
SAFE CLEAN WATER PROGRAM
Water Supply Pilot
Metrics & Monitoring Study

Alternate Water Supply Scoring Pilot

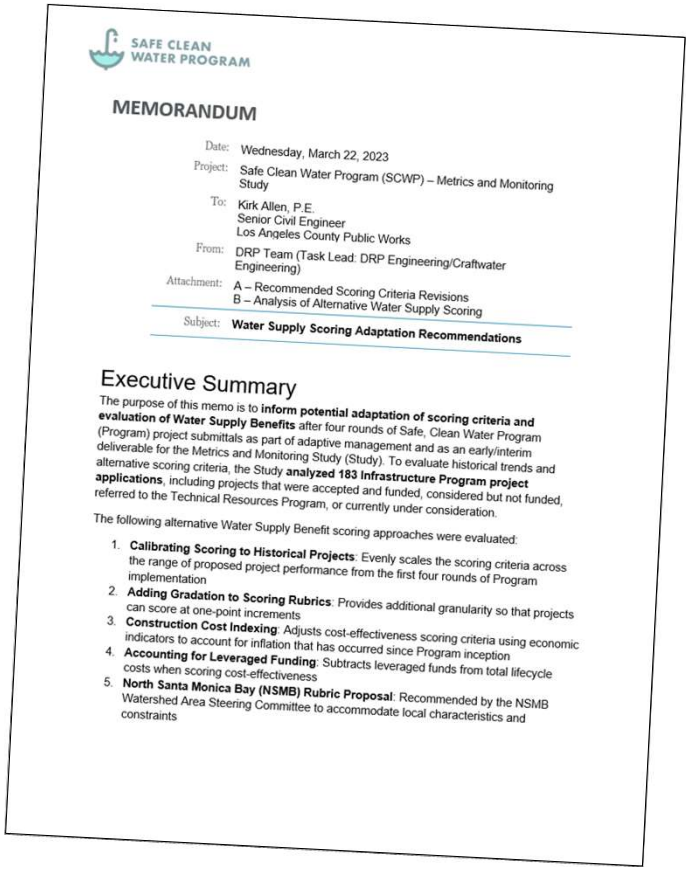
1. Each submitted IP could select if they wished to be scored using the existing WS criteria, or the pilot criteria.
    - Nine of twenty-one submitted projects selected the pilot
2. For each project that selected the pilot, SC/WASC will evaluate the project's WS pilot score.
3. For the projects that did not select the pilot, SC/WASC will evaluate the projects WS score from the standard rubric.

Alternate Water Supply Scoring Pilot

Metrics & Monitoring Study

- Inform potential adaptation of scoring criteria and evaluation of Water Supply Benefits

- Analyzed 183 Infrastructure Program Applications



SAFE CLEAN WATER PROGRAM

MEMORANDUM

Date: Wednesday, March 22, 2023

Project: Safe Clean Water Program (SCWP) – Metrics and Monitoring Study

To: Kirk Allen, P.E.
Senior Civil Engineer
Los Angeles County Public Works

From: DRP Team (Task Lead: DRP Engineering/Craftwater Engineering)

Attachment: A – Recommended Scoring Criteria Revisions
B – Analysis of Alternative Water Supply Scoring

Subject: **Water Supply Scoring Adaptation Recommendations**

Executive Summary

The purpose of this memo is to **inform potential adaptation of scoring criteria and evaluation of Water Supply Benefits** after four rounds of Safe, Clean Water Program (Program) project submittals as part of adaptive management and as an early/interim deliverable for the Metrics and Monitoring Study (Study). To evaluate historical trends and alternative scoring criteria, the Study **analyzed 183 Infrastructure Program project applications**, including projects that were accepted and funded, considered but not funded, referred to the Technical Resources Program, or currently under consideration.

The following alternative Water Supply Benefit scoring approaches were evaluated:

1. **Calibrating Scoring to Historical Projects**: Evenly scales the scoring criteria across the range of proposed project performance from the first four rounds of Program implementation
2. **Adding Gradation to Scoring Rubrics**: Provides additional granularity so that projects can score at one-point increments
3. **Construction Cost Indexing**: Adjusts cost-effectiveness scoring criteria using economic indicators to account for inflation that has occurred since Program inception
4. **Accounting for Leveraged Funding**: Subtracts leveraged funds from total lifecycle costs when scoring cost-effectiveness
5. **North Santa Monica Bay (NSMB) Rubric Proposal**: Recommended by the NSMB Watershed Area Steering Committee to accommodate local characteristics and constraints

Alternate Water Supply Scoring Pilot

Existing Scoring for WS

Table 1. Current Water Supply Cost Effectiveness Scoring Criteria

Total Life-Cycle Cost per Unit of Acre Foot of Stormwater and/or Urban Runoff Volume Captured for Water Supply[1] ($/AF)	Points
$2,000-$2,500	3
$1,500-$2,000	6
$1,000-$1,500	10
< $1,000	13

Table 2. Current Water Supply Benefit Magnitude Scoring Criteria

Yearly Additional Water Supply Volume Resulting from the Project (AFY)	Points
25-100	2
100-200	5
200-300	9
> 300	12

Figure 1. Histogram of historical cost-effectiveness scores under current criteria

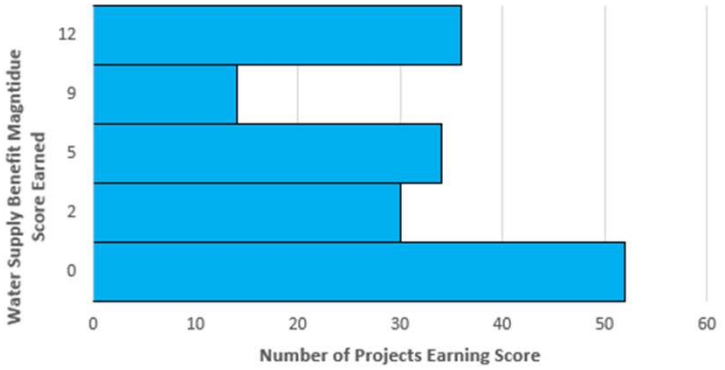


Figure 2. Histogram of historical magnitude scores under current criteria

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Alternate Water Supply Scoring Pilot

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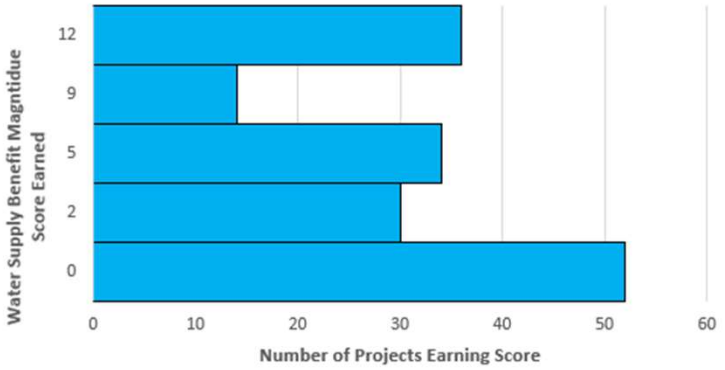

Figure 2. Histogram of historical magnitude scores under current criteria

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Alternate Water Supply Scoring Pilot

Table 3. Alternative Cost-Effectiveness Scoring Rubric Calibrated to Historical Project Data

$/AF	Points
> 104,000	1
39,700-104,000	2
29,400-39,700	3
19,400-29,400	4
13,600-19,400	5
8,880-13,600	6
7,020- 8,880	7
5,360-7,020	8
2,930-5,360	9
2,290-2,930	10
1,786-2,290	11
976-1,786	12
< 976	13

Table 4. Alternative Magnitude Scoring Rubric Calibrated to Historical Project Data

AFY	Points
> 0-2	1
2-6	2
6-11	3
11-34	4
34-61	5
61-100	6
100-137	7
137-189	8
189-263	9
263-420	10
420-692	11
> 692	12

Alternate Water Supply Scoring Pilot

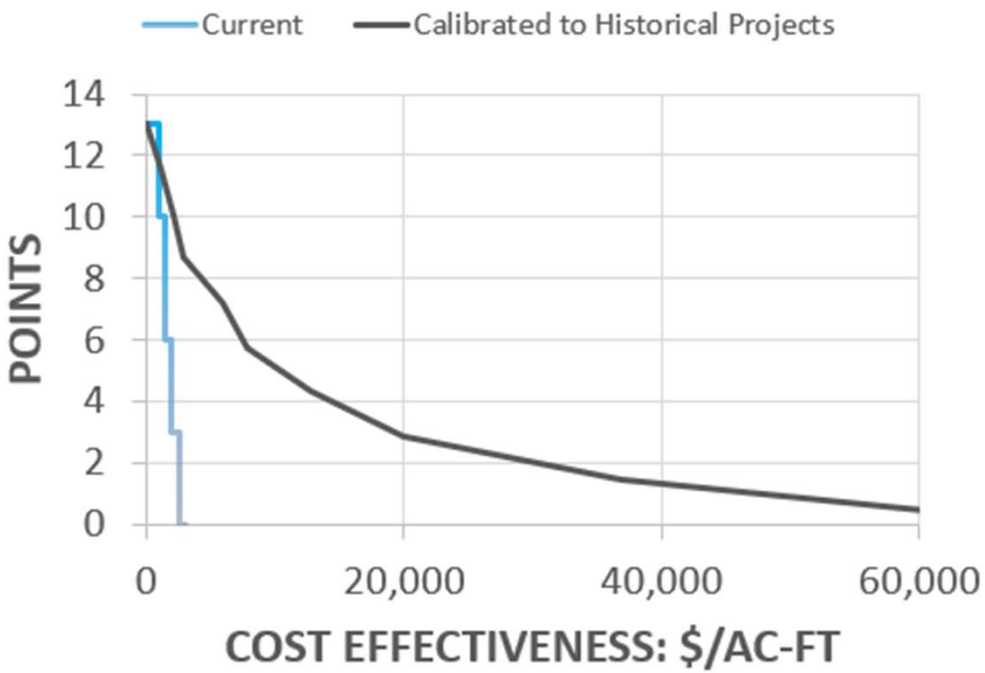

Figure 5. Alternative Cost-Effectiveness Scoring Rubric Calibrated to Historical Projects

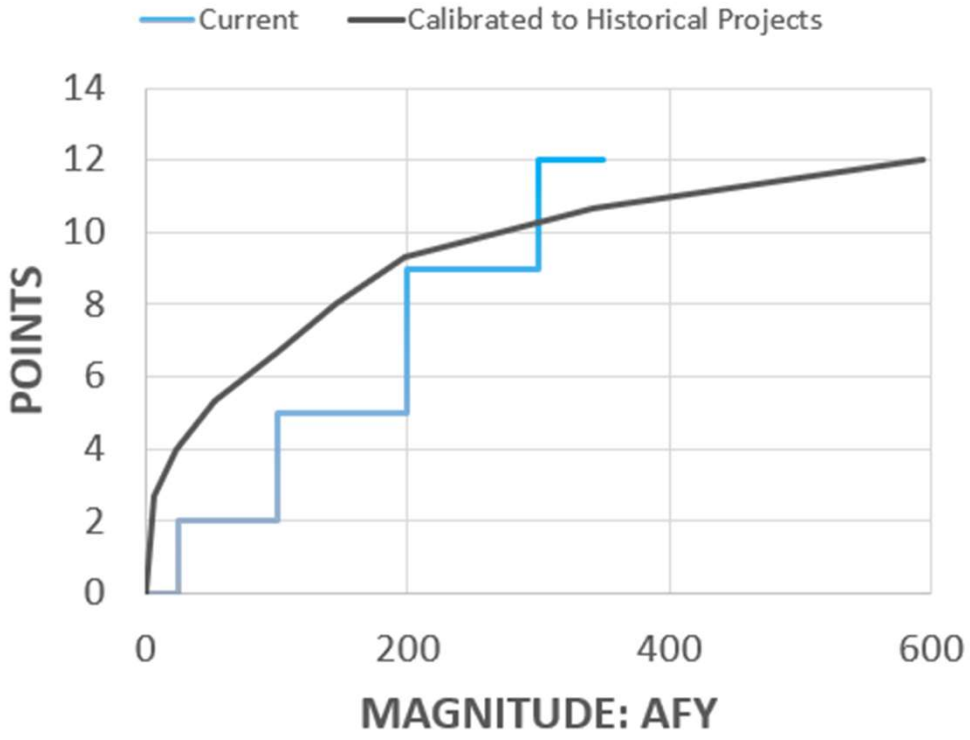

Figure 6. Alternative Magnitude Scoring Rubric Calibrated to Historical Projects