



CDPH Groundwater Recharge Regulations

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- * Background
- * Existing Groundwater Recharge Projects
- * Draft Regulation Criteria Summary
- * Draft Regulation Update

Background

- * 1978: Existing Groundwater Recharge Regulations become effective (Section 60320, Title 22). Consists of 3 paragraphs, broadly regulating Groundwater Recharge.
- * 1986 to 1989: DHS Groundwater Recharge Committee Formed to Develop Regulation Package. Initial draft criteria proposed for spreading projects and injection projects.
- * 2001, 2002: Changes involving type of organics treatment and TOC levels needed to deal with NDMA and 1,4-Dioxane
- * 2002-2011: Additional edits made to the draft regulations made to deal with Chemicals of Emerging Concern (CECs). Science very dynamic.

Background

- * 2010: Statutory changes:
 - * Water Code 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
- ❖ There may be challenges to meeting the requirements of SB 918 due to lack of resources, because CDPH would have to redirect resources in order to comply with the deadlines.

Background: Drinking Water Program

- * CDPH Regulates public water systems
- * Sets standards for wastewater reuse to protect public health
 - * “Water Recycling Criteria” in Title 22 of California Code of Regulations
- * Reviews recycled water proposals for compliance with Title 22 Criteria
 - * Provides requirements and recommendations to Regional Board for recycled water permits
 - * Collects fees from project applicants for CDPH reviews
- * Interfaces with recycled water industry
- * Reviews new and emerging technologies

Background: CDPH/SWRCB/RWQCB

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

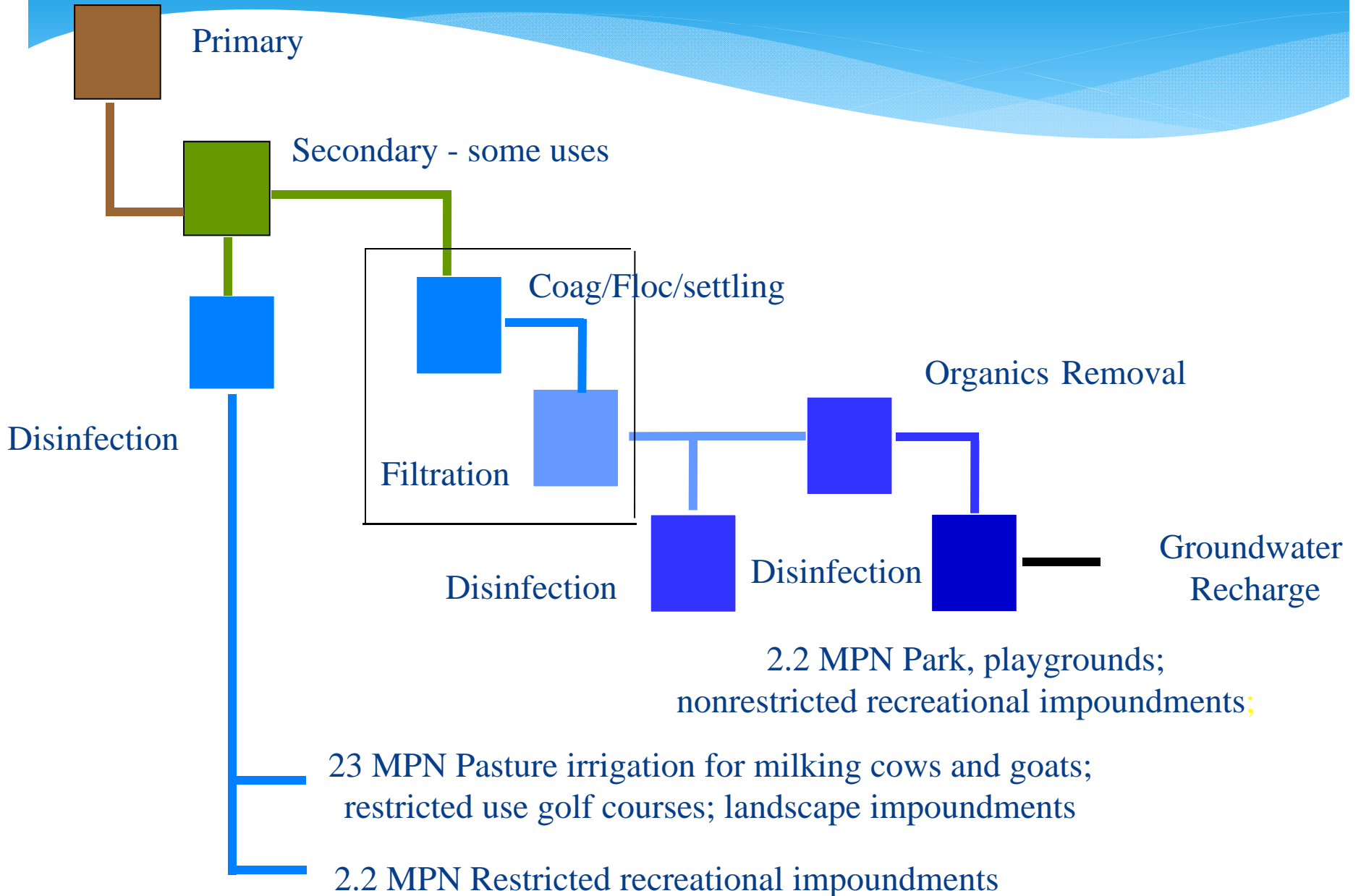
Groundwater Recharge Projects

- * 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

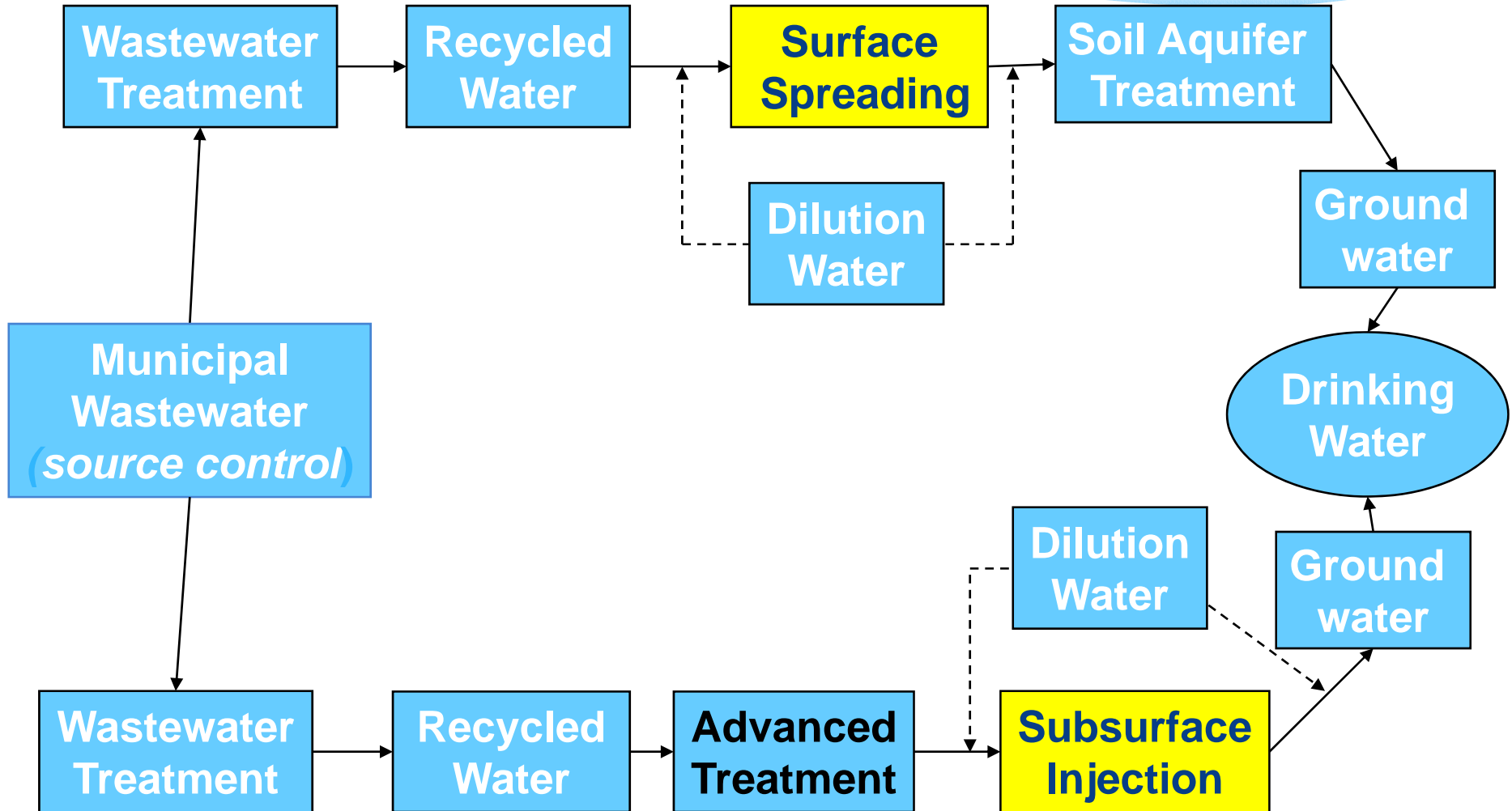
Draft Groundwater Recharge Criteria

- * Recycled water from domestic sewage
- * Aquifer designated as a drinking water source
- * Source water control
- * Indirect potable reuse
 - * Effective treatment barriers
 - * Natural barriers (one of several barriers)
 - * 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
- * Public hearings required

Source Control



Wastewater to Drinking Water through Groundwater Recharge



Draft Regulation Update

- * Draft regulations – dated November 21, 2011 - posted on CDPH Web site
- * December 2011, CDPH held 3 workshops – 2 in southern CA, 1 in northern CA - to educate public, project proponents, consultants, etc., on criteria.
- * CDPH asked for informal comments to be submitted to CDPH by February 29, 2012.
- * CDPH will consider comments received during the workshops and during the formal comment period. The comments will be reviewed to consider any needed changes.

Draft Regulation Update

- * CDPH received comments from more than 20 different commentators
- * CDPH is currently reviewing the voluminous and varied comments and will confer internally and with other experts in the field to determine any necessary changes
- * CDPH will then develop the formal regulatory package to meet the Administrative Procedures Act (APA) requirements

Draft Regulation Update

- * Formal Regulation development and process
 - * Regulation Text, Transmittal Memos, Initial Statement of Reasons, Rulemaking Notices, cost estimating documents, etc.
 - * These documents will undergo a rigorous review process by CDPH, Agency, Office of Regulations, 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.

The Rulemaking Process

