

# Agenda Item

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**Engineering Committee Meeting**

**Meeting Date:** September 8, 2022

**TO:** Engineering Committee

**FROM:** Amber Baylor, Director of Environmental Compliance

**SUBJECT:** NPDES Asset Management Plans Update

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## Overview

The San Juan Creek Ocean Outfall (SJCOO) and Aliso Creek Ocean Outfall (ACOO) NPDES permits require that SOCWA provide an Asset Management Plan (AMP) for each outfall system. There are ten discharge facilities on the SJCOO and eight discharge facilities on the ACOO. The SJCOO and ACOO AMPs are due to the San Diego Regional Water Quality Control Board (SDRWQCB) 180 days after the adoption of the NPDES permits. The SDRWQCB staff indicated that one AMP per outfall would satisfy the permit requirements. The AMP requirements are listed in both the ACOO and SJCOO NPDES Permit Section 6.3.5.7. The outline provided below includes where the AMP is compliant with the NPDES permit requirements. The outline was created in consultation with SDRWQCB staff at SOCWA Engineering staff. SDRWQCB provided the U.S. EPA's AMP<sup>1</sup> guidelines and a copy of the Orange County Sanitation District's (OCS) AMP<sup>2</sup> as guidelines for compliance. SOCWA prepared the outline below utilizing the OCS template in order to meet regulator expectations.

SOCWA will be reaching out to Member Agencies with requests for information to prepare the AMP. SOCWA is also requesting assistance from the Member Agencies that to work on the AMP. Please also note that through discussions with SDRWQCB staff, no new information other than what is readily available will need to be included in the Plan. Where information is not readily available, SOCWA will note that additional information will be forthcoming by that Member Agency.

The following is a preliminary timeline for completion and presentations:

- 8/11/22 Engineering Committee Meeting – Status update, AMP outline, and Excel Template for assets.
- 8/17/22 – Outline Comment Review due to SOCWA
- 8/24/22 and 8/31/22 – AMP Workgroup Meetings for SJCOO and ACOO for competition of asset relative useful life
- 9/8/22 Engineering Committee Meeting – Present working draft

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<sup>1</sup> U.S. Environmental Protection Agency March 6, 2017. Asset Management Programs for Stormwater and Wastewater Systems: Overcoming Barriers to Development and Implementation. EPA Contract No. EP-C-14-003. Prepared by PG Environmental: <https://www.epa.gov/sustainable-water-infrastructure/asset-management-programs-stormwater-and-wastewater-systems>

<sup>2</sup> Orange County Sanitation District. 2021 Asset Management Plan. <https://www.ocsan.gov/Home/Components/News/News/4656/270?page=9>

- 10/6/22 Board Meeting – Present Draft AMP
- 10/13/22 Engineering Committee Meeting – Present Final AMP
- 10/18/22 – Submit the AMP to SDRWQCB through the CIWQS electronic submittal portal

The following is a draft outline of the AMP report for the ACOO and SJCOO. Please note that the same outline will be utilized for compliance purposes for each of the outfalls.

## 1. Executive Summary

- a. Asset Management Plan Intent and Purpose
  - i. Objectives: Proactive approach to repair, rehabilitation, and replacement, assets are reliable and operating when need, minimization of unplanned outages, management of risks associated asset or service impairment through asset performance optimization, development of cost-effective management strategies in the long-term, and striving for continual improvement of asset management practices.
- b. Overview of SJCOO/ACOO Discharge Facility Infrastructure
- c. State of SOCWA and Member Agency Infrastructure
- d. Budgetary Considerations

## 2. Introduction

- a. Overview of SJCOO/ACOO Discharge Facility Infrastructure
  - i. Map of SOCWA and Member Agency Facilities in Compliance with NPDES Section 6.3.5.7.3.
  - ii. Collection Systems
    - 1. Links to Member Agency Sewer System Management Plans
  - iii. Reclamation and Treatment Plant Facilities
    - 1. NPDES permit facility descriptions and schematics
  - iv. Desalting/Treatment Unit Facilities
    - 1. NPDES permit facility descriptions and schematics
  - v. Outfall System
    - 1. NPDES permit facility descriptions
- b. Facility Valuations
  - i. Links to Member Agency Comprehensive Financial Reports (CAFR)
- c. Asset Management Organization
  - i. Predictive and Corrective Maintenance
    - 1. Compliance Evaluation Inspection references to maintenance software evaluations related to preventative maintenance reviews.

## 3. State of SOCWA and Member Agency Infrastructure

- a. Asset Management System Summaries
  - i. Excel Templates for Member Agency Review and Comment. Please note that if information is not readily available, SOCWA will include language for follow-up for requests for information.
- b. Area Asset Management Summaries

- i. Facility Key Issues, Actions, and Recommendations – Summary Recommendation received from Member Agencies
- 4. Program Monitoring and Improvements – In Compliance with NPDES Section 6.3.5.7.1
  - a. Program Metrics
    - i. Proactive Maintenance Software Metrics – Percent of preventative maintenance as a percent of all maintenance performed. Tables for each facility included in the excel templates.
  - b. Maintenance Planning in Compliance with NPDES Section 6.3.5.7.2
    - i. Projected Maintenance Costs – Obtained from Member Agency Input per facility. Included in Excel templates.
  - c. Asset Management Program Accomplishments
    - i. Condition Assessment Program Work
    - ii. Member Agency Collection System Asset Highlights
    - iii. Other Examples Member Agencies would like to include
  - d. Asset Management Program Improvement Opportunities
    - i. Short-to-Medium Term Improvement Opportunities
    - ii. Longer-Term Strategy and Improvement Opportunities
- 5. Budgetary Considerations in Compliance with Section 6.3.5.7.4 and Section 6.3.5.7.5
  - a. Capital Improvement Expenditures
    - i. SOCWA and Member Agency Capital Improvement Plan references.
  - b. Maintenance Expenditures
    - i. SOCWA and Member Agency Capital Improvement Plan references.
  - c. Ten-Year Capital Planning
    - i. SOCWA and Member Agency Capital Improvement Plan references.
- 6. Summary of Recommendations

**Recommended Action:** Staff is requesting Member Agency review and comment on the AMP outline above by 8/17/2022. Staff is also requesting Member Agency contacts to work with directly on the completion of the AMPs by 8/17/2022.

**Attachment:** Excel Templates distributed under separate cover.