



CDPH Groundwater Recharge Regulations

By

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Workshop Presenters

- Cindy Forbes—Southern California Branch Chief
- Bob Hultquist—Retired Annuitant, Recharge Specialist
- Brian Bernados—Technical Programs Branch, Recycled Water Unit
- Kurt Souza—Southern California Section Chief

Stakeholder Meeting Overview

- Historical Perspective
- *Existing Groundwater Recharge Projects*
- *2011 Draft Regulations and Time Schedule for Adoption*
- *Implementation Protocols*



Historical Perspective

- 1978—Existing Groundwater Recharge Regs become effective (Section 60320, Title 22). Consists of 3 paragraphs, broadly regulating GW Recharge. Lacks detail.
- 1986—DHS Groundwater Recharge Committee Formed to Develop Reg Package
- 1988—First Draft Proposed (Spreading Projects Only)
- 1989—Draft Considered Injection

Historical Perspective Cont.

- 2001, 2002—Changes involving type of organics treatment and TOC levels needed to deal with NDMA and 1,4—Dioxane
- 2002-2011 --Additional tweaking made to the draft regulations made to deal with Chemicals of Emerging Concern (CECs)

Historical Perspective Cont.

- 2010 — Statutory changes:
 - Water Code was revised via SB 918
 - CDPH must adopt uniform water recycling criteria for groundwater recharge by December 31, 2013
 - CDPH must adopt uniform water recycling criteria for surface water augmentation by December 31, 2016
- ❖ No additional resources were provided to CDPH for these activities; the ability of CDPH to meet these deadlines is dependent upon the availability of funds from other parties.

CDPH – Division of Drinking Water and Environmental Management

- Regulates public water systems
- Sets standards for wastewater reuse to protect public health
 - “Water Recycling Criteria” in Title 22 of California Code of Regulations
- RWQCBs have the permitting and ongoing oversight authority of “Groundwater Recharge Reuse Project (GRRP)”

CDPH – SWRCB - RWQCB

- Due to the potential for confusion and duplication of effort between CDPH & RWQCBs, CDPH & SWRCB signed a Memorandum of Agreement (MOA) in 1996
- MOA delineates responsibilities of each agency in review and approval of RW projects

CDPH – SWRCB – RWQCB, cont.

- CDPH requirements for permit approval are to be incorporated in RWQCB permit
- CDPH will meet with RWQCB staff and attend RWQCB hearings as necessary to explain any CDPH requirements or recommendations
- The two agencies agree to meet and try to resolve any differences

CDPH DDWEM Drinking Water Program

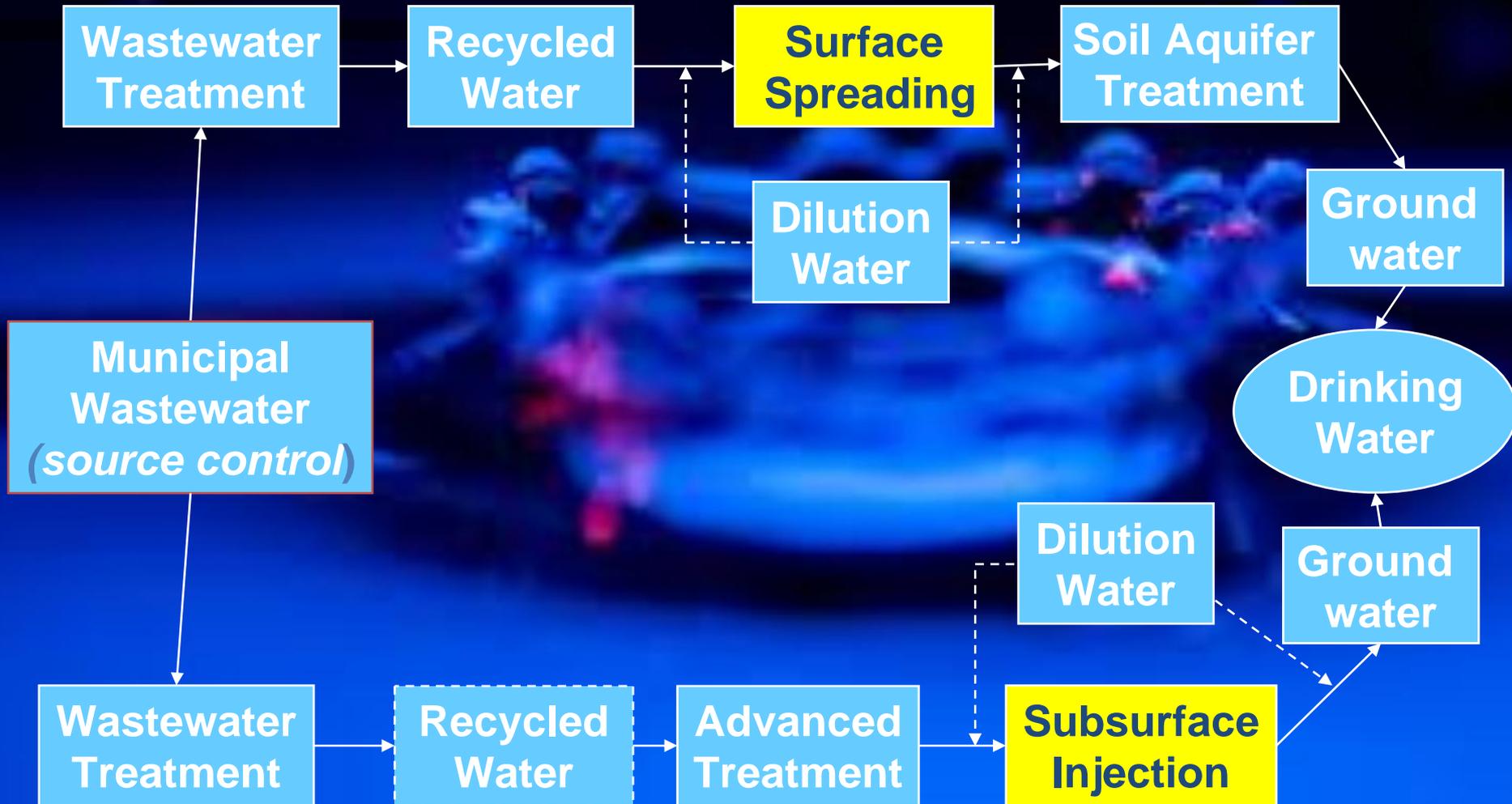


- Reviews recycled water proposals for compliance with Title 22 Criteria
- Provides requirements and recommendations to RWQCB for recycled water permits
- Coordinates with other agencies
- Interfaces with recycled water industry
- Reviews new and emerging technologies
- Collects fees from project applicants for CDPH reviews

Draft Recharge Criteria

- Recycled water from domestic sewage
- Aquifer designated as a drinking water source
- Indirect potable reuse
 - Effective natural barrier
 - Time to identify and respond to problems
- Multiple barriers for each type of contaminants
- Ongoing monitoring program in recycled water and groundwater
- Treatment processes required
- Source water control

Wastewater to Drinking Water through Groundwater Recharge



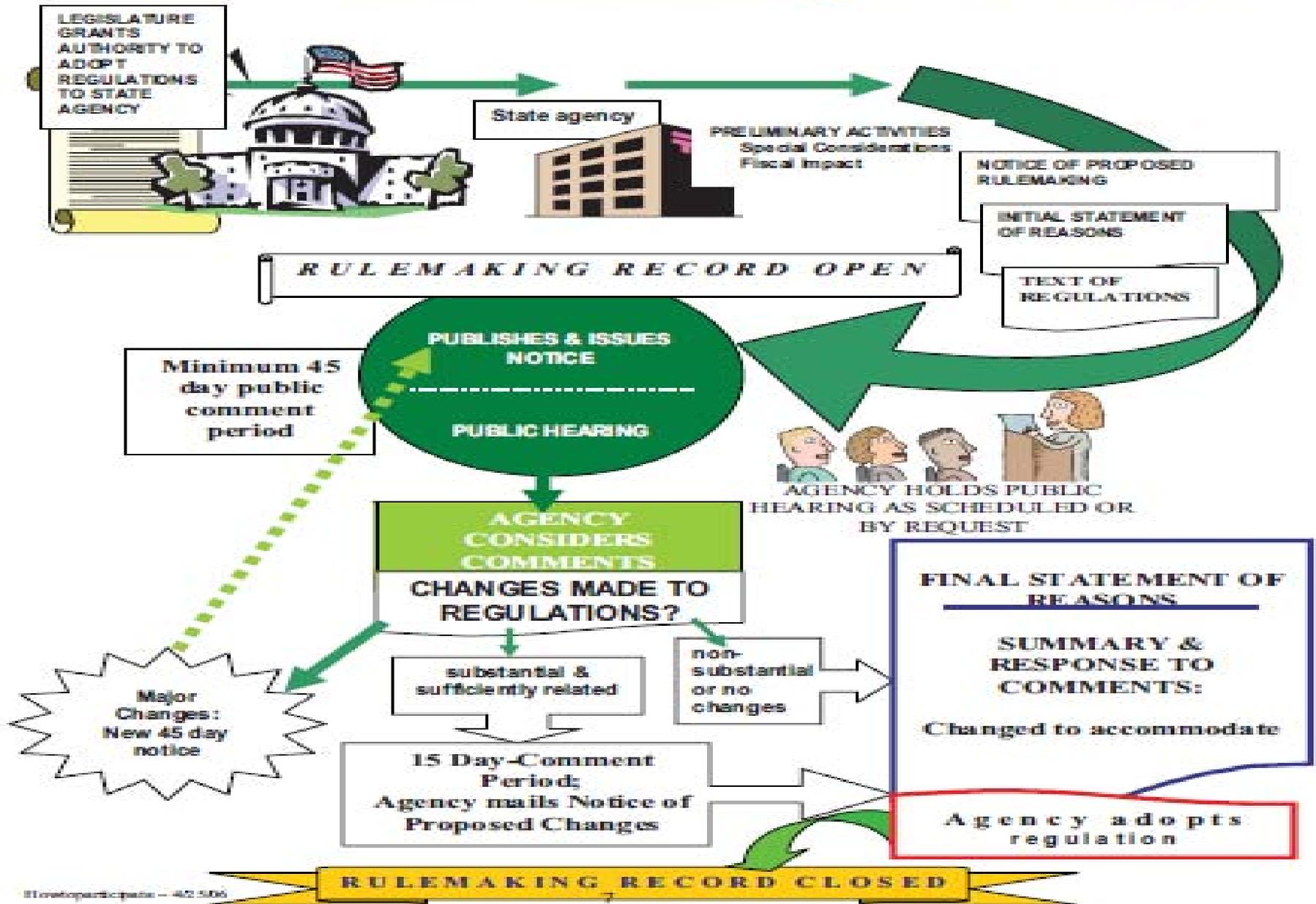
Groundwater Recharge Projects

- Montebello Forebay – County Sanitation Districts of Los Angeles County
- West Basin MWD
- Harbor Recycling Project
- Alamitos Barrier
- Inland Empire Utilities Agency
- Orange County Water District—GWRS

What's Next?

- CDPH will consider comments received during the workshops and during the formal comment period. The comments will be reviewed to consider any needed changes.
- To meet our statutory deadline, we're requesting comments be submitted no later than Jan 30, 2012.
- CDPH will complete the formal reg package and the formal reg process will then begin.

The Rulemaking Process



What's Next?

- Formal Reg development and process
 - Regulation Text (to enhance readability the current version does not include some information and formatting required by the APA), Transmittal Memos, Initial Statement of Reasons, Rulemaking Notices, cost estimating documents, etc.
 - These documents will undergo a rigorous review process by CDPH, Agency, OOR, attorneys, Budget Office, Department of Finance, etc.
 - All this occurs before entering the formal 45-day public comment period and subsequently being reviewed by the Office of Administrative Law and being adopted. 17