

Salt and Nutrient Management Plan Annual RB4 Stakeholder Workshop

AMENDMENT TO THE RECYCLED WATER POLICY (RWP)
- CEC MONITORING REQUIREMENTS -

Los Angeles Regional Water Quality Control Board
November 15, 2012

SNMP CEC Monitoring Requirement

Each salt and nutrient management plan shall include the following components:

- 6b(3)(b):
 - A provision for annual monitoring of Emerging Constituents/ Chemicals of Emerging Concern (e.g., endocrine disruptors, personal care products or pharmaceuticals) (CECs)
 - consistent with recommendations by CDPH and
 - consistent with any actions by the State Water Board taken pursuant to paragraph 10(b) of this Policy.

Timeline - Recycled Water Policy Amendment

- June 2010: Completion of Panel Report*
- Dec 2010: Public Hearing on Report*
- May 2012: Initial Proposed Amendment*
- Sept 2012: Revised Proposed Amendment*
- Nov 2012: Board Meeting*
- Jan 2013: Expected Adoption Hearing*

Revisions to the Recycled Water Policy

- Update the language regarding CECs, including a reference to a new Attachment A.
- Provide a reduction in monitoring requirements of priority pollutants for recycled water used for landscape irrigation.
- Add a new Attachment A, which includes proposed monitoring requirements for CECs.
 - Human health-relevant CECs;
 - Performance indicator CECs; and
 - Surrogates

Table 1 – CECs to be Monitored for GRRs

Constituent <i>S = Surface App</i> <i>SS = Subsurface App</i>	Constituent Group	Relevance/Indicator Type	Method Reporting Limit (µg/L)
17β-estradiol (<i>S & SS</i>)	Steroid Hormone	Health	0.001
Caffeine (<i>S & SS</i>)	Stimulant	Health & Performance	0.05
N-Nitrosodimethylamine (NDMA) (<i>S & SS</i>)	Disinfection By-product	Health	0.002
Triclosan (<i>S & SS</i>)	Antimicrobial	Health	0.05
Gemfibrozil (<i>S</i>)	Pharmaceutical	Performance	0.01
Iopromide (<i>S</i>)	Pharmaceutical	Performance	0.05
N,N-Diethyl-meta toluamide (DEET) (<i>S & SS</i>)	Personal Care Product	Performance	0.01
Sucralose (<i>S & SS</i>)	Food additive	Performance	0.1

No CEC Monitoring Requirements for Landscape Irrigation

Table 2 - Surrogates for Monitoring Programs

GRR – Surface Application
Ammonia
Total Organic Carbon
Nitrate
Ultraviolet (UV) Light Absorption
GRR – Subsurface Application
Electrical Conductivity
Total Organic Carbon (TOC)

Other surrogates not listed may be considered

Monitoring Program Elements

- Monitoring Locations
 - Subsurface Surrogates (*RB in consultation with CDPH*)
- Phased Assessment
 - Initial Assessment - 1 yr (Table 3)
 - Baseline Monitoring - 3 yrs (Table 4)
 - Standard Operation Monitoring (Table 5)
- Evaluation of Monitoring Results
 - Performance Indicator and Surrogate Results
 - Table 6: Monitoring Trigger Levels (MTLs)
 - Health-Relevant CEC Results
 - Table 7: MC*/MTL Thresholds and Response Actions

*MC measured concentration

Role of California Dept. of Public Health

- California Department of Public Health (CDPH)
 - Should be consulted for any additional monitoring requirements for recycled water use found necessary by CDPH to protect human health.

Role of Regional Boards

- Los Angeles Regional Water Quality Control Board
 - Review and approve selected surrogates
 - Approve alternative Performance Indicator CECs
 - Approve monitoring locations for Surrogates (Subsurface App)
 - Revise monitoring and reporting program, where appropriate

Information on the Recycled Water Policy Amendment

- http://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/draft_amendment_to_policy.shtml