THE ROLE OF PUBLIC HEALTH AND STAKEHOLDER ENGAGEMENT IN IMPLEMENTING THE SUSTAINABLE GROUNDWATER MANAGEMENT ACT

Jennifer Clary

Clean Water Action/Clean Water Fund

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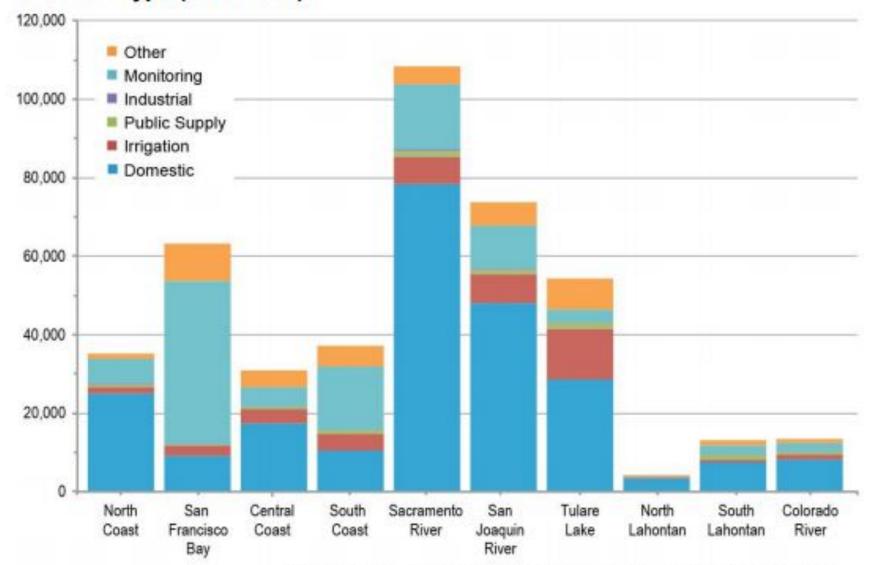
GROUNDWATER SUSTAINABILITY AGENCY

- "Groundwater sustainability agency" means one or more **local agencies** that implement the provisions of this part...
- "Local agency" means a local public agency that has water supply, water management, or land use responsibilities within a groundwater basin.

CALIFORNIANS NOT SERVED BY A PUBLIC WATER SYSTEM

- Less 5-14 connections state small systems
- > 1-4 connections private wells
- ►USGS Estimate 2.5 million people not connected to a public water sytem

Figure 2-4 Statewide Number of Well Logs by Hydrologic Region and Well Type (1977-2010)



Prepared by California Department of Water Resources for California's Groundwater Update 2013

MANAGING NITRATES

- Drinking Water Standard 45mg/l (10mg/l as N)
- Action level @ 50% of standard triggers additional reporting, monitoring
- Public water systems will treat, blend or replace source at 80-85% of standard (36-38mg/l)
- Agriculture nitrogen is a basic crop need

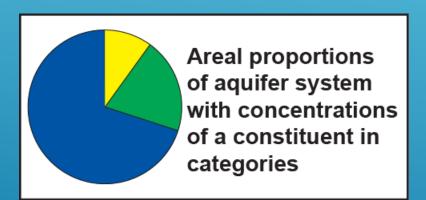
Concentration category

high: greater than MCL

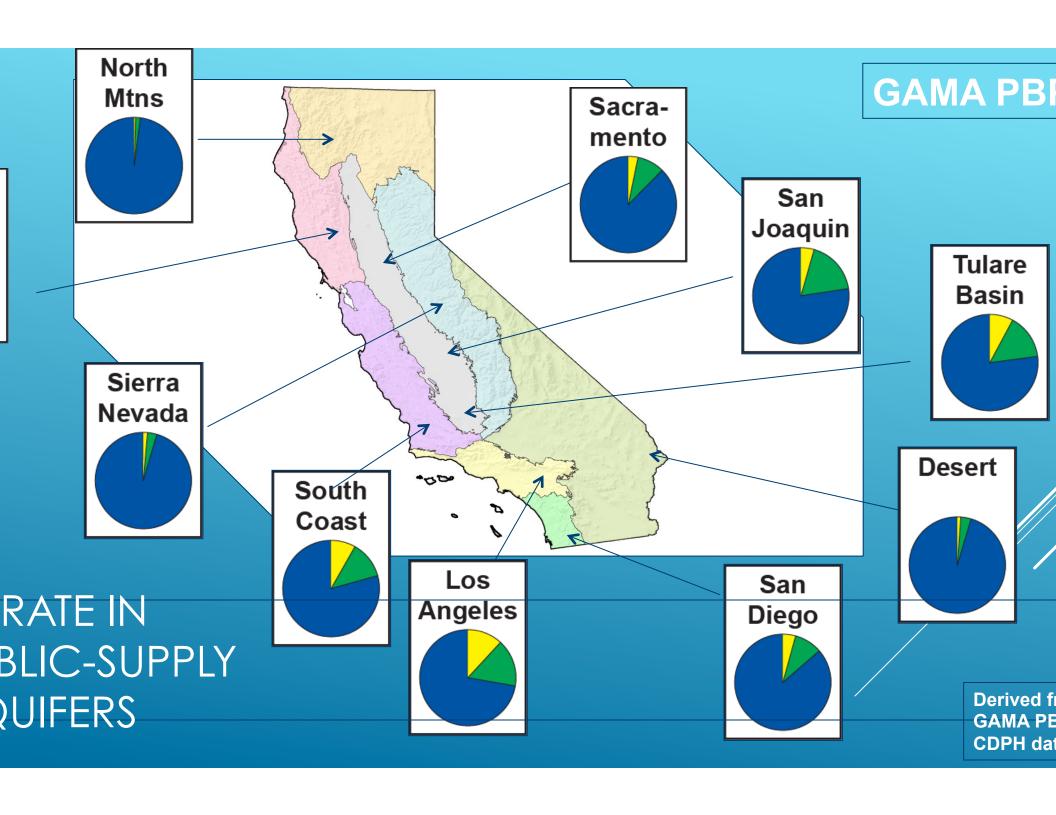
moderate: between

1/2 MCL and MCL

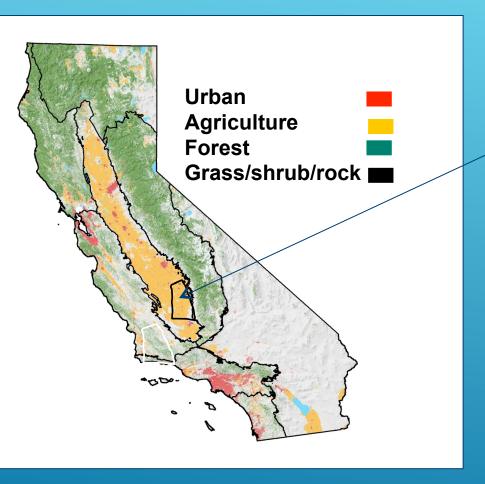
Iow: less than 1/2 MCL

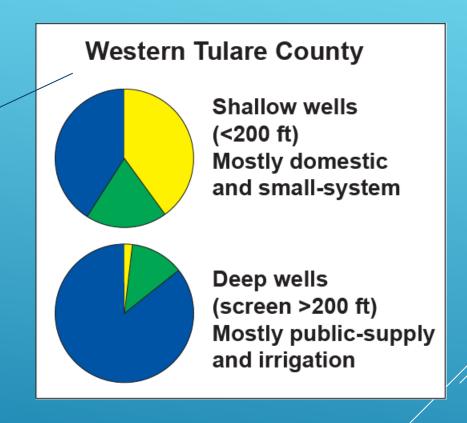


MCL = USEPA or CDPH maximum contaminant level regulatory threshold for drinking water



ITRATE, WELL DEPTH, AND LAND USE





Derived from GAMA PBP, GAMA DWP & USGS NWIS data

HAT'S "UNDESIRABLE" AND WHO DECIDES?

ignificant and unreasonable....

- Lowering of groundwater levels
- Reduction of groundwater storage
- > Seawater intrusion
- Degraded water quality
- > Land subsidence
- Surface water depletions

GMA REQUIREMENTS: PUBLIC ARTICIPATION

The groundwater sustainability agency shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the groundwater basin"

Public hearing requirements at multiple junctures – GSA formation, plan adoption or amendment, establishment of fees

SGMA REQUIREMENTS: STAKEHOLDER ENGAGEMENT

- The groundwater sustainability agency shall consider the interests of all beneficial uses and users of groundwater
- "A list of interested parties [shall be] developed [along with] an explanation of how their interests will be considered"
- "The groundwater sustainability agency shall make available to the public and the department a written statement describing the manner in which interested parties may participate in the development and implementation of the groundwater sustainability plan"
- Any federally recognized Indian tribe... may voluntarily agree to participate in the preparation or administration of a groundwater sustainability plan or groundwater management plan ... A participating tribe shall be eligible to participate fully in planning, financing, and management under this part"

hite paper on akeholder agagement – best actices, case Jdies

Community Water Center
Clean Water Fund
Union of Concerned Scientists





Collaborating for Success:

Stakeholder Engagement for Sustainable Groundwater Management Act Implementation









ENEFITS OF STAKEHOLDER NGAGEMENT

- >1) Improve outcomes
- >2) Optimize resources
- >3) Build broad support and reduce conflict

IMPROVE OUTCOMES

se Study:

are Lake Basin advantaged mmunity dy



OPTIMIZE ESOURCES

verage Iditional funding urces.

ablish new orthogonal restrictions.

crease resource iciencies.

omote better ence, innovation



LD SUPPORT ND REDUCE CONFLICT

ajaro Valley Water anagement Agency



OADMAP FOR STAKEHOLDER NGAGEMENT

Stakeholder identification and Analysis

Outreach and Communication

Data Collection/Management and information aring

Decision-making and recommendations

Adaptive management

STAKEHOLDER DENTIFICATION AND ANALYSIS

ase Study:

noma Valley oundwater anagement Plan



UTREACH AND MMUNICATION





ater System Search

PANY)

000019 (FCSA #30/EL PORVENIR)

ch the water system Name or ID (max 10 characters): Go AND Limit To County - All ▼ 000001 (ALDER SPRINGS) ID: 1000611 (KEN'S CLOTHING AND ID: 1502482 (BONANZA FARMS WATER 000002 (ANOOSH VAN WATER GIFTS) SYSTEM) EM) ID: 1000612 (CLOVIS CASTLE) ID: 1502483 (DON MATHEWS WATER 000003 (BEAR CREEK WATER ID: 1000613 (USDA-FS SYSTEM-FORCED TO PICME) OVEMENT) LANDSLIDE/LOGGER/ASPEN CAMPS) ID: 1502487 (SUN MET FARM LANDS, 000004 (BELMONT WATER ID: 1005350 (BREAKPOINT FOOD MART) LLC) PORATION) ID: 1009001 (FORDEL INC) ID: 1502524 (CAMP AREV) 000005 (BIG CREEK COMMUNITY ID: 1009004 (DEL REY FARMS) ID: 1502534 (FLORES WATER SYSTEM) ID: 1009006 (PAPPAS & CO (COALINGA)) ID: 1502536 (HOUCHIN BROTHERS NO. / DIST) 000007 (IDYLWILDE TRACT ID: 1009010 (FRED RAU DAIRY) 26-FORCED TO PICME) CIATION) ID: 1009013 (MURRIETA/WASHOE) ID: 1502539 (WESTERN STOCKMAN S 000010 (CAMP SIERRA) ID: 1009016 (HARLAN RANCH ASSOCIATION - FORCED) 000012 (COURTWRIGHT LAKE COMPANY) ID: 1502542 (GREENHORN MT. AGE) ID: 1009017 (LARRY SHEHADEY FARMS) RESTAURANT) 000013 (LOWER DEER CREEK ID: 1009018 (AIR WAY FARMS ID: 1502543 (ALINA FARMS INC/DUSTER RANCH - INACTIV) CORPORATION-FORCED TO PICME) 000014 (UPPER DEER CREEK ID: 1009019 (AIR WAY FARMS INC/FIVE ID: 1502545 (SCHWEIKART WATER POINTS - INACTIVE) SYSTEM) 000015 (DINKEY CREEK WATER ID: 1009020 (FIVE POINTS RANCH) ID: 1502547 (MOBIL CHEMICAL) OVEMENT) ID: 1009021 (BRITZ/ADAMS SYSTEM) ID: 1502549 (POPLAR AVENUE 000016 (DORABELLE MUTUAL ID: 1009023 (BRITZ/COLUSA) COMMUNITY) ER COMPANY) ID: 1009024 (BARLOW BROTHERS) ID: 1502550 (KERN COUNTY GUN CLUB) 000017 (DOWVILLE IMPROVEMENT ID: 1009026 (WESTSIDE HOUSING & ID: 1502554 (GLENNVILLE SHOPPING ECO. NETWORK) CENTER) 000018 (EASTON ESTATES WATER ID: 1009027 (HARRIS FARMS ID: 1502555 (JARL WATER SYSTEM -

FORCED TO PICME)

ID: 1502556 (I & I FARMS INC.)

HEADQUARTERS)

ID: 1009028 (HARRIS FARMS SOUTH

DATA COLLECTION AND MANAGEMENT

Case Study:

Tulare Lake Basin Disadvantaged Community Water Study



DECISION-MAKING

Case Study:

Inyo-Mono Integrated Regional Water Management Program

ADAPTIVE MANAGEMENT



Cosumnes, American, Bear & Yuba River Integrated Regional Water Management

SEST PRACTICES AND RECOMMENDATIONS:

- Develop a communications plan to guide and measure outreach efforts.
- Give stakeholders a role in decision-making
- Engage the public and stakeholders on their terms
- Renew your efforts on a regular basis

HANK YOU!

or more information, contact:

Jennifer Clary

Water Program Manager

Clean Water Action/Clean Water Fund

350 Frank H. Ogawa Plaza, Suite 200

Oakland, CA 94612

Tel. (415) 369-9160x311Jclary@cleanwater.org