanger
11/4/2023	Parlier Veterans 5k and 1Mi run/walk	Community Event	Parlier
11/7/2023	Sanger Community of Caring Task Force Meeting	Community Meeting	Sanger
11/8/2023	Biola Community Services District	Food Bank	Biola
11/9/2023	Selma Food Bank	Food Bank	Selma
11/13/2023	Sanger EOC Food Bank	Food Bank	Sanger
11/15/2023	Malaga Food Bank	Food Bank	Malaga
11/15/2023	Kerman Food Bank	Food Bank	Kerman
11/16/2023	Lanare Community Center	Food Bank	Lanare
11/18/2023	Laton Nazarrene Church	Food Bank	Laton

11/22/2023	Raisin City Food Bank	Food Bank	Raisin City
11/22/2023	Biola Community Services District	Food Bank	Biola
11/28/2023	UCANR Workshop	Workshop	Fresno
12/1/2023	Parlier Food Bank	Food Bank	Parlier
12/1/2023	Caruthers Food Bank	Food Bank	Caruthers
TOTAL			

KWA OUTREACH EVENTS 2022

	Event Name (Calendar)	Event Type	Location (City)
2/28/22	USDA Food Distribution - Orange Cove	Food Bank	Orange Cove
3/4/22	USDA Food Distribution - Parlier	Food Bank	Parlier
3/15/22	USDA Food Distribution - Raisin City	Food Bank	Raisin City
3/22/22	World Water Day	campus	Fresno State
4/5/2022	Neighborhood Market - Orange Cove	Food Bank	Orange Cove
4/16/2022	Laton Food Distribution	Food Bank	Laton
4/26/2022	Culter Food Distribution	Food Bank	Cutler
5/17/2022	Orosi Food Distribution	Food Bank	Orosi
6/3/2022	Dinuba Food Distribution	Food Bank	Dinuba
9/14/2022	Raisin City Food Distribution	Food Bank	Raisin City
9/15/2022	Kerman Harvest Festival	Community	Kerman
9/16/2022	Kerman Harvest Festival	Community	Kerman
9/17/2022	Easton Cherry Auction	Swap Meet	Easton
9/18/2022	Kerman Harvest Festival	Community	Kerman
9/21/2022	Kerman Food Distribution	Food Bank	Kerman
9/21/2022	Kerman Farmers Market	Community	Kerman
9/24/2022	West Park Food Bank	Food Bank	Easton
10/1/2022	Easton Cherry Auction	Swap Meet	Easton
10/15/2022	Easton Cherry Auction	Swap Meet	Easton
10/18/2022	Kerman Health Fair	Community	Kerman
10/19/2022	Kerman Health Fair	Food Bank	Kerman

10/19/2022	Kerman Farmers Market	Community	Kerman
10/25/2022	Easton Cherry Auction	Swap Meet	Easton
10/26/2022	Kerman Ag Expo	Community	Kerman
11/4/2022	Easton Food Bank	Food Bank	Easton
11/15/2022	Raisin City Food Bank	Food Bank	Raisin City
11/16/2022	Kerman Food Bank	Food Bank	Kerman

TREACH EVEN			
Date	**Event Name (Calendar)**	**Event Type**	**Location (City)**
11/19/2020	EAP Community Drinking Water Webinar	Webinar	Online (Zoom)
1/28/2021	EAP Community Drinking Water Webinar #2	Webinar	Online (Zoom)
2/8/2021	AGUA Coalition Call	Online (Zoom)	Online (Zoom)
2/10/2021	Virtual Office Hours	Office Hours	Online (Zoom)
2/26/2021	Virtual Office Hours	Office Hours	Online (Zoom)
5/26/2021	KWA Kick-Off Webinar	Webinar	Online (Zoom)
7/27/2021	Nitrates in Groundwater: The Basics (Webinar #1)	Webinar	Online (Zoom)
7/28/2021	Nitrates in Groundwater: The Basics Webinar (Webina	Webinar	Online (Zoom)
7/29/2021	How-to: Filling out the Well Test Form	Webinar	Online (Zoom)
7/30/2021	How-to: Filling out the Well Test Form	Webinar	Online (Zoom)
9/14/2021	Neighborhood Market - Lanare Community Center	Food Bank	Lanare
9/16/2021	USDA Food Dist - Lanare Community Center	Food Bank	Lanare
9/21/2021	Food Dist - Laton Church of the Nazarene	Food Bank	Laton
10/12/2021	Domestic Well Workshop	Workshop	Easton
10/16/2021	Food Distribution - Laton	Food Bank	Laton
10/25/2021	Neighborhood Market - Orange Cove	Food Bank	Orange Cove
10/28/2021	Food Distribution-Laton	Food Bank	Laton

KWA-HOSTED MEETINGS/WORKSHOPS		
Date	**Meeting Type**	**Location**
11/19/2020	EAP Community Drinking Water Webinar	Online (Zoom)
1/28/2021	EAP Community Drinking Water Webinar #2	Online (Zoom)
2/10/2021	Virtual Office Hours	Online (Zoom)
2/26/2021	Virtual Office Hours	Online (Zoom)
5/25/2021	KWA Kick-Off Webinar	Online (Zoom)
7/27/2021	Nitrates in Groundwater: The Basics (Webinar #1)	Online (Zoom)
7/28/2021	Nitrates in Groundwater: The Basics Webinar (Webinar #2)	Online (Zoom)
7/29/2021	How-to: Filling out the Well Test Form	Online (Zoom)
7/30/2021	How-to: Filling out the Well Test Form	Online (Zoom)
10/12/2021	Domestic Well Owner Workshop	Easton
8/31/2022	Testing and Drinking Water Webinar	Online (Zoom)
10/20/2022	Testing and Drinking Wate Workshop	in-person- Kerman
3/15/2023	Testing and Drinking Water Webinar	Online (Zoom)
7/31/2023	Back to School Event	Orange Cove Library
8/1/2023	Back to School Event	Parlier Library
8/2/2023	Back to School Event	Riverdale Library
8/3/2023	Back to School Event	Easton
8/30/2023	Science VS. Unsafe Water	Caruthers

10/26/2023	MZIP Comunity Engagement Meeting	Online (Zoom)
12/14/2023	Drinking Water Community Engagement Meeting	Hybrid
1/18/2024	SAC meeting	Online (Teams)
4/25/2024	SAC meeting	Online (Teams)
8/27/2024	EAP Community Drinking Water Webinar (P2)	Online (Zoom)
9/24/2024	EAP Community Drinking Water In-person Meeting (P2)	In-Person-Hanford

2024 EMAIL UPDATES		
Date	**Email Topic**	**Email List**
1/17/2024	KWA- Tomorrow SAC meeting	KWA: Stakeholders
1/22/2024	KWA- SAC meeting Follow-Up	KWA Stakeholder Advisory Comm. Members
5/15/2024	KWA press release 5-14-2024	KWA Board Members, KWA Community Influencers, KWA Stakeholder Advisory Comm. Members, KWA Technical Advisory Committee, Media Magazine, Media Online, Media Print, Media Radio, Media Spanish, Media Television
6/3/2024	KWA- Well Referral Program- bottle delivery residents	KWA Well Referral Program- bottle delivery residents
8/15/2024	KWA_Aug27_Webinar_Invite_1	KWA Board Members, KWA Stakeholder Advisory Comm. Members, KWA: Stakeholders
9/12/2024	KWA_Sept24_In-Person_Invite_1	KWA Board Members, KWA Stakeholder Advisory Comm. Members, KWA: Stakeholders
11/19/24	KWA Dec In-Person Invite 1	KWA Board Members, KWA Stakeholder Advisory Comm. Members, KWA: Stakeholders

2023 EMAIL UPDATES		
Date	**Email Topic**	**Email List**
3/3/2023	KWA- Testing and Drinking Water Webinar 3-15-23	KWA Stakeholders
3/13/2023	KWA- In 2 Days Testing and Drinking Water Webinar 3-15-23	KWA Stakeholders
4/28/2023	KWA- Irrigated Agriculture Email	KWA- Irrgated Ag
7/26/2023	KWA Back to School Events at the Library 7-26-23	KWA Stakeholders
8/24/2023	KWA science vs. unsafe water 8-22-23	KWA Board Members, KWA Stakeholder Advisory Comm. Members, KWA: Stakeholders
10/12/2023	KWA-MZIP Community Engagement Meeting	KWA Board Members, KWA Stakeholder Advisory Comm. Members, KWA: Stakeholders, KWA Additional 10262023
10/19/2023	KWA- One week away- MZIP Community Engagement Meeting	KWA Additional 10262023, KWA Board Members, KWA Community Influencers, KWA Stakeholder Advisory Comm. Members, KWA Technical Advisory Committee, KWA: Stakeholders
10/26/2023	KWA-TODAY- MZIP Community Engagement Meeting	KWA Additional 10262023, KWA Board Members, KWA Community Influencers, KWA Stakeholder Advisory Comm. Members, KWA Technical Advisory Committee, KWA: Stakeholders
11/16/2023	KWA- Drinking Water Community Engagement Meeting	KWA Additional 10262023, KWA Board Members, KWA Community Influencers, KWA Stakeholder Advisory Comm. Members, KWA Technical Advisory Committee, KWA: Stakeholders
12/1/2023	KWA- In less than 2 weeks, Drinking Water Community Engagement Meeting	KWA Additional 10262023, KWA Board Members, KWA Community Influencers, KWA Stakeholder Advisory Comm. Members, KWA: Stakeholders
12/14/2023	KWA- Today, Drinking Water Community Engagement Meeting	KWA Additional 10262023, KWA Board Members, KWA Community Influencers, KWA Stakeholder Advisory Comm. Members, KWA: Stakeholders

2022 EMAIL UPDATES		
Date	**Email Topic**	**Email List**
5/26/2022	One Year Recap	KWA Stakeholders
5/31/2022	Press Release	Media Online, Media Print, Media Radio, Media Television
8/9/2022	Stakeholder Advisory Committee Meeting: 8-11-22	KWA: Stakeholders
8/11/2022	KWA Early Action Plan PMZP Draft Public Comment	KWA Board Members, KWA Stakeholder Advisory Comm. Members, KWA Technical Advisory Committee, KWA: Stakeholders
8/16/2022	KWA Early Action Plan PMZP Draft Public Comment Office Hours	KWA Board Members, KWA Stakeholder Advisory Comm. Members, KWA Technical Advisory Committee, KWA: Stakeholders
8/16/2022	Testing and Drinking Water Webinar 8-31-22	KWA: Stakeholders
8/23/2022	KWA- Reminder Testing and Drinking Water Webinar 8-31-22	KWA: Stakeholders
8/26/2022	KWA- In 5 Days Testing and Drinking Water Webinar 8-31-22	KWA: Stakeholders
8/30/2022	KWA- Tomorrow-Testing and Drinking Water Webinar 8-31-22	KWA: Stakeholders
8/31/2022	KWA- Today-Testing and Drinking Water Webinar 8-31-22	KWA Webinar 8-31-22
10/5/2022	KWA- Testing and Drinking Water Worksho p 10-20-22	KWA: Stakeholders
10/10/2022	KWA press release 10-10-22 - Spanish	Media Spanish
10/10/2022	KWA press release 10-10-22	Media Online, Media Print, Media Radio, Media Television
10/17/2022	KWA- Reminder Testing and Drinking Water Workshop	KWA: Stakeholders

2021 EMAIL UPDATES		
Date	**Email Topic**	**Email List**
1/6/2021	Webinar #2: Community Drinking Water Solutions & Nov webinar resources	CV-SALTS: Nitrate Control Program, EAP Webinar Registrants, ILRP - Nitrate Management Program - Management Zone Formation
1/11/2021	Your survey response is requested	CV-SALTS: Nitrate Control Program
1/11/2021	Help us reach more impacted residents- Distribute flyer and infor to your colleagues and staff	ILRP - Nitrate Management Program - Management Zone Formation
1/15/2021	Reminder: Your survey response is requested// today is last day to complete the drinking water survey!	CV-SALTS: Nitrate Control Program
1/18/2021	Help Us Drive Clean Drinking Water Solutions: WEBINAR #2	CV-SALTS: Nitrate Control Program

1/22/2021	Zoom Link: Safe Drinking Water Webinar #2	CV-SALTS: Nitrate Control Program, Drinking Water Webinar #2 Registrants, ILRP - Nitrate Management Program - Management Zone Formation
1/28/2021	TODAY @ 6! 💧 Safe Drinking Water Webinar #2 💧	CV-SALTS: Nitrate Control Program, Drinking Water Webinar #2 Registrants, ILRP - Nitrate Management Program - Management Zone Formation
2/1/2021	Helpful Resources & January 28 Webinar Recording	CV-SALTS: Nitrate Control Program
2/9/2021	Have your safe drinking water questions answered	CV-SALTS: Nitrate Control Program
2/10/2021	Join us anytime from now through 2:00 PM to have your questions answered	CV-SALTS: Nitrate Control Program, ILRP - Nitrate Management Program - Management Zone Formation
2/16/2021	Virtual Office Hours is now LIVE	CV-SALTS: Nitrate Control Program, ILRP - Nitrate Management Program - Management Zone Formation
2/22/2021	Last Call for Comments! Share Your Input on the Early Action Plan and PMZP	CV-SALTS: Nitrate Control Program, ILRP - Nitrate Management Program - Management Zone Formation
3/9/2021	Final Early Action Plan and PMZP Available for Download	CV-SALTS: Nitrate Control Program, ILRP - Nitrate Management Program - Management Zone Formation
5/3/2021	Fee Structure Workshops for Dischargers	KWA Category 1, KWA Category 2, KWA category 3, KWA Category Other
5/6/2021	Fee Structure Workshops for Dischargers Reminder	KWA Category 1, KWA Category 2, KWA category 3, KWA Category Other
5/7/2021	Early Action Plan and PMZP Approved by Regional Board	CV-SALTS: Nitrate Control Program, ILRP - Nitrate Management Program - Management Zone Formation
5/12/2021	Early Action Plan Kick-Off: Next Steps to Bring Drinking Water to Residents	CV-SALTS: Nitrate Control Program, ILRP - Nitrate Management Program - Management Zone Formation
5/21/2021	EAP Kick-Off Webinar Reminder	ILRP - Nitrate Management Program - Management Zone Formation, KWA: Stakeholders
5/24/2021	Thank you for registering for tomorrow's EAP Kick-Off Webinar	Webinar Registrants
5/25/2021	Early Action Plan Kick-Off Webinar TODAY @ 5:30	ILRP - Nitrate Management Program - Management Zone Formation, KWA: EAP Kick-Off Webinar Registrants, KWA: Stakeholders
6/3/2021	Webinar Recording and Presentation Available	KWA: Stakeholders
6/9/2021	KWA Stakeholder Advisory Committee Meeting: Wednesday, June 10	KWA: Discharger Category 1, KWA: Discharger Category 2, KWA: Discharger Category 3, KWA: Discharger Category Other, KWA: Stakeholders

7/6/2021	KWA Stakeholder Advisory Committee Meeting	KWA: Stakeholders
7/9/2021	July Educational Webinars	KWA: Stakeholders
7/14/2021	July Mini Webinar Series for Residents	KWA: EAP Kick-Off Webinar Registrants, KWA: Stakeholders
7/19/2021	Mini Webinar Series for Well Owners	KWA: Stakeholders
7/23/2021	30-Minute Webinars...	KWA: Stakeholders
7/26/2021	Nitrates in Groundwater: 30-Minute Webinar	KWA- nitrates in groundwater webinar registrants, KWA: Stakeholders
7/28/2021	Today @ Noon: Nitrates in Groundwater 30-Minute Webinar	7/28 nitrate webinar registrants
7/28/2021	Nitrate Basics Webinar Survey	KWA Nitrates in Groundwater: The Basics (webinar attendees)
7/28/2021	Filling Out The Well Test Form: 30-Minute Webinar	KWA- well test form webinar registrants, KWA: Stakeholders
7/29/2021	Well Form Webinar 7/29 Zoom link	KWA- 7/29 well test webinar registrants
7/30/2021	In 10 minutes! Learn how to fill out the Well Test Form @ Noon	KWA- 7/30 well test form webinar registrants, KWA: Stakeholders
8/2/2021	Webinar Recordings Available	KWA Nitrates in Groundwater: The Basics (webinar attendees), KWA- 7/29 well test webinar registrants, KWA- 7/30 well test form webinar registrants, KWA- nitrates in groundwater webinar registrants, KWA- well test form webinar registrants, KWA: Stakeholders
9/27/2021	Domestic Well Owner Workshop Promo	KWA: Stakeholders
10/7/2021	Domestic Well Owner Workshop Promo	KWA: Stakeholders
10/11/2021	Domestic Well Owner Workshop Promo	KWA: Stakeholders
10/13/2021	Domestic Well Owner Workshop Materials Available	KWA: Stakeholders
2020 EMAIL UPDATES		
Date	**Email Topic**	
8/7/2020	Next Steps: Nitrate Control Program and Kings Management Zone	
11/10/2020	Upcoming Webinar: EAP to address safe drinking water	
11/19/2020	Reminder! Webinar tonight on EAP	

2024		KWA WEBSITE
Month	**Total Page Views**	**Top Page (excluding home page)**
January	831	Home
Feburary	840	Well Test
March	11,933	Well Test
April	13,315	Well Test
May	2,372	Well Test
June	579	Well Test
July	640	Home
August	762	Home
September	1,263	In-Person Meeting
October	860	Home
November		
December		
	33,395	

2023		KWA WEBSITE
Month	**Total Page Views**	**Top Page (excluding home page)**
January	546	Well Test
Feburary	754	Well Test
March	2380	Well Test
April	3100	Well Test
May	785	Well Test

June	899	Well Test
July	1,604	Well Test
August	1129	Well Test
September	540	Well Test
October	912	Well Test
November	736	Well Test
December	771	Home
	14,156	
2022		**KWA WEBSITE**
Month	**Total Page Views**	**Top Page (excluding home page)**
January (no data)		
Feburary	582	Well Test
March	1586	Well Test
April	371	Well Test
May	1224	Well Test
June	374	Well Test
July	440	Well Test
August	993	Well Test
September	3112	Well Test
October	1678	Well Test
November	4399	Well Test
December	433	Well Test

	15,192	
	2021 KWA WEBSITE	
Month	**Total Page Views**	**Top Page (excluding home page)**
January (no data)		
Feburary	423	EAP
March	324	EAP
April	197	About
May	933	Interactive Map
June	1,223	Well Test
July	1,805	Well Test (352 views)
August	674	Well Test (103 views)
September	1064	Well Test (93 views)
October	492	
November	325	Well Test (36 views)
December	**490**	
	7,950	

2024 FLYERS			
Date	**Flyer Topic**	**Event**	**Locations**
2/13/2024	Well Testing/Drinking Water Flyers	Community outreach	Orosi
3/8/24	Well Testing/Drinking Water Flyers	Community outreach	Sultana
3/20/24	Well Testing/Drinking Water Flyers	Community outreach	Kerman
5/16/2024	Well Testing/Drinking Water Flyers	Community outreach	Parlier
9/8/2024	EAP Workshop Event Flyers	Community Outreach	Hanford
9/13/2024	EAP Workshop Event Flyers	Community Outreach	Hanford
11/20/2024	EAP Lemoore Workshop Flyers and Well Testing/Drinking Water	Lemoore College Food Dist.	Lemoore

2023 FLYERS			
Date	**Flyer Topic**	**Event**	**Locations**
3/17/2023	Well Testing/Drinking Water Flyers	Community outreach	Parlier Unified School District
4/25/23	Well Testing/Drinking Water Flyers	Community outreach	Consulado de Mexico en Frenso
4/27/23	Well Testing/Drinking Water Flyers	Community outreach	Proteus Inc.
5/26/2023	Fowler Packing	Packing House	West Selma
5/26/2023	Lions Raisins	Packing House	Selma
5/26/2023	Trinity Packing	Packing House	Reedley
5/26/2023	Sun Pacific	Packing House	Reedley
5/26/2023	Gillette	Packing House	Reedley
5/26/2023	Wawona Packing	Packing House	Dinuba
5/26/2023	Family Education Center-Orosi/Culter Unified School District	Packing House	Cutler
5/26/2023	Fancher Creek	Packing House	Sanger
5/26/2023	Sun Fresh Citrus	Packing House	Dinuba
5/26/2023	Sun-Maid Growers	Packing House	Dinuba
5/26/2023	Tri-County Citrus Packers	Packing House	Orange Cove
5/26/2023	Orange Cove-Sanger Citrus Assoc./Sunkist	Packing House	Orange Cove
5/26/2023	Booth Ranches Produce #1 and #2	Packing House	Orange Cove
5/26/2023	GAR Bennett	Packing House	Reedley
5/26/2023	Lee Farming and Packing	Packing House	Orange Cove

5/26/2023	POM Wonderful	Packing House	Del Rey
5/26/2023	Central California Packing Company	Packing House	Del Rey
6/14/2023	Well Testing/Drinking Water Flyers	Community outreach	Biola Community Services District
6/27/2023	Well Testing/Drinking Water Flyers	Community outreach	Selma Senior Center
8/18/2023	Well Testing/Drinking Water Flyers	Community outreach	Orange Cove
8/22/2023	Library Event Flyers	Community outreach	Caruthers
8/24/2023	Well Testing/Drinking Water Flyers	Community outreach	Riverdale
9/26/2023	Well Testing/Drinking Water Flyers	Community outreach	Laton
10/10/2023	Well Testing/Drinking Water Flyers	Community outreach	Orosi
10/24/2023	Well Testing/Drinking Water Flyers	Community outreach	Raisin City
10/24/2023	Well Testing/Drinking Water Flyers	Community outreach	Riverdale
10/26/2023	Well Testing/Drinking Water Flyers	Community outreach	Sanger
10/26/2023	Well Testing/Drinking Water Flyers	Community outreach	Sanger
11/22/2023	Well Testing/Drinking Water Flyers	Community outreach	Raisin City

2022 FLYERS			
Date	**Flyer Topic**	**Event**	**Locations**
1/14/2022	Well Testing/Drinking Water Flyers	Community outreach	
1/14/22	Well Testing/Drinking Water Flyers	Community outreach	
1/4/2022	Well Testing/Drinking Water Flyers	Community outreach workers	
3/17/2022	Well Test/drinking water flyers	online distribution	Kings River East GSA
4/26/2022	Well Test/drinking water flyers	Community outreach	Cutler- USPS, La Fiesta Food, First Southern Bapist Chruch, Apolistic Assembly Church, Open Gate Ministry
4/27/2022	Well Test/drinking water flyers	online distribution to schools	Kings River East GSA
5/17/2022	Well Test/drinking water flyers	Community Outreach	Cutler Orosi Joint Unified School District
5/17/2022	Well Test/drinking water flyers	Community Outreach	Open Gate Ministries

6/3/2022	Well Test/drinking water flyers	Community Outreach	Orosi- SaveCo, Orosi Library, USPS
7/19/2022	targeted resident flyer	direct email	Maria Herrera, CA State Director, Rural Development USDA
7/20/2022	targeted resident flyer	Community Outreach	Kerman Senior Center, Urgent Care, and Community Center
9/21/2022	targeted resident flyer	community outreach	Westside Family Preservation Services Network
9/21/2022	targeted resident flyer	community outreach	Kerman Community Center
9/24/2022	targeted resident flyer	community outreach	West Park Food Bank
9/29/2022	targeted resident flyer	community outreach	Caruthers District Fair
9/29/2022	targeted resident flyer	community outreach	Caruthers District Fair
10/25/2022	targeted resident flyer	community outreach	CAPSL
2021 FLYERS			
Date	**Flyer Topic**	**Event**	**Locations**
11/9/2020	English/Spanish Nov 19 EAP Webinar		Easton, Hanford, Armona, Cutler, Orosi

	English/Spanish Jan 28 EAP Webinar		Rolinda Double L Mobile Ranch Park Double L Neighborhood Community 168 West Park Beran Way Britten Easton William Hopkins Water System Easton Estates Water Company Caruthers Del Rey Perry Colony Raisin City Kamm Ranch Company Community 2489 Monmouth Community 235 Community 236 Hardwick Grangeville Armona Stratford Sultana Lopez Labor Camp Monson Orisi Cutler Yettem Seville
5/19/2021	EAP Kick-Off webinar Spanish/English	EAP Kick-Off Webinar	LCJA resident connections
44328	EAP Kick-Off webinar Spanish/English	EAP Kick-Off Webinar	SHE resident connections
6/29/2021	Well Testing/Drinking Water Flyers		3 wineries in management zone
44376	Well Testing/Drinking Water Flyers		
7/1/2021	Laminated well testing/drinking water flyer		Lanare Community Center
44378	Well Testing/Drinking Water Flyers	COVID Vaccination Drive x2	Riverdale, Laton, Lanare

7/12/2021	July Educational Webinars Flyer		Digital
44389	July Educational Webinars Flyer		Digital
7/12/2021	July Educational Webinars Flyer		Digital
44389	July Educational Webinars Flyer		
8/12/2021	Well Testing/Drinking Water Flyers	7 Food Distributions	Cutler, Orange Cove, Orosi
44448	Well Testing/Drinking Water Flyers		
9/11/2021	Food Distribution Outreach Flyer, Laton	Laton Food Distribution	Laton
10/16/2021	Well Testing/Drinking Water Flyers	Friends/Neighbors	Easton
10/16/2021	Laminated well testing/drinking water flyer	Community posting	Easton
11/3/2021	Well Testing/Drinking Water Flyers	School district distribution	Cutler-Orosi
12/17/2021	Well Testing/Drinking Water Flyers	EDD management	

2024 DIRECT MAIL

In-home date	Mailer Topic	Audience	Type	Language	Quantity
3/15/24	Colorful postcard	Impacted Residents 7.5-10+ mg/L-n, in targeted Alta I.D. area	postcard	English/Spanish	12,256
8/7/24	EAP Virtual Workshop	Priority Two Residents	postcard	English/Spanish	7,630
9/11/2024	EAP In-Person Workshop (Hanford)	Priority Two Residents (Hanford Area)	postcard	English/Spanish	4,031
11/25/2024	EAP Community Survey	Priority Two Residents	postcard	English/Spanish	7,630
				Total	**31,547**

2023 DIRECT MAIL

In-home date	Mailer Topic	Audience	Type	Language	Quantity
1/9/23	safe drinking water/survey tear off card	Residents in targeted Raisin City, Easton, Kerman area	postcard	English/Spanish	7,700
3/3/23	Colorful postcard/webinar	Priority One Residents	postcard	English/Spanish	24,646
5/18/2023	safe drinking water/survey tear off card	Residents in targeted Sanger, Parlier, Selma, Fowler	postcard	English/Spanish	8,850
06/2023	Colorful postcard	Residents in targeted Sanger, Parlier, Selma, Fowler	postcard	English/Spanish	11,433
08/2023	Colorful postcard	Residents in Riverdale, Caruthers, Laton and San Jaoquin	postcard	English/Spanish	6,293
10/2023	Colorful postcard	Residents in Riverdale, Caruthers, Laton and San Jaoquin	postcard	English/Spanish	6,293
11/2023	Selma MZIP Meeting	Priority One Residents	postcard	English/Spanish	23,742
				Total	**88,957**

2022 DIRECT MAIL

In-home date	Mailer Topic	Audience	Type	Language	Quantity
3/21/22	free well test/survey promotion	Impacted Residents 7.5-10+ mg/L-n, in targeted Alta I.D. area	postcard	English/Spanish	14,272
5/11/22	safe drinking water/survey promotion	Impacted Residents 7.5-10+ mg/L-n, in targeted Alta I.D. area	postcard	English/Spanish	14,272
8/17/2022	safe drinking water/survey/webinar	Priority One Residents	postcard	English/Spanish	24261
10/2022	safe drinking water/survey/workshop	Residents in targeted Raisin City, Easton, Kerman area	postcard	English/Spanish	7,700
				Total	**60,505**

2021 DIRECT MAIL

In-home date	Mailer Topic	Audience		Language	Quantity
11/5/2020	Drinking Water Solutions - get involved; webinar promotion	Potentially impacted residents		English/Spanish	6,014
6/26/21	Targeted Resident July 1 Mailer	Impacted Residents 7.5-10+ mg/L-n		English/Spanish	16,500
09/2021	Vulnerable Populations mailer	Impacted residents, most vulnerable		English/Spanish	1,353

09/2021	Targeted Resident postcard	Impacted Residents 7.5-10+ mg/L-n		English/Spanish	25,000
				Total	**48,867**

	CANVASING 2024	
Date	**Flyer Topic**	**Location**
1/14/24	Door Hanger	Raisin City
2/15/24	Door Hanger	Dinuba/Raisin City
2/15/24	Door Hanger	Orosi
3/2024	Door Hanger	Raisin City, Tivy Valley, Reedley
11/2024	In-Person Dec 4 Meeting	Hanford
	CANVASING 2023	
Date	**Flyer Topic**	**Location**
1/17/2023	Door Hangers	Mansionettes
2/1/2023	English/Spanish flyer	Mansionettes
2/1/2023	Door Hangers	Mansionettes
3/3/2023	Door Hangers	Raisin City
3/3/2023	Door Hangers	Kerman
4/14/2023	Door Hangers	Between Parlier and Reedley
4/13/2023	Door Hangers	Sanger/ Fresno
4/27/2023	Door Hangers	Sanger / Fresno
5/24/2023	Door Hangers	Parlier/Reedley
10/27/2023	Door Hangers	Raisin City
12/15/2023	Door Hangers	North Raisin City, North Reedley
	CANVASING 2022	

Date	Flyer Topic	Location
2/28/2022	English/Spanish flyer and business card	Orange Cove Area
3/5/2022	English/Spanish flyer	Orange Cove Area
4/12/2022	English/Spanish flyer and business card	Orosi Area
4/15/2022	English/Spanish flyer	Orosi Area
4/16/2022	business card	Orosi Area
4/17/2022	English/Spanish flyer	Sanger Area
8/20/2022	English/Spanish flyer	East Clovis/North Sanger and Tivy Valley
8/21/2022	Door Hangers	East Clovis/North Sanger
9/6/2022	English/Spanish flyer	Laton
9/7/2022	English/Spanish flyer	Sanger
9/8/2022	English/Spanish flyer	W Fresno
9/8/2022	Door Hangers	Kerman
9/9/2022	English/Spanish flyer	Caruthers
9/9/2022	Well Test Survey	Easton
9/14/2022	Door Hangers	Parlier
9/15/2022	English/Spanish flyer	Reedley
9/15/2022	Door Hangers	Sanger/Reedley
9/28/2022	English/Spanish flyer	Raisin City
9/28/2022	Door Hangers	Raisin City
12/9/2022	English/Spanish flyer	Orosi Area
9/29/2022	Door Hangers	Raisin City
9/30/2022	business card	Raisin City

VIDEOS		
Date	**Title**	
2/1/2021	Safe Drinking Water Webinar: January 28, 2021	
5/26/2021	Early Action Plan Kick-Off: Next Steps to Bring Drinking Water to Residents	
7/30/2021	Nitrates in Groundwater: The Basics	
8/2/2021	How-to: Filling Out the Well Test Form	
9/2021	Free Safe Water	
10/2021	Domestic Well Owner Workshop	
10/2021	Bottled Water Program Overview	
6/2022	KWA Interview Video	
7/12/22	A well Owner's Journey to Secure Safe Drinking Water	
7/22/22	Local Well Owner Describes her Experience with Kings Water Alliance	
9/1/2023	Testing and Drinking Water Webinar August 31, 2022 Recording	
9/6/2023	Kings Water Alliance Free Well Testing and Bottled Water Delivery GIF	
10/31/2023	Is Your Well Water Safe to Drink?	
10/31/2023	Is Your Well Water Safe to Drink? Loop	
2/22/2023	Hello, Is your Well Water Safe to Drink?	

2024 RADIO		
Date	**Topics**	**Channel**
8/8/24	KWA Overview & Bottled Water Program	KBIF 900AM Hmong Radio
2022 RADIO		
Date	**Topics**	**Channel**
1/28/22	KWA Overview & Bottled Water Program	Radio Bilingue - Community Calendar
8/19/2022	KWA Overview & Bottled Water Program	Radio Bilingue

2021 RADIO		
Date	**Topics**	**Channel**
	Promotion of Jan 28 Webinar	KBIF 900AM Punjabi Radio, Radio Bilingue, Hmong Ra
9/4/2021	KWA Overview & Bottled Water Program	Radio Bilingue

NEWS MEDIA			
Date	**Topics**	**Outlet**	**Journalist/Reporter**
6/25/2021	'Dischargers' charged with cleaning up nitrates in groundwater	The Business Journal	Breanna Hardy
5/30/2022	Residents Impacted by Contamination Are Receiving Safe Drinking Water for Free	Press Release	34 media outlets recieved press release including online, print, radio, TV
10-17-2022	**https://conta.cc/3yMp5Wq**	Press Release	Spanish Media
10/17/2002	https://conta.cc/3MEhE9F	Press Release	Media, print, online, radio, television
10/19/2022	Local nonprofit focused on providing clean drinking water	Video with Jose and Debra	ABC 30
8/28/2024	Rural Kings County families have a 50-50 chan	SJV Water	Monserrat Solis

Facebook/Instagram 2024			
Month	**Posts**	**Reach**	
January	9	411	
February	4	6641	
March	4	43640	
April	13	5254	
May	1	117	
June	3	168	
July	2	82	
Aug	7	315	
Sep	9	24288	
Oct	0	27	
Nov			
Dec			
Twitter 2024			
Month	**Posts**	**Reach**	
January	4	n/a	
February	1	n/a	
March	1	n/a	
April	3	n/a	
May	0	n/a	
June	1	n/a	
July	1	n/a	
August	2	n/a	
September	2	n/a	
October	0	n/a	
November			
December			
Facebook/Instagram 2023			
Month	**Posts**	**Reach**	

March	4	18496	
April	5	12792	
May	0	3727	
June	0	0	
July	14	30204	
August	3	11349	
September	2	39	
October	4	105	
November	4	129	
December	7	136	
	43		
Twitter 2023			
Month	**Posts**	**Reach**	
March	1	35	
April	0	0	
May	0	0	
June	0	0	
July	5	438	
August	1	16	
September	0	0	
October	0	0	
November	1	99	
December	3	22	
		77587	
FACEBOOK/ INSTAGRAM 2022			
Month	**Posts**	**Reach**	
March	3	137	

April	15	5400	
May	17	271	
June	16	230	
July	14	1736	
August	18	511	
September	12	6718	
October	18	698	
November	5	5530	
December	12	177	
January	13	432	
February	2	10,366	
Total	**130**	**26398**	
TWITTER 2022			
Month	**Posts**	**Reach**	
April	6	77	
May	10	100	
June	8	197	
July	8	160	
August	10	156	
September	6	142	
October	7	298	
November	2	14	
December	6	155	
January	5	190	
February	1	25	
Total	**63**	1337	
Total for both	**193**	**27735**	
		1140	
SOCIAL MEDIA INFLUENCER OUTREACH			

Staff/Volunteer Na	Organization	Languages	
Mariah Thompson, Mia Murrietta (social media contact)	CRLA	English/Spanish	
Stakeholder Advisory Committee members		English/Spanish	
Mariana Alvarenga, Lesly Figueroa (social media contact)	LCJA	English/Spanish	
Eva Dominguez, Diana Diaz (social media contact)	SHE	English/Spanish	
Mariah Thompson, Mia Murrietta (social media contact)	CRLA	English/Spanish	
Bryan Osorio	CWC	English/Spanish	

FACEBOOK 2021			
Month	**Posts**	**Reach**	
July	8	0	
August	2	0	
September	2	0	
October	6	0	
November	0		
December	4		
January	1	11	
February	1	6,700	
March			
April			

May			

INSTAGRAM 2021			
Month	**Accounts reache**	**Notes**	
July	1		
August	5755		
September	41		
October	61		
November	9		
December	111		
January	22		
February	0		

APPENDIX A-2 KWA FLYERS

SOLUTIONS ARE COMING
SAFE DRINKING WATER

Safe drinking water solutions are being developed in local communities

A new groundwater quality initiative, the Nitrate Control Program under CV-SALTS, is part of a strategy to address nitrate pollution in the Central Valley's groundwater. **The Kings Water Alliance is developing solutions in your area to provide safe drinking water supplies for local communities impacted by nitrates.**

Join us to learn more about the Early Action Plan for drinking water solutions

Drinking water solutions should be flexible and locally driven. Help us drive solutions! **Join us for a webinar to learn more about the Nitrate Control Program and proposed drinking water solutions. You will have an opportunity to provide input and ask questions.**

Webinar

November 19, 6:00-7:30 PM

REGISTER ONLINE: WWW.KINGSRIVERWQC.ORG/DRINKINGWATER

HOW YOU CAN GET INVOLVED

Sign up to receive email updates on webinar details and opportunities to provide input on drinking water solutions www.kingsriverwqc.org/drinkingwater

Attend the upcoming webinar on November 19th. Register online at www.kingsriverwqc.org/drinkingwater

Find information on CV-SALTS (Central Valley Salinity Alternatives for Long-Term Sustainability) and the Nitrate Control Program at www.cvsalts.info

KINGS RIVER WATER QUALITY COALITION

P.O. Box 8259, Fresno, CA 93747 | (559) 549-6747 | www.kingsriverwqc.org/drinkingwater

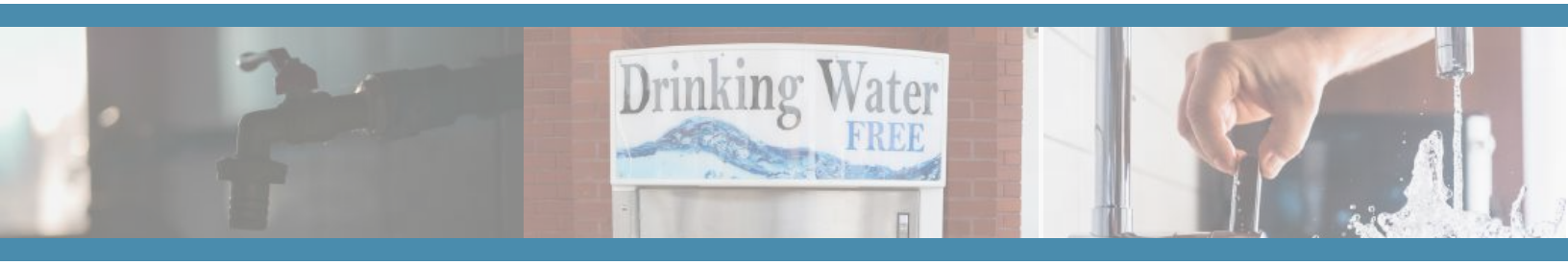
SE ACERCAN SOLUCIONES
AGUA POTABLE SEGURA

Se están desarrollando soluciones de agua potable segura en las comunidades locales

Una nueva iniciativa de calidad de las aguas subterráneas, el Programa de Control de Nitratos bajo CV-SALTS, es parte de una estrategia para abordar la contaminación por nitratos en las aguas subterráneas del Valle Central. **Kings Water Alliance está desarrollando soluciones en su área para proporcionar suministros de agua potable segura para las comunidades locales afectadas por nitratos.**

Acompáñenos para obtener más información sobre el Plan de Acción Temprana para soluciones de agua potable

Las soluciones de agua potable deben ser flexibles y dirigidas localmente. ¡Ayúdanos a impulsar soluciones! **Acompáñenos para un seminario web para obtener más información sobre el Programa de Control de Nitratos y las propuestas soluciones de agua potable. Usted tendrá la oportunidad de proporcionar información y hacer preguntas.**



Seminario Web

19 de noviembre, 6:00-7:30

REGISTRARSE: WWW.KINGSRIVERWQC.ORG/DRINKINGWATER

CÓMO PUEDE INVOLUCRARSE

Regístrese para recibir actualizaciones por correo electrónico sobre los detalles del seminario web y las oportunidades para proporcionar información sobre las soluciones de agua potable www.kingsriverwqc.org/drinkingwater

Asista al próximo seminario web el 19 de noviembre. Regístrese en línea en www.kingsriverwqc.org/drinkingwater

Encuentre información sobre CV-SALTS (Alternativas de Salinidad para la Sostenibilidad a Largo Plazo del Valle Central, CV-SALTS por su sigla en inglés) y el Programa de Control de Nitratos en www.cvsalts.info

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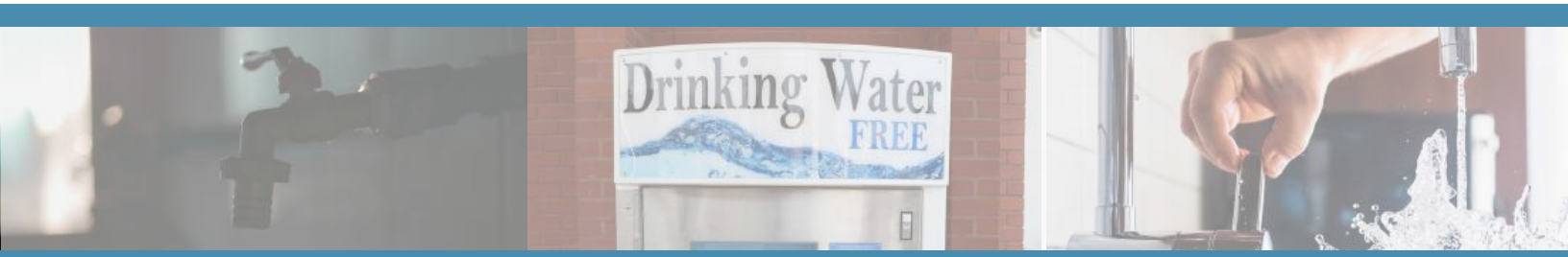

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WATER QUALITY COALITION

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Webinar 11/19/2020
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Una nueva iniciativa de calidad de las aguas subterráneas, el Programa de Control de Nitratos bajo CV-SALTS, es parte de una estrategia para abordar la contaminación por nitratos en las aguas subterráneas del Valle Central. **Kings Water Alliance está desarrollando soluciones en su área para proporcionar suministros de agua potable segura para las comunidades locales afectadas por nitratos.**

Acompáñenos para obtener más información sobre el Plan de Acción Temprana para soluciones de agua potable

Las soluciones de agua potable deben ser flexibles y dirigidas localmente. ¡Ayúdanos a impulsar soluciones! **Acompáñenos para un seminario web para obtener más información sobre el Programa de Control de Nitratos y las propuestas soluciones de agua potable. Usted tendrá la oportunidad de proporcionar información y hacer preguntas.**

KINGS RIVER
WATER QUALITY COALITION

Seminario Web
19 de noviembre, 6:00-7:30

REGISTRARSE: WWW.KINGSRIVERWQC.ORG/DRINKINGWATER

CÓMO PUEDE INVOLUCRARSE

Regístrese para recibir actualizaciones por correo electrónico sobre los detalles del seminario web y las oportunidades para proporcionar información sobre las soluciones de agua potable www.kingsriverwqc.org/drinkingwater

Asista al próximo seminario web el 19 de noviembre. Regístrese en línea en www.kingsriverwqc.org/drinkingwater

Encuentre información sobre CV-SALTS (Alternativas de Salinidad para la Sostenibilidad a Largo Plazo del Valle Central, CV-SALTS por su sigla en inglés) y el Programa de Control de Nitratos en www.cvsalts.info

Seminario web 11/19/2020
www.kingsriverwqc.org/drinkingwater
(559) 549-6747

NITRATES IN YOUR DRINKING WATER?

YOU MAY BE ELIGIBLE FOR FREE, SAFE WATER

Drinking nitrate-contaminated groundwater poses health risks. Many small communities in the Central Valley rely on groundwater for drinking water. Because of unsafe nitrate levels in some areas, people cannot safely use the groundwater for drinking and cooking.

The Kings Water Alliance is a non-profit organization formed in 2021 to provide drinking water for residents who are impacted by unsafe levels of nitrates. **If you live in the Kings Water Alliance and drink from a well with nitrates above safe drinking levels, you may be eligible to receive free bottled water. Find out if your well is impacted. See back of flyer for details on free well testing offered by the Kings Water Alliance.**

KINGS WATER ALLIANCE

2 IN 5 DOMESTIC WELLS ARE IMPACTED BY UNSAFE LEVELS OF NITRATE IN THE KINGS WATER ALLIANCE*.

Visit www.kingswateralliance.org/map to find out if you live in the Kings Water Alliance. If you drink from a well with nitrates above safe drinking water levels, you may be eligible for FREE drinking water solutions.

*Based on available data, we estimate over 2 in 5 domestic wells are impacted by >10 mg/L-N.

Unsafe Nitrate in Groundwater

We estimate over 2 in 5 domestic wells in the Kings Water Alliance (left) are impacted by unsafe levels of nitrate. Above 10 milligrams per liter of nitrogen as nitrate (mg/L-N) is considered unsafe for drinking and cooking. **Contact us to have your well tested for FREE.**

Solving the Nitrate Problem

An Early Action Plan (EAP) to address drinking water with unsafe nitrate levels has been developed. The EAP identifies nitrate-impacted areas and proposes short-term, immediate drinking water sources for residents like bottled water.

Drinking Water Solutions

The Kings Water Alliance will provide safe drinking water at **no cost** to those impacted by unsafe nitrate levels. Two key options for impacted residents includes bottled water (delivered or non-delivered) and local fill station kiosks.

KINGS WATER ALLIANCE

Website: www.kingswateralliance.org
Email: info@kingswateralliance.org
Phone: (559) 549-6747

NITRATE-IMPACTED RESIDENTS

ACCESSING SAFE DRINKING WATER

Think you might qualify for free drinking water solutions? Here's how you can check:

1. **Confirm you live within the Kings Water Alliance boundary**
   Visit www.kingswateralliance.org/map to check that your address is in the Priority 1 area on our interactive map. Or call us at (559) 549-6747 for assistance.

2. **Have your well tested for FREE to confirm unsafe nitrate levels**
   The Kings Water Alliance is offering **FREE** water quality testing for nitrates. Visit www.kingswateralliance.org/welltest or call us at (559) 549-6747 to schedule a free test.

3. **Be willing to sign an agreement with a service provider**
   The Kings Water Alliance is committed to providing excellent safe drinking water solutions at **no cost** to eligible residents via service providers who deliver bottled water.

Ready to take the next steps to receive free drinking water solutions? Contact us at info@kingswateralliance.org or (559) 549-6747.

fill stations: existing solutions for residents

Three fill station locations are now accessible throughout the Kings Water Alliance. Bring an empty container to a fill station and take safe, accessible, free drinking water back to your home.

Visit www.kingswateralliance.org/fillstations for location maps more details.

HANFORD
504 W. 7th Street
Hanford, CA 93230

KERMAN
15101 W Kearney Blvd
Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

The Kings Water Alliance (KWA) is a non-profit organization formed to efficiently implement new water quality requirements. Under the Nitrate Control Program approved by the State Water Resources Control Board in October 2019, the KWA is tasked with identifying short- and long-term drinking water solutions for residents impacted by unsafe levels of nitrates. Beyond providing drinking water solutions, the KWA is tasked with reducing nitrate impacts to water supplies, and restoring groundwater quality where reasonable and feasible.

KINGS WATER ALLIANCE

Website: www.kingswateralliance.org | **Email:** info@kingswateralliance.org | **Phone:** (559) 549-6747

¿NITRATOS EN SU AGUA POTABLE?
PUEDE SER ELEGIBLE PARA OBTENER AGUA SEGURA Y GRATUITA

Beber agua subterránea contaminada con nitratos presenta riesgos para la salud. Muchas comunidades pequeñas en el Valle Central dependen del agua subterránea para beber. Debido a los niveles peligrosos de nitrato en algunas áreas, las personas no pueden usar el agua subterránea de manera segura para beber y cocinar.

Kings Water Alliance es una organización sin fines de lucro formada en 2021 para proporcionar agua potable a los residentes que se ven afectados por niveles peligrosos de nitratos. **Si vive en Kings Water Alliance y bebe de un pozo con nitratos sobere los niveles seguros para beber, puede ser elegible para recibir agua embotellada gratis. Descubra si su pozo esta afectado. Consulte el reverso del folleto para obtener detalles sobre las pruebas de pozos gratuitas que ofrece Kings Water Alliance.**

KINGS WATER ALLIANCE

Nitrato Inseguro en Aguas Subterráneas

Estimamos que más de 2 de cada 5 pozos domésticos en Kings Water Alliance (izquierda) se ven afectados por niveles peligrosos de nitrato. Más de 10 miligramos por litro de nitrógeno como nitrato (mg / L-N) se considera inseguro para beber y cocinar. **Contáctenos para que le hagan una prueba GRATUITA.**

Resolviendo el Problema de Los Nitratos

Se ha desarrollado un Plan de Acción Temprana (EAP) para abordar el agua potable con niveles peligrosos de nitrato. El EAP identifica áreas impactadas por nitratos y propone fuentes de agua potable inmediatas a corto plazo para los residentes, como agua embotellada.

Soluciones de agua potable

Kings Water Alliance proporcionará agua potable segura sin costo alguno a quienes se vean afectados por niveles peligrosos de nitrato. Dos opciones clave para los residentes afectados incluyen agua embotellada (entregada o no) y quioscos de estaciones de servicio locales.

2 de 5 LOS POZOS DOMÉSTICOS ESTAN IMPACTADOS POR NIVELES INSEGUROS DE NITRATO EN EL KINGS WATER ALLIANCE*

Visite www.kingswateralliance.org/map para averiguar si vive en Kings Water Alliance. Si bebe de un pozo con nitratos por encima de los niveles de agua potable, puede ser elegible para soluciones GRATUITAS de agua potable.

*según los datos disponibles, estimamos que más de 2 de cada 5 pozos domésticos se ven afectados por> 10 mg / L-N.

KINGS WATER ALLIANCE

Sitio web: www.kingswateralliance.org
Email: info@kingswateralliance.org
Teléfono: (559) 549-6747

RESIDENTES IMPACTADOS POR NITRATO

ACCESO A AGUA POTABLE SEGURA

¿Crees que podrías calificar para soluciones gratuitas de agua potable? A continuación, le indicamos cómo puede verificar:

1 Confirme que vive dentro de los límites de Kings Water

Visite www.kingswateralliance.org/map para verificar que su dirección esté en el área de Prioridad 1 en nuestro mapa interactivo. O llámenos al (559) 549-6747 para obtener ayuda.

2 Confirme que su pozo tiene niveles peligrosos de nitrato

Kings Water Alliance ofrece pruebas **GRATUITAS** de la calidad del agua para detectar nitratos. Visite www.kingswateralliance.org/welltest o llámenos al (559) 549-6747 para programar una prueba gratuita.

3 Estar dispuesto a firmar un acuerdo con un proveedor de servicios

Kings Water Alliance se compromete a proporcionar excelentes soluciones de agua potable sin costo para los residentes elegibles a través de proveedores de servicios que entregan agua embotellada.

¿Está listo para dar los siguientes pasos para recibir soluciones de agua potable gratuitas? Contáctenos en info@kingswateralliance.org o (559) 549-6747.

Máquinas de agua: soluciones existentes para los residentes

Ahora se puede acceder a tres ubicaciones de estaciones de servicio a lo largo de Kings Water Alliance. Lleve un recipiente vacío a una estación de llenado y lleve agua potable segura, accesible y gratuita a su hogar.

Visite www.kingswateralliance.org/fillstations para obtener más detalles sobre mapas de ubicación.

HANFORD
504 W. 7th Street
Hanford, CA 93230

KERMAN
15101 W Kearney Blvd
Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

Kings Water Alliance (KWA) es una organización sin fines de lucro formada para implementar de manera eficiente los nuevos requisitos de calidad del agua. Bajo el Programa de Control de Nitratos aprobado por la Junta Estatal de Control de Recursos Hídricos en octubre de 2019, la KWA tiene la tarea de identificar soluciones de agua potable a corto y largo plazo para los residentes afectados por niveles peligrosos de nitratos. Más allá de proporcionar soluciones de agua potable, la KWA tiene la tarea de reducir los impactos de los nitratos en los suministros de agua y restaurar la calidad del agua subterránea cuando sea razonable y factible.

KINGS WATER ALLIANCE

Sitio web: www.kingswateralliance.org | **Email:** info@kingswateralliance.org | **Teléfono:** (559) 549-6747

PRIVATE WELL OWNERS

Unsafe nitrate levels in well water could have negative health impacts. Have your well water tested to see if you're impacted, and access FREE safe water for your home.

LEARN MORE AT THE UPCOMING FOOD DISTRIBUTION IN LATON

Tuesday, September 21st from 10:00 AM - 12:00 PM
Laton Church of the Nazarene
6258 E Murphy Ave., Laton, CA 93242

The Kings Water Alliance will be available to answer questions and help you fill out the form to request a free well test and bottled delivery.

Can't make it? Learn more and fill out the online form to request free well testing and bottled water www.kingswateralliance.org/welltest.

@kingswateralliance

PROPIETARIOS DE POZOS PRIVADOS

Los niveles inseguros de nitrato en el agua de pozo podrían tener impactos negativos en la salud. Haga que le analicen el agua de su pozo para ver si está afectado y acceda a agua potable GRATIS para su hogar.

MÁS INFORMACIÓN EN LA PRÓXIMA DISTRIBUCIÓN DE ALIMENTOS EN LATON

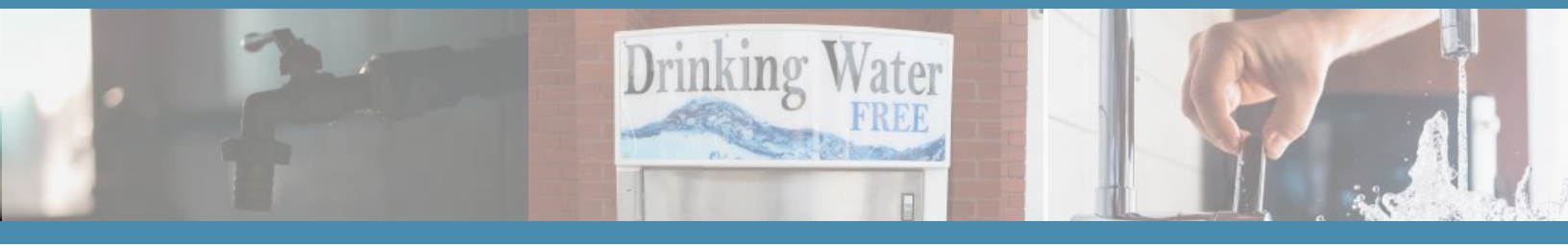
Martes 21 de Septiembre de 10:00 AM a 12:00 PM
Laton Iglesia del Nazareno
6258 E Murphy Ave., Laton, CA 93242

Kings Water Alliance estará disponible para responder preguntas y ayudarlo a completar el formulario para solicitar una prueba de pozo gratuita y una entrega embotellada.

¿No puedes asistir? Obtenga más información y complete el formulario en línea para solicitar pruebas de pozo y agua embotellada gratuitas www.kingswateralliance.org/welltest.

KINGS WATER ALLIANCE

P.O. Box 8259, Fresno, CA 93747 | (559) 549-6747 | www.kingswateralliance.org



EARLY ACTION PLAN KICK-OFF WEBINAR

next steps to bring drinking water to residents

May 25, 5:30-6:30 PM
Spanish Translation Available

Find Zoom Webinar information at link below:
www.kingswateralliance.org/events/webinar

THIS WEBINAR WILL PROVIDE INFORMATION ON:

How to receive free well testing.

Where to access safe drinking water.

The submitted Early Action Plan, part of a strategy to address nitrates above safe levels in the Central Valley's groundwater.

This webinar is for Kings Water Alliance residents as well as interested stakeholders and members of the public. Drinking water solutions should be flexible and locally driven. Help us drive solutions! Learn more at:

www.kingswateralliance.org

KINGS WATER ALLIANCE

P.O. Box 8259, Fresno, CA 93747 | (559) 549-6747 | www.kingswateralliance.org

UPCOMING WEBINARS

Information on nitrates and safe drinking water in the Kings Water Alliance

WEBINAR
NITRATES IN GROUNDWATER: THE BASICS

Tuesday, July 27, 5:30 - 6:00 PM or

Wednesday, July 28, 12:00 - 12:30 PM

WEBINAR
HOW-TO: FILLING OUT THE WELL TEST FORM

Thursday, July 29, 5:30 - 6:00 PM or

Friday, July 30, 12:00 - 12:30 PM

Spanish translation available.
Register at www.kingswateralliance.org/events.

Or watch the webinars on Facebook by going to facebook.com/kingswateralliance at the webinar start time to begin watching live. Like our page to be notified as soon as we go live!

Webinars are for Kings Water Alliance residents as well as interested stakeholders and members of the public. Learn more at: **www.kingswateralliance.org**.

PRÓXIMOS SEMINARIOS DE WEB

MÁS INFORMACIÓN SOBRE NITRATOS Y AGUA POTABLE SEGURA EN KINGS WATER ALLIANCE

WEBINAR
NITRATOS EN AGUAS SUBTERRÁNEAS: LO BÁSICO

27 de Julio 5:30 - 6:00 PM o

28 de Julio 12:00 - 12:30 PM

WEBINAR
CÓMO: LLENAR EL FORMULARIO DE PRUEBA DE AGUA

29 de Julio 5:30 - 6:00 PM o

30 de Julio 12:00 - 12:30 PM

Traducción en Español disponible.
Información de registro en www.kingswateralliance.org/events.

O vea los seminarios web en Facebook en facebook.com/kingswateralliance a la hora de inicio del seminario web para comenzar a verlos en vivo. ¡De nos un like en nostra página para recibir una notificación tan pronto como estemos en vivo!

Seminarios web está dirigido tanto a los residentes de Kings Water Alliance como a los interesados partidos interesados y miembros del público. Obtenga más información en: **www.kingswateralliance.org**

KINGS WATER ALLIANCE

P.O. Box 8259, Fresno, CA 93747 | (559) 549-6747 | www.kingswateralliance.org

KINGS WATER ALLIANCE

IS YOUR WELL WATER SAFE TO DRINK?

The Kings Water Alliance, a local non-profit, is providing FREE well testing for nitrates. Drinking nitrate-contaminated groundwater is a serious public health issue. If your drinking water has unsafe nitrate levels, we will provide you with safe drinking water solutions. As a free community resource, our goal is to make access to safe drinking water simple and quick.

NEED ACCESS TO SAFE DRINKING WATER TODAY?

Here is a list of FREE and SAFE drinking water fill stations:

HANFORD
504 W. 7th Street
Hanford, CA 93230

KERMAN
15101 W Kearney Blvd
Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

Three fill station locations are accessible throughout the Kings Water Alliance. Bring an empty container to a fill station and take safe, accessible, free drinking water back to your home.

To see if you are eligible for free drinking water, we have 3 easy steps!

1. Take our 2-minute survey

Survey available three ways:

1. Scan the QR Code
2. Paper form: call (559) 549-6747
3. Online: www.kingswateralliance.org/welltest

2. We perform well test

Our experienced staff perform a simple and quick well test to see if there is an unsafe level of nitrates in your drinking water.

3. Receive bottled water

We deliver FREE bottled water to you. Bottled water is delivered every two weeks in 5-gallon containers.

Learn more and follow:

@kingswateralliance

Website: www.kingswateralliance.org
Email: info@kingswateralliance.org
Phone: (559) 549-6747

KINGS WATER ALLIANCE

¿EL AGUA DE SU POZO ES SEGURA PARA BEBER?

Kings Water Alliance, una organización local sin fines de lucro, ofrece pruebas de nitratos en pozos GRATIS. Beber agua subterránea contaminada con nitratos es un grave problema de salud pública. Si su agua potable tiene niveles de nitrato inseguros, le proporcionaremos soluciones de agua potable segura. Como recurso comunitario gratuito, nuestro objetivo es hacer que el acceso al agua potable segura sea simple y rápida.

¿NECESITA ACCESO A AGUA POTABLE HOY?

Aquí hay una lista de máquinas de agua potable GRATIS y SEGURA:

HANFORD
504 W. 7th Street
Hanford, CA 93230

KERMAN
15101 W Kearney Blvd
Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

Se puede acceder tres ubicaciones de estaciones de agua en Kings Water Alliance. Lleve un garrafones vacío a una estación de agua y lleve agua potable segura, accesible y gratuita a su hogar.

Para ver si es elegible para agua potable gratis, ¡tenemos 3 sencillos pasos!

1. Realice nuestra encuesta de 2 minutos

Encuesta disponible de tres maneras:

1. Escanea el código QR
2. Formulario en papel: llame al (559) 549-6747
3. En línea: www.kingswateralliance.org/welltest

2. Realizamos la prueba

Nuestro personal experimentado realiza una prueba de pozo simple y rápida para ver si hay un nivel inseguro de nitratos en su agua potable.

3. Recibir agua embotellada

Te entregamos agua embotellada GRATIS. El agua embotellada se entrega cada dos semanas en contenedores de 5 galones.

Obtenga más información y siga:

@kingswateralliance

Website: www.kingswateralliance.org
Email: info@kingswateralliance.org
Phone: (559) 549-6747

KINGS WATER ALLIANCE
A Nonprofit Organization

Website: www.kingswateralliance.org
Email: info@kingswateralliance.org
Phone: (559) 549-6747

IS YOUR WELL WATER SAFE TO DRINK?

Many residents in the Central Valley rely on wells as their primary source of water. Some residents cannot safely use this water due to unsafe contamination levels. If your drinking water has unsafe nitrate levels, Kings Water Alliance will provide you with safe drinking water solutions.

TO SEE IF YOU ARE ELIGIBLE FOR *FREE* DRINKING WATER, WE HAVE 3 EASY STEPS!

1. Take our 2-minute survey

Survey available three ways:

1. Scan the QR Code
2. Paper form: call (559) 549-6747
3. Online: www.kingswateralliance.org/welltest

2. We perform well test

Our experienced staff perform a simple and quick well test to see if there is an unsafe level of nitrates in your drinking water.

3. Receive bottled water

We deliver **FREE** bottled water to you. Bottled water is delivered every two weeks in 5-gallon containers.

NEED ACCESS TO SAFE DRINKING WATER TODAY?

Here is a list of FREE and SAFE drinking water fill stations. Three fill station locations are accessible throughout the Kings Water Alliance. Bring an empty container to a fill station and take safe, accessible, free drinking water back to your home.

HANFORD
504 W. 7th Street
Hanford, CA 93230

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Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

Learn more and follow: @kingswateralliance

KINGS WATER ALLIANCE
A Nonprofit Organization

Sitio Web: www.kingswateralliance.org
Correo Electrónico: info@kingswateralliance.org
Teléfono (559) 549-6747

¿EL AGUA DE SU POZO ES SEGURA PARA BEBER?

Muchos residentes del Valle Central dependen de los pozos como fuente principal de agua. Algunos residentes no pueden usar esta agua de manera segura debido a los niveles de contaminación inseguros. Si su agua potable tiene niveles inseguros de nitrato, Kings Water Alliance le proporcionará agua potable segura.

PARA VER SI ES ELIGIBLE PARA AGUA POTABLE *GRATIS*, ¡TENEMOS 3 SENCILLOS PASOS!

¿NECESITA ACCESO A AGUA POTABLE HOY?

Aquí hay una lista de máquinas de agua potable GRATIS y SEGURA. Se puede acceder tres ubicaciones de estaciones de agua en Kings Water Alliance. Lleve un garrafones vacío a una estación de agua y lleve agua potable segura, accesible y gratuita a su hogar.

HANFORD
504 W. 7th Street
Hanford, CA 93230

KERMAN
15101 W Kearney Blvd
Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

1. Realice nuestra encuesta de 2 minutos

Encuesta disponible de tres maneras:

1. Escanea el código QR
2. Formulario en papel: llame al (559) 549-6747
3. En línea: www.kingswateralliance.org/welltest

2. Realizamos la prueba

Nuestro personal experimentado realiza una prueba de pozo simple y rápida para ver si hay un nivel inseguro de nitratos en su agua potable.

3. Recibir agua embotellada

Te entregamos agua embotellada **GRATIS**. El agua embotellada se entrega cada dos semanas en contenedores de 5 galones.

Obtenga más información y siga: @kingswateralliance

BACK TO SCHOOL

EVENT AT THE EASTON LIBRARY

THURSDAY AUGUST 3RD
3:30-4:00PM

Easton Branch Library
25 E Fantz Ave, Easton, CA 93706

Learn about safe drinking water and free resources including well testing and bottled water! Live demo of how well water becomes unsafe to drink!

Win School Supplies and Fresno Grizzlies Tickets

KINGS WATER ALLIANCE

FRESNO COUNTY PUBLIC LIBRARY

kingswateralliance.org/events

(559) 549-6747 | info@kingswateralliance.org

EVENTO DE REGRESO A LA ESCUELA

EN LA BIBLIOTECA DE EASTON

JUEVES 3 DE AGOSTO
3:30-4:00PM

Easton Branch Library
25 E Fantz Ave, Easton, CA 93706

¡Aprenda sobre agua potable segura! ¡Recursos gratuitos que incluyen análisis de pozos y agua embotellada! ¡Mostremos en vivo cómo el agua se vuelve insegura para beber!

Gane útiles escolares y boletos para los Fresno Grizzlies

KINGS WATER ALLIANCE

FRESNO COUNTY PUBLIC LIBRARY

kingswateralliance.org/events

(559) 549-6747 | info@kingswateralliance.org

BACK TO SCHOOL

EVENT AT THE RIVERDALE LIBRARY

WEDNESDAY AUGUST 2ND

3:30-4:00PM

Learn about safe drinking water and free resources including well testing and bottled water! Live demo of how well water becomes unsafe to drink!

Win School Supplies and Fresno Grizzlies Tickets

KINGS WATER ALLIANCE

kingswateralliance.org/events

FRESNO COUNTY PUBLIC LIBRARY

Back to School at Riverdale Library August 2nd 3:30-4PM kingswateralliance.org/events

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Back to School at Riverdale Library August 2nd 3:30-4PM kingswateralliance.org/events

LEMOORE COLLEGE

KINGS WATER ALLIANCE

Lemoore College hosts a community workshop
presented by the Kings Water Alliance.

“Let’s Talk About Safe Drinking Water”

Wednesday, December 4
6-7pm

Se proporciona interpretación en español

Lemoore College - Student Union

(555 College Ave., Bldg. 900, Dining Hall)

Your private residential well water may contain unhealthy levels of nitrate.

Kings Water Alliance will test your well water quality at no-cost to you!

EVENT RSVP
kingswateralliance.org/lemoore

All Are Welcome

Spanish Interpretation Provided

Free Food (with RSVP)

LEMOORE COLLEGE

KINGS WATER ALLIANCE

Lemoore College organiza un taller comunitario
presentado por Kings Water Alliance

“Hablemos sobre agua potable segura”

Miércoles 4 de diciembre

6-7pm

Se proporciona interpretación en español

Lemoore College - Student Union

(555 College Ave., Bldg. 900, Dining Hall)

Su pozo residencial puede contener niveles nocivos de nitrato.

Kings Water Alliance analizará la calidad del agua de su pozo sin costo alguno.

EVENTO RSVP
kingswateralliance.org/lemoore

Todos son bienvenidos Comida gratis (con confirmación de asistencia)

COLLEGE OF THE SEQUOIAS
HANFORD CAMPUS

KINGS WATER ALLIANCE

A community workshop presented by the Kings Water Alliance

“Let’s Talk About Safe Drinking Water”

Thursday, December 12

6-7pm

Se proporciona interpretación en español

COS Hanford - Vocational Bldg - Room 106

(925 13th Ave., Hanford, CA 93230)

Your private residential well water may contain unhealthy levels of nitrate.

EVENT RSVP

kingswateralliance.org/event/cos-hanford

Kings Water Alliance will test your well water quality at no-cost to you!

All Are Welcome | Spanish Interpretation Provided | Free Food (with RSVP)

COLLEGE OF THE SEQUOIAS
HANFORD CAMPUS

KINGS WATER ALLIANCE

Taller comunitario presentado por Kings Water Alliance

“Hablemos sobre agua potable segura”

Thursday, December 12
6-7pm

Se proporciona interpretación en español

COS Hanford - Vocational Bldg - Room 106

(925 13th Ave., Hanford, CA 93230)

Su pozo residencial puede contener niveles nocivos de nitrato.

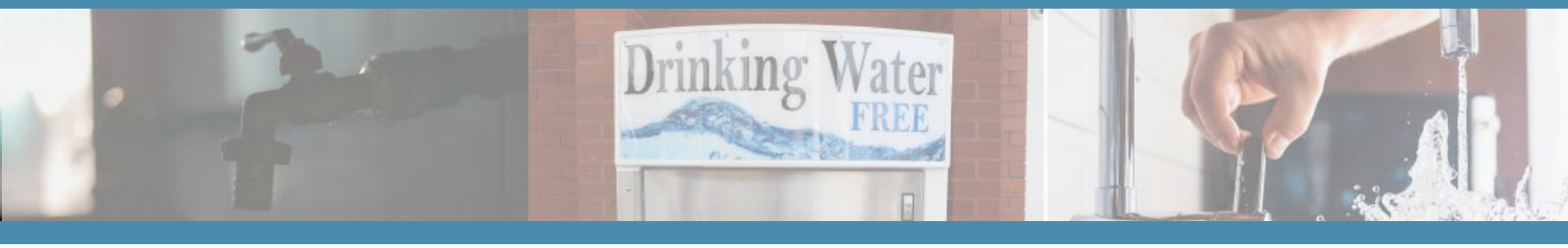
Kings Water Alliance analizará la calidad del agua de su pozo sin costo alguno.

EVENTO RSVP

kingswateralliance.org/event/cos-hanford

Todos son bienvenidos Comida gratis (con confirmación de asistencia)

APPENDIX A-3 KWA DIRECT MAIL



SEMINARIO WEB DE INICIO DEL PLAN DE ACCIÓN TEMPRANA

próximos pasos para llevar agua potable a los residentes

25 de May, 5:30-6:30 PM
Traducción al Español Disponible

Encuentre información sobre el seminario web por Zoom en el siguiente enlace:
www.kingswateralliance.org/events/webinar

ESTE WEBINAR PROPORCIONARÁ INFORMACIÓN SOBRE:

Cómo recibir pruebas de pozo gratuitas.

Dónde obtener agua potable segura.

El Plan de Acción Temprana presentado, parte de una estrategia para hacerse cargo del los nitratos que estan sobre los niveles seguros en la agua subterránea del Valle Central.

Este seminario web está dirigido tanto a los residentes de Kings Water Alliance como a los interesados partidos interesados y miembros del público. Las soluciones de agua potable deben ser flexible y orientado localmente. ¡Ayúdanos a manejar soluciones! Obtenga más información en:

www.kingswateralliance.org

KINGS WATER ALLIANCE

P.O. Box 8259, Fresno, CA 93747 | (559) 549-6747 | www.kingswateralliance.org

SAFE DRINKING WATER SOLUTIONS ARE COMING

SE ACERCAN SOLUCIONES PARA AGUA POTABLE SEGURA

Safe drinking water solutions are being developed in local communities

A new groundwater quality initiative, the Nitrate Control Program under CV-SALTS, is part of a strategy to address nitrate pollution in the Central Valley's groundwater. **The Kings Water Alliance is developing solutions in your area to provide safe drinking water supplies for local communities impacted by nitrates.**

Join us to learn more about the Early Action Plan for drinking water solutions

Drinking water solutions should be flexible and locally driven. Help us drive solutions! **Join us for a webinar to learn more about the Nitrate Control Program and proposed drinking water solutions. You will have an opportunity to provide input and ask questions.**

VISIT www.kingsriverwqc.org/drinkingwater to register for the webinar, sign up for email updates, and learn more about the Nitrate Control Program.

Webinar

November 19, 6:00-7:30 PM

REGISTER: WWW.KINGSRIVERWQC.ORG/DRINKINGWATER

Seminario Web

19 de noviembre, 6:00-7:30

REGISTRARSE: WWW.KINGSRIVERWQC.ORG/DRINKINGWATER

Se están desarrollando soluciones de agua potable segura en las comunidades locales

Una nueva iniciativa de calidad de las aguas subterráneas, el Programa de Control de Nitratos bajo CV-SALTS, es parte de una estrategia para abordar la contaminación por nitratos en las aguas subterráneas del Valle Central. **Kings Water Alliance está desarrollando soluciones en su área para proporcionar suministros de agua potable segura para las comunidades locales afectadas por nitratos.**

VISITE www.kingsriverwqc.org/drinkingwater para registrarse al seminario web, suscribirse a actualizaciones por correo electrónico y obtener más información sobre el Programa de Control de Nitratos.

Acompáñenos para obtener más información sobre el Plan de Acción Temprana para soluciones de agua potable

Las soluciones de agua potable deben ser flexibles y dirigidas localmente. ¡Ayúdanos a impulsar soluciones! **Acompáñenos para un seminario web para obtener más información sobre el Programa de Control de Nitratos y las propuestas soluciones de agua potable. Usted tendrá la oportunidad de proporcionar información y hacer preguntas.**

KINGS RIVER WATER QUALITY COALITION

P.O. Box 8259, Fresno, CA 93747 | (559) 549-6747 | www.kingsriverwqc.org/drinkingwater

SAFE DRINKING WATER
SOLUTIONS ARE COMING

Sign up to receive email updates on webinar details and opportunities to provide input on drinking water solutions www.kingsriverwqc.org/drinkingwater

Attend the upcoming webinar on November 19th. Register online at www.kingsriverwqc.org/drinkingwater

Find information on CV-SALTS (Central Valley Salinity Alternatives for Long-Term Sustainability) and the Nitrate Control Program at www.cvsalts.info

KINGS RIVER WATER QUALITY COALITION

P.O. Box 8259
Fresno, CA 93747

RETURN SERVICE REQUESTED

????????

GROUNDWATER IN YOUR AREA MAY EXCEED SAFE DRINKING WATER STANDARDS. BE A PART OF THE SAFE DRINKING WATER SOLUTION: WWW.KINGSRIVERWQC.ORG/DRINKINGWATER

LA AGUA SUBTERRÁNEA EN SU ÁREA PUEDE EXCEDER LOS ESTÁNDARES DE AGUA POTABLE SEGURA. SEA PARTE DE LA SOLUCIÓN DE AGUA POTABLE SEGURA: WWW.KINGSRIVERWQC.ORG/DRINKINGWATER

SE ACERCAN SOLUCIONES PARA
AGUA POTABLE SEGURA

Regístrese para recibir actualizaciones por correo electrónico sobre los detalles del seminario web y las oportunidades para proporcionar información sobre las soluciones de agua potable www.kingsriverwqc.org/drinkingwater

Asista al próximo seminario web el 19 de noviembre. Regístrese en línea en www.kingsriverwqc.org/drinkingwater

Encuentre información sobre CV-SALTS (Alternativas de Salinidad para la Sostenibilidad a Largo Plazo del Valle Central, CV-SALTS por su sigla en inglés) y el Programa de Control de Nitratos en www.cvsalts.info

KINGS WATER ALLIANCE

July 1, 2021

Dear Resident,

The Kings Water Alliance, a non-profit organization tasked with providing drinking water solutions for residents in your area, is offering FREE domestic well nitrate testing for private well owners as part of the Central Valley Salinity Alternative for Long Term Sustainability (CV-SALTS) initiative. Participation in this initiative is voluntary.

If you are interested in receiving a free well test to determine your domestic well nitrate levels, please fill out the Drinking Water Well Sampling/Bottled Water Form at www.kingswateralliance.org/welltest. If you would like a paper copy of the form, you can contact us by phone at (559) 549-6747 or email at info@kingswateralliance.org. You are eligible for free bottled water if your well sample results show that your drinking water contains nitrates above safe drinking water standards.

Nitrates are a concern for Central Valley residents in some areas. The Central Valley has nitrate levels in the groundwater that are above public health standard limit of 10 milligrams per liter. Drinking water with high nitrates can pose health risks.

To sign up for FREE domestic well nitrate testing, please follow the below steps:

Step 1: Submit the Drinking Water Well Sampling/Bottled Water Form online in English or Spanish at www.kingswateralliance.org/welltest. If you would like a paper copy of the form, call us at (559) 549-6747 or email info@kingswateralliance.org.

Step 2: Agree to have your private domestic well tested for nitrate.

Step 3: Receive your domestic well nitrate test results. If your well water contains nitrate above drinking water standards, you are eligible to receive FREE bottled water.

If your domestic well has nitrate levels above safe drinking water standards, we will work with you to get enrolled in our bottled water program with our provider, Sparkletts, and will walk through all information regarding the bottled water program and regular bottled water deliveries at that time. Only private wells with nitrates above the drinking water standards are eligible for Kings Water Alliance's bottled water program.

We encourage you to participate in this free program offered by the Kings Water Alliance. If you have any questions, please call us at (559) 549-6747, or email us at info@kingswateralliance.org.

Sincerely,

Charlotte Gallock

Charlotte Gallock
Executive Director
Kings Water Alliance

You received this mailer because you live in an area that is potentially impacted by unsafe level of nitrates in groundwater. **The best way to know if your groundwater has unsafe levels of nitrate is to have your well tested for FREE by the Kings Water Alliance.** To receive a free well test, fill out our form at www.kingswateralliance.org/welltest. Call or email us if you prefer a paper a form. If your test indicates your nitrate levels are above drinking water standards, **you may be eligible for FREE bottled water.**

KINGS WATER ALLIANCE

1 de Julio 2021

Querido Residente,

Kings Water Alliance, es una organización sin fines de lucro encargada de proporcionar soluciones de agua potable para los residentes de su área, ofrece pruebas de nitrato de pozos domésticos GRATUITAS para propietarios de pozos privados como parte de la Alternativa de Salinidad del Valle Central para la Sostenibilidad a Largo Plazo (CV-SALTS) iniciativa. La participación en esta iniciativa es voluntaria.

Si está interesado en recibir un análisis agua gratuita para determinar los niveles de nitrato de su pozo doméstico, complete el formulario en www.kingswateralliance.org/welltest. Si desea una copia del formulario en papel, puede comunicarse con nosotros por teléfono al (559) 549-6747 o por correo electrónico a info@kingswateralliance.org. Usted es elegible para agua embotellada gratis si los resultados de sus muestras de agua contiene nitratos por encima de los estándares de agua potable segura.

Los nitratos son una preocupación para todos los residentes del Valle Central en algunas áreas. El Valle Central tiene niveles de nitrato en la agua subterránea que están por sobre el límite estándar de salud pública de 10 miligramos por litro. Beber agua con alto contenido de nitratos puede presentar riesgos de salud.

Para inscribirse en una prueba de nitrato de pozo doméstico GRATUITA, siga los pasos a continuación:

Paso 1: Envíe el formulario de muestreo de pozo de agua potable / agua embotellada en línea en inglés o español en www.kingswateralliance.org/welltest. Si desea una copia del formulario en papel, llámenos al (559) 549-6747 o envíe un correo electrónico a info@kingswateralliance.org.

Paso 2: Acepte que su hogar particular sea examinado bien para detectar nitratos.

Step 3: Reciba los resultados de su prueba de nitrato de pozo doméstico. Si el agua de su pozo contiene nitrato por encima de los estándares de agua potable, es elegible para recibir agua embotellada GRATIS.

Si su pozo doméstico tiene niveles de nitrato por encima de los estándares de agua potable segura, trabajaremos con usted para inscribirse en nuestro programa de agua embotellada con nuestro proveedor, Sparkletts, y revisaremos toda la información sobre el programa de agua embotellada y las entregas regulares de agua embotellada en ese hora. Solo los pozos privados con nitratos por encima de los estándares de agua potable son elegibles para el programa de agua embotellada de Kings Water Alliance. Lo alentamos a participar en este programa gratuito ofrecido por Kings Water Alliance. Si tiene alguna pregunta, llámenos al (559) 549-6747, o envíenos un correo electrónico a info@kingswateralliance.org.

Atentamente,

Charlotte Gallock

Charlotte Gallock
Executive Director
Kings Water Alliance

Recibió este correo postal porque vive en un área potencialmente afectada por niveles peligrosos de nitratos en el agua subterránea. **La mejor manera de saber si su agua subterránea tiene un peligroso nivele de nitrato es por análisis que es GRATIS por Kings Water Alliance.** Para recibir un análisis, complete el formulario en www.kingswateralliance.org/welltest. Llámenos o envíenos un correo electrónico si prefiere un formulario de papel. Si su prueba indica que sus niveles de nitrato están por encima para agua potable, **puede ser elegible para agua embotellada GRATIS.**

NITRATE-IMPACTED RESIDENTS

ACCESSING SAFE DRINKING WATER

You live in an area identified as potentially impacted by unsafe levels of nitrates.

We are here to help you check and provide safe drinking water solutions.

1 Confirm your well has unsafe nitrate levels

The Kings Water Alliance is offering **FREE** water quality testing for nitrates. Visit www.kingswateralliance.org/welltest or call us at (559) 549-6747 for details.

2 Be willing to sign an agreement with a service provider

The Kings Water Alliance is committed to providing excellent safe drinking water solutions at **no cost** to eligible residents via Sparkletts who delivers bottled water.

2 IN 5 DOMESTIC WELLS IN THE KINGS WATER ALLIANCE ARE IMPACTED BY UNSAFE LEVELS OF NITRATE*.

*based on available data, we estimate over 2 in 5 domestic wells in the Kings Water Alliance Priority 1 area are impacted by >10 mg/L-N.

Ready to take the next steps to receive free drinking water solutions?

Have your well tested for FREE. Fill out the form at www.kingswateralliance.org/welltest or contact us for a paper form at (559) 549-6747 or info@kingswateralliance.org.

You can skip typing in the link. Scan the QR code to access the well test form.

fill stations: existing solutions for residents

Three fill station locations are now accessible throughout the Kings Water Alliance. Bring an empty container to a fill station and take safe, accessible, free drinking water back to your home.

Visit www.kingswateralliance.org/fillstations for location maps and more details.

HANFORD
504 W. 7th Street
Hanford, CA 93230

KERMAN
15101 W Kearney Blvd
Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

KINGS WATER ALLIANCE

QUESTIONS? Contact us at info@kingswateralliance.org or (559) 549-6747.

RESIDENTES IMPACTADOS POR NITRATO

ACCESO A AGUA POTABLE SEGURA

Vive en un área identificada como potencialmente afectada por niveles peligrosos de nitratos.

Estamos aquí para ayudarlo a verificar y brindar soluciones seguras de agua potable.

1

Confirme que su pozo tiene niveles peligrosos de nitrato

Kings Water Alliance ofrece pruebas GRATUITAS de agua para detectar nitratos. Visit www.kingswateralliance.org/welltest o llámanos al (559) 549-6747 para detalles.

2

Estar dispuesto a firmar un acuerdo con un proveedor de servicios

Kings Water Alliance se compromete a brindar excelentes soluciones de agua potable segura sin costo para los residentes elegibles a través de Sparkletts que entrega agua embotellada.

2 de 5 LOS POZOS DOMÉSTICOS EN THE KINGS WATER ALLIANCE SON IMPACTADOS POR NIVELES INSEGUROS DE NITRATO*.

* Según los datos disponibles, estimamos que más de 2 de cada 5 pozos domésticos en el área de Prioridad 1 de Kings Water Alliance se ven afectados por >10 mg/L-N

¿Está listo para dar los siguientes pasos para recibir soluciones de agua potable gratuitas?

Hágase una prueba GRATUITA. Complete el formulario en www.kingswateralliance.org/welltest o contáctenos para un formulario en papel al (559) 549-6747 o info@kingswateralliance.org.

Puede omitir escribir el enlace. Escanee el código QR para acceder al formulario de prueba de pozo.

Máquinas de agua: soluciones existentes para los residentes

Ahora se puede acceder a tres ubicaciones de estaciones de servicio a lo largo de Kings Water Alliance. Lleve un recipiente vacío a una estación de llenado y lleve agua potable segura, accesible y gratuita a su hogar.

Visite www.kingswateralliance.org/fillstations para mapas de ubicación y más detalles.

HANFORD
504 W. 7th Street
Hanford, CA 93230

KERMAN
15101 W Kearney Blvd
Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

KINGS WATER ALLIANCE

PREGUNTAS? Contactenos a info@kingswateralliance.org or (559) 549-6747.

UPCOMING WEBINARS - MORE INFORMATION ON NITRATES AND SAFE DRINKING WATER IN YOUR AREA.

WEBINAR
NITRATES IN GROUNDWATER: THE BASICS
Tuesday, July 27, 5:30 - 6:00 PM or
Wednesday, July 28, 12:00 - 12:30 PM

WEBINAR
HOW-TO: FILLING OUT THE WELL TEST FORM
Thursday, July 29, 5:30 - 6:00 PM or
Friday, July 30, 12:00 - 12:30 PM

Spanish translation available. Register and Zoom info at www.kingswateralliance.org/events.

Sign up to receive email updates on safe drinking water solutions and upcoming events for the program at www.kingswateralliance.org. **Webinar recordings will be shared with our email subscribers.**

Join as a member or attend the Stakeholder Advisory Committee! Join other residents in your area sharing their voice on drinking water solutions. Contact us at info@kingswateralliance.org or (559) 549-6747.

PRÓXIMOS SEMINARIOS WEB: MÁS INFORMACIÓN SOBRE NITRATOS Y AGUA POTABLE SEGURA EN SU ÁREA.

WEBINAR
NITRATOS EN AGUAS SUBTERRÁNEAS: LO BÁSICO
27 de Julio 5:30 - 6:00 PM o
28 de Julio 12:00 - 12:30 PM

WEBINAR
CÓMO: LLENAR EL FORMULARIO DE PRUEBA DE AGUA
29 de Julio 5:30 - 6:00 PM o
30 de Julio 12:00 - 12:30 PM

Traducción en Español disponible. Información de registro y Zoom en www.kingswateralliance.org/events.

Regístrese para recibir actualizaciones por correo electrónico sobre soluciones de agua potable segura y los próximos eventos del programa en www.kingswateralliance.org. **Las grabaciones de los seminarios web se compartirán con nuestros suscriptores de correo electrónico.**

¡Únase como miembro o asista al Comité Asesor de Partes Interesadas! Únase a otros residentes de su área para compartir su voz sobre las soluciones de agua potable. Contactenos a info@kingswateralliance.org o (559) 549-6747.

KINGS WATER ALLIANCE

4886 E Jensen Ave
Fresno, CA 93725

RETURN SERVICE REQUESTED

????????

[NAME1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX]
[NAME1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX]
[ADDRESS1XXXXXXXXXXXXXXXXXXXXXXX]
[ADDRESS2XXXXXXXXXXXXXXXXXX]
[ADDRESS3XXXXXXXXXXXXXXXX]

Resident: You live in an area that may be impacted by unsafe levels of nitrate in the groundwater. Information on how to receive free domestic well testing and safe drinking water is enclosed.

Residente: Vive en un área identificada como potencialmente afectada por niveles peligrosos de nitratos. Estamos aquí para ayudarlo a verificar y brindar soluciones seguras de agua potable.

NITRATE-IMPACTED RESIDENTS

ACCESS SAFE DRINKING WATER NOW

You live in an area identified as potentially impacted by unsafe levels of nitrate in groundwater. We are here to help you check and to provide safe drinking water if your household is impacted.

We are offering FREE well testing for nitrates to eligible residents. Fill out the form at **www.kingswateralliance.org/welltest**, or contact us at (559) 549-6747 or info@kingswateralliance.org for a paper form. If well test results show nitrate contamination above safe drinking levels, you may be eligible for free, safe bottled water from the Kings Water Alliance.

You can skip typing in the link. Scan the QR code with your smartphone camera to access the well test form.

RESIDENTES IMPACTADOS POR NITRATO

ACCESO A AGUA POTABLE SEGURA

Vive en un área identificada como potencialmente afectada por niveles peligrosos de nitratos. Estamos aquí para ayudar a verificar y proporcionar agua potable segura si su hogar esta afectado.

Ofrecemos pruebas de pozo GRATUITAS para nitratos a los residentes elegibles. Complete el formulario en **www.kingswateralliance.org/welltest**, o contáctenos al (559) 549-6747 o info@kingswateralliance.org para un forma de papel. Si los resultados de las pruebas de pozo muestran contaminación por nitratos arriba niveles seguros para beber, puede ser elegible para agua de Kings Water Alliance.

Puede omitir escribir en el enlace. Escanee el código QR con su cámara del teléfono inteligente para acceder al bien forma de prueba.

2 IN 5 DOMESTIC WELLS IN YOUR AREA ARE IMPACTED BY UNSAFE LEVELS OF NITRATE*. HAVE YOUR WELL TESTED FOR FREE.

*Based on available data, we estimate over 2 in 5 domestic wells in the Kings Water Alliance are impacted by >10 mg/L-N.

2 de 5 LOS POZOS DOMÉSTICOS EN SU ÁREA SON IMPACTADOS POR NIVELES INSEGUROS DE NITRATO *. HAGA SU BIEN PROBADO GRATIS.

*Según los datos disponibles, estimamos que más de 2 de cada 5 pozos domésticos en el área de Prioridad 1 de Kings Water Alliance se ven afectados por >10 mg/L-N

KINGS WATER ALLIANCE

P.O. Box 8259
Fresno, CA 93747

You live in an area identified as potentially impacted by unsafe levels of nitrate in groundwater. Using nitrate-contaminated groundwater for drinking and cooking poses health risks. You may be eligible to receive free bottled water. **The first step is to have your well tested for nitrates. Eligible residents can have their well tested for FREE by the Kings Water Alliance.** *See back of postcard for details.* Need safe water now? Visit www.kingswateralliance.org/fillstations.

Vive en un área identificada como potencialmente afectada por niveles peligrosos de nitrato en el agua subterránea. El uso de agua subterránea contaminada con nitratos para beber y cocinar presenta riesgos para la salud. Puede ser elegible para recibir agua embotellada gratis. **El primer paso es someterse a una prueba de nitratos. Los residentes elegibles pueden someterse a pruebas GRATUITAS de su pozo por parte de Kings Water Alliance.** Consulte el reverso de la carta postal para obtener más detalles. ¿Necesitas agua potable ahora? Visite www.kingswateralliance.org/fillstations.

WWW.KINGSWATERALLIANCE.ORG/WELLTEST

The Kings Water Alliance (KWA) is a non-profit organization formed in 2021 to provide short- and long-term drinking water solutions for residents impacted by unsafe levels of nitrate.

Kings Water Alliance (KWA) es una organización sin fines de lucro formada en 2021 para brindar soluciones de agua potable a corto y largo plazo para los residentes afectados por niveles peligrosos de nitrato.

POSTAGE

NAME
NAME
Address line 1
Address line 2
City, CA zip code

YOUR WATER MAY BE CONTAMINATED WITH UNSAFE NITRATE LEVELS. WE HAVE FREE SOLUTIONS.

SU AGUA PUEDE ESTAR CONTAMINADA CON NIVELES DE NITRATO INSEGUROS. TENEMOS SOLUCIONES GRATUITAS.

559-549-6747 | www.kingswateralliance.org | info@kingswateralliance.org

KINGS WATER ALLIANCE

August 16, 2021

Dear Resident,

Your residence has been identified as potentially impacted by unsafe levels of nitrate in the groundwater. Some areas in the Central Valley have nitrate levels in the groundwater that are above public health standard limit of 10 milligrams per liter. Using nitrate-contaminated groundwater for drinking and cooking poses a health risk. We are here to help you take the next steps to find out if you are impacted. The first step is to have your well tested for nitrates.

Our organization, the Kings Water Alliance, is a non-profit organization tasked with providing drinking water solutions for nitrate impacted residents in your area. We are offering FREE domestic well nitrate testing for private well owners within our region that qualify. Participation in this initiative is voluntary. **You are eligible for free bottled water if your well test results show that your drinking water contains nitrates above safe drinking water standards.**

To sign up for FREE domestic well nitrate testing, please follow the steps below*:

Step 1: Fill out the Drinking Water Well Sampling/Bottled Water Form included in this mailer and return using the postage paid envelope enclosed. Or, fill out the form online at www.kingswateralliance.org/welltest.

Step 2: Agree to have your private domestic well tested for nitrate.

Step 3: Receive your domestic well nitrate test results. If your well water contains nitrate above drinking water standards, you are eligible to receive FREE bottled water.

If your domestic well has nitrate levels above safe drinking water standards, we will work with you to get enrolled in our bottled water program with our provider, Sparkletts, and will walk through all information regarding the bottled water program and regular bottled water deliveries at that time. Only private wells with nitrates above the drinking water standards are eligible for Kings Water Alliance's bottled water program.

We encourage you to participate in this free program offered by the Kings Water Alliance. If you have any questions, please call us at (559) 549-6747, or email us at info@kingswateralliance.org.

Sincerely,

Charlotte Gallock

Charlotte Gallock
Executive Director
Kings Water Alliance

You received this mailer because you live in an area identified as potentially impacted by unsafe levels of nitrate in groundwater. **The best way to know if your groundwater has unsafe levels of nitrate is to have your well tested for FREE by the Kings Water Alliance.** To determine if you are eligible to receive a free well test, fill out the enclosed form and mail back in the postage paid envelope provided. Or fill out the form at www.kingswateralliance.org/welltest. If your test indicates your nitrate levels are above drinking water standards, **you may be eligible for FREE bottled water.**

**If your parcel has a regulatory requirement to test your domestic well, for example a parcel enrolled in the Irrigated Lands Regulatory Program with the Kings River Water Quality Coalition, please provide your required test results. If your results are higher than the safe drinking water limit you are eligible to receive bottled water. Fill out the same form provided and we will contact you for next steps.*

KINGS WATER ALLIANCE

16 de Agosto 2021

Querido Residente,

Su residencia ha sido identificada como potencialmente afectada por niveles peligrosos de nitrato en la agua subterránea. Algunas áreas del Valle Central tienen niveles de nitrato en el agua subterránea que están sobre el límite estándar de salud pública de 10 miligramos por litro. El uso de agua subterránea contaminada con nitratos para beber y cocinar representa un riesgo para la salud. Estamos aquí para ayudarlo a tomar los siguientes pasos para averiguar si se ve afectado. El primer paso es someterse a una prueba de nitratos.

Nuestra organización, Kings Water Alliance, es una organización sin fines de lucro encargada de brindar soluciones de agua potable para los residentes afectados por nitratos en su área. Ofrecemos pruebas de nitrato en pozos domésticos GRATIS para propietarios de pozos privados dentro de nuestra región que califiquen. La participación en esta iniciativa es voluntaria. **Usted es elegible para agua embotellada gratis si los resultados de su prueba de pozo muestran que su agua potable contiene nitratos por encima de los estándares de agua potable segura.**

Para inscribirse en una prueba de nitrato de pozo doméstico GRATUITA, siga los pasos a continuación*:

Paso 1: Llene el formulario de muestreo de pozo de agua potable / agua embotellada que se incluye en este correo y devuélvalo utilizando el sobre con franqueo pagado adjunto. O complete el formulario en línea en www.kingswateralliance.org/welltest.

Paso 2: Agree to have your private domestic well tested for nitrate.

Paso 3: Receive your domestic well nitrate test results. If your well water contains nitrate above drinking water standards, you are eligible to receive FREE bottled water.

Si su pozo doméstico tiene niveles de nitratos sobre los estándares de agua potable segura, trabajaremos con usted para inscribirse en nuestro programa de agua embotellada con nuestro proveedor, Sparkletts, y revisaremos toda la información sobre el programa de agua embotellada y las entregas regulares de agua embotellada en ese tiempo. Solo los pozos privados con nitratos por encima de los estándares de agua potable son elegibles para el programa de agua embotellada de Kings Water Alliance.

Lo alentamos a participar en este programa gratuito ofrecido por Kings Water Alliance. Si tiene alguna pregunta, llámenos al (559) 549-6747, o envíenos un correo electrónico a info@kingswateralliance.org.

Sincerely,

Charlotte Gallock

Charlotte Gallock
Executive Director
Kings Water Alliance

Recibió este correo porque vive en un área identificada como potencialmente afectada por niveles peligrosos de nitrato su agua subterránea. **La mejor manera de saber si su agua subterránea tiene niveles peligrosos de nitrato es hacer un análisis GRATIS de su pozo por Kings Water Alliance.** Para determinar si es elegible para recibir una prueba de pozo gratuita, complete el formulario adjunto y envíelo por correo en el sobre con franqueo pagado proporcionado. O complete el formulario en www.kingswateralliance.org/welltest. Si su prueba indica que los niveles de nitrato están sobre los estándares del agua potable, **puede ser elegible para agua embotellada GRATIS.**

**Si su parcela tiene un requisito para una prueba en su pozo doméstico, por ejemplo, una parcela inscrita en el Programa Regulador de Tierras Irrigadas con Kings River Water Quality Coalition, proporcione los resultados de las pruebas requeridas. Si sus resultados están sobre el límite de agua potable segura, sería elegible para recibir agua embotellada. Complete el mismo formulario provisto y nos comunicaremos con usted para los siguientes pasos.*

RESIDENTIAL DRINKING WATER WELL SAMPLING/BOTTLED WATER FORM (FORMULARIO PARA MUESTREO DE POZO DE AGUA POTABLE RESIDENCIAL/AGUA EMBOTELLADA)

MAIL TO (CORREA A): Kings Water Alliance, P.O. Box 8259, Fresno, CA 93747

Fill out this form to determine eligibility for a free well test, or to begin receiving bottled water if you've had a test from a certified laboratory in the last five years that shows unsafe levels of nitrate (>10 mg/L-N). ****Please answer numbers 4 and 5 so we can contact you to schedule a well test, if eligible****.

Complete este formulario para determinar la elegibilidad para una prueba de pozo gratuita o para comenzar a recibir agua embotellada si se ha sometido a una prueba de un laboratorio certificado en los últimos cinco años que muestra niveles peligrosos de nitrato (>10 mg / L-N). ****Porfavor responda a los números 4 y 5 para que podamos comunicarnos con usted para hacer una prueba de pozo****

1. First Name (Nombre): _____

2. Last Name (Apellido): _____

3. Preferred language (Idioma preferido):
   - □ English (Inglés)
   - □ Spanish (Español)
   - □ Other, please specify (Otros, especificar): _____

4. Phone number* (Número de teléfono): _____

5. Email address* (Dirección de correo electrónico): _____

6. What is your preferred way of contact? (¿Cuál es su forma de contacto preferida?)
   - □ Email (Por correo electrónico)
   - □ Phone (Por telefono)
   - □ No preference (Sin preferencias)
   - □ Other, please specify (Otros, especificar): _____

7. Address (Dirección): _____

8. City (Ciudad): _____

9. State (Estado): _____ 10. Zip code (Código Postal): _____

11. Address type (Tipo de Dirección):
   - □ Residence (Residencia)
   - □ Business (Negocio)

12. Is your domestic drinking water well located on a parcel subject to a Waste Discharge Requirement General Order requiring the collection of groundwater samples from drinking water and/or domestic wells such as the Irrigated Lands Regulatory Program (Irrigated Agriculture), Existing Milking Cows (also known as the "Dairy Program"), or Confined Bovine Feeding Operations? (¿Está su pozo de agua potable doméstica ubicado en una parcela bajo de una Orden General de Requisito de Descarga de Residuos que requiere la colección de muestras de agua subterránea de agua potable y / o pozos domésticos como el Programa Regulador de Tierras Irrigadas (Agricultura Irrigada), Vacas Ordeñadoras Existentes (también conocido como el "Programa de Lechería"), o las Operaciones de Alimentación Ganado Confinada?)

- □ Yes (Sí)
- □ No (No)
- □ Don't know (No lo se)

13. Do you own or rent? (¿Es propietario o inquilino?)

- □ Own (Propietario)
- □ Rent (Inquilino)

14. If you rent, are you willing to obtain consent (ie. land owner signature) from the land owner for KWA to access the drinking water well and a collect water sample for testing? (¿Está dispuesto a obtener el consentimiento (es decir, la firma del propietario de la tierra) del propietario de la tierra para que KWA acceda al pozo de agua potable y recolecte una muestra de agua para analizar?)

- □ Yes (Sí)
- □ No (No)
- □ Don't know (No lo se)

15. How many people currently live in your household? This will help us assess your drinking water needs. (¿Cuántas personas viven en su hogar ahorita? (esto nos ayudará a evaluar sus necesidades de agua potable):

_____

16. How is water supplied to this residence? (¿Cómo se suministra agua a esta residencia?)

- □ Private well (Pozo privado)
- □ Public water system (Sistema público de agua)
- □ Don't know (No se)
- □ Other, please specify (Otros, especificar): _____

17. If you chose public water system above, please write the name below (Nombre del sistema público de agua):

_____

18. If there are multiple residences served by your drinking water well, how many? (If only one residence, skip this question). (Si hay varias residencias abastecidas por su pozo de agua potable, ¿cuántas? (si solo hay 1 residencia, omita esta pregunta)).

- □ 2
- □ 3
- □ 4
- □ 5
- □ More than 5 (más de 5)

18b. If there are multiple residences served by your drinking water well, please list the addresses (address, city, state, and zip code) for all residences served by your drinking water well. If only one residence, skip this question. ((Enumere las direcciones de residencia (dirección, ciudad, estado y código postal) de todas las residencias atendidas por su pozo de agua potable. Si solo hay 1 residencia, omita esta pregunta)).

Address 1: Address 2: Address 3:

Address 4: Address 5:

19. Has your drinking water well been sampled for Nitrates in the last 5 years? (¿Se han tomado muestras de nitratos en su pozo de agua en los últimos 5 años?)

- □ Yes (Sí). If yes, please include a copy of the results with this completed form. (En caso de si, incluya una copia de los resultados con este formulario completo.)
- □ No (No)
- □ Don't know (No lo se)

20. If you chose yes above, most recent drinking water well Nitrate (mg/L as N) results were (Los resultados más recientes de nitrato de pozo de agua (mg / L como N) fueron):

- □ 0 - 2.5
- □ > 2.5 - 5.0
- □ > 5.0 - 7.5
- □ > 7.5 - 10.0
- □ > 10.0
- □ Don't know (No se)

21. Geotracker is the State Water Resources Control Boards' data management system that provides online access to environmental data including water quality such as Nitrates. This tool provides user access to data and site locations (maps). Are you willing to allow your sampling results to be included on geotracker to help us provide you with free, safe drinking water solutions that meets your needs? (Geotracker es el sistema de manejo de datos de la Mesa Estatal de Control de Recursos Hídricos que proporciona acceso en línea a datos ambientales, incluida la calidad del agua, como los nitratos. Esta herramienta proporciona al usuario acceso a datos y ubicaciones de sitios (mapas). ¿Está dispuesto a permitir que los resultados de sus muestras se incluyan en el systema de geotracker para ayudarnos a brindarle soluciones de agua potable segura y gratuita que satisfagan sus necesidades?)

- □ Yes (Sí)
- □ No (No)
- □ Don't know (No lo se)

22. How did you hear about the Kings Water Alliance residential well sampling and bottled water program? (¿Cómo se enteró del programa de muestreo de pozos residenciales y agua embotellada de Kings Water Alliance?)

- □ Email from the Kings Water Alliance (Correo electrónico de Kings Water Alliance)
- □ Email from an industry group/community organization (Correo electrónico de un grupo industrial /organización comunitaria)
- □ Direct mail sent to my home (Correo directo enviado a mi casa)
- □ Social media (Medios de comunicación social)
- □ Local community organization (ie. church, non-profit) (Organización comunitaria local (es decir, iglesia, sin fines de lucro))
- □ Local food bank (Banco de alimentos local)
- □ Friends/family/neighbor (Amigos/familia/vecino)
- □ Colleague/employer (Colega/empleador)
- □ Other, specify (Otra especificar): _____

Sign up to receive email updates on safe drinking water solutions and upcoming events for the program at www.kingswateralliance.org.

Regístrese para recibir actualizaciones por correo electrónico sobre soluciones de agua potable segura y los próximos eventos del programa en www.kingswateralliance.org.

fill stations: existing solutions for residents

Three fill station locations are now accessible throughout the Kings Water Alliance. Bring an empty container to a fill station and take safe, accessible, free drinking water back to your home today.

Visit www.kingswateralliance.org/fillstations for location maps and more details.

HANFORD
504 W. 7th Street
Hanford, CA 93230

KERMAN
15101 W Kearney Blvd
Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

Máquinas de agua: soluciones existentes para los residentes

Ahora se puede acceder a tres ubicaciones de estaciones de servicio a lo largo de Kings Water Alliance. Lleve un recipiente vacío a una estación de llenado y lleve agua potable segura, accesible y gratuita a su hogar.

Visite www.kingswateralliance.org/fillstations para mapas de ubicación y más detalles.

HANFORD
504 W. 7th Street
Hanford, CA 93230

KERMAN
15101 W Kearney Blvd
Kerman, CA 93630

DINUBA
517 W El Monte Way
Dinuba, CA 93618

NO POSTAGE
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IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST-CLASS MAIL PERMIT NO. 132000 FRESNO, CA

POSTAGE WILL BE PAID BY ADDRESSEE

KINGS WATER ALLIANCE
PO BOX 8259
FRESNO CA 93747-9900

KINGS WATER ALLIANCE

P.O. Box 8259
Fresno, CA 93747

????????

[NAME1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX]
[NAME1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX]
[ADDRESS1XXXXXXXXXXXXXXXXXXXXXXX]
[ADDRESS2XXXXXXXXXXXXXXXXXXX]
[ADDRESS3XXXXXXXXXXXXXXXX]

Resident: You live in an area that may be impacted by unsafe levels of nitrate in the groundwater. Information on how to receive FREE domestic well testing and safe drinking water is enclosed.

Residente: Vive en un área identificada como potencialmente afectada por niveles peligrosos de nitratos. Se adjunta información sobre cómo recibir pruebas de pozos domésticos GRATIS y agua potable segura.

ACCESS SAFE DRINKING WATER NOW

The Kings Water Alliance, a local non-profit, would like to test your well water for nitrates. Drinking nitrate-contaminated groundwater poses health risks. If you live in the Kings Water Alliance service area, we will test your well for free.

Fill out the well test request form. Form available three ways:

1. online: www.kingswateralliance.org/welltest
2. paper form: call (559) 549-6747
3. email: info@kingswateralliance.org

You can skip typing in the link. Scan the QR code with your smartphone camera to access the well test form.

If well test results show nitrate contamination above safe drinking levels, you may be eligible for free, safe bottled water from the Kings Water Alliance.

ACCESO A AGUA POTABLE SEGURA

Kings Water Alliance, una organización local sin fines de lucro, quisiera analizar el agua de su pozo para detectar nitratos. Beber agua subterránea contaminada con nitratos presenta riesgos para la salud. Si vive en el área de servicio de Kings Water Alliance, analizaremos su pozo de agua gratis.

Llene el formulario de solicitud de prueba de pozo. Formularios disponibles de tres maneras:

1. En línea: www.kingswateralliance.org/welltest
2. forma de papel: call (559) 549-6747
3 Correo electrónico: info@kingswateralliance.

Puede omitir escribir en el enlace. Escanee el código QR con su cámara del teléfono inteligente para acceder al bien forma de prueba.

Si los resultados de las pruebas de pozo muestran contaminación por nitratos arriba niveles seguros para beber, puede ser elegible para agua de Kings Water Alliance.

KINGS WATER ALLIANCE

P.O. Box 8259
Fresno, CA 93747

You live in an area identified as potentially impacted by unsafe levels of nitrate in groundwater. Using nitrate-contaminated groundwater for drinking and cooking poses health risks. You may be eligible to receive free bottled water. **The first step is to have your well tested for nitrates.** *See back of postcard for details.*

Need safe water now? Visit www.kingswateralliance.org/fillstations.

Vive en un área identificada como potencialmente afectada por niveles peligrosos de nitrato en el agua subterránea. El uso de agua subterránea contaminada con nitratos para beber y cocinar presenta riesgos para la salud. Puede ser elegible para recibir agua embotellada gratis. **El primer paso es someterse a una prueba de nitratos.** Consulte el reverso de la carta postal para obtener más detalles.

¿Necesitas agua potable ahora? Visite www.kingswateralliance.org/

WWW.KINGSWATERALLIANCE.ORG/WELLTEST

The Kings Water Alliance (KWA) is a trusted local non-profit serving your community with nitrate well testing and bottled water delivery at no cost.

Kings Water Alliance (KWA) es una organización local sin fi nes de lucro de confi anza que sirve a su comunidad con pruebas de agua para nitratos y entrega de agua embotellada sin costo alguno.

POSTAGE

NAME
NAME
Address line 1
Address line 2
City, CA zip code

559-549-6747 | www.kingswateralliance.org | info@kingswateralliance.org

IS YOUR WELL WATER SAFE TO DRINK?

The Kings Water Alliance, a local non-profit, is providing FREE well testing for nitrates. Drinking nitrate-contaminated groundwater is a serious public health issue. If your drinking water has unsafe nitrate levels, we will provide you with safe drinking water solutions. As a free community resource, our goal is to make access to safe drinking water simple and quick.

To see if you are eligible for free well testing, take our 2-minute survey!

Survey available three ways:

1. Scan the QR Code
2. Paper form: call (559) 549-6747
3. Online: www.kingswateralliance.org/welltest

You can skip typing in the link. Scan the QR code with your smartphone camera to access the well test survey.

If well test results show nitrate contamination above safe drinking levels, you may be eligible for free, safe bottled water from the Kings Water Alliance delivered to your home every two weeks in 5-gallon containers.

¿EL AGUA DE SU POZO ES SEGURA PARA BEBER?

Kings Water Alliance, una organización local sin fines de lucro, ofrece pruebas de nitratos en pozos GRATIS. Beber agua subterránea contaminada con nitratos es un grave problema de salud pública. Si su agua potable tiene niveles de nitrato inseguros, le proporcionaremos soluciones de agua potable segura. Como recurso comunitario gratuito, nuestro objetivo es hacer que el acceso al agua potable segura sea simple y rápida.

Para ver si es elegible para una prueba de pozo gratis, ¡tome nuestra encuesta de 2 minutos!

Encuesta disponible de tres maneras:

1. Escanea el código QR
2. Formulario en papel: llame al (559) 549-6747
3. En línea: www.kingswateralliance.org/welltest

Puede omitir escribir en el enlace. Escanee el código QR con su cámara del teléfono inteligente para acceder al bien forma de prueba.

Si los resultados de las pruebas de pozo muestran una contaminación de nitratos sobre los niveles seguros para beber, puede ser elegible para recibir agua embotellada y gratuita de Kings Water Alliance que se entrega en su hogar cada dos semanas en contenedores de 5 galones.

KINGS WATER ALLIANCE

P.O. Box 8259
Fresno, CA 93747

You live in an area identified as potentially impacted by unsafe levels of nitrate in groundwater. Using nitrate-contaminated groundwater for drinking and cooking poses health risks. You may be eligible to receive free bottled water. **The first step is to have your well tested for nitrates.** *See back of postcard for details.*

Need safe water now? Visit www.kingswateralliance.org/fillstations.

Vive en un área identificada como potencialmente afectada por niveles peligrosos de nitrato en el agua subterránea. El uso de agua subterránea contaminada con nitratos para beber y cocinar presenta riesgos para la salud. Puede ser elegible para recibir agua embotellada gratis. **El primer paso es someterse a una prueba de nitratos.** Consulte el reverso de la carta postal para obtener más detalles.

¿Necesitas agua potable ahora? Visite www.kingswateralliance.org/fillstations.

WWW.KINGSWATERALLIANCE.ORG/WELLTEST

The Kings Water Alliance (KWA) is a trusted local non-profit serving your community with nitrate well testing and bottled water delivery at no cost.

Kings Water Alliance (KWA) es una organización local sin fi nes de lucro de confi anza que sirve a su comunidad con pruebas de agua para nitratos y entrega de agua embotellada sin costo alguno.

POSTAGE

NAME
NAME
Address line 1
Address line 2
City, CA zip code

559-549-6747 | www.kingswateralliance.org | info@kingswateralliance.org

IS YOUR WELL WATER SAFE TO DRINK?

¿EL AGUA DE SU POZO ES SEGURA PARA BEBER?

Many residents in the Central Valley rely on wells as their primary source of water. Some residents cannot safely use this water due to unsafe contamination levels. If your drinking water has unsafe nitrate levels, the Kings Water Alliance will provide you with safe drinking water solutions.

To see if you are eligible for a free well test, take our 2-minute survey!
Survey available three ways:

1. Scan the QR Code
2. Paper form: call (559) 549-6747
3. Online: www.kingswateralliance.org/welltest

If your well test shows nitrate contamination above safe drinking levels, you may be eligible for FREE, bottled water from the Kings Water Alliance delivered to your home every two weeks in 5-gallon containers.

Muchos residentes del Valle Central dependen de los pozos como fuente principal de agua. Algunos residentes no pueden usar esta agua de manera segura debido a los niveles de contaminación inseguros. Como un recurso comunitario gratuito, nuestro objetivo es hacer que el acceso al agua potable sea simple y rápido.

Para ver si es elegible para una prueba de pozo gratuita, ¡tome nuestra encuesta de 2 minutos!
Encuesta disponible de tres maneras:

1. Escanea el código QR
2. Formulario en papel: llame al (559) 549-6747
3. En línea: www.kingswateralliance.org/welltest

Si la prueba de su pozo muestra la contaminación por nitrato sobre niveles seguros para beber, puede ser elegible para recibir agua embotellada GRATUITA de Kings Water Alliance entregada a su hogar cada dos semanas en contenedores de 5 galones.

If you would like to learn more about our well sampling and bottled water program and the work of the Kings Water Alliance, join as at our next webinar.

Testing and Drinking Water Webinar
March 15, 2023 6:00 - 6:30 pm (English)
Register: www.kingswateralliance.org/events

Si desea conocer más sobre nuestro programa de muestreo de pozos y agua embotellada y el trabajo de Kings Water Alliance, únase a nuestro seminario de web próximo.

Seminario de Web Sobre Pruebas y Agua Potable
15 de Marzo de 2023 6:30-7:00 pm (Español)
Registro: www.kingswateralliance.org/events

KINGS WATER ALLIANCE
A Nonprofit Organization

P.O. Box 8259 Fresno, CA 93747
www.kingswateralliance.org
(559) 549-6747

You live in an area identified as potentially impacted by unsafe levels of nitrate in water.

Using nitrate-contaminated water for drinking and cooking poses health risks. You may be eligible to receive free bottled water. The first step is to have your well tested for nitrates. See back of postcard for details.

Need safe water now? Visit www.kingswateralliance.org/fillstations

Usted vive en un área identificada como potencialmente afectada por niveles inseguros de nitrato en el agua.

El uso de agua contaminada con nitratos para beber y cocinar presenta riesgos para la salud. Puede ser elegible para recibir agua embotellada gratis. El primer paso es hacer una prueba de nitratos en su pozo. Vea el reverso de la postal para más detalles.

¿Necesita agua potable ahora? Visitar www.kingswateralliance.org/fillstations

NAME
NAME
Address line 1
Address line 2
City, CA zip code

WWW.KINGSWATERALLIANCE.ORG/WELLTEST

Local water industry and community representatives have joined to form a non-profit organization, the Kings Water Alliance (KWA) to serve your community with nitrate well testing and bottled water delivery at no cost.

Los representantes de la industria local del agua y la comunidad se han unido para formar una organización sin fines de lucro, Kings Water Alliance (KWA) para servir a su comunidad con pruebas de nitrato en pozos y entrega de agua embotellada sin costo alguno.

KINGS WATER ALLIANCE

IS YOUR WELL WATER SAFE TO DRINK?

Drinking nitrate-contaminated water is a serious public health issue. If your drinking water has unsafe nitrate levels, the Kings Water Alliance will provide you with safe drinking water solutions. As a free community resource, our goal is to make access to safe drinking water simple and quick.

To see if you are eligible for free well testing, take our 2-minute survey!

Fill out and return the form on the right in the postage paid envelope, or scan the QR Code.

If your well test shows nitrate contamination above safe drinking levels, you may be eligible for FREE, bottled water from the Kings Water Alliance delivered to your home every two weeks in 5-gallon containers.

559-549-6747 | www.kingswateralliance.org | info@kingswateralliance.org

KINGS WATER ALLIANCE

First Name: _____

Last Name: _____

Phone Number: _____

Address: _____

City: _____

State: _____ Zip Code: _____

Email: _____

Do you receive water for your home from a private well? (circle one)

YES *NO* *DO NOT KNOW*

Traducción al Español en la parte posterior

KINGS WATER ALLIANCE

¿EL AGUA DE SU POZO ES SEGURA PARA BEBER?

Bebiendo agua contaminada con nitratos es un grave problema de salud pública. Si su agua potable tiene niveles inseguros de nitrato, Kings Water Alliance le proporcionará soluciones de agua potable segura. Como un recurso comunitario gratuito, nuestro objetivo es hacer que el acceso al agua potable sea simple y rápido.

Para ver si es elegible para una prueba de pozo gratuita, ¡tome nuestra encuesta de 2 minutos!
Complete y devuelva el formulario a la derecha en el sobre con franqueo pagado, o escanee el código QR

Si la prueba de su pozo muestra la contaminación por nitrato sobre niveles seguros para beber, puede ser elegible para recibir agua embotellada GRATUITA de Kings Water Alliance entregada a su hogar cada dos semanas en contenedores de 5 galones.

559-549-6747 | www.kingswateralliance.org | info@kingswateralliance.org

KINGS WATER ALLIANCE

Primer nombre: _____

Apellido: _____

Número de teléfono: _____

Dirección: _____

Ciudad: _____

Estado: _____ Código Postal: _____

Correo electrónico: _____

¿Recibe agua para su hogar de un pozo privado? (circule uno)

SÍ *NO* *NO LO SÉ*

KINGS WATER ALLIANCE

Safe Drinking Water Survey

Your Voice Can Make a Difference

Help us understand the current conditions of drinking water in your home and to explore what clean drinking water solutions could work best for your community.

Why does your participation matter? Because this is about YOUR drinking water and ensuring it is safe.
Your responseswill help us:

- Find out if the drinking water in your home is impacted by high levels of nitrate, a harmful contaminant to your health
- Develop and implement effective ways for you to access clean drinking water that fits your needs

Please consider taking a few minutes to complete this survey, your participation is voluntary, and your answers will remain confidential.

Visit the website below or scan the QR code to take the survey!

KingsWaterAlliance.org/survey

Do you know about Nitrate?

Across areas of Fresno, Kings, and Tulare counties 2 in 5 private residentials wells may contain unhealthy levels of a contaminant called Nitrate. Kings Water Alliance offers free nitrate testing to make sure your well water is safe, and if it is not, we will get you access to clean water in a way that works best for you.

KINGS WATER ALLIANCE

Encuesta Sobre Agua Potable Segura

Su Voz Puede Hacer Una Diferencia

Ayúdanos a entender las condiciones actuales del agua potable en su hogar y explore qué soluciones de agua potable limpia podrían funcionar mejor para su comunidad.

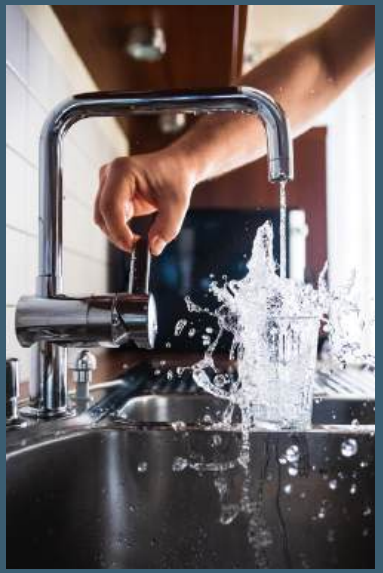
¿Por qué es importante su participación? Porque se trata de SU agua potable y de asegurarse de que sea segura. Sus respuestas ayudarán a:

- Descubra si el agua potable de su hogar está afectada por altos niveles de nitrato
- Desarrollar e implementar formas efectivas para que usted pueda acceder a agua potable limpia que se ajuste a sus necesidades.

Tómese unos minutos para completar nuestra encuesta, su participación es voluntaria y sus respuestas permanecerán confidenciales.

¡Visita el sitio web a continuación o escanea el código QR para completar la encuesta!

KingsWaterAlliance.org/encuesta



¿Sabes sobre el nitrato?

En las áreas de los condados de Fresno, Kings y Tulare, 2 de cada 5 pozos residenciales pueden contener niveles altos de un contaminante llamado nitrato. Si su hogar depende de un pozo domestico para agua para beber y se encuentra en el área de servicio de Kings Water Alliance, seria elegible para una prueba de nitrato gratuita para asegurar que el agua de su pozo sea segura. Si no lo es, Kings Water Alliance trabajará para brindarle acceso a agua limpia de la manera que funcione mejor para usted.

APPENDIX A-4 KWA EMAIL NOTICE EXAMPLE

KINGS RIVER WATER QUALITY COALITION

REMINDER: WEBINAR

Early Action Plan to address safe drinking water

TONIGHT! Thursday, November 19, 2020

6:00 - 7:30 PM

Via Zoom Webinar.

Join Webinar

Or click the link below to join the webinar:
https://zoom.us/j/91835976227

Or iPhone one-tap :
US: +16699006833,,91835976227# or +13462487799,,91835976227#

Or Telephone:
Dial (for higher quality, dial a number based on your current location):
US: +1 669 900 6833 or +1 346 248 7799 or +1 253 215 8782 or +1 312 626 6799 or +1 929 205 6099 or +1 301 715 8592
Webinar ID: 918 3597 6227

Zoom Details

We recommend joining 5-10 minutes early to get comfortable with the Zoom webinar platform.

All participants will automatically have their video and microphone turned off for the duration of the webinar, unless unmuted to ask a question.

If you are experiencing technical difficulties, call (559) 549-6747. The webinar chat will also be available for technical issues and questions.

Know someone who should join the webinar?

Forward this email to a friend, family member, or colleague. No registration required to join the webinar via the link provided.

This webinar will engage the community on Early Action Plan development, part of a strategy to address nitrate pollution in the Central Valley's groundwater. Community residents and domestic well owners whose groundwater is potentially impacted by nitrates have been invited to participate. Other stakeholders are encouraged to attend. Participants will have the opportunity to provide input on proposed drinking water solutions.

A webpage has been developed for community residents and domestic well owners with educational information on the Nitrate Control Program and Early Action Plan. **Visit the webpage at www.kingsriverwqc.org/drinkingwater.**

Kings River Water Quality Coalition
P.O. Box 8259, Fresno, CA 93747
559-365-7958
info@kingsriverwqc.org

KINGS WATER ALLIANCE

Early Action Plan Kick-Off

Learn what the next steps are to bring drinking water solutions to your community.

Early Action Plan Kick-Off:
Next Steps to Bring Drinking Water to Residents

Tuesday, May 25, 2021

5:30 - 6:30 PM

Via Zoom Webinar.

Register

Webinar Details

The webinar will provide information on how to receive free well testing, where to access clean drinking water, and an overview of the submitted Early Action Plan, part of a strategy to address nitrate pollution in the Central Valley's groundwater.

This webinar is for Kings Water Alliance residents as well as interested stakeholders and members of the public.

Drinking water solutions should be flexible and locally driven. Help us drive solutions! Click HERE to learn more about the Kings Water Alliance.

Kings Water Alliance
P.O. Box 8259, Fresno, CA 93747

559-549-6747
info@ kingswateralliance.org

Debra Dunn

From: Kings Water Alliance <info@kingswateralliance.org>
Sent: Monday, March 13, 2023 1:03 PM
To: Debra Dunn
Subject: 2 Days Away From Our Testing and Drinking Water Webinar

KINGS WATER ALLIANCE

In 2 Days, Join Us for an Educational Webinar Hosted by the Kings Water Alliance!

Testing and Drinking Water Webinar

Wednesday, March 15, 2023

6:00 - 6:30 PM (English)
6:30-7:00 PM (Spanish)

Zoom Webinar

Register Here

Be sure to register for the zoom login details.

Webinar Details

The webinar will provide information on how to receive **free** well testing and the important work the Kings Water Alliance is doing to bring **safe** drinking water to residents.

This webinar is for Kings Water Alliance residents as well as interested stakeholders and members of the public.

Drinking water solutions should be flexible and locally driven. Help us drive solutions! Click HERE to learn more about the Kings Water Alliance.

KINGS WATER ALLIANCE

En 2 días, únase a nosotros para un webinar educativo organizado por Kings Water Alliance.

Seminario Web Sobre Pruebas y Agua Potable

Miércoles, 15 de Marzo de 2023

6:00 - 6:30 p.m. (Inglés)
6:30-7:00 p.m. (Español)

Seminario web por Zoom

Registrarse Aquí

Asegúrese de registrarse para obtener los detalles de registro de sesión de Zoom.

Detalles del seminario web

El seminario web brindará información sobre cómo recibir pruebas de pozo **gratuitas** y el importante trabajo que está realizando Kings Water Alliance para brindar agua potable **segura** a los residentes.

Este seminario web es para los residentes de Kings Water Alliance, así como para las partes interesadas y miembros del público.

Las soluciones de agua potable deben ser flexibles e impulsadas localmente. ¡Ayúdanos a impulsar soluciones! Haga clic AQUÍ para obtener más información sobre Kings Water Alliance.

Kings Water Alliance
P.O. Box 8259, Fresno, CA 93747
559-549-6747
info@kingswateralliance.org

Debra Dunn

From: Kings Water Alliance <info@kingswateralliance.org>
Sent: Wednesday, July 26, 2023 4:37 PM
To: Debra Dunn
Subject: 4 Back-to-School Events at the Library hosted by Kings Water Alliance

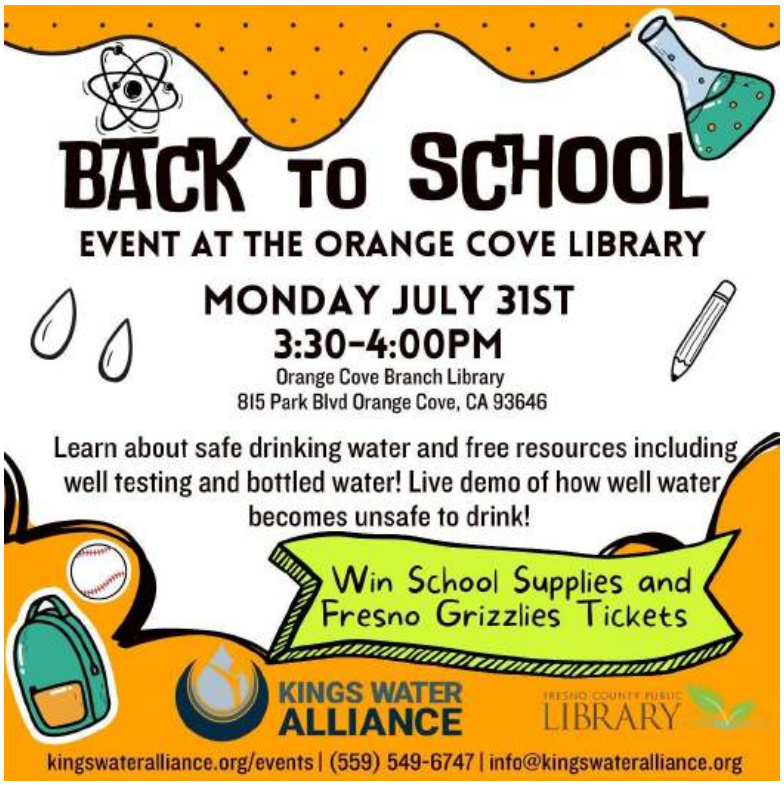
KINGS WATER ALLIANCE

NEXT WEEK:
KWA is Hosting Four Back to School Events at Four Libraries

Join us for at one of our four **Back to School Events** at the Orange Cove, Parlier, Riverdale, and Easton Libraries! You and your kids will learn about safe drinking water and free resources available for rural residents! There will also be a live demo of how well water becomes unsafe to drink!

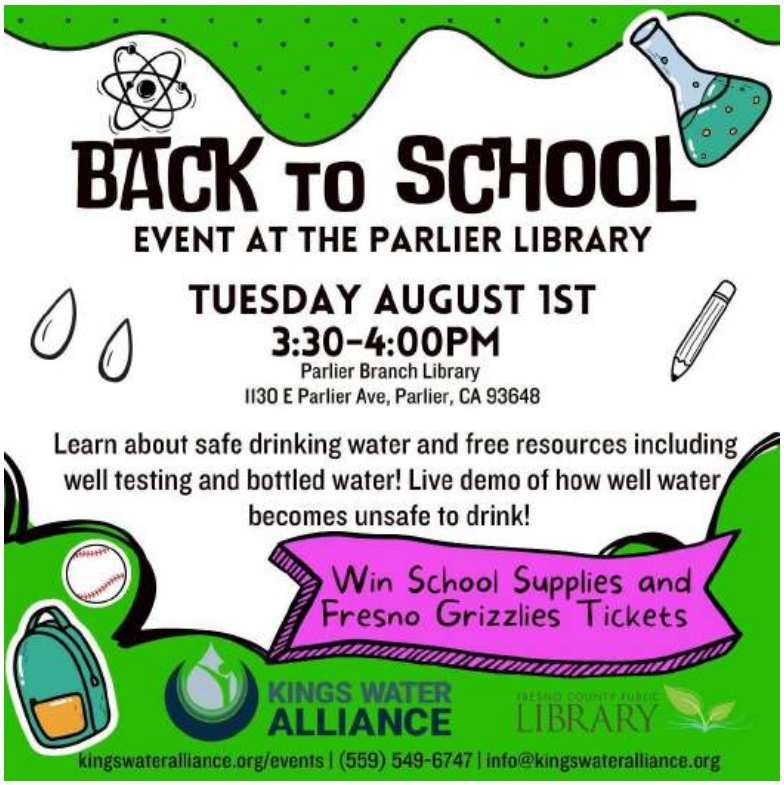
All kids who attend will be entered in a RAFFLE for a chance to win a Backpack Full of School Supplies and Fresno Grizzlies Baseball Tickets!

Read below for event details or go to our **Event Page**.



Monday July 31st 3:30 - 4:00 PM
Orange Cove Branch Library
815 Park Blvd, Orange Cove, CA 93646

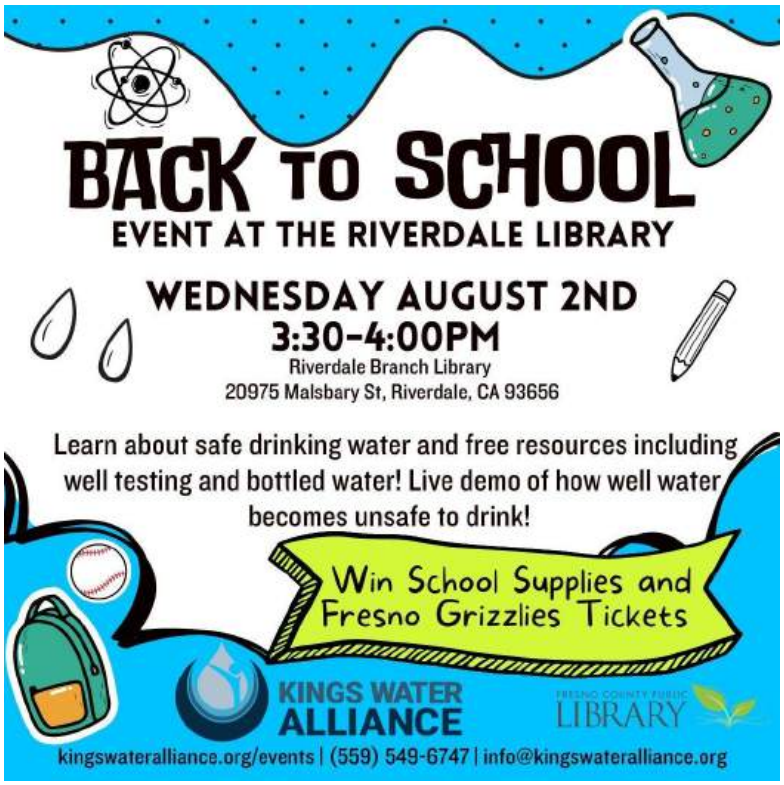
Event Details



Tuesday August 1st 3:30 - 4:00 PM
Parlier Branch Library

130 E Parlier Ave, Parlier, CA 93648

Event Details



Wednesday August 2nd 3:30 - 4:00 PM
Riverdale Branch Library
20975 Malsbary St, Riverdale, CA 93656

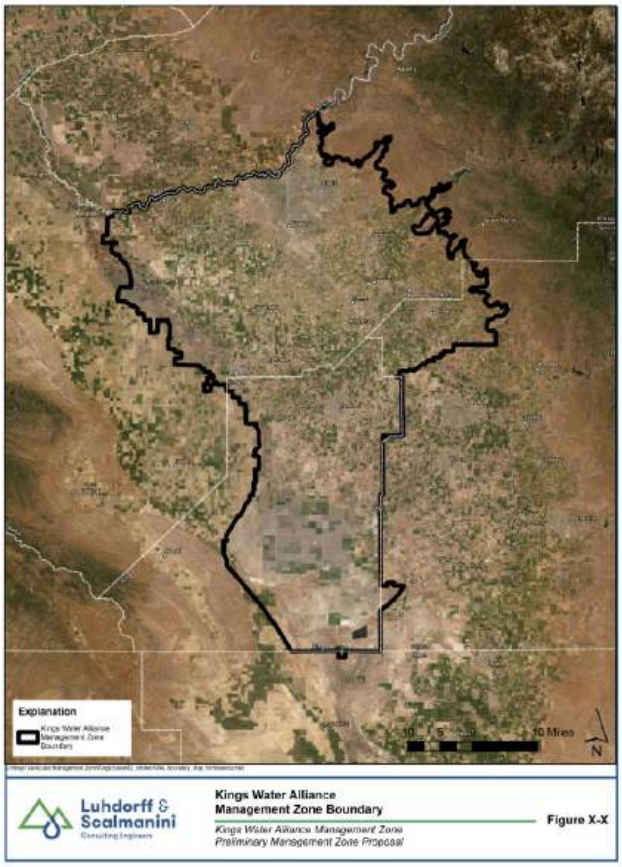
Event Details

Thursday August 3rd 3:30 - 4:00 PM
Riverdale Branch Library
25 E Fantz Ave, Easton, CA 93706

Event Details

About the Kings Water Alliance

Many communities in the Central Valley rely on groundwater as their primary source of drinking water. Some communities cannot safely use groundwater for drinking water due to unsafe nitrate levels that may cause human health impacts.



Local industry and community representatives have joined to form a new non-profit organization, the Kings Water Alliance, with the goal to implement safe drinking water solutions.

The Kings Water Alliance is efficiently implementing new water quality requirements under new Salt and Nitrate Control Programs. It is the governing organization for an area known as the Kings Management Zone, an area covering the Kings and Tulare Lake groundwater subbasins.

The direct result of over a decade of collaboration between stakeholders, a new Salt and Nitrate Control Program was approved by the State Water Resources Control Board on October 16, 2019 with new mandates for dischargers in the Central Valley. Compliance is most efficiently and effectively achieved through the formation of local Management Zones like the Kings Water Alliance. A Management Zone is a coalition of dischargers in a groundwater subbasin cooperating to achieve sustainability while providing safe drinking water solutions.

Visit our website

Kings Water Alliance
P.O. Box 8259, Fresno, CA 93747
559-549-6747
info@kingswateralliance.org

Debra Dunn

From: Kings Water Alliance <jjensen@krcd.org>
Sent: Thursday, August 15, 2024 1:21 PM
To: Debra Dunn
Subject: Webinar: Safe Drinking Water for Kings County Residents

Safe Drinking Water for Kings County Residents

Do you live in Kings County? Do you rely on a residential well and worry about your drinking water?

In many areas, one out of two wells might have unsafe levels of nitrates. The only way to find out is to test your well water. We want your input and ideas. Join us to collaborate on solutions at an upcoming webinar on Tuesday, August 27 at 6pm. By joining, you can help make sure you and your neighbors have clean water to drink.

Register

If you can't make it to the webinar, we would still like to hear from you, please call (559) 549-6747 or email us info@kingswateralliance.org

Agua potable segura para los residentes del Condado de Kings

¿Vive usted en el Condado de Kings? ¿Depende de un pozo residencial y se preocupa por su agua potable?

En muchas áreas, uno de cada dos pozos puede tener niveles peligrosos de nitratos. La única forma de averiguarlo es analizar el agua de su pozo. Queremos conocer sus comentarios y ideas. Únase a nosotros para colaborar en la búsqueda de soluciones en un próximo seminario web el martes 27 de agosto a las 6:00 p. m. Al unirse, puede ayudar a garantizar que usted y sus vecinos tengan agua limpia para beber.

Registrar

Si no puede asistir al seminario web, nos gustaría saber de usted. Llame al (559) 549-6747 o envíenos un correo electrónico a info@kingswateralliance.org

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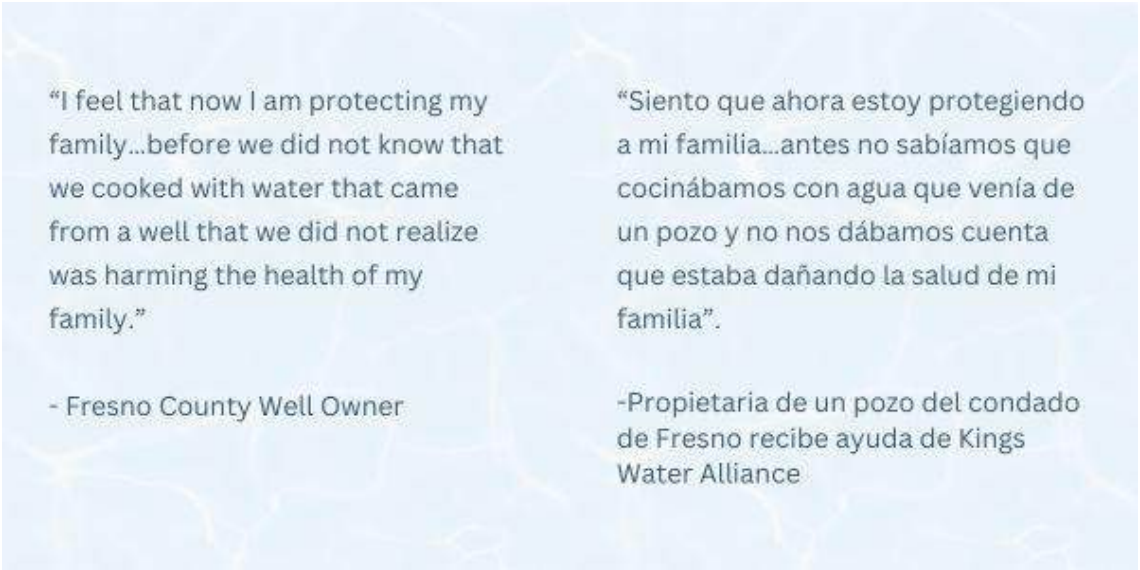


kingswateralliance.org (559) 549-6747 info@kingswateralliance.org

Debra Dunn

From: Kings Water Alliance <ddunn@krcd.org>
Sent: Thursday, September 12, 2024 3:31 PM
To: Debra Dunn
Subject: You're Invited! In-Person Workshop: Safe Drinking Water for Kings County Residents

Safe Drinking Water for Kings County Residents

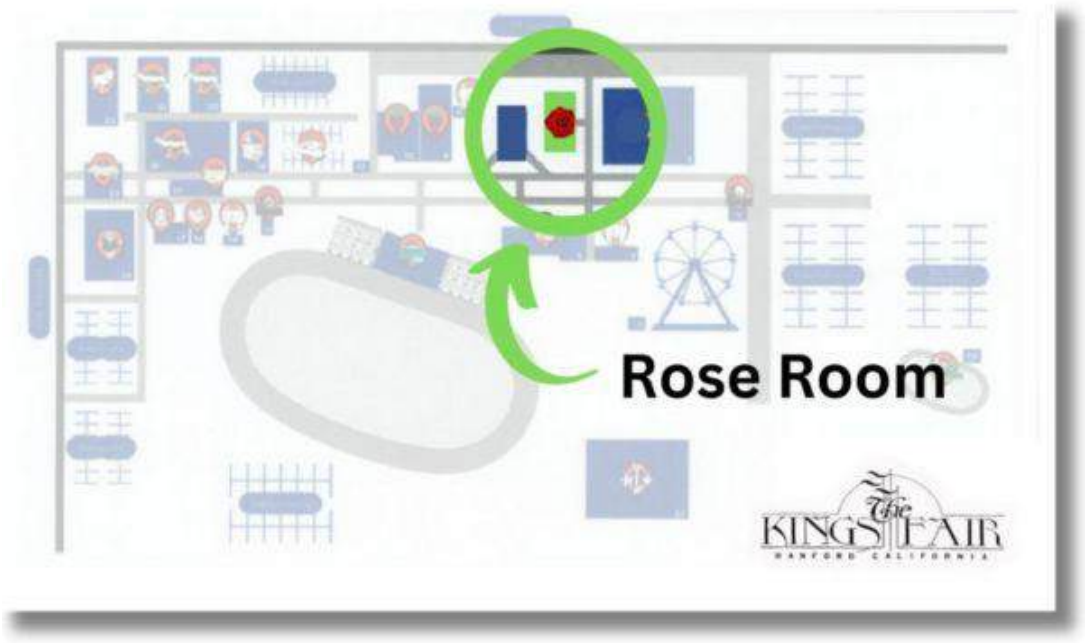
Do you live in Kings County? Do you rely on a residential well and worry about your drinking water?

In many areas, one out of two wells might have unsafe levels of nitrates. The only way to find out is to test your well water. We want your input and ideas. Join us to collaborate on solutions at an upcoming meeting on Tuesday, September 24 at 6 pm at the Kings County Fairgrounds in the Rose Room. By joining, you can help make sure you and your neighbors have clean water to drink.

RSVP

Location

Kings County Fairgrounds (Rose Room)
801 S 10th Ave, Hanford, CA 93230



If you can't make it to the webinar, we would still like to hear from you, please call (559) 549-6747 or email us info@kingswateralliance.org

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Agua potable segura para los residentes del Condado de Kings

¿Vive usted en el Condado de Kings? ¿Depende de un pozo residencial y se preocupa por su agua potable?

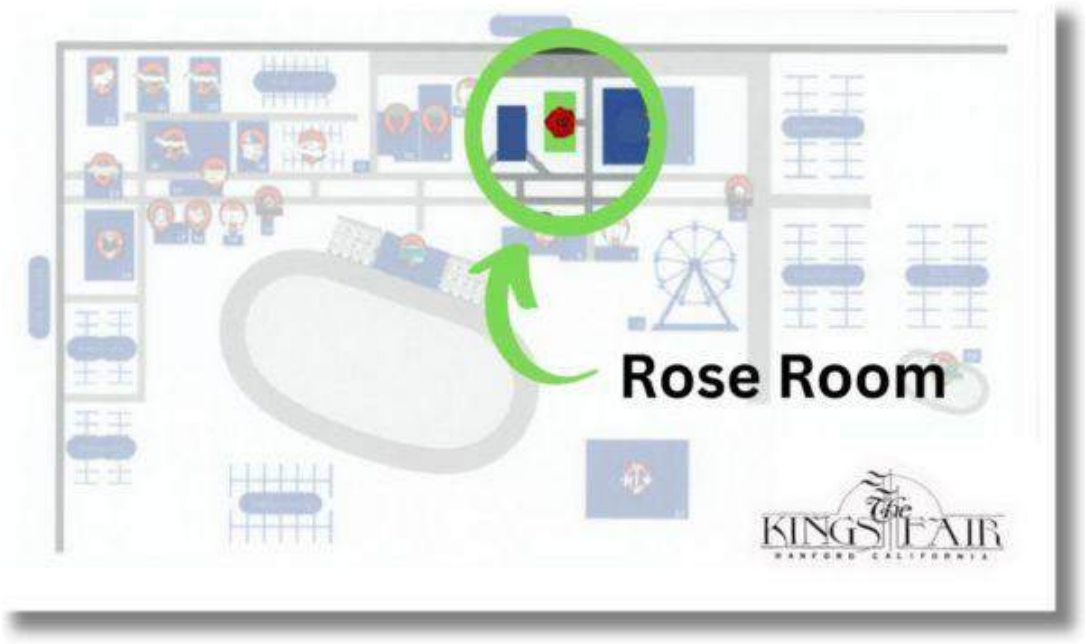
En muchas áreas, uno de cada dos pozos puede tener niveles peligrosos de nitratos. La única forma de averiguarlo es analizar el agua de su pozo. Queremos conocer sus comentarios y ideas. Únase a nosotros para colaborar en la búsqueda de soluciones en un próximo evento en persona el martes 24 de septiembre a las 6:00 p.m. Al unirse, puede ayudar a garantizar que usted y sus vecinos tengan agua limpia para beber.

RSVP

Ubicación

Kings County Fairgrounds (Rose Room)

801 S 10th Ave, Hanford, CA 93230



Si no puede asistir al seminario web, nos gustaría saber de usted. Llame al (559) 549-6747 o envíenos un correo electrónico a info@kingswateralliance.org

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"I feel that now I am protecting my family...before we did not know that we cooked with water that came from a well that we did not realize was harming the health of my family."

- Fresno County Well Owner

"Siento que ahora estoy protegiendo a mi familia...antes no sabíamos que cocinábamos con agua que venía de un pozo y no nos dábamos cuenta que estaba dañando la salud de mi familia".

-Propietaria de un pozo del condado de Fresno recibe ayuda de Kings Water Alliance

kingswateralliance.org (559) 549-6747 info@kingswateralliance.org

Debra Dunn

From: Kings Water Alliance <info-kingswateralliance.org@shared1.ccsend.com>
Sent: Tuesday, November 12, 2024 12:58 PM
To: Debra Dunn
Subject: Early Action Plan Available for Public Review and Comment

KINGS WATER ALLIANCE

Early Action Plan Available for Review and Public Comment

The Kings Water Alliance (KWA) has developed an Early Action Plan (EAP), a document outlining safe drinking water solutions in portions of the Tulare Lake subbasin. The key element of this EAP, which was developed in collaboration with the community, is the Interim Replacement Water Program. This Program provides immediate alternative sources of drinking water for residences that depend on groundwater from domestic wells for drinking and cooking purposes where that groundwater contains unsafe levels of nitrate.

The draft document is available **on our website for download**.

We are now accepting public comments on the draft EAP document.

Comments should be submitted no later than November 26, 2024 for consideration in the final Early Action Plan.

Early Action Plan

DOWNLOAD

Ways You Can Comment

The Early Action Plan draft is available for download and public comment. You can submit your comments the following ways:

1) Email your comments to **info@kingswateralliance.org**.

2) Call us at **(559) 549-6747**.

Upcoming Events

VIRTUAL OFFICE HOURS

Have questions or comments about the Early Action Plan and Preliminary Management Zone Proposal. The Kings Water Alliance staff are available to talk with you at our virtual office hours. Join at either date below.

November 19, 2024 9:00 - 10:00 am

November 22, 2024 3:00 - 4:00 pm

For more details, view our events page.

EVENTS PAGE

Plan de Acción Temprana Disponible para Revisión y Comentarios Públicos

Kings Water Alliance (KWA) ha desarrollado un Plan de Acción Temprana (EAP), un documento que describe soluciones de agua potable segura en partes de la subcuenca del Lago Tulare. El elemento clave de este EAP, que

se desarrolló en colaboración con la comunidad, es el Programa de Reemplazo Provisional de Agua. Este programa proporciona fuentes alternativas inmediatas de agua potable para las residencias que dependen del agua subterránea de pozos domésticos para beber y cocinar, cuando dicha agua subterránea contiene niveles peligrosos de nitrato.

El borrador del documento está disponible para su descarga **en nuestro sitio web**.

Ahora estamos aceptando comentarios públicos sobre el borrador del documento EAP.

Los comentarios deben enviarse antes del 26 de noviembre de 2024 para ser considerados en el Plan de Acción Temprana final.

Plan de Acción Temprana

DESCARGAR

Ways You Can Comment

El borrador del Plan de Acción Temprana está disponible para su descarga y para que el público pueda hacer comentarios. Puede enviar sus comentarios de las siguientes maneras:

1) Envíe sus comentarios por correo electrónico: **info@kingswateralliance.org.**

2) Llámenos al **(559) 549-6747.**

Próximos Eventos

HORARIO DE OFICINA VIRTUAL

Tiene preguntas o comentarios sobre el Plan de Acción Temprana. El personal de Kings Water Alliance está disponible para hablar con usted en nuestro horario de oficina virtual. Únase en cualquiera de las fechas siguientes.

19 de noviembre, 2024 9:00 - 10:00 am

22 de noviembre, 2024 3:00 - 4:00 pm

Para más detalles, consulte nuestra página de eventos:

PAGINA DE EVENTOS

Kings Water Alliance
P.O. Box 8259, Fresno, CA 93747
559-549-6747
info@kingswateralliance.org

Debra Dunn

From: Kings Water Alliance <jjensen@krcd.org>
Sent: Tuesday, November 19, 2024 9:21 AM
To: Debra Dunn
Subject: Let's Talk About Safe Drinking Water in Kings County

Let's Talk About Safe Drinking Water

Upcoming Public Meetings in Kings County

Across areas of Fresno, Kings, and Tulare counties, 2 in 5 private residential wells could have unsafe levels of nitrates in their water. The only way to find out is to test the well water.

Join us at one (or both) of our next in-person workshops to talk about safe drinking water. Help us understand the current conditions of drinking water in your home and to explore what clean drinking water solutions could work best for your community.

Why does your participation matter? Because this is about YOUR drinking water and making sure it is safe.

Wednesday, December 4

West Hills College Lemoore - Student Union
555 College Ave., Bldg. 900
6:00pm - 7:00pm

RSVP

Thursday, December 12

COS Hanford - Vocational Bldg. (Room 106)
925 13th Ave., Hanford, CA 93230
6:00pm - 7:00pm

RSVP

If you can't make it to the webinar, we would still like to hear from you, please call (559) 549-6747 or email us info@kingswateralliance.org

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Hablemos sobre agua potable segura

Reuniones públicas en el condado de Kings

En muchas áreas del Valle Central, el 50% de los pozos residenciales podrían tener niveles inseguros de nitratos en el agua. La única manera de saberlo es analizando el agua del pozo.

Ayúdanos a entender las condiciones actuales del agua potable en su hogar y explore qué soluciones de agua potable limpia podrían funcionar mejor para su comunidad.

¿Por qué es importante su participación? Porque se trata de SU agua potable y de asegurarse de que sea segura.

Miércoles, 4 de diciembre

West Hills College Lemoore - Student Union
555 College Ave., Bldg. 900
6:00pm - 7:00pm

RSVP

Jueves, 12 de diciembre

COS Hanford - Vocational Bldg. (Room 106)
925 13th Ave., Hanford, CA 93230
6:00pm - 7:00pm

RSVP

Si no puede asistir al seminario web, nos gustaría saber de usted. Llame al (559) 549-6747 o envíenos un correo electrónico a info@kingswateralliance.org

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kingswateralliance.org (559) 549-6747 info@kingswateralliance.org

APPENDIX A-5 KWA PRINT ADVERTISING EXAMPLE

FROM PAGE 1A

POET LAUREATE

That awe vanished once Ríos realized he towered over Dyer.

"I'll just keep doing what I do," said Ríos. "I'll say a few less f-words, but I'm just going to keep being the writer that I have been."

Who is this poet/author who follows in the footsteps of former Fresno poet laureates like James Tyner, Lee Herrick, S. Bryan Medina, Marisol Baca, and Megan Anderson Bohigian?

Herrick, his poetry professor at Fresno City College, said Ríos "redefines fearlessness with a signature talent and unapologetic conviction." He wrote that in Ríos' debut book.

"The agile flurry of his storytelling is dazzling: Zapata and Lorca, Shakespeare and Borges, Rocky Balboa, family and *tías* ... This is *duende* and fire, language as pugilism. This is a new poetics at the next level," Herrick wrote.

Carissa García, who nominated Ríos for the honorary title, said his poems "are of loss and growth of the mundane and the idiosyncratic of sharing story, memory and music through generations and of the foul-mouthed but witty language of a younger generation."

"They are poems filled with different communities that make up Fresno and that showcase the unique culture of place," said García.

Fresno Arts Council executive director Lilia Chávez-Gonzales, responding to a man who yelled "That guy's good!" after Ríos read a few of his works at the Thursday reception, said, "He's better than good. He's amazing!"

Ríos was weaned on the storytelling of his grandmother Helen Ruiz, who embellished her gossip with each telling.

"I didn't realize what was happening. But like, you know, years later as a writer, I'm like, 'Oh, Grandma was practicing revision,'" said Ríos. "You know what I mean? She was making the story better every time."

Ríos – who read 'Fresno Is' after his city council introduction and also at the Fresno Arts Council reception – credits his grandmother, who grew up in Old Clovis, for the early lessons on how to deliver poetry.

The movement of her hands, the pauses of words, placing her hands on her knees, and leaning into the listener, said Ríos, became his first "workshop."

Ríos hopes to motivate young and soon-to-be poets and writers much like how Herrick and Medina inspired him to take a detour from being a journalist.

While researching at the main library downtown for a school project, Ríos sat down and read the works of Andrés Montoya, Juan Felipe Herrera, Phil Levine and others.

"It was right then that I was like, you know, no offense, but I was like, I don't want to be a journalist anymore," he said. "I want to be a poet. Like, you know, like I'm in the wrong racket."

Ríos wants others to feel the same about literature and how to describe Fresno and its people with words that "are worthy of the page."

"I hope that in the two years that I'm doing this, that I create space for some poet to feel more like a poet or begin to call themselves a poet," said Ríos. "Maybe one, two, three dozen (of them) hopefully begin to feel confident enough to say, 'Hey, I'm a poet. I want to be a poet.'"

CINE

Natalia Reyes: "Falta mucho" para la igualdad de actores latinos en EE.UU.

POR MARIBEL ARENAS VADILLO
Agencia EFE

BOGOTÁ, COLOMBIA

"Hollywood ha sido, por muchos años, la meca del cine, pero siempre atendiendo a narrativas muy blancas", así define la actriz colombiana Natalia Reyes a esta industria a propósito del estreno de la película 'Mañana, Antes, Después', de la cual es protagonista.

Sin embargo, asegura en una entrevista que aunque "falta mucho" para la igualdad de los actores latinos, el sector se "ha abierto mucho".

Para la actriz colombiana que hizo de heroína en '*Terminator: Dark Fate*' (2019) junto a Arnold Schwarzenegger, la apertura de esta industria que le reservaba a las artistas latinoamericanas el papel de prostitutas, camareras o inmigrantes que cruzan la frontera, se debe a la "necesidad imperiosa de reflejar la realidad poblacional del país".

"Es verdad que, de alguna manera, hay una categoría de 'latino'. Es como que yo no soy una 'actriz' sino una 'actriz latina'", señaló la artista en relación a la categorización que responde al nombre de "*people of color*" (personas de color).

En este sentido y, aunque reconoce que sus raíces las tiene "demasiado bien arraigadas", Reyes admite que trabajó mucho para "reducir" su acento en pos de tener en inglés la misma "maleabilidad" que tiene en español a la hora de emular en sus papeles la diversidad lingüística que hay dentro de su país.

SOLA EN UN VIAJE POSAPOCALÍPTICO

Segura de que "la ciencia ficción es cada vez más ciencia y menos ficción", la protagonista y personaje único de este largometraje posapocalíptico ve como punto de partida de la cinta la "relación equivocada" de los seres humanos con el planeta y las especies que lo habitan.

"La película deja un mensaje de alarma y de cuidado. Tenemos que tomar medidas urgentes para que estas pandemias y realidades no se repitan", confiesa Reyes tras definir el largometraje dirigido por el salvadoreño-canadiense Alfonso Quijada como su "mayor reto" profesional.

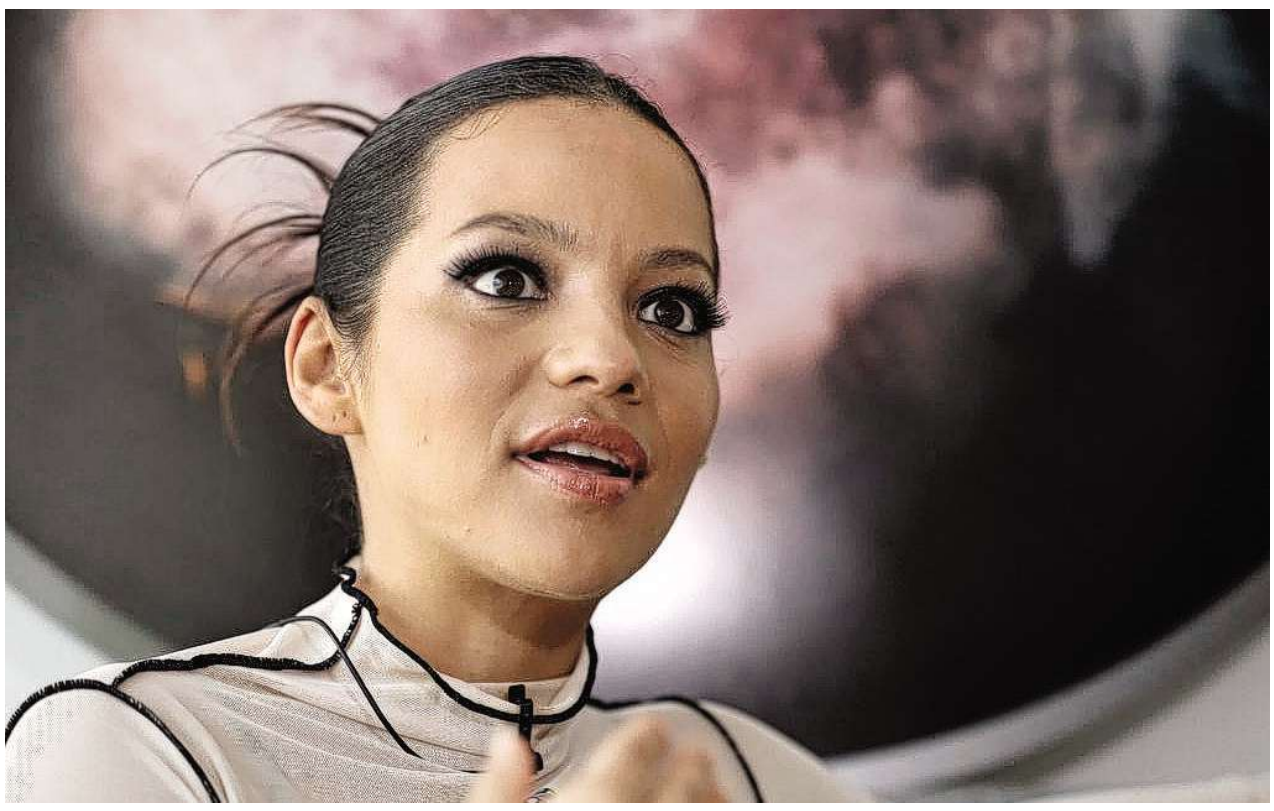
Es así como en esta producción completamente rodada en Colombia durante los meses de gestación de Isla, hija de Reyes, y en el marco de la emergencia de la COVID-19, la artista camina entre edificios abandonados, coches empolvados y calles desiertas mientras su personaje se pregunta por qué es la única que sobrevivió a una pandemia mundial que acabó con la especie humana.

En medio de una sinfonía de emociones, voces y pensamientos como el de "tal vez estoy muerta y este es mi purgatorio" o "soy polvo en el camino", esta mujer sin nombre abraza la resiliencia y recobra la esperanza tras saber que está esperando un hijo.

DESAFÍOS DEL CINE COLOMBIANO

Además de la interpretación en la gran pantalla, a finales del año pasado la actriz se convirtió en la presidenta más joven de la Academia Colombiana de Cine, cargo con el que espera fortalecer a esta "naciente" industria que, pese a estar "buscando su identidad", tiene "muchas oportunidades" para convertirse en un sector "de primer nivel en el mundo".

"Me siento con la responsabilidad de seguir abriendo caminos en un mundo en el que estamos reescribiendo todas las reglas", reconoce al referirse al "punto de quiebre" que han marcado "la pandemia, las redes, internet y las plataformas" sobre la forma de producir, generar y consumir contenidos.



CARLOS ORTEGA Agencia EFE

La actriz colombiana Natalia Reyes habla durante entrevista el 12 de abril de 2023, en Bogotá.

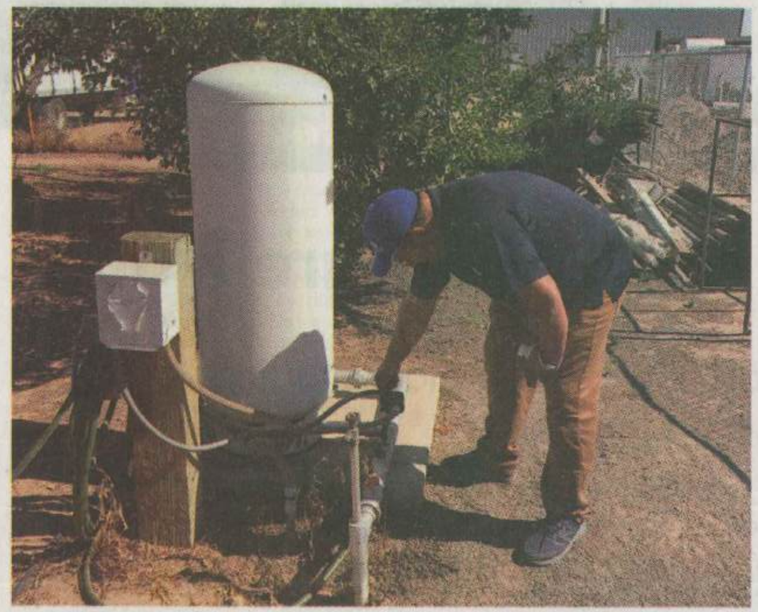
En cuanto a la situación del cine colombiano, Reyes considera que actualmente se divide fundamentalmente en dos segmentos: la comedia y el cine independiente que, aunque consigue llegar a los grandes festivales, "tiene muy mala asistencia a las salas".

En este sentido, insiste en la importancia de comenzar a explorar en el cine latinoamericano otras narrativas vinculadas a la ciencia ficción, el terror o el género.

"Siento que también podemos empezar a alejarnos de tener la responsabilidad de hablar de nuestras guerras, miserias y dolores", asegura la actriz tras matizar que estas historias que tradicionalmente han conformado la "identidad autóctona" de los títulos latinoamericanos, también son "válidas y necesarias".

IS YOUR WELL WATER SAFE TO DRINK?

TAKE OUR 2 MINUTE SURVEY TO SEE IF YOU QUALIFY FOR A FREE WELL TEST!



All well owners welcome! If we find unsafe drinking water we will provide you FREE bottled water deliveries.

Three ways to take our Survey

1) Scan the QR code

2) Call (559) 549-6747

3) Go to kingswateralliance.org/welltest

WE HAVE CONDUCTED OVER 400 FREE WELL TESTS AND PROVIDED OVER 300 HOMES WITH FREE WATER DELIVERIES!

KINGS WATER ALLIANCE

We've raised rates on these Share Certificate terms to help maximize your savings!*

12 month term:	18 month term:	24 month term:
2.50% APY	3.00% APY	3.05% APY

ValleyFirst CREDIT UNION

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*Available on 12-month, 18-month and/or 24-month premium share certificates opened after September 19, 2022 and offer may be withdrawn at any time. Minimum balance for premium share certificates is $10,000. A penalty may be imposed if any funds are withdrawn from the account prior to the maturity date. For complete terms, conditions and information on early withdrawal penalties, please refer to the "Share Certificate Accounts" section in our Truth-In-Savings Disclosure.

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APPENDIX B STATE WATER BOARD COMMUNITY ENGAGEMENT CHECKLIST

State Water Board (2020) provides a table that summarizes the guidance found in its community engagement document. **Table B-1** below demonstrates how the Kings Water Alliance Management Zone's community outreach program aligns with the guidance.

Table B-1. Alignment Between Kings Water Alliance Management Zone Community Outreach Actions and State Water Board Guidance (Table adapted from State Water Board (2020), page 17)

Community Engagement Element	Potential Actions to Implement Element	EAP Development and Implementation
Communicate Effectively	Communicate with affected communities remotely	KWA conducted virtual and hybrid community outreach meetings. Participants had the opportunity to use their digital devices or telephone to call in to the events or attend in-person. A dedicated phone line managed by KWA was established in October 2020 and promoted. A direct mail piece was sent to all potentially impacted residents in the KWA to raise awareness and promote the first webinar. Digital communications were employed including the development of a website, YouTube account, email updates to the KWA distribution lists. Flyers were left at key locations across the KWA to promote webinars and raise awareness. A comprehensive report of communications is included in Appendix A, Communications & Outreach Plan.

Table B-1. Alignment Between Kings Water Alliance Management Zone Community Outreach Actions and State Water Board Guidance (Table adapted from State Water Board (2020), page 17)		
Community Engagement Element	Potential Actions to Implement Element	EAP Development and Implementation
	Translate materials into Spanish and other language(s) identified	All flyers and direct mail were distributed in English and Spanish. Webinars included live Spanish translation; recordings were posted on YouTube and the KWA website with Spanish subtitles. All live polling conducted during the webinars included both English and Spanish translated text. Webinar registration and sign-up information was provided in both English and Spanish. The new website www.kingswateralliance.org includes a translation feature at the bottom right of the page that can translate content into Spanish, Hmong, and Punjabi. A drinking water survey was conducted via SurveyMonkey and made available in English and Spanish.
	Provide a point of contact who speaks residents' primary language	A designated KWA staff member speaks Spanish, and attended all outreach events and is available to answer the dedicated KWA phone line should Spanish interpretation be needed.
	Ensure planned one-on-one communications have personnel fluent in the primary language	A designated KWA staff member speaks Spanish, and attended all outreach events and is available to answer the KWA phone line should Spanish interpretation be needed.
	Offer live interpretation at community meetings	A designated KWA staff member speaks Spanish, and attended all outreach events and is available to answer the dedicated KWA phone line should Spanish interpretation be needed.
	Provide written materials in plain language	All materials intentionally included simple language to ensure understanding across all audiences. Technical language was avoided whenever possible. Flyers, the direct mail piece, and the drinking water survey were reviewed by NGOs familiar with Spanish interpretation and the

Table B-1. Alignment Between Kings Water Alliance Management Zone Community Outreach Actions and State Water Board Guidance (Table adapted from State Water Board (2020), page 17)		
Community Engagement Element	Potential Actions to Implement Element	EAP Development and Implementation
		needs of community residents. Adjustments were made as needed based on the recommendations of the NGOs.
Communicate Effectively (ctd)	Speak in plain language	Outreach events provided an opportunity to learn the key components of the Early Action Plan and why it is relevant to residents. The information verbally communicated was simplified while still providing enough to explain the purpose of the EAP. Ample time for Question and Answer was left at webinars to ensure understanding from the audience. Polling was also conducted as a means to gauge the audience and distill the key points of the material presented. Virtual office hours were offered as another opportunity to provide answers or clarification if the material was not understood.
	Consult community groups if your materials are understandable to the community	Flyers, the direct mail piece, and the drinking water survey were reviewed by NGOs familiar with Spanish interpretation and the needs of community residents. Adjustments were made as needed based on the recommendations of the NGOs.
	Ask participants if materials are understandable	Ample time for Question and Answer was left at webinars to ensure understanding from the audience. Polling was also conducted to gauge the audience and distill the key points of the material presented. Virtual office hours were offered as another opportunity to provide answers or clarification if the material was not understood.
	Present information without bias	Information was comprehensively provided at the webinars hosted by the KWA. All considered drinking water solutions and their associated requirements were presented to the attendees. All

Table B-1. Alignment Between Kings Water Alliance Management Zone Community Outreach Actions and State Water Board Guidance (Table adapted from State Water Board (2020), page 17)		
Community Engagement Element	Potential Actions to Implement Element	EAP Development and Implementation
		potential solutions were also included in the drinking water survey conducted with impacted residents.
	Know and communicate your constraints	Information was comprehensively provided at the webinars hosted by the KWA. All considered solutions and their associated requirements were presented to the attendees.
	Be transparent with decision-making processes	Residents and stakeholders have been routinely engaged on development of the EAP. Engagement has occurred via website updates, outreach events, and periodic email updates and reminders on deadlines and processes to EAP development and submittal.
Protect Personal Information	Mitigate concerns about information collection	Personal information was never required to be collected. Poll responses were not published tied to the respondent. Attendees were notified that their responses would be kept private. Webinar registration was encouraged but not required to attend, and the registration form for those who chose to register was kept short and simple. The drinking water survey collected some information to assess where attendees were from, including zip code, but it was clearly indicated as an optional question.
	Minimize collection of personal information	Personal information was never required to be collected. Poll responses were not published tied to the respondent. Attendees were notified that their responses would be kept private. Webinar registration was encouraged but not required to attend, and the registration form for those who chose to register was kept short and simple. The drinking water survey collected some information to assess where attendees were from, including zip code, but it was clearly indicated as an optional question.

Table B-1. Alignment Between Kings Water Alliance Management Zone Community Outreach Actions and State Water Board Guidance (Table adapted from State Water Board (2020), page 17)		
Community Engagement Element	Potential Actions to Implement Element	EAP Development and Implementation
Acknowledge Diverse Interests	Be inclusive of all groups within a community	Outreach was conducted to all potentially impacted residents via a direct mail piece. A direct invitation to community leaders across the KWA was sent via email. A direct invitation to engage was sent to a Tachi Yokut Tribe representative. A stakeholder committee representing diverse interests will be established to help guide EAP implementation. For a full list of stakeholder groups, reference Table 6 in Appendix A.
	Provide "balanced access" to groups you are engaging with	A stakeholder committee representing diverse interests will be established to help guide EAP implementation. For a full list of stakeholder groups, reference Table 6 in Appendix A.
Evaluate and Revise	Evaluate your community engagement strategy	Evaluation methodologies are included in Appendix A. It is the full intent of the KWA to continually evaluate and track outreach efforts and adjust if/when needed.
	Make modifications	The addition of virtual office hours was incorporated into outreach efforts for EAP development to offer additional dedicated opportunities to engage. Modifications to outreach also included intentional branding strategy to deliberately migrate from the Kings River Water Quality Coalition to the KWA; this included the development of a logo, color scheme, website, and email template for interested person communications.

Table B-1. Alignment Between Kings Water Alliance Management Zone Community Outreach Actions and State Water Board Guidance (Table adapted from State Water Board (2020), page 17)		
Community Engagement Element	Potential Actions to Implement Element	EAP Development and Implementation
Learning About the Community	Develop a Community Profile	Community Profile documentation is provided in Appendix C.
	Develop a Contact List	The Kings Water Alliance maintains an interested persons contact list. Anyone can sign up to receive email updates. The KWA also maintains a list of community leaders, and NGOs who are familiar with community needs.
Educating the Community	Develop educational materials	The following materials were developed: • Flyers • Webinar presentation slides • Webinar recording • Digital Story Map • Virtual Nitrate Control Program timeline webpage
	Establish contact(s)	The KWA maintains an interested persons contact list. Anyone can sign up to receive email updates. The KWA also maintains a list of community leaders, and NGOs who are familiar with community needs.
	Establish locations where information is publicly accessible	The KWA did extensive outreach at key locations in communities across the service area. For a list of locations, refer to Table 8 in Appendix A.
	Distribute materials using multiple communication platforms	Appendix A identifies an integrated communications strategy as key to effective outreach. Outreach was conducted via diverse channels including digital, print, and radio. For a comprehensive identification of distribution methods, see Appendix A.

Table B-1. Alignment Between Kings Water Alliance Management Zone Community Outreach Actions and State Water Board Guidance (Table adapted from State Water Board (2020), page 17)		
Community Engagement Element	Potential Actions to Implement Element	EAP Development and Implementation
Educating the Community	Hold community meetings to educate the community	The KWA conducted and continues to conduct multiple virtual and hybrid community meetings to encourage public participation and feedback on the EAP development as well as provide opportunity to educate the community on nitrate issues.
Collaborating with the Community	Create a process for collaborative decision-making	The KWA made a concerted effort to solicit feedback and hear from impacted residents. Efforts include conducting polls during webinars the KWA hosted, as well as conducting a drinking water survey. The results were shared with the technical consultants and staff to better understand the needs of impacted residents.
Maintaining Involvement	Provide updates	The KWA maintains an email interested persons list for timely updates on EAP development. Those on the list were clearly notified of EAP development milestones including public meetings to educate and receive input, EAP draft availability for public review and comment, and reminders to submit comments and ask questions. These milestones were also posted on the KWA website and clearly identified at public outreach meetings.
	Maintain contact and process for responding to community inquiries	The KWA has a dedicated phone line established to answer any questions or field comments from the public. An email has also been set up for similar purpose at info@kingswateralliance.org. The email forwards to the KWA staff who coordinate to ensure the best response possible. A highly visible “Contact Us” button is included on the website header menu and visible from all webpages. The button leads to a

Table B-1. Alignment Between Kings Water Alliance Management Zone Community Outreach Actions and State Water Board Guidance (Table adapted from State Water Board (2020), page 17)		
Community Engagement Element	Potential Actions to Implement Element	EAP Development and Implementation
		contact form and uses encouraging language: "This site is designed to provide permitted dischargers, residents, and other interested stakeholders with a space to engage, giving you the opportunity to submit comments or questions, 24-hours a day, 7-days a week". The page also lists the phone number and email address. Form submissions forward to KWA staff members.

APPENDIX C COMMUNITY PROFILE DATA

Data has been gathered for the disadvantaged and rural communities in the Tulare Lake Subbasin Area for the purpose of EAP development. In accordance with the State Water Board's Guidance for Engaging Communities During Development of Early Action Plans, a community profile table has been compiled to better understand communities within the area. The table below provides Disadvantaged and Rural Community demographic data to help understand how best to engage with these impacted communities and encourage participation during EAP development. It is important to understand and account for community diversity to ensure drinking water solutions are appropriately developed with residential input and affected communities are informed on how the Nitrate Control Program will impact them. Notably, this table identifies languages other than English in the region including Spanish, Asian and Pacific islander languages, and Other Indo-European languages to bridge potential translation gaps to help ensure success of the EAP.

Community Demographics for Disadvantaged and Rural Communities in the Tulare Lake Subbasin Area[1]												
Disadvantaged[2] and Rural Communities	Population	Median Household Income (MHI)	Language(s)[3]	Race/Ethnicity								
				American Indian and Alaska Native	Asian	Black or African American	Hispanic or Latino	Native Hawaiian and Other Pacific Islander	Not Hispanic or Latino	Some Other Race	2 or More Races	White
Armona CDP	4,274	$55,197	English, Spanish, Asian and Pacific Islander languages	0.95%	1.13%	1.61%	39%	0.01%	9.38%	21%	11%	16%
Corcoran City	22,339	$53,103	English, Spanish	1.02%	0.48%	7.10%	38%	0.10%	7.73%	25%	5.92%	14%
Grangeville CDP	508	$89,044	English, Spanish	0.63%	2.82%	0.73%	18%	0.10%	29%	8.37%	7.22%	33%
Hardwick CDP	151	-	English, Spanish	0%	0%	1.69%	40%	0%	8.81%	23%	12%	14%
Home Garden CDP	1,653	$42,258	English, Spanish	0.89%	1.41%	5.59%	40%	0.10%	5.85%	23%	9.54%	14%
Kettleman City CDP	1,242	$46,261	Spanish	0.69%	0.08%	0.08%	49%	0%	1.05%	33%	7.60%	8.65%
Stratford CDP	1,121	-	English, Spanish, Other Indo-European languages	1.27%	0.27%	0.27%	44%	0%	5.51%	25%	10%	14%

[1]Table developing using the US Census (https://data.census.gov/profile/United_States?g=010XX00US) 2020 Decennial Census and 2022-2023 American Community Survey (ACS) data.

[2]Disadvantaged Communities (DACs) were identified by using the Department of Water Resource's DAC Mapping Tool Census Places (ASC: 2016 – 2020): (https://gis.water.ca.gov/app/dacs/), where DACs are determined by California's MHI and utilizing the state DAC threshold of 80-percent. The DACs identified contain bolded text.

[3]Languages spoken > 5-percent as listed in the 2022 ACS data. Use of this threshold is recommended in Guidance for Engaging Communities During Development of Early Action Plans (State Water Board, June 2020).

[4]"-" "indicates data was not available.

The Table below (Tulare Lake Subbasin Area Disadvantaged and Rural Communities Point of Contacts for Nitrate Control Program) identifies key community members from each identified disadvantaged and rural community identified in the Tulare Lake Subbasin Area. It is important to identify these contacts to support community outreach efforts for increased participation and input on long-term drinking water solutions. This is a living document and will be updated during EAP implementation. Data gaps are identified, and efforts will be made to reach out to these communities to identify a point of contact.

Tulare Lake Subbasin Area Disadvantaged and Rural Communities Point of Contacts for Nitrate Control Program			
Disadvantaged[1] and Rural Communities	Point of Contact	Phone Number	Email Address
Armona CDP	TBD	TBD	TBD
Corcoran City	Greg Gatzka	(559) 992-2151	greg.gatzka@cityofcorcoran.com
Grangeville CDP	TBD	TBD	TBD
Hardwick CDP	TBD	TBD	TBD
Home Garden CDP	TBD	TBD	TBD
Kettleman City CDP	TBD	TBD	TBD
Stratford CDP	TBD	TBD	TBD

[1]The DACs identified contain bolded text.
TBD = To Be Determined.

APPENDIX D DOMESTIC DRINKING WELL TESTING AGREEMENT FORM (2024)

KINGS WATER ALLIANCE DOMESTIC DRINKING WELL TESTING

About Kings Water Alliance

Kings Water Alliance (KWA) is a California nonprofit corporation formed to: (i) study and address groundwater nitrate levels within its boundaries; and (ii) provide safe drinking water for residents impacted by nitrate contamination in groundwater within its Priority Area 1.

California's Central Valley has nitrate levels in groundwater that are above the public health standard limit of 10 milligrams per liter (mg/L) for Nitrate + Nitrite as Nitrogen. Drinking water with high levels of nitrate can pose health risks to children under six years old, pregnant women, and those individuals that are immunocompromised. In fact, preliminary research has identified potential links between nitrate consumption and various types of health concerns. Accordingly, nitrates found in groundwater resources are a concern for all Central Valley residents.

To address this issue, KWA offers free domestic drinking water well testing for Nitrate + Nitrite as Nitrogen (mg/L) to groundwater well owners within its Priority Area 1 as part of the Central Valley Salinity Alternative for Long Term Sustainability (CV-SALTS) initiative.

Domestic Drinking Water Well Sampling Eligibility

You are eligible for KWA's free domestic drinking water well testing for Nitrate + Nitrite as Nitrogen (mg/L) if your residential property is located within KWA's Priority Area 1 (an interactive map is available for verification at http://kingswateralliance.org/welltest/). If you are eligible, KWA invites you to complete the Kings Water Alliance Well Sampling Agreement attached to this document. This agreement is necessary for KWA to access your residential property and test your domestic drinking water well for Nitrate + Nitrite as Nitrogen (mg/L). If you have any questions or concerns regarding this agreement, please do not hesitate to contact KWA at 559-549-6747 or info@kingswateralliance.org.

KINGS WATER ALLIANCE WELL SAMPLING AGREEMENT

This Well Sampling Agreement (Agreement) is made and entered into by the Kings Water Alliance (KWA), and _____ (Landowner, you, or your), the Landowner(s) of that certain real property located in _____ County, California, located at the following address: _____ (Property), with the following number of drinking water wells present _____.

I. Permission to Access Drinking Water Well(s) and Collect Water Sample for Testing

You grant KWA and its employees, agents, consultants, and contractors a cost-free non-exclusive license to enter onto your Property at a mutually agreed upon date and time to obtain water quality samples for analytical testing for Nitrate + Nitrite as Nitrogen (mg/L) from your domestic drinking water well(s).

Before entering onto your Property to exercise the rights granted under this Agreement, KWA will coordinate with you to schedule a date and time at which such access is acceptable to you. KWA will not access your Property to exercise the rights granted under this Agreement without your prior written consent. Further, if you have any pets that would otherwise interfere with or prohibit access to your Property, you will ensure that such pets are restrained on the day of access. *If such pets are not rained on the day of access, KWA cannot guarantee that sampling will occur.* You will not unreasonably withhold access to your Property from KWA.

You and KWA agree that this Agreement will remain in effect until either of the following occur:

(a) Termination by a Party. You and KWA agree that this Agreement may be terminated at any time, with or without cause, by either party upon 60 days written notice to the other party.

(b) Change in Ownership. You and KWA agree that this Agreement will terminate upon any change in ownership of your Property. Following that termination, KWA acknowledges that KWA must enter into a new agreement with the new owner(s) of the Property.

II. Permission to Access Upload Water Sampling Results to GeoTracker

GeoTracker is the State Water Resources Control Board's (State Board) data management system that provides online access to environmental data, including water quality data, such as information regarding nitrates in groundwater. The GeoTracker public portal retrieves records to view integrated data sets from multiple State Board programs and other agencies through an easy-

to-use Google maps GIS interface. This interface allows public users to view data in relationship to streets, roads, satellite imagery, and terrain map views.

As part of the Nitrate Control Program, the State Board requires (a) water quality testing results for Nitrate + Nitrite as Nitrogen (mg/L) and (b) the coordinates (longitude and latitude) of your groundwater well(s) from which the water quality sample was taken to be uploaded to GeoTracker. Accordingly, you authorize KWA to submit any water quality sample testing results and the coordinates (longitude and latitude) of your groundwater well(s) from which a water quality sample is taken to the State Board's data management system, Geotracker.

III. Access to Testing Results

Any water quality samples collected by KWA are solely for analytical testing of Nitrate + Nitrite as Nitrogen. As testing results become available, KWA will provide these results to you. Importantly, however, KWA does not represent that any water quality testing results provided to you by KWA are a final determination as to the quality or safety of your groundwater resources. Therefore, if you receive water quality testing results that do not indicate the presence of nitrates or nitrates below the public health standard limit of 10 milligrams per liter (mg/L), it does not mean that your well water is safe to drink. There are many other types of contamination that could make your drinking water unsafe to consume.

If the water quality testing results provided to you by KWA do not show traces of nitrates or nitrates below the public health standard limit of 10 milligrams per liter (mg/L), KWA still encourages you to have your water tested. Additional water testing resources include:

ENTITY	PHONE NUMBER	EMAIL
Self Help Enterprises Regional Household Well Assistance Program	559-802-1285	
Fresno County Environmental Health	559-600-3357	environmentalhealth@fresnocountyca.gov
County of Tulare Environmental Health Division	559-624-7400	
County of Kings Environmental Health Services	559-584-1411	

Further, a list of Certified Environmental Laboratory Accreditation Program (ELAP) laboratories for testing Nitrate + Nitrite as Nitrogen (mg/L) can be found here: https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/drinking_water/dw_elap_labs_list.pdf.

IV. Initial and Signature

By signing this Agreement, you acknowledge the following:

Initial	
	I am eligible for KWA's free domestic drinking water well testing for Nitrate + Nitrite as Nitrogen (mg/L).
	My domestic drinking water well is used to provide water for drinking and cooking for my residence.
	I am the Landowner of the Property described above.
	I grant KWA and its employees, agents, consultants, and contractors a cost-free non-exclusive license to enter onto my Property, pursuant to the procedures set forth herein, to obtain water quality samples for analytical testing for Nitrate + Nitrite as Nitrogen (mg/L) from my domestic drinking water well(s) identified in Section I, above, subject to the terms of this Agreement.
	I understand and acknowledge that any water quality sample testing results provided to me by KWA only reflects data specific to Nitrate + Nitrite as Nitrogen. Further, I understand that these results are not a final determination as to the quality or safety of my groundwater resources.
	I understand that (a) water quality testing results for Nitrate + Nitrite as Nitrogen (mg/L) and (b) the coordinates (longitude and latitude) of my groundwater well(s) from which the water quality sample was taken will be uploaded to GeoTracker.

Landowner

By: _____

Name: _____

Date: _____

KWA

By: _____

Name: _____

Date: _____

Tenant (If Applicable)

By: _____

Name: _____

Date: _____

APPENDIX E ADDENDUM PUBLIC WATER SYSTEM AND SUPPLY WELL NITRATE TABLES FOR PRIORITY 2 TULARE LAKE SUBBASIN PORTION OF KWAMZ

Table E-1. Summary of Nitrate-Impacted Public Supply Wells (by Well Status) for the KWA Priority 2 Tulare Lake Management Zone

Table E-2. Summary of Public Water Systems that have had Nitrate-Impacted Wells in the KWA Priority 2 Tulare Lake Management Zone

Table E-3. Treatment of Water Systems with Nitrate-Impacted Wells in the KWA Priority 2 Tulare Lake Management Zone

Table E-4. Compliance Status for Public Water Systems in the KWA Priority 2 Tulare Lake Management Zone

Table E-1. Summary of Nitrate-Impacted Public Supply Wells (by Well Status) for the KWA Priority 2 Tulare Lake Management Zone

Well ID	Other Well Name	Date Range	Number (N)	Min.	Max.	Most Recent Exceedance Date	Well Status [1]	DDW Water System Name	PWS Type	No. of Connections	Population Served
1610004_001	WELL 01A - BEFORE NO3 BLND & AS TRT	10/25/1985 - 7/15/2024	270	0.38	35.00	11/8/2023	AR	CORCORAN, CITY OF	COMMUNITY	3560	21835
1610004_002	WELL 02A - BEFORE AS TRT	10/25/1985 - 6/06/2024	199	ND	28.00	4/8/2024	AR	CORCORAN, CITY OF	COMMUNITY	3560	21835
1610004_003	WELL 03A - BEFORE AS TRT	10/25/1985 - 7/08/2024	189	0.90	15.00	6/10/2024	AR	CORCORAN, CITY OF	COMMUNITY	3560	21835
1610004_015	WELL 06A - BEFORE AS TRT	12/18/1998 - 7/08/2024	124	ND	33.00	3/30/2022	AR	CORCORAN, CITY OF	COMMUNITY	3560	21835

1[1] Well Status can be defined as follows: AB = Abandoned; AR = Active Raw; AU = Active Untreated; DS = Destroyed; IR = Inactive Raw; IU = Inactive Untreated; PN = Pending

Table E-2. Summary of Public Water Systems that have had Nitrate-Impacted Wells in the KWA Priority 2 Tulare Lake Management Zone

DDW No.	System Name	PWS Type	No. of Connections	Number of Wells in Public Water Supply Systems by Well Status									Population Served	Est. Potentially Affected Population with Active Wells > MCL
				Active Wells	Agricultural/ Irrigation Wells	Abandoned Wells	Destroyed Wells	Inactive Wells	Pending Status Wells	Standby Wells	Total No. of Wells That Have Exceeded MCL	No. of Currently Active Wells That Have Exceeded MCL		
CA1610004	CORCORAN, CITY OF	COMMUNITY	3560	8	0	2	7	0	1	1	4	4	21835	21835

Table E-3. Treatment of Water Systems with Nitrate-Impacted Wells in the KWA Priority 2 Tulare Lake Management Zone

DDW No.	System Name	PWS Type	No. of Connections	Population Served	Has a Treated Water Source Filed with DDW? (Y/N)	Treatment Pertaining to Nitrate Mentioned in Source Name (Y/N)	Has Nitrate Samples from Treated Sources Filed with DDW? (Y/N)	Has Treated Source(s) with Nitrate Exceeding MCL (>10 mg/L as N) (Y/N)	Most Recent Exceedance for a Treated Source
CA1610004	CORCORAN, CITY OF	COMMUNITY	3560	21835	Y	Y	Y	N	N

Table E-4. Compliance Status for Public Water Systems in the KWA Priority 2 Tulare Lake Management Zone

PWS ID	PWS Name	County	Regulating Agency	Federal Classification	State Classification	Service Area Classification	SAFER Status	MHI Status	Number of Connections (source: HR2W or SDWIS DWW)	Population Served (source: HR2W or SDWIS DWW)	Compliance Status [1]	Compliance Status Source	Violation Category (SDWIS DWW)	Violation Chemical(s) (SDWIS DWW)	Date of Violation (SDWIS DWW Determination Date)	MCL Exceedance			Non-MCL Violation	Total Population Served by Currently Out-of-Compliance System due to any Violation	Population Served by Currently Out-of-Compliance System due to Nitrate Only	Population Served by Currently Out-of-Compliance System due to Nitrate PLUS Co-Contaminant
																Nitrate	Nitrate PLUS Co-Contaminant	Other Contaminant				
CA1610007	HOME GARDEN CSD	KINGS	DISTRICT 12 - VISALIA	COMMUNITY	COMMUNITY	R (Residential)	At-Risk	SDAC	467	1750	In Compliance	SDWIS 8/20/2024								0	0	0
CA1600507	HARDWICK WATER COMPANY	KINGS	LPA46 - KINGS COUNTY	COMMUNITY	COMMUNITY	R (Residential)	Not At-Risk	DAC	40	69	In Compliance	SDWIS 8/20/2024								0	0	0
CA1610009	KETTLEMAN CITY CSD	KINGS	DISTRICT 12 - VISALIA	COMMUNITY	COMMUNITY	R (Residential)	Failing	SDAC	352	1136	Out of Compliance	SDWIS 8/20/2024	MCL	TTHM	10/1/2022			X		1136	0	0
CA1600293	15TH AVENUE	KINGS	LPA46 - KINGS COUNTY	COMMUNITY	COMMUNITY	T (Secondary Residence)	At-Risk	SDAC	3	50	In Compliance	SDWIS 8/20/2024								0	0	0
CA1610004	CORCORAN, CITY OF	KINGS	DISTRICT 12 - VISALIA	COMMUNITY	COMMUNITY	R (Residential)	At-Risk	SDAC	3560	21835	In Compliance	SDWIS 8/20/2024								0	0	0
CA1610006	STRATFORD PUD	KINGS	DISTRICT 12 - VISALIA	COMMUNITY	COMMUNITY	R (Residential)	Potentially At-Risk	SDAC	364	1277	Out of Compliance	SDWIS 8/20/2024	MON, MON, MON	Nitrate, TTHM, HAA5	1/1/2021, 1/1/2020, 1/1/2020				X	1277	0	0
CA1610001	ARMONA COMMUNITY SERVICES DIST	KINGS	DISTRICT 12 - VISALIA	COMMUNITY	COMMUNITY	R (Residential)	At-Risk	SDAC	1366	4143	In Compliance	SDWIS 8/20/2024								0	0	0

CA1610005	LEMOORE, CITY OF	KINGS	DISTRICT 12 - VISALIA	COMMUNITY	COMMUNITY	R (Residential)	Failing	Non-DAC	7306	27185	Out of Compliance	SDWIS 8/20/2024	MCL,MCL, TT, MON	TTHM, HAA5, As, Nitrate	1/1/2011, 4/1/2017, 4/1/202, 1/1/2022			X	X	27185	0	0
CA1610003	HANFORD, CITY OF	KINGS	DISTRICT 12 - VISALIA	COMMUNITY	COMMUNITY	R (Residential)	Not At-Risk	DAC	18712	62127	Out of Compliance	SDWIS 8/20/2024	MON	Pb + Cu	10/1/2023				X	62127	0	0
CA1600002	SUNSET VISTA ESTATES MHP	KINGS	LPA46 - KINGS COUNTY	COMMUNITY	COMMUNITY	R (Mobile Park)	At-Risk	Non-DAC	109	400	In Compliance	SDWIS 8/20/2024								0	0	0
CA1010020	LATON COMMUNITY SERVICES DISTRICT	FRESNO	DISTRICT 23 - FRESNO	COMMUNITY	COMMUNITY	R (Residential)	Potentially At-Risk	DAC	473	1551	Out of Compliance	SDWIS 8/20/2024	MCL	Coliform	6/1/2019			X		1551	0	0

Attachment E

Kings Water Alliance Article of Incorporation and By-Laws

The Kings Water Alliance Articles of Incorporation and By-Laws are included as part of Attachment E in the original PMZP submittal from March 2021, which can be found at This Attachment did not require updating for the Priority 2 PMZP for Tulare Lake. Please refer to the original PMZP and FMZP documents for this Attachment that is available online: https://www.cvsalinity.org/resources/management-zone-development/.

Attachment F

Kings Water Alliance Management Zone Participation Agreement

MANAGEMENT ZONE AGREEMENT FOR PERMITTEES IN THE KINGS WATER ALLIANCE BOUNDARIES SUBJECT TO THE NITRATE CONTROL PROGRAM IN THE WATER QUALITY CONTROL PLAN FOR THE TULARE LAKE BASIN

This Agreement is entered into on _____, 20_____ (Effective Date) by and between the KINGS WATER ALLIANCE, a California nonprofit public benefit corporation (KWA) and _____ (Participant).

RECITALS

1. On May 31, 2018, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) adopted Amendments to the Water Quality Control Plans for the Sacramento River and San Joaquin River Basins and the Tulare Lake Basin to Incorporate a Central Valley-Wide Salt and Nitrate Control Program (Basin Plan Amendments). The Basin Plan Amendments were approved by the State Water Resources Control Board (State Water Board) on October 16, 2019, and the Office of Administrative Law on January 15, 2020. Parts of the Basin Plan Amendments became effective upon Office of Administrative Law approval. Other parts become effective after receiving approval from the United States Environmental Protection Agency.

2. The Basin Plan Amendments include the Program to Control and Permit Nitrate Discharges to Groundwater (Nitrate Control Program). The Nitrate Control Program became effective on or about January 15, 2020.

3. The Nitrate Control Program applies to all discharges of nitrate to groundwater basins that are designated with the municipal and domestic supply (MUN) beneficial use. Application of the Nitrate Control Program to discharges that are subject to Central Valley Water Board authority is being implemented based on priorities set forth in the Basin Plan Amendments.

4. The Nitrate Control Program identifies the following groundwater basins/sub-basins as Priority 2 basins: Yolo, Merced, Kern County (Westside South); Tulare Lake; Kern County (Poso); Delta Mendota; Eastern San Joaquin; and Madera.

5. Compliance with the Nitrate Control Program is triggered when the Central Valley Water Board issues a Notice to Comply to permittees that discharge nitrate to groundwater in the identified Priority basins. Upon receipt of the Notice to Comply, permittees need to select one of two pathways for complying with the Nitrate Control Program.

6. The Nitrate Control Program requires the Central Valley Water Board to send Notices to Comply to dischargers and irrigated agricultural lands coalition groups that are within the boundaries of the identified Priority 2 basins within two (2) to four (4) years of January 15, 2020, the effective date of the Nitrate Control Program. In anticipation of Notices to Comply being sent to dischargers in Priority 2 basins, KWA has established Management Zone boundaries that will accommodate dischargers in adjacent and related Priority 2 basins. The

Central Valley Water Board sent Notices to Comply to Priority 2 dischargers on December 29, 2023. These dischargers that are within the KWA boundaries now have the option of participating in the Management Zone or pursuing an individual permitting option.

7. The primary purpose of a Management Zone is to develop plans for addressing nitrate in groundwater and help in providing access to safe drinking water for residents impacted by nitrate contamination in groundwater.

8. KWA finds that serving as a coordinating entity for permittees within the KWA boundary area that select the Management Zone pathway, and possibly other basins in the future, is consistent with KWA's specific purposes, which is to maintain and improve the quality of life in central and southern San Joaquin Valley by implementing programs that provide access to safe drinking water for residents, and by engaging in groundwater nitrate reduction activities with the goal of protecting or enhancing the quality of groundwater drinking water supplies for residents.

TERMS OF AGREEMENT

1. Participant has (i) received a Notice to Comply with the Nitrate Control Program; or (ii) has members that have received a Notice to Comply with the Nitrate Control Program. After reviewing and considering the options available for complying with the Nitrate Control Program, Participant agrees to comply by participating in KWA's Management Zone. Participation in KWA's Management Zone includes contributing to and cooperating with KWA and other participants.

2. Each party agrees to work in good faith, along with other participants, to develop timely deliverables as required by the Nitrate Control Program and to comply with the Nitrate Control Program provisions in the Basin Plan Amendments.

3. Participant agrees that costs of the KWA Management Zone program will be shared with other participants based on an equitable cost allocation mechanism that is developed and approved by the KWA Board of Directors.

4. KWA agrees that contributions provided by Participant are for the sole purpose of developing proposals, reports and plans to comply with the Management Zone provisions within the Basin Plan, including reasonable administrative costs, consultant costs and other agreed upon costs incurred by KWA in furtherance of developing and implementing Management Zone proposals and plans.

5. The KWA and the Participant agree to seek alternative funding sources for development and implementation of all or parts of the Early Action Plan, Preliminary Management Zone Proposal, Final Management Zone Proposal, and Management Zone Implementation Plan, if determined appropriate. However, the Participant understands that the permittee participants in the Management Zone are ultimately responsible for the development and

implementation of all or parts of the Early Action Plan, Preliminary Management Zone Proposal, Final Management Zone Proposal, and Management Zone Implementation Plan.

6. The Participant understands that compliance with the terms of the Nitrate Control Program is ultimately determined by the Central Valley Water Board and not KWA or other participants to this Agreement.

7. The Participant is free to withdraw from this Agreement at any time upon giving a minimum of 30 days express written notification to the KWA. Any contributions to KWA by a withdrawing Participant prior to giving notice of withdrawal shall not be reimbursable by KWA to the withdrawing Participant. Participant shall continue to be responsible for its fair share of required contributions during the 30-day notice period unless otherwise agreed to by KWA.

8. Prior to withdrawing from this Agreement, the Participant should consult with the Central Valley Water Board regarding its options for complying with the Nitrate Control Program.

9. In the event that the Participant does not fulfill its obligations under this Agreement, the KWA is obligated to notify the Central Valley Water Board of the Participants failure to meet its obligation for continued participation in the Management Zone.

10. Participant understands that the KWA reserves the right to terminate this Agreement with a Participant after providing written notice at least sixty (60) days in advance of such termination and after providing the Participant with a reasonable period of time to cure any issues that may be the cause for such termination. Any action by the KWA to terminate the Agreement with respect to a single Participant (or group of permittees represented by one Participant) shall include a reason(s) for such termination in writing. The Participant may request that KWA provide Participant an opportunity to appear before the KWA Board of Directors to oppose such termination prior to the termination becoming effective. The KWA Board of Directors maintains the discretion to grant the request for appearance before the KWA Board of Directors prior to the termination becoming effective. The KWA Board of Directors reserves the ultimate authority to determine if a termination shall become effective.

11. KWA intends to remain the entity for administering the Management Zone. However, in the unlikely event that the KWA finds it necessary to withdraw from administering the Management Zone, KWA agrees to all the following:

    a. Provide at least six (6) months' notice in advance of such withdrawal so that participants, in cooperation with the Central Valley Water Board, have the opportunity to identify or create a new successor entity for administering the Management Zone.
    b. Provide all data, reports, and information to any successor entity identified by the participants and/or the Central Valley Water Board.

c. Transfer all remaining funds, after addressing all outstanding liabilities, to any identified successor entity, to the extent allowed by KWA's Bylaws and applicable state and federal law.
d. Agree to work cooperatively with the Central Valley Water Board, participants, and any successor entity for an orderly transfer of data, information, reports, and remaining funds, as applicable.

12. The KWA agrees to maintain an accounting system that clearly documents funds provided to the KWA for the Management Zone and funds paid out from KWA for purposes of administering and implementing the Management Zone.

13. Participation in a KWA Management Zone, and being a Party to this Agreement, shall not constitute an admission of liability or fault with respect to nitrate contamination in groundwater that may exist within the Management Zone boundaries, or beyond.

14. The Agreement is not intended for the benefit of any person or entity not a Party and shall not be enforceable by any person or entity who is not a Party.

15. KWA and Participant, along with other participants, agree to work cooperatively to develop and implement all Management Zone related documents and programs and shall not use information obtained through the development and implementation of the Management Zone to materially and legally harm KWA or other participants in the Management Zone.

16. In the event of a dispute between Participants, the parties to the dispute shall immediately inform the Chair of the KWA Board of Directors of the nature of the dispute. The parties to the dispute shall cooperate with the KWA Board of Directors in its investigation of the dispute and its efforts to informally resolve the dispute. If the parties to the dispute are unable to resolve the dispute informally, then the dispute shall be considered at a properly noticed meeting of the KWA Board of Directors. If, after this meeting, the dispute is not resolved, then the KWA Board of Directors may schedule additional meetings or employ additional dispute resolution mechanisms (i.e., establish a committee, as authorized by the Bylaws, to resolve the dispute). The KWA Board of Directors shall have the authority to form and approve or deny a resolution to the dispute. If the dispute is not resolved in a manner that is satisfactory to the Participant, that Participant may withdraw from the KWA, pursuant to paragraph 7 of this Agreement.

17. The Agreement shall be interpreted and enforced pursuant to the laws of the State of California. It is agreed that in the event of any litigation arising hereunder, the Parties hereto shall submit to the jurisdiction of any court of competent jurisdiction within the State of California, County of Fresno.

18. If any provision of the Agreement is found invalid or unenforceable, the balance of the Agreement shall remain in full force and effect.

19. The Agreement may be executed in counterparts with the same force and effect as if executed in one complete document by all Parties.

20. This Agreement may only be amended or modified by a written instrument executed by the KWA. The Participant will be given prior notice of any amendment or modification.

[Signatures on next page]

IN WITNESS WHEREOF, the parties have executed this Agreement effective on the date set forth above.

Date: _____

KINGS WATER ALLIANCE

By: _____
Signature of KWA Board Chair
(or authorized designee)

_____
Print name of KWA Board Chair
(or authorized designee)

PARTICIPANT ENTITY

Date: _____

_____

By: _____
Signature of Participant entity authorized representative

_____
Print name of Participant entity authorized representative

Attachment A

Participant Contact Information

Entity Name:	
Physical Address:	
Mailing Address:	
CV-SALTS ID:	
Board Resolution Number (if applicable)	

(Please provide a copy of the signed Board Resolution.)

Authorized Representative	
Name:	
Phone number:	
Email address:	
Technical Representative	
Name:	
Phone number:	
Email address:	
Billing Representative	
Name:	
Phone number:	
Email address:	

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Attachment G

This Attachment did not require updating for the Priority 2 PMZP for Tulare Lake. Please refer to the original PMZP and FMZP documents for this Attachment that is available online: https://www.cvsalinity.org/resources/management-zone-development/

Attachment H

This Attachment did not require updating for the Priority 2 PMZP for Tulare Lake. Please refer to the original PMZP and FMZP documents for this Attachment that is available online: https://www.cvsalinity.org/resources/management-zone-development/

Attachment I

This Attachment did not require updating for the Priority 2 PMZP for Tulare Lake. Please refer to the original PMZP and FMZP documents for this Attachment that is available online: https://www.cvsalinity.org/resources/management-zone-development/

Attachment J

Email communications between KWA Management Zone and the CVWB regarding the approach for addressing the requirements for the Priority 2 Tulare Lake Subbasin PMZP Addendum.

From: Llaban, Angela S.@Waterboards
To: Barbara Dalgish; Khang, True@Waterboards; Laputz, Adam@Waterboards
Cc: Debra Dunn; Vicki Kretsinger; Meyerhoff, Richard; Takeda, Jackie
Subject: RE: Kings Water Alliance Priority 2 approach for FMZP Addendum
Date: Thursday, April 25, 2024 5:52:38 PM

Hi Barb,

Thank you for providing the section numbers below. After further review of the addendum list, we have some suggestions for additional sections that should be updated:

- Inactive Drinking Water Supply Wells (FMZP Section 3.2.6) – Update number of supply wells not being used for drinking water (# abandoned, # destroyed, # inactive)
- Section 3.3 – Update as necessary e.g., Table 3-11 (PMZP); Table 3-12 (FMZP); Figure 3-15 (PMZP & FMZP)
- Identification of Public Water Supplies and Domestic Wells Potentially Exceeding Nitrate Water Quality Objectives, Sections 4.1.1.1 - 4.1.1.3 (PMZP & FMZP) – Update for the Tulare Lake subbasin
- Attachment B – Update tables for Tulare Lake subbasin (PMZP & FMZP)
- EAP Appendices A & B – Update as necessary to reflect current community engagement and outreach for Tulare Lake subbasin
- EAP Appendix E – Update table for Tulare Lake subbasin

Please let True and I know if you have any questions.

Thank you,
Angela

From: Barbara Dalgish <bdalgish@lsce.com>
Sent: Thursday, March 7, 2024 10:42 AM
To: Llaban, Angela S.@Waterboards <Angela.Llaban@Waterboards.ca.gov>; Khang, True@Waterboards <True.Khang@waterboards.ca.gov>; Laputz, Adam@Waterboards <Adam.Laputz@waterboards.ca.gov>
Cc: Debra Dunn <ddunn@krcd.org>; Vicki Kretsinger <vkretsinger@lsce.com>; Meyerhoff, Richard <rmeyerhoff@geiconsultants.com>; Takeda, Jackie <jtakeda@geiconsultants.com>
Subject: RE: Kings Water Alliance Priority 2 approach for FMZP Addendum

EXTERNAL:

Hi Angela,
Thanks for your response. Sure thing. The list of items is edited below to include the PMZP/FMZP/EAP section numbers from the previous KWA submittals that would be updated.

The addendums would also contain a cross-reference table to indicate which sections of the existing documents these new components are for.

1. Addendum to the KWA FMZP
    a. This addendum would provide an update to the following sections/components and be a companion document to accompany the original FMZP:
        i. Timeline for Priority 2 (update dates for Phase 2 and P2 areas) (PMZP Section 1.3) (FMZP Section 1.3.1)
        ii. List of P2 discharger/participants (PMZP Section 1.5) (FMZP Section 1.5)
        iii. Assessment of public water systems (including impacts due to nitrate and compliance status) in P2 areas (PMZP Section 3.1.5) (FMZP Section 1.3.1 and 4.1.1.2)
        iv. DACs/SDACs in P2 areas using most recent available coverage (PMZP Section 3.1.6) (FMZP Section 3.1.6)
        v. Land Use (using most recent available coverage) (PMZP Section 3.1.7) (FMZP Section 3.1.7)
        vi. Discussion of De-designated Areas in P2 areas (PMZP Section 3.2) (FMZP Section 3.3)
            1. Dischargers and existing wells in de-designated areas within P2 are not subject to the Nitrate Control Program
            2. Determination of any domestic wells below de-designated groundwater depth for EAP work
        vii. Groundwater elevations and flow in P2 areas (including areas of potential contribution using the most recent groundwater elevation contours) (PMZP Section 3.2.2) (FMZP Section 3.2.2)
        viii. Groundwater nitrate characterization of P2 areas (including ambient and trends analyses using most recent available data and methodology) (PMZP Section 3.2.4) (FMZP Section 3.2.4 and 3.2.5)
        ix. Current nitrate treatment, control, and management practices from P2 permitted dischargers (PMZP Section 3.4) (FMZP Section 3.4)
        x. Outreach (PMZP Section 4.2) (FMZP Section 4.2 and FMZP Attachment C)
        xi. Coordination with Tulare Lake Subbasin GSAs with respect to their Groundwater Sustainability Plan (PMZP Section 4.2) (FMZP Section 4.2)
2. Addendum to the KWA EAP
    a. This addendum would provide an update to the following sections/components and be a companion document to accompany the original FMZP
        i. Outreach for P2 areas (EAP Sections 1.2 and Section 4)
        ii. Early Action Plan implementation for P2 areas (EAP Section 1.3)
        iii. Identification of nitrate-impacted areas in P2 areas (domestic well and population counts in elevated nitrate level areas; public water systems/wells, with discussion of De-designated areas not subject to NCP; identification of

drinking water wells within de-designated area and depth) (EAP Section 2)

iv. Schedule/milestones (update dates for Phase 2 and P2 areas) (EAP Section 6.1.2)

v. Well testing and bottled water agreement (EAP Appendix D)

Please let me know if you have any other questions,
Barb

From: Llaban, Angela S.@Waterboards <Angela.Llaban@Waterboards.ca.gov>
Sent: Wednesday, March 6, 2024 9:10 AM
To: Barbara Dalgish <bdalgish@lsce.com>; Khang, True@Waterboards <True.Khang@waterboards.ca.gov>; Laputz, Adam@Waterboards <Adam.Laputz@waterboards.ca.gov>
Cc: Debra Dunn <ddunn@krcd.org>; Vicki Kretsinger <vkretsinger@lsce.com>; Meyerhoff, Richard <rmeyerhoff@geiconsultants.com>; Takeda, Jackie <jtakeda@geiconsultants.com>
Subject: RE: Kings Water Alliance Priority 2 approach for FMZP Addendum

Hi Everyone,

We appreciate hearing from you further on your proposed approach to provide an addendum that will supplement the existing and approved Kings Water Alliance PMZP, FMZP and EAPs.

The concept of stand-alone addendum documents is a good approach that would satisfy the requirements of the Nitrate Control Program for the Priority 2 area within the KWA Management Zone. The provided list is helpful in understanding the elements that need updating, but, if possible, could you reference the specific sections in the PMZP, FMZP, and EAPs that would be updated through the addendum? This would help the Regional Board determine that all required elements for the Nitrate Control Program are covered.

We look forward to our continued coordination on the Priority 2 deliverables.

Kind Regards,

Angela

Angela (Llaban) Cleaver

Senior Environmental Scientist, Supervisor
Salinity and Basin Planning Unit
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, Suite #200, Rancho Cordova, CA 95670
916-464-4649 | Angela.Llaban@waterboards.ca.gov

From: Barbara Dalgish <bdalgish@lsce.com>
Sent: Tuesday, February 27, 2024 2:16 PM
To: Llaban, Angela S.@Waterboards <Angela.Llaban@Waterboards.ca.gov>; Khang, True@Waterboards <True.Khang@waterboards.ca.gov>; Laputz, Adam@Waterboards <Adam.Laputz@waterboards.ca.gov>
Cc: Debra Dunn <ddunn@krcd.org>; Vicki Kretsinger <vkretsinger@lsce.com>; Meyerhoff, Richard <rmeyerhoff@geiconsultants.com>; Takeda, Jackie <jtakeda@geiconsultants.com>
Subject: Kings Water Alliance Priority 2 approach for FMZP Addendum

EXTERNAL:

Hello,
Thank you for meeting with us on January 22 to discuss the path forward for the Priority 2 areas within the Kings Water Alliance Management Zone. As we presented, KWA has already done a significant amount of work for the PMZP, FMZP, and EAP that already covers the Priority 2 areas. All of those submittals were approved by the Regional Board, satisfying the requirements to comply with the Nitrate Control Program using a phased approach for implementation of the EAP in Priority 2 areas. As we discussed during our meeting on January 22nd, KWA recognizes that there are some aspects of the approved KWA FMZP and EAP that need to be updated for the Priority 2 areas. We therefore propose to provide and update the following informational components/analyses as stand-alone addendum documents that supplement and accompany the existing approved and publicly-posted KWA PMZP, FMZP, and EAPs:

1. Addendum to the KWA FMZP
    a. This addendum would provide an update to the following sections/components and be a companion document to accompany the original FMZP:
        i. Timeline for Priority 2 (update dates for Phase 2 and P2 areas)
        ii. List of P2 discharger/participants
        iii. Assessment of public water systems (including impacts due to nitrate and compliance status) in P2 areas
        iv. DACs/SDACs in P2 areas using most recent available coverage
        v. Land Use (using most recent available coverage)
        vi. Discussion of De-designated Areas in P2 areas
            1. Dischargers and existing wells in de-designated areas within P2 are not subject to the Nitrate Control Program
            2. Determination of any domestic wells below de-designated groundwater

depth for EAP work

vii. Groundwater elevations and flow in P2 areas (including areas of potential contribution using the most recent groundwater elevation contours)
viii. Groundwater nitrate characterization of P2 areas (including ambient and trends analyses using most recent available data and methodology)
ix. Current nitrate treatment, control, and management practices from P2 permitted dischargers
x. Outreach
xi. Coordination with Tulare Lake Subbasin GSAs with respect to their Groundwater Sustainability Plan

2. Addendum to the KWA EAP
   a. This addendum would provide an update to the following sections/components and be a companion document to accompany the original FMZP
      i. Outreach for P2 areas
      ii. Early Action Plan implementation for P2 areas
      iii. Identification of nitrate-impacted areas in P2 areas (domestic well and population counts in elevated nitrate level areas; public water systems/wells, with discussion of De-designated areas not subject to NCP; identification of drinking water wells within de-designated area and depth)
      iv. Schedule/milestones (update dates for Phase 2 and P2 areas)
      v. Well testing and bottled water agreement

Please provide the Kings Water Alliance written confirmation that this approach satisfies the requirements for the Nitrate Control Program for the Priority 2 area within the Kings Water Alliance Management Zone.
Thanks very much, and please let us know if you have any questions or suggestions for changes to the above approach.
Sincerely,
Barb

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