## **SASM** SEWERAGE AGENCY OF SOUTHERN MARIN

### A Joint Powers Agency - Almonte S.D. - Homestead Valley S.D.

- Alto S.D.
- Richardson Bay S.D.
- City of Mill Valley
- Tamalpais C.S.D.

#### STAFF REPORT

TO: Sewerage Agency of Southern Marin Commissioners

FROM: Mark Grushayev, Wastewater Treatment Manager

VIA: Jill Barnes, P.E., Director of Public Works/City Engineer

**SUBJECT**: Wastewater Treatment Manager's Report

**DATE:** December 19, 2013

#### **ISSUE:**

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25 26 Summary of operations and maintenance activities through December 13, 2013.

#### **RECOMMENDATION:**

Receive report.

#### **DISCUSSION:**

#### Compliance

There were no permit violations during the reporting period.

Initiated work on the November Self-Monitoring Report and DMRs.

#### **Training**

Both Operations and Maintenance supervisors attended risk assessment training provided by CSRMA.

#### Safety

The dead tree at Ricardo Road pump station was a safety hazard and was removed.

Safety Evaluation reported: safe method of obtaining sample from Air Release Valve #1 needed.

In response the Operations section staff is developing a standard operating procedure.

At the Safety Committee meeting the staff has determined a need for updating the emergency response procedures manual and developing a task list and a schedule for completion.

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Maintenance

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During the reporting period 109 preventive maintenance work orders and 28 corrective were completed by the operations and maintenance personnel.

Capital Improvement Program

**Headworks Rehabilitation**: Staff has received and reviewed the pre-design report for the headworks rehabilitation project with Carollo Engineers. This report outlined several layout options for the new equipment. Staff has provided comments on this report and requested an evaluation of an additional layout option that may provide a cost-effective alternative. The recommendation to rehabilitate the failing conveyor system to provide reliable operation during next several years is under consideration. The final report is expected to be provided at the end of December.

**Digester #2 cleaning:** After competition of the cleaning phase of Digester #2 it was put back in service. Staff plans to use it as a primary digester for the duration of the cleaning, inspection and possible rehabilitation of the Primary Digester #1. Digester # 1 has been deactivated and is in the process of preparation for cleaning. A cleaning process of Primary Digester # 1 is tentatively planned for the first week of January, based on the vendor's availability.

SCADA (Supervisory Control and Data Acquisition) Upgrade CIP is in design stage now. City has hired a consultant - Control Engineers to provide recommendations for the planned upgrade of the existing control system, including the telecommunication with SD5 and the pump stations. Staff has received a final draft of the first phase of design for the new system. Based on this document the Request for Proposal for the implementation phase is being developed and is due on December 20. The proposals for radio design component of the SCADA upgrade are currently under evaluation by staff.

**Electrical Switchgear** and overall WWTP electrical system was evaluated and staff is reviewing the draft report received last week. The preliminary evaluation indicates the need for electrical equipment upgrades. The findings of this report will be incorporated into the Master Plan document. The recommendation to rehabilitate two main switchgear buckets is being scheduled.

**Trestle Glen Generator Replacement Project:** The bidding documents for the construction phase of this project have been received and staff is preparing contract documentation for the lowest bidder. The construction is scheduled to start on the first week of January 2014 and is expected to be completed within 45 days.

**Secondary Clarifier Sweeps:** This project is designed to address the failing condition of both of the secondary clarifiers driving mechanisms. Staff has procured a drive mechanism for the Secondary Clarifier # 1 directly from the manufacturer. The installation of the new drive was completed on November 7. The evaluation of the new drive demonstrated good and reliable performance. The replacement of the drive for Secondary Clarifier #2 is planned to start after the wet weather season in May 2014.

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**Private Lateral Replacement Program:** This is an ongoing program that requires working with homeowners from the six member agencies that inquire and apply for funding (loan and grants) to replace the defective laterals. The updated activity table is attached to this report.

**WWTP Master Plan:** The Board acted to recommend award of consultant contract to Carollo Engineers at its special meeting on Nov. 12, 2013. The Professional Services Agreement with Carollo is signed and a kick off meeting is scheduled for December 17<sup>th</sup> at 2 pm. The member agencies' general managers are encouraged to attend. This Master Plan will evaluate and address aging infrastructure taking a comprehensive and thoughtful approach. Staff will schedule a meeting with the Master Plan subcommittee for early January.

**Outfall Study:** The agreement with SD5 to study deep water outfall vulnerabilities and a contingency for emergencies has been signed. The kick of meeting with RMC and SD5 was facilitated at SASM on October 31. The first progress report by RMC is due at the end of December.

**Agreement with SD5 for Shared-Use of Outfall**: Staff had a very productive meeting to discuss revisions to the agreement with SD5 and agreed upon a final draft. The draft agreement is under legal review by the agency and district's counsel. SD5 and WWTP staff plan to present to their Boards for approval in January 2014.