Agenda Item # 8.1 For Board Meeting of: September 05, 2024

CITY OF SANTA ROSA BOARD OF PUBLIC UTILITIES

TO:BOARD OF PUBLIC UTILITIESFROM:MIKE PRINZ, DEPUTY DIRECTOR, REGIONAL WATER REUSE
OPERATIONS, SANTA ROSA WATERSUBJECT:PROJECT WORK ORDER AMENDMENT NO. 5 APPROVAL –
ENGINEERING SERVICES DURING CONSTRUCTION AND
REGULATORY COMPLIANCE SUPPORT FOR CONSTRUCTION
OF THE LAGUNA TREATMENT PLANT DISINFECTION
IMPROVEMENTS PROJECT WITH CAROLLO ENGINEERS

AGENDA ACTION: MOTION

RECOMMENDATION

It is recommended by the Transportation and Public Works Department and Santa Rosa Water that the Board of Public Utilities, by motion, approve Amendment No. 5 to Project Work Order No. A010014-2011-09 under the Master Professional Services Agreement with Carollo Engineers, Inc. of Walnut Creek to provide additional Engineering Services During Construction and regulatory compliance support for the Laguna Treatment Plant Disinfection Improvements Project in the amount of \$1,170,989 for a total contract amount not to exceed \$8,455,375.

EXECUTIVE SUMMARY

This proposed action will approve Project Work Order (PWO) Amendment No. 5 in the amount of \$1,170,989 to PWO No. A010014-2011-09 under the Master Professional Services Agreement with Carollo Engineers, Inc. of Walnut Creek to provide additional Engineering Services During Construction (ESDC) and regulatory compliance support during construction of the Laguna Treatment Plant Disinfection Improvements Project (Project).

Due to a longer construction duration than was contemplated when Carollo's original ESDC scope was developed for PWO Amendment 2 (A010014-2011-09B), in addition to a greater number of submittals, design clarifications, and requests for information during construction than was anticipated, the City needs to amend the existing PWO to increase the scope of ESDC in order to have Carollo continue supporting construction of the Project as the Engineer of Record.

PROJECT WORK ORDER AMENDMENT NO. 5 APPROVAL – ENGINEERING SERVICES DURING CONSTRUCTION AND REGULATORY COMPLIANCE SUPPORT FOR CONSTRUCTION OF THE LAGUNA TREATMENT PLANT DISINFECTION IMPROVEMENTS PROJECT WITH CAROLLO ENGINEERS Page 2 of 6

Additional services are also needed for unanticipated regulatory compliance support related to Division of Drinking Water (DDW) and Bay Area Air Quality Management District (BAAQMD) requirements.

BACKGROUND

Larger and/or more complex construction projects normally require support from the Engineer of Record (Design Engineer) due to requirements, materials, and equipment described in construction documents that are highly specific to the Project and/or are described in the documents with performance attributes. Due to the size and complexity of the Project, Carollo, as the Engineer of Record, was retained by the City to support the construction phase of the Project by providing Engineering Services During Construction (ESDC).

ESDC normally includes a range of services, most notably:

- 1. Submittal review to ensure materials and equipment to be supplied by the contractor will conform to performance attributes and design requirements specified in the contract documents,
- 2. Responses to Requests for Information for a wide range of potential topics related to the construction effort, and
- 3. Development and issuance of design clarifications where unforeseen conditions or revisions require additional information.

Note that ESDC do not fulfil the need for Construction Management (CM) of a construction project; ESDC are utilized in conjunction with CM services, which are typically provided by an independent party. In the case of the Project, CM services are provided by Psomas under a separate contract.

Carollo's original scope of work included time and budget to fulfill regulatory compliance requirements for the Project. Additional unanticipated efforts specific to the Project have been required by the DDW and the BAAQMD and are included in the proposed PWO Amendment.

PRIOR BOARD OF PUBLIC UTILITIES REVIEW

Note: Due to the extensive nature and lengthy history of the Project, this section of the staff report includes only those items previously considered by the Board that are directly related to services rendered by Carollo Engineers. A more extensive summary of other items related to the Project is presented in the staff report for the award of the construction contract on May 5, 2022, which is also mentioned below.

On January 7, 2016, the Board approved a Project Work Order No. A010014-2011-09 under the Master Professional Services Agreement with Carollo Engineers, Inc., to

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provide engineering services for the LTP Disinfection Improvements project.

On August 15, 2019, the Board approved Project Work Order Amendment No. 1 to Project Work Order No. A010014-2011-09 under the Master Professional Services Agreement with Carollo Engineers, Inc., to provide additional professional engineering services for the LTP Disinfection Improvements project.

On November 19, 2020, the Board approved Amendment No. 2 to Project Work Order No. A010014-2011-09 with Carollo Engineers to provide Engineering Services During Construction for the LTP Disinfection Improvements project.

On September 16, 2021, the Board approved Amendment No. 3 to Project Work Order No. A010014-2011-09 with Carollo Engineers for additional design services and supplier coordination for the LTP Disinfection Improvements project.

On May 5, 2022, the Board awarded construction contract C00284 to Shimmick Construction Company, Inc. (SCCI) in an amount of \$68,109,000.

ANALYSIS

The Notice to Proceed for the construction of the Project was issued to SCCI on June 20, 2022 and the Final Completion date is currently anticipated to be May 30, 2025.

Carollo's original ESDC PWO Amendment Scope was developed in 2020, well in advance of the actual bidding of the project, which occurred in 2022. The duration of the construction contract in 2020 was anticipated to be 30 months, however this duration was extended to 36 months just prior to bidding the construction contract. This difference in construction duration, as well as additional anticipated amount of project closeout time (4 months) has impacted Carollo's anticipated costs for project management and site visits.

Originally anticipated quantities of Submittal Reviews, Requests for Information, and Design Clarifications are proving to have been lower in Carollo's original ESDC scope than actual quantities for this Project are currently forecast to be upon completion of construction. Assumed versus currently anticipated final quantities are shown along with anticipated cost increases in Table 1, below.

Additionally, unanticipated DDW requirements for project specific details for the Title 22 Engineers Report, as well as development of a BAAQMD application for Authority to Construct were not originally anticipated but have recently been required for the Project. These costs are reflected in Table 1 also.

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	Original		Percent	Budget
Task	Anticipation	Current Forecast	Increase*	Increase
100 ESDC Project				
Management				
	30 months	40 months	33	\$49,402
200 Progress Meetings				
and Site Visits				
	30 months	40 months	33	\$94,956
	350	560		
300 Submittal Review	submittals	submittals	60	\$425,669
400 RFI Review	250 RFIs	500 RFIs	100	\$397,921
500 Design				
Clarifications	20 DCs	50 DCs	25	\$54,011
1000 Discipline				
Engineer Visits	\$62,218	\$95,505	40	\$27,287
001 Regulatory				
Compliance Project				
Management	\$451,951	\$519,744	15	\$67,793
009 Regulatory				
Compliance Support	\$107,900	\$161,850	50	\$53,950
			TOTAL	\$1,170,989

Table 1. Originally anticipated versus current forecast, various PWO tasks.

*Not proportionate in some cases; i.e. some individual review efforts by Carollo consumed less time than initially assumed, however forecasted quantities are larger.

City of Santa Rosa Council Policy 600-01, Selection of Professional Services and City Code Section 3-08.110, Award Authority, indicates that PWO Amendment. A010014-2011-09E requires approval by the Board of Public Utilities.

FISCAL IMPACT

The existing PWO with Carollo for the Project, including previously approved amendments, is \$7,284,386. The proposed amendment will increase the total contract value to \$8,455,375. See table 2 below for a contract summary.

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PWO Number	Approving		
Approval Date	Authority	Purpose/Need	Amount
A010014-2011-09			
01/07/2016	BPU	Initial design	\$2,803,599
A010014-2011-09A		Unanticipated design changes and	
08/15/2019	BPU	Tubbs fire delay	\$1,584,655
A010014-2011-09B			
11/19/2020	BPU	Original ESDC scope	\$2,131,132
A010014-2011-09C		Additional design changes, equipment	
09/16/2021	BPU	supplier coordination, and delays	\$750,000
A010014-2011-09D			
03/08/2022	Director	Title 22 Engineering Report Additions	\$15,000
A010014-2011-09E		Additional ESDC Scope and	
(proposed)	BPU	Regulatory Support	\$1,170,989
		TOTAL	\$8,455,375

Table 2.	Carollo Contra	act Summary, LT	P Disinfection Improve	ements Project
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This amendment will be funded with currently existing CIP appropriations. There are no further budgetary impacts.

ENVIRONMENTAL IMPACT

On November 6, 2003, the Board of Public Utilities certified the Final Environmental Impact Report (EIR) for the Incremental Recycled Water Program (IRWP).

The replacement of the UV disinfection facilities has been evaluated within the Laguna Plant Upgrade Component of the IRWP Program EIR, while other improvements proposed as part of the project, including diversion facilities, stormwater facilities, and a new electrical load center, were not.

In November 2020, to satisfy the requirements of the California Environmental Quality Act (CEQA), an addendum to the IRWP Program EIR was approved to address minor changes to the Laguna Plant Upgrade component including adding those proposed facilities that were not previously evaluated, as allowed by CEQA Guidelines Section 15162 and 15164. This effort also included adopting a Mitigation Monitoring Program (MMP) and approving the Project.

ATTACHMENTS

• Attachment 1 – PWO Amendment Scope and Fee

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<u>CONTACT</u>

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