

Proposal Details

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**PIN# 10476 - SAM Wet Weather Flow Management Project
GRANT AGREEMENT#**

Application Details

General Details

RFP Title: Clean Beaches Initiative Grant Program Proposition 50

Submitting Organization: Sewer Authority Mid-Coastside

Organization:

Project Title: PIN# 10476 - SAM Wet Weather Flow Management Project

Project Description: The SAM Wet Weather Flow Management Project (Project) is an implementation project designed to reduce the bacterial contamination at three of the four CBTF Priority Beaches listed for San Mateo County: James V. Fitzgerald Marine Reserve, Pillar Point Harbor Beach, and Venice Beach at Frenchman's Creek. These beaches have a history of demonstrated bacterial contamination problems, especially during wet seasons. The applicant, Sewer Authority Mid-Coastside (SAM), is a joint power authority that collects and treats sewage for the California Mid-Coast region. The population served is approximately 25,000 people. SAM's wastewater conveyance and treatment facilities, including its wastewater treatment plant and the outfalls, are in close proximity to the aforementioned CBTF priority beaches. The proposed Project includes system-wide lateral replacement, repairs of various critical facilities, and construction of a new 600,000-gallon stormwater storage tank.

Applicant Details

Applicant Organization: Sewer Authority Mid-Coastside

Applicant Address: 1000 North Cabrillo Highway
Half Moon Bay, CA - 94019

Project Budget

Funds Requested: \$ 1,181,250

Cost Matching Funds: \$ 3,543,750

Total Budget Funds: \$ 4,725,000

Project Location

Latitude & Longitude: 37.542 ; -122.4833

Watershed: Denniston, Arroyo, Frenchman's

County: San Mateo

Responsible RWQCB: 2 San Francisco Bay RWQCB

Funding Program

Clean Beaches Initiative Grant Program

Applied

Yes

Legislative District	Primary	Additional
Senate District	08	11
Assembly District	19	21
US Congressional District	14	12

Contact Agency

Sewer Authority Mid-Coastside

Contact Name

John Foley

Cooperating Entity

Role on Project

Contact Name

Q# Application Question

1. How does the beach affected by the Project meet the criteria in Section IV.D.i or Section IV.D.ii of the [Proposition 50 CBI Program Guidelines](#)?

Answer: The SAM Wet Weather Flow Management Project (Project) is an implementation project designed to reduce the bacterial contamination at three of the four CBTF Priority Beaches listed for San Mateo County: James V. Fitzgerald Marine Reserve, Pillar Point Harbor Beach, and Venice Beach at Frenchman's Creek. These beaches have a history of demonstrated bacterial contamination problems (please refer to the water quality data and beach report card grades for 2000 through 2006 shown in Attachment 5). The applicant, Sewer Authority Mid-Coastside (SAM), is a joint power authority that collects and treats sewage for the California Mid-Coast region, which includes the City of Half Moon Bay, Montara, El Granada, and other neighboring small communities. The population served is approximately 25,000 people. SAM's wastewater conveyance and treatment facilities, including its wastewater treatment plant and the outfalls, are in close proximity to the aforementioned CBTF priority beaches.

2. Provide data on the number of postings and closures by year and the population affected for at least two years. Additional data should be included if available.

Answer: The Fitzgerald State Marine Park ranked among the highest visited areas among popular intertidal sites in California. Studies show that annual attendance at the Park exceeds 100,000 per year, and once peaked at over 130,000 people in 1997. Additionally, 20 percent of the visitors to the reserve are school groups. Annual attendance at the three beaches is estimated to be over 200,000 people. According to US Environmental Protection Agency (US EPA) the three beaches were either under contamination advisory postings or closed for a total of 747 days (30 percent of the time) between 2000 and 2006. Almost all incidents were caused by elevated bacterial levels associated with sewage spillage and stormwater runoff. These incidents have affected over 0.58 million visitors, not including the impact on local commercial ventures. Attachment 5, 'Water Quality Data', provides a summary of the posting and closure incidents of each beach.

3. What is the water quality problem(s) the project is proposing to solve?

Answer: The proposed Project focuses on the elimination of stormwater runoff and SSO-induced fecal contamination at the three CBTF priority beaches. These beaches are in close proximity to SAM's wastewater conveyance and treatment facilities. Evidence suggests that leaky or aged sewer laterals provide the most contribution to the infiltration of stormwater into sanitary sewers that leads manholes to overflow. SAM has had numerous experiences of manholes in the beach vicinity overflowing during wet weather and causing beach contamination and subsequent closures. SAM's Portola Pump Station, located in the Pillar Point Harbor Beach proximity, does not have the capability to process the excess stormwater received during wet weather. Excess inflows often force the wastewater treatment plant to shut down, greatly increasing the potential of raw sewage discharge into the Pacific Coast.

4. Describe the impaired waters, their beneficial uses, and the water quality problem(s) that interfere with the beneficial uses of those waters. Beneficial uses associated with a water body can be found in each RWQCB Basin Plan located on their website ([Appendix B of the Proposition 50 CBI Program Guidelines](#).)

Answer: The impaired waters have invaluable recreational and educational uses. The Fitzgerald Marine Reserve, Pillar Point Harbor Beach, and Venice Beach are some of the State's most popular beaches for swimming, wading, boating, kayaking, and surfing. The unique habitat of the reserve tidepools offers educational and research benefits. The world-famous Mavericks surfing competition takes place in this region. Pillar Point Harbor and Venice Beach are currently posted by the San Mateo county Environmental Health Department as a potential health hazard due to high bacterial levels exceeding the state standards. This contamination advisory posting has been in effect since 2003 and is expected to remain indefinitely, unless problems are resolved.

5. If necessary, provide additional problem definition information not addressed in the previous questions.

Answer: Lateral replacement is considered a key element to the success of this program as they are typically close to the ground surface and are infrequently checked for leakage. In addition, the proposed 600,000-gallon stormwater storage tank is designed to retain excess stormwater of a 10-year 6-hour return storm and to optimize the operation of the Portola pump station and the wastewater treatment plant, which ensures that sewage will be first effectively stored and then treated before it is discharged into the coastal zone.

6. Please indicate if you have attached a map or diagram depicting the project and watershed, and provided photographs of the proposed site. (Attachment 1)

Answer: YES

7. What are possible or known sources of bacteria or pathogens? Describe any studies or data collection efforts that have been done to confirm these conclusions. Attach copies of reports (or any data that might be available but unreported to data) on the "Attachments" tab of the FAAST application. (Attachment 5)

Answer: Water Quality Data (see Attachment 5) obtained from the San Mateo County Health Department, US EPA, and the Heal the Bay Association shows significant deterioration in beach water quality during the winter months. Almost all beach contamination advisory posting and closure incidents were caused by sewage or storm,

which suggest that the deteriorated water quality is closely related to stormwater runoff and/or manhole overflows.

8. What is the quantity and origin of the flow to be treated, if applicable?

Answer: The Project proposes a 600,000-gallon stormwater storage tank to retain the excess sewage. In addition, the Project also proposes to repair the leaky and aged sewer laterals and various critical facilities system-wide. These facilities convey over 4 million gallons of sewage daily. Leaky and aged facilities are vulnerable to stormwater infiltration and sewage overflow that subsequently cause beach zone contamination. The implementation of this Project eliminates or greatly reduced the potential of sewage spillage and stormwater infiltration, and ensures that the system will operate within its designed capacity to treat all sewage before discharging it into the Pacific Coast.

9. If necessary, provide additional information about the source of contamination that was not addressed in the previous questions.

Answer: The presence of certain contaminants typical of untreated sewage (total coliform, fecal coliform, enterococcus) in the beach water samples indicates a close connection between overflow events and beach contamination.

10. Provide a list and brief description of all major project work items and the associated schedule for completion of all major project work items. (Example: Project Design - October 2006)

Answer: The proposed Project consists of 11 components, including system-wide lateral replacement, facility repairs, and the construction of a new 600,000-gallon stormwater storage tank. Attachment 6, Project Cost and Schedule, provides a detailed cost breakdown and schedule of the project components.

11. Is this a phased project or part of larger project effort? Please explain the objectives, framework, and scheduling for the larger project. Note whether there is a commitment to complete the entire project.

Answer: Phased Project

Answer: The lateral replacement program of the proposed Project is a phased program. The proposed program, Phase I, is a pilot program designed to (1) identify and replace the 'hot spots' of the system, i.e. the leakiest and oldest laterals, (2) assess the cost-effectiveness of the project effort, and (3) obtain public participation for future phases, which is a system-wide lateral replacement program. Future phases will be planned based on sewer flow monitoring data collected during wet weather events following this program completion.

12. If applicable, describe any computer models, management practices, specialized testing, or other extraordinary methods and materials that will be implemented or used as part of this project.

Answer: Sewer flow monitoring will be used to identify the areas tributary to the manholes that contribute a greater amount of stormwater and to locate the laterals within those tributary areas that are most susceptible to stormwater inflow. This data will also be used to update the existing capacity model. The SCADA system will be updated to accommodate the modified system hydraulics incorporating the new stormwater storage tank.

13. Indicate the expected project benefits to water quality and beneficial uses.

Answer: This Project is expected to restore the year-round recreational and educational uses of three of the four CBTF Priority Beaches San Mateo County by significantly (by over 75 percent) reducing their postings and closings in winter months where sanitary sewer overflows are the cause of the closures. This Project will eliminate excess stormwater infiltration and inflow and reduce the amount and frequency of sanitary sewage overflow incidents during wet weather.

14. If necessary, provide additional information about the proposed solution that was not addressed in the previous questions.

Answer: This Project's major components address the very heart of the coastal contamination problem by both eliminating the potential of stormwater infiltration into the sewer system, and effectively storing the excess stormwater to prevent sanitary sewage spills into the Pacific Coast.

15. How do you propose to measure and document your project's benefits to water quality and beneficial uses (e.g., before and after concentrations of a constituent, percent load reduction, amounts of storm water captured, etc.)? Use the Project Performance Tables per Appendix F.III of the Proposition 50 CBI Program Guidelines to quantify. ([Attachment 4](#))

Answer: Please refer to Attachment 4, Project Assessment and Evaluation Plan for Load Reduction. This document describes the planned data collection activities to quantify the project performance.

16. If applicable, describe if the project is an integral part of a larger project, or how it provides multiple benefits.

Answer: The Project provides multiple benefits to the public in the following ways: (1) Improves coastal water quality and protects coastal aqua-habitat by eliminating potential sanitary sewage overflow (SSO) incidents through the construction of the new 600,000-gallon stormwater storage tank. (2) Protects public health by eliminating sewage infiltration into the beach zone by replacing leaky sewage laterals. (3) Protects local economics by reducing beach posting and closure incidents due to sewage contamination. (4) Improves public service by ensuring the efficient operation of the Portola pump station and the wastewater treatment plant during wet

weather.

- 17. Indicate if this project is implementing a Total Maximum Daily Load (TMDL). If YES, identify the TMDL by name and impaired water body.**

Answer: NO

Answer:

- 18. Is the project located in an area of special biological significance (ASBS)? (Select YES or NO from the drop down menu.) If YES, identify the ASBS in the box below and briefly describe how your project will benefit the ASBS. A list of ASBSs is available on-line at: <http://www.waterboards.ca.gov/plnspols/asbs.html>.**

Answer: YES

Answer: Yes. The Project is located in ASBS No.9: James V. Fitzgerald Marine Reserve. The Marine Reserve is located at the north point of SAM's service area. On average, over 10 sanitary sewage overflow (SSO) incidents occur every year in the area, and some have directly impacted the Marine Reserves. The proposed Project would reduce the frequency and volume of SSO incidents by replacing aged laterals and repairing the failing facilities of the system. In addition, the new 600,000-gallon stormwater storage tank would effectively eliminate the potential of excess stormwater overloading the Portola pump station that could subsequently result in the direct discharge of raw sewage from the wastewater treatment plant into Pacific coastal waters.

- 19. If applicable, describe the Project's consistency with the existing coho salmon, steelhead trout, or other threatened or endangered species recovery plans. Describe how the Proposal seeks to implement actions specified in those plans.**

Answer: The Project will not impact the coastal aqua-habitat. This Project is aimed to restore and protect the coastal condition. Steelhead trout live in the coastal zone that the Project aims to protect and the implementation will improve the condition of their habitat.

- 20. Does the project improve water quality in a disadvantaged community? (Select YES or NO from the drop down menu.) If YES, the applicant must complete Request for [Disadvantaged Community Status](#). (Attachment 6)**

Answer: NO

Answer: There is no disadvantaged community located in SAM's service area.

- 21. Provide the status of all environmental documents required for the project. All projects that require CEQA compliance will be allowed to retroactively use grant funds for reimbursement of CEQA costs, provided the costs were incurred after the adoption of the Recommended Project List. If draft CEQA documents are available, please submit documents as part of [Attachment 2](#).**

Answer: Project components of the lateral replacement program and facility repair qualify for categorical exemption under CEQA. The 600,000-gallon underground stormwater storage tank will require further environmental review. Attachment 2, Environmental Clearance Checklist and CEQA Documentation, lists the proposed schedule for the required environmental review.

- 22. List any permits, approvals, or design standards that must be obtained/met before the project can be implemented. (All grant recipients will be required to certify prior to final disbursement that they have obtained all necessary permits and approvals required to construct their projects.)**

Answer: SAM will submit CEQA exemption applications for the Project and prepare the necessary environmental review documents to obtain the Coastal Development Permit for the stormwater storage tank. SAM anticipates completing the CEQA review process by March 2008. Sewer laterals will be replaced in conformance with the specifications of the SAM member agency with jurisdiction over the collection system at the lateral location. Construction permits will be obtained from San Mateo County in the unincorporated areas and the City of Half Moon Bay.

- 23. Is project planning and design complete?**

Answer: YES

Answer: SAM has completed the preliminary feasibility study for the project components. Conceptual design of the 600,000-gallon storage tank has been completed and final design will begin in February 2007. All other project components, including lateral replacement and facility repair, do not require substantial planning and design. These project components are anticipated to be completed within a 6-month period.

- 24. Have you or any Cooperating Entities applied for other funds from another program for this specific project? (This includes programs not administered by the State Water Board.) If YES, identify the the agency and program.**

Answer: YES

Answer: SAM has applied for the 2007 FEMA Pre-Disaster Mitigation Grant for the implementation of the 600,000-gallon stormwater storage tank. Federal share on this project component would be 75%.

25. Has the Applicant or any Cooperating Entities entered into a contract or grant agreement: (1) that was terminated; (2) in which funds were withheld by the State Water Board; or (3) that has been the subject of an audit in which there were findings regarding the management of the project or funds by the Applicant or a Cooperating Entity? If so, please explain in the box below, including actions taken to address the problem(s).

Answer: NO

Answer:

26. Is the Applicant or was the Applicant a party to a current or pending legal challenge to the State Water Board or Regional Water Board regulation or order, which either requires performance of the project, or though not required, whose terms or conditions would be satisfied in whole or in part by performance of the project? If YES, please explain in the box below. Note: Include the name and case number in your explanation.

Answer: NO

Answer:

27. The Project Director has read and understands the General Terms and Conditions of the Grant Agreement. If the Project Director does not agree with the Terms and Conditions, a grant award may be denied. (All applicants will be required to check the box and enter their initials in the text box below.)

Answer: Has read and Understands

Answer: JFF

Pre Award Attachments

Attachment Title

Date

[Attachment_1_Map](#)

1/29/2007 5:46:14 PM

[Attachment_2_EnviroChecklist](#)

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[Attachment_3_DraftGrantAgrmnt](#)

1/29/2007 5:55:03 PM

[Attachment_4_PerformanceTable](#)

1/29/2007 6:00:08 PM

[Attachment_5_WaterQualityData](#)

1/29/2007 6:00:47 PM

[Attachment_6_ProjectCostandSchedule](#)

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Post Award Attachments

Attachment Title

Date

Performance Measure Classification Data

Certification & Submission

Please read before signing and submitting application.

I certify under penalty of perjury that the information I have entered on this application is true and complete to the best of my knowledge and that I am an employee of the applicant authorized to submit the application on behalf of the applicant. I further understand that any false, incomplete or incorrect statements may result in the disqualification of this application. By signing this application, I waive and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent provided in this RFP.

Submitted by: Tatyana Yurovsky

Submitter initials TY

Submitted date: 1/31/2007 2:36:08 PM

If you have any questions, please [contact](#) us.