PUBLIC WORKS VENTURA COUNTY

COUNTY of VENTURA

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September 14, 2021

Board of Supervisors
County of Ventura
800 South Victoria Avenue
Ventura, CA 93009

Subject: **Approval of, and Authorization for the Director of Public Works Agency or Designee to Sign, an Amendment in the Amount of $65,000 to the Agreement with the Southern California Coastal Water Research Project for the Microbial Source Tracking Study for Channel Islands Harbor Beaches Bacteria Total Maximum Daily Load, for a New Not-to-Exceed Amount of $535,000. Project No. P6040528, Supervisorial District No. 5.**

Recommendations:

It is recommended that your Board:

1. Approve the Amendment to the Microbial Source Tracking Study for Channel Islands Harbor (CIH) Beaches Bacteria Total Maximum Daily Load (TMDL) Agreement with the Southern California Coastal Water Research Project (SCCWRP), Exhibit 1.

2. Authorize the Director of Public Works Agency, or designee, to execute the Amendment to the Agreement for Microbial Source Tracking Study for CIH Beaches Bacteria TMDL, Project No. P6040528.

Fiscal/Mandates Impact:

Mandatory:	Yes
Cite Authority:	Section 303 (d) of the Clean Water Act and State of California, California Regional Water Quality Control Board, Los Angeles Region (Regional Board) Order No. R4-2021-0105, NPDES Municipal Stormwater permit No. CAS004004
Source of Funding:	County Stormwater Program (Fund S130) - $21,666.67, District Zone 2 (Fund S720) - $21,666.67, City of Oxnard -$21,666.67
Funding Match Required:	No
Impact on Other Department(s):	None

Summary of Revenue and Total Costs	**FY 2021-22**	**FY 2022-23**
Revenue:	$43,333	$ 0
Costs:		
Direct	$65,000	$ 0
Indirect – Agency/Department	$0	$ 0
Indirect – CAP	$0	$ 0
Total Costs:	$65,000	$ 0
Net County Costs, including indirect	$21,667	$ 0
Recovered Indirect Costs	$0	$ 0

Current FY 2021-22 Budget Projections for County Stormwater Program – Unit 4095				
	Adopted Budget	Adjusted Budget	Projected Budget	Estimated Savings/(Deficit)
Appropriations	$2,073,900	$2,073,900	$2,073,900	$0
Revenue	$1,695,700	$1,695,700	$1,695,700	$0
Net Cost	$ 378,200	$ 378,200	$ 378,200	$0

Sufficient appropriations and revenue are available in the FY 2021-22 County Stormwater Program Adopted Budget.

Discussion:

Pursuant to the Federal Clean Water Act, the Los Angeles Regional Water Quality Control Board (LARWQCB), on November 1, 2007, established TMDL for Bacteria Indicators in Kiddie and Hobie Beaches. Exhibit 2 shows the Vicinity Map and Exhibit 3 shows the Location Map. The County of Ventura (County), City of Oxnard (City), and Ventura County Watershed Protection District (District) are identified among the responsible parties under this TMDL. The LARWQCB required the responsible parties to achieve Waste Load Allocations for wet weather as established by Resolution No. 2007-017 by December 18, 2018.

On December 10, 2019, your Board approved an Agreement between the County and Southern California Coastal Water Research Project (SCCWRP) for a Microbial Source Tracking Study for Channel Islands Harbor (Kiddie and Hobie) Beaches Bacteria Total Maximum Daily Load (TMDL). Between January 2018 and March 2019, SCCWRP staff, in collaboration with California State University Channel Islands, collected water samples during TMDL-defined wet weather days, i.e., during rainfall of 0.1 inches or greater and within 72 hours after completion of the eligible storm event, on-shore (along Kiddie and

Hobie Beaches) and off-shore including at the outfall of District's San Nicholas Pump Station (SNPS). Water quality samples were collected during 20 wet weather days for storm events with rainfall measured between 0.49 inches and 2.53 inches for TMDL bacteria indicators and human markers. The results indicated that moderate to high levels of bacteria and human marker contamination were ubiquitous and persistent both on-shore and off-shore following storm events. Sampling results did not show a noticeable gradient between the shoreline and directly offshore of the beaches. In addition, the temporal pattern suggested both local and remote sources were potential contributors to the contamination. High levels of human marker in the SNPS outfall suggested it was a point source of Kiddie Beach contamination during storm events and wet weather; however, concentrations were not high enough to explain levels observed in across the beaches; instead, exfiltration of contaminated groundwater possibly may be a significant source.

After data review and evaluation, SCCWRP proposed to investigate bacteria and human marker levels in storm drains feeding into SNPS. SCCWRP collected water quality samples during dry weather monitoring events in March and April 2019 and in wet weather monitoring events between December 2019 and March 2020. Bacteria indicators were high in almost all the sampled storm drain locations. Human markers were elevated in at least one sample in 90% of the sampled storm drain locations. Chemical indicators of sewage showed presence of short-lived ibuprofen in all sampled storm drain locations, suggesting recent sewage contamination. The study did not identify any hot spots but confirmed presence of biological and chemical markers of human sewage in the storm drain system. County Stormwater Program staff completed closed-circuit television (CCTV) video of the storm drain, which showed some imperfections, but no cross connections with the sanitary sewer. Sewage contaminated groundwater was concluded to be suspected as the transport vehicle of bacteria contamination at Kiddie Beach during wet weather.

Based on the study results, the next step is to evaluate bacteria and human marker contamination of groundwater near Kiddie and Hobie Beaches as determined by collecting water quality samples from six temporary wells located along the beaches. The cost of the groundwater special study sample collection and analysis proposed by SCCWRP is estimated at a not-to-exceed amount of $295,000. The cost of the study will be paid from the current Agreement fund balance of $230,000 and the Amendment, which increases the not-to-exceed amount of the Agreement by $65,000 (Exhibit 1). This Agreement is funded by the County, the City, the District, and Channel Islands Beach Community Services District. The Agreement is under a separate Amendment to MOA proposed under a separate agenda item for your Board's approval today.

Today we seek your Board's approval to execute the proposed Amendment to the Agreement with SCCWRP to provide additional funding for a groundwater quality special study at Kiddie and Hobie beaches.

This letter has been reviewed and approved by the County Executive Office, the Auditor-Controller's Office, and County Counsel.

If you have any questions regarding this item, please call Ewelina Mutkowska, Senior Stormwater Manager, at (805) 645-1382.

Sincerely,

Jeff Pratt, P.E.
Director

Attachments:

Exhibit 1: Amendment to the Agreement for Microbial Sources Tracking Study for Channel Islands Harbor Beaches Bacteria Total Maximum Daily Load
Exhibit 2: Kiddie Beach Vicinity Map
Exhibit 3: Kiddie Beach Location Map