Stormwater Pilot Program

SCWC STORMWATER WORKSHOP
SEPTEMBER 27, 2019

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METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
ABOUT METROPOLITAN

- Nation’s largest wholesaler of water
- 6 counties/26 member agencies
- 19 million people / 5,200 square miles
- $1 trillion regional economy
- Imports water from Northern Sierra and the Colorado River, invests in local projects

9/27/2019

STORMWATER PILOT PROGRAM
CURRENT SOURCES FOR SOUTHERN CALIFORNIA

MWD Service Area Local Supplies:
45%
- Los Angeles Aqueduct
- Conservation
- Groundwater
- Recycling
- Desalination

State Water Project
30%

Colorado River Aqueduct
25%

UPPER COLORADO RIVER BASIN

NORTHERN SIERRA
SACRAMENTO & FEATHER RIVERS
BAY-DELTA
LOS ANGELES AQUEDUCT
COLORADO RIVER
Understanding of Stormwater
Where we’re going

How can Metropolitan incentivize stormwater projects?

- Stormwater Direct Use Pilot
  - Approved in September 2019
- Stormwater Recharge Pilot
  - What is the relationship between capture and yield?
  - Roll-out of proposed Stormwater Recharge Pilot criteria
Outline for Discussion

• Stormwater Direct Use Pilot
• Capture vs. Yield

• Proposed Stormwater Recharge Pilot Criteria
  ◦ Eligibility requirements
  ◦ Program criteria
  ◦ Funding structure
  ◦ Pilot program implementation
Stormwater Direct Use Pilot

Program Start

• Approved by Board in September 2019
• Application period starts January 2020

Budget

• $5.0 million

Eligible Projects

• Public/private sites
• New construction and retrofit
Capture vs. Yield

Capture

Infiltration

Monitoring

Wells, lysimeters, modeling

Yield

Increased production above baseline

OR

Reduced demand on MWD

Recharge

Groundwater Basin

Basin manager approves additional pumping

9/27/2019

Stormwater Pilot Program
Proposed Stormwater Recharge Pilot Criteria
Stormwater Recharge Pilot
Proposed Eligibility Requirements

- Open to all member agencies
- Non-MWD agencies must partner with MAs
- Public/private sites (non-residential)
- New construction or monitoring equipment installation projects
Stormwater Recharge Pilot
Proposed Program Criteria

- Must have an estimated capture of at least 40 AFY
- Must be new water
- Must be with Metropolitan’s service area

- Must have right to capture water
- Increases total recharge to a groundwater basin
- Does not impact downstream users
Stormwater Recharge Pilot
Proposed Project Criteria – Regional Distribution

• No more than 5 projects from any Regional Board area
• No more than 2 projects per groundwater basin
• Additional projects will be placed on a waiting list
Stormwater Recharge Pilot
Proposed Program Criteria - Monitoring & Reporting

• Collect at least 3 years of monitoring data
  • Measure capture and recharge
  • Demonstrate how stored water recharges usable groundwater
  • Show how groundwater production will increase
  • Assess cost data related to water supply

• Submit at least 3 annual reports
Pilot Program Elements

Proposed Budget

- Up to 10 projects
- $7.5 million
- Maximum of $1 million/new construction (including monitoring)
- Maximum $500,000 per monitoring retrofit installation

Proposed Duration

- Anticipated start: March 2020
- New project construction duration: up to 3 years
- Retrofit monitoring installation: up to 1 year
- Minimum monitoring for all projects: at least 3 years
Stormwater Recharge Pilot
Proposed Application Period

Application Period & Potential Board Actions

Program Start

Application Deadline

Mar 2020 Jan 2021 Dec
Next Steps

• Metropolitan Board approval this fall
• Continue discussions with member agencies and pursue other outreach opportunities
• Prepare for application period in March 2020
Questions???

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