Housekeeping and Logistics

2-hour workshop
We will ask for input twice during the workshop using mentimeter.com

Q&A discussion toward the end of meeting
Add to zoom chat
Spanish translation is provided
The slides and our answers to questions received during Q&A will be posted.
Community Norms

- Stay present as much as possible
- Ask questions
- Be solutions oriented
1) Overview of the Metrics and Monitoring Study (MMS or Study)
2) Regional Program Municipal Benefits
3) Municipal Program Reporting / Improving Metrics
4) Question and Answer
5) Wrap up and Goodbye
Municipal Stakeholder Workshop

For the Metrics & Monitoring Study of the Safe, Clean Water Program

May 23, 2023
Safe, Clean Water Program Goals Part 1 of 2

- Improve water quality
- Increase drought preparedness through stormwater capture
- Improve public health
- Invest in multi-benefit infrastructure

- Prioritize nature-based solutions
- Provide disadvantaged community benefits
- Leverage other funding
• Provide a spectrum of project sizes
• Encourage innovation
• Invest in independent scientific research
• Provide proportional funding

• Ensure adaptive management
• Promote green jobs
• Provide ongoing operations and maintenance of projects
The Goal of the MMS is to:

Develop program methods, metrics and monitoring criteria to inform tracking, planning, reporting and decision making within specific areas of the SCWP.
Overview of the MMS

- Is a stakeholder driven process
- Will help inform the adaptive management process
Overview of the MMS

**Engage**
- Equity White Paper Workshops
- Watershed Coordinator & ROC Engagement
- Public Stakeholder Engagement Workshops
- Stakeholder Advisory Committee Workshops
- District Coordination

**Analyze**
- Develop Project-Level Metrics & Community Benefits Framework
- Build Working Model of Watershed Opportunities
- Test Metrics and Simulate Benefits

**Synthesize**
- Metric Recommendations, Procedures, & Guidelines
- Monitoring Plan Recommendations
- Monitoring & Tracking Tool Recommendations

- Multi-Benefit Projects
- Spectrum of Sizes
- Adopt New Technology
- Scientific Study
- Adaptive Management
- Green Jobs & Career Pathways
- Ongoing O&M

**CIBs**
- DAC Invest.
- Municipal Benefits
What is a metric?

A metric is a **measurement** of the state of something, or of a trend over time or space.

An indicator is one or many metrics that together are taken to **represent** the status or trend of something.

**Metrics --> Relative Humidity, Temperature, Wind Speed, Wind Direction**

**Indicator --> Percent Chance of Rain**

**Application --> Do I need an umbrella today?**

**Metrics --> Tire pressure in pounds per square inch (PSI)**

**Indicator --> Dashboard tire pressure warning light**

**Application --> I may need to add air to the tires.**
**Existing Evaluation Metrics**

| **101** Approved and recommended Infrastructure Program Projects representing over **$1.2 billion** in investments through FY26-27 ($670M of SCWP Regional Program dollars) | Capture stormwater from over **222,000 acres** | Provide an increase in total 24-hr storage capacity of **4,070 AF** | Provide an increase in annual average stormwater capture of **56,915 AF** |
| | | Leverage other funding nearing **$542M** | Investments benefitting disadvantaged communities **$343M** | Are being implemented across **47 Municipalities** |
Municipal Focus Topics

REGIONAL PROGRAM
Municipal Benefits

MUNICIPAL PROGRAM
Reporting & Tracking
LA County Flood Control District Code Section 16.05.D.1.e.

“[The Regional Program within the Infrastructure Program] Shall be programmed, to the extent feasible, such that each Municipality receives benefits in proportion to the funds generated within their jurisdiction, after accounting for allocation of the one hundred ten percent (110%) return to [disadvantaged communities]”

Refresher: Water Quality, Water Supply, and Community Investment Benefits
Polls - Round 1
Projects outside your city or WMG
MMS Team Ideas: Water Quality Benefits

- Each Watershed Management Program (WMP) has unique water quality metrics
- MMS is exploring metrics that align with WMPs but can be compared across each SCW Program Watershed Area
  - E.g., heavy metals reduction by SCWP-funded projects in each Watershed Management Area
MMS Team Ideas: Water Supply Benefits

- Water supply benefits may apply regionally and/or at groundwater-basin-scale
- MMS is evaluating potential Water Supply Benefits based on fate of potential capture at Watershed Area- and groundwater basin-scale.

*Note:* MMS not addressing water rights or effective delivery of water to aquifers – reference ongoing study by Flood Control District and Bureau of Reclamation.
MMS Team Ideas: Community Investment Benefits

- MMS is recommending development of a "living database of community voice"
- Database used to verify what Community Investment Benefits are sought by communities
- Once known, the benefits sought can be used in metrics about accomplishments, and for planning
- Additionally, MMS testing metrics/methods to attribute benefits based on walking/driving distances
Municipal Focus Topics

REGIONAL PROGRAM
Municipal Benefits

MUNICIPAL PROGRAM
Reporting & Tracking
Municipal Program Reporting Overview

ANNUAL PLAN
Descriptions of activities anticipated to be funded & Program Goals achieved. **No metric data.**

- Projects
- Programs
- O&M activities
- Stakeholder and Community Outreach activities
- Monitoring for Projects Completed using SCW funds
- Budget

ANNUAL REPORT
Descriptions of funded activities & Program Goals achieved. Currently **includes basic quantitative metrics.**

- Project/Program Descriptions
- SCW Goals (descriptive only)
- Metrics
  - Hydrology
  - Pollutant % Removal
- Community Benefits (Y/N)
- Vector Minimization
- ISI Status
Polls - Round 2
Reporting Process
**Paraphrased Goals**

1. Community Investment Benefits
2. Disadvantaged Community Benefits
3. Proportional Municipal Benefits
4. Water Quality
5. Water Supply
6. Leverage Other Funding
7. Nature Based Solutions
8. Multiple Benefits
9. Spectrum of Project Sizes
10. Adoption of New Technology
11. Independent Scientific Research
12. Adaptive Management
14. Ongoing O&M
15. Community Engagement*

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*Community Engagement is added as a goal for the purposes of metrics development based on the 2022 Interim Guidance and UCLA's whitepaper on CIB.
Annual Reports - Improving Metrics

Water Supply Benefit

Current Reporting:
- Annual volume captured and treated (acre-ft)
- Water reuse components (Y/N)
- Onsite use components (Y/N)

Proposed Improvements:
- Parse all volumes by fate (acre-ft)
  - Treated on-Site (flow through)
  - Infiltrated (over aquifer or non-aquifer zones)
  - Used on-Site
  - Diverted for treatment (existing or future planned treatment plant)
  - Diverted for reclamation (existing or future planned reclamation facility)

Water Quality Benefit

Current Reporting:
- Primary pollutant reduction (%)

Proposed Improvements:
- Primary pollutant reduction (load and %)
- Secondary pollutants?
CIB: Improved flood management, mitigation

**Current Reporting:**
- Description
- Improve Flood Management, Conveyance and mitigation (Y/ N)

**Possible Improvements: If yes...**
- Type of flood issue mitigated
  - Surface Ponding (Pluvial)
  - Riverine Flooding (Fluvial)...
- Method of mitigation:
  - Peak flow reduction
  - Improved conveyance...
- Mitigation Ratio
  - e.g. Storage volume to resolve/storage volume provided
- Economic damages ($)
  - Estimated with project
  - Estimated without project
"The City has mitigated flooding by improving the stormdrain lines, reconstructing the damaged inlets into catch basins and connecting them to underground infiltration chambers designed with a volume capacity to mitigate the flooding issues (13,860cf). This improves the water quality of runoff that collects pollutants produced by vehicular traffic and enters the stormdrain system untreated. It also increases vehicular and pedestrian safety during storm events by preventing flooding conditions from occurring."

Water Supply:
Annual volume Infiltrated (non-aquifer zone): 0.5 acre-ft.

Primary Pollutant Reduction: 50 lbs/yr

Flood Management
- Type of flood issue mitigated: Localized ponding
- Method of mitigation: Offline storage,
- Mitigation Ratio: 100%  
  - Storage volume to resolve: 13k ft³
  - Storage volume provided: 13k ft³
- Economic damages ($) - If Known
  - Estimated with project: $0
  - Estimated without project: $100k
CIB: Create, enhance, or restore parks / habitats

Current Reporting:
- Description
- Yes / No

"...the projects propose improvements to City facilities. This includes pedestrian paths and improved recreational areas and park grounds. Additional improvements to landscaping will help communities mitigate and adapt to the effects of climate change by creating shade and greenspace, reducing heat island effect..."
CIB: Reduce Urban Heat

Current Reporting:
Does Project Increase Shade or # of Trees (Y/N)

"...the projects propose improvements to City facilities. This includes pedestrian paths and improved recreational areas and park grounds. Additional improvements to landscaping will help communities mitigate and adapt to the effects of climate change by creating shade and greenspace, reducing heat island effect..."
### Project Stages

<table>
<thead>
<tr>
<th>Project Stage</th>
<th>Data and Data Gathering</th>
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<tbody>
<tr>
<td><strong>Planning → Submittal</strong></td>
<td>• Project Metadata</td>
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<td>• Estimate Project Metrics (WQ, WS, CI, NBS etc...)</td>
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<tr>
<td><strong>Design → Construction</strong></td>
<td>• Confirm/Update Metadata</td>
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<tr>
<td></td>
<td>• Confirm/Update Project Metric Estimations</td>
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<tr>
<td><strong>Post Construction (Y1-3)</strong></td>
<td>• Field, Remote Sensed and other Project Data (e.g. Maintenance logs, O&amp;M spend...)</td>
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<td>• Evaluate Projected v. Actual Performance</td>
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- Define Project & Estimate Performance
- Confirm Project & Estimations
- Measure & Compare Performance
**Nature Based Solutions**

**Current Reporting:**
- Does the project implement or mimic natural processes (Y/N)
- Does the Project utilize natural materials (Y/N)

**Proposed Improvements:**
Evaluation against all 6 NBS categories

**Examples:**
- Vegetation and Green Space:
  - % Project coverage by climate appropriate vegetation
  - % Project coverage by native vegetation

- Increased Permeability:
  - Net Paved Area Removed (sqft)
    - Parsed by surface types installed and removed
Green Jobs and Career Pathways

Current Reporting:
- Descriptive Only

"The goal to promote green jobs and career pathways will be achieved by the Project through hiring engineering consultants to conduct preliminary engineering investigations, geotechnical engineering analysis,..."

Proposed Improvements:
- Estimated portion of SCW funds applied to labor ($)
  - Parsed by Project phase and job classification (e.g. Design Phase; $90,000 Civil Engineering, $35,000 Geotechnical Engineering)
- Estimated FTE by job classification: Calculated within module
  - e.g. 0.5 FTE Civil Engineering, 0.2 FTE Geotechnical Engineering
- # of people trained (# and training type)
Annual Reports - Improving Metrics

CIB: Responsiveness to Community Stated Needs

Current Reporting:
- None

Proposed Improvements:
- Letters of support from community organizations and members (#)

Living Database of Community/Tribe Stated Needs
- How many community/tribe stated needs are addressed by the project? (#), and what are they.

Community Engagement

Current Reporting:
- Descriptive Only

Proposed Improvements:
- Good / Better / Best Framework for Community Engagement (from 2022 Interim Guidance)
- Input from Tribes? (Y/N) How was input sought? (drop down list including other)
- Was Tribal feedback received (Y/N) What input was received?
## Community Engagement: Good, Better, Best Framework

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<thead>
<tr>
<th>Engagement Level</th>
<th>Good</th>
<th>Better</th>
<th>Best</th>
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<td>Inform</td>
<td>Involve</td>
<td>Collaborate</td>
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<td>Consult</td>
<td>Educate</td>
<td>Incorporate</td>
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<td>Fact Sheets</td>
<td>House Meetings</td>
<td>Partner</td>
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<td>Open Houses</td>
<td>Workshops</td>
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<td>Focus Groups</td>
<td>Response to Community</td>
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Example Programs

- Urban Runoff Monitoring and Reporting
- Community Outreach Events
- Studies (e.g. Trash Generation Studies, water quality...)
- NPDES and MS4 Consulting
- SCWP support activities (WASC, ROC etc...)
- Regional Infrastructure Planning
- Staff Funding (Water Quality Admin and Coordination, Operations, SCWP Support Activities, WASC, ROC etc...)
- Membership dues

Example Non-Structural Projects

- O&M of Existing Projects:
  What types of metrics should count to SCWP Outcomes?
  - e.g. Water quality - yes
  - e.g New tree canopy - no
- O&M: Stormdrain repair
- Vector Control
- Street Sweeping
Question and Answer
What Comes Next?
What comes next for the Metrics & Monitoring Study

- The Q&A from this public workshop
  - Every question will get a written answer, a summary will be posted to the site.
  - Your contributions will influence the ongoing work of the MMS team, and
  - Will be shared with the MMS Stakeholder Advisory Committee at their next meeting

- Status - Metrics and Monitoring Study
  - Two upcoming workshops, Summer 2023
  - Completion in Fall 2023

- Status - SCWP
  - Mid-year 5 with most recent round of Stormwater Investment Plans approved by Regional Oversight Committee
  - Call for projects closing in July
  - Biennial review pending in late 2023

- As always email at SafeCleanWaterLA@pw.lacounty.gov
Thank you!