

**CITY OF SANTA ROSA TRANSPORTATION AND PUBLIC WORKS
PROJECT WORK ORDER NO. A010014-2011-09F**

PROJECT NAME: **LAGUNA TREATMENT PLANT DISINFECTION IMPROVEMENTS**

CITY PROJECT MANAGER: **MIKE PRINZ**

CONSULTANT PROJECT MANAGER: **DOUG WING**

SCOPE OF SERVICE: See Consultant's Scope of Services/Proposal for Services and Fee Schedule dated **February 6, 2026**, attached as Exhibit B-1.

START DATE: **FEBRUARY 2026**

COMPLETION DATE: **FEBRUARY 2027**

CHARGE NUMBER FOR PAYMENT: **86638**

NOT-TO-EXCEED AMOUNT FOR THIS PROJECT:

\$557,000.00

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TERMS AND CONDITIONS: This Project Work Order is issued and entered into as of the last date written below in accordance with the terms and conditions set forth in the "Master Professional Services Agreement with Carollo Engineers, Inc., Agreement No. A010014," dated November 1, 2011, and "Project Work Order No. A010014-2011-09", dated January 21, 2016, and "Project Work Order No. A010014-2011-9A", dated September 30, 2019, and "Project Work Order No. A010014-2011-09B", dated November 19, 2020, "Project Work Order No. A10014-2011-09C", dated September 27, 2021, "Project Work Order No. A010014-2011-09D", dated March 8, 2022, and "Project Work Order No. A010014-2011-09E", dated September 11, 2024, which are hereby incorporated and made part of this Project Work Order. In the event of a discrepancy or conflict between the terms and conditions of the Project Work Order and the Master Agreement, the Master Agreement shall govern.

PROJECT WORK ORDER HISTORY

Original Project Work Order No. A010014-2011-09	Amount:	\$2,803,599.00
Amendment No. A010014-2011-09A	Amount:	\$1,584,655.00
Amendment No. A010014-2011-09B	Amount:	\$2,131,132.00
Amendment No. A010014-2011-09C	Amount:	\$ 750,000.00
Amendment No. A010014-2011-09D	Amount:	\$ 15,000.00
Amendment No. A010014-2011-09E	Amount:	\$1,170,989.00
Amendment No. A010014-2011-09F	Amount:	<u>\$ 557,000.00</u>
	Total:	\$9,012,375.00

CITY OF SANTA ROSA,
A Municipal Corporation

By: _____
Daniel J. Galvin III
Board of Public Utilities Chair

Date: _____

CAROLLO ENGINEERS, INC.,
A Delaware Corporation

By: Doug Wing
Doug Wing (Feb 26, 2026 07:04:09 PST)

Date: 02/26/2026

Name: Doug Wing

Title: Associate Vice President

By: Anne Prudhel

Date: 02/24/2026

Name: Anne Prudhel

Title: Executive Vice President

APPROVED AS TO FORM:

By: [Signature]
Santa Rosa City Attorney's Office

Attachments: Exhibit B-1 - Consultant's proposal and fee for services for this Project Work Order

Exhibit B-1

2795 Mitchell Drive
Walnut Creek, California 94598
P. 925-932-1710 / F. 925-891-9107
carollo.com



PWO Amendment
Change # 86638
MJD 2/9/2026

February 6, 2026

Mike Prinz
Deputy Director – Regional Water Reuse Operations
Santa Rosa Water
4300 Llano Road
Santa Rosa, CA 95407

Subject: Laguna Treatment Plant Disinfection Improvements Project PWO No. A010014-2011-09
Updated ESDC and Closeout Amendment Proposal

Dear Mr. Prinz:

Carollo Engineers has been working with the City for over 3 years on construction support for the ultraviolet (UV) light disinfection and diversion system improvements project. The project construction schedule has continued to be extended, and recent contractor updates show completion in early 2026. Project closeout tasks including record drawings will extend until the middle of 2026. As we have discussed, project delays and the number contractor submittals and RFI have increased the level of effort above that anticipated in our last amendment 18 months ago. The impact on the Engineering Services During Construction (ESDC) and Design project commissioning task budgets is outlined below.

ESDC Tasks

Task 1 ESDC Project Management. The original project construction duration was envisioned as 30 months. This was updated to 36 months in the final bid documents to reflect the delays that were experienced on other construction projects. It is anticipated that the project closeout will take 4 months once the project construction is completed. This will be the second increase in the overall project duration which started in 2022 with project closeout estimated by the middle of 2026. The requested task budget amendment is approximately 10 percent more than the previous amendment.

Task 2 ESDC Progress Meetings and Site Visits. The project duration for progress meetings and site visits has also increased based on the duration noted above and requires a 25 percent budget increase. The consultant time required for meetings has also increased as the project has transitioned to startup and closeout.

Task 3 Submittal Review. The original submittals review budget was based on a total of 350 submittals. Total submittals to date have increased to over 736 total submittals or approximately 216 percent more than budgeted through November 2025. This increased the required effort and will require a 10 percent budget increase.

Task 4 RFI/RFC Review. The original Request for Information/Clarification (RFI/RFC) review budget was based on 250 RFIs. Total RFIs to date have increased to 595 through November 2025, about 238% of the original number estimated. This increased the required effort and will require a 3 percent budget increase.

Task 5 Design Clarifications / Review of Requested Change Orders. The original Design Clarification (DC) budget was based on 20 DCs plus change order reviews. To date the total has increased to 50 DCs through November 2025. Although the projected number of DCs is higher than anticipated, the time spent on each DC has been

Mike Prinz
Santa Rosa Water
February 6, 2026

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less and change order review time has been minimal. Therefore, the projected budget increase is based on both the increased number and the budget since the previous amendment and requires a 2 percent budget increase.

Task 7 Start Up Assistance. Additional startup assistance is anticipated based on the new UV process and the new diversion system. This original task budget was proposed in 2015, and costs have escalated since the original proposal. In addition, startup assistance and training requirements have increased based on limited vendor training and the number of sessions required by City staff. Therefore, the increased cost and the time allocated to this task will require a budget increase.

Task 10 Discipline Engineer Observations and Factory Testing. Additional site visits and discipline engineer consultations have increased the time allocated to this task. The discipline engineer assistance for site acceptance and functional testing has been more intensive than anticipated in the last amendment. This increased the required effort and will require a 45 percent budget increase.

Design, Regulatory Compliance and Commissioning Tasks

Task 010 Commissioning. The original project commissioning task duration was exceeded due to the extended time for the project to be completed. This budget is based on the original 2015 proposal and costs have escalated since the original budget was developed. Specialty lab, testing supplies, and labor rates have all increased in the last 10 years, This increased the level of effort and budget by 60 percent.

Task 011 O&M Training The original project O&M training budget was exceeded due to the additional staff training required in addition to vendor training. This budget is based on the original 2015 proposal and costs have escalated since the original budget was developed. This increased the level of effort and budget by 25 percent

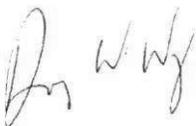
Amendment Budget Projection

The amendment budget projection is outlined on the attached table. In general, the budget projections are based on the increased scope and duration noted above. A budget amendment is requested for the total amount noted. Overall, the requested amendment is about a 7% increase over the previously amended PWO budget.

If you have any questions or comments concerning this budget amendment request, please feel free to contact me.

Sincerely,
Carollo Engineers

Principal Engineer / Associate Vice President
Douglas Wing, P.E.



Mike Prinz
Santa Rosa Water
February 6, 2026

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Water Reuse Fellow and Chief Technologist / Vice President
Andrew Salvesson, P.E.

A handwritten signature in black ink that reads "Andrew Salvesson". The signature is written in a cursive, flowing style.

DW:dww

cc:

Anne Prudhel – Carollo Engineers



PROPOSED COMPLETION AMENDMENT
Carollo Engineers

January 29, 2026
 Project No.
 08871G10M/08871G20M

Laguna Treatment Plant Long Term Disinfection Improvement ESDC
WO 08871G20 ESDC Professional Services for the Period Ending December 31, 2025

Carollo Tasks	Task Description	Overall	With Unbilled	Over All Task	Percent Budget Used	Budget	Amendment	Revised	Revised
		Total	Dec-25	Budget (1)		Remaining (2)	Amount	Budget	Remaining
000100	Project Management	\$ 185,896.15	\$ 187,678.70	\$ 199,105.00	94.3%	\$ 11,426.30	\$ 20,000.00	\$ 219,105.00	\$ 31,426.30
000200	Progress Meeting and Site Visits	\$ 468,011.64	\$ 474,867.47	\$ 382,700.00	124.1%	\$ (92,167.47)	\$ 95,000.00	\$ 477,700.00	\$ 2,832.53
000300	Submittal Review	\$ 1,240,341.41	\$ 1,253,217.81	\$ 1,135,117.00	110.4%	\$ (118,100.81)	\$ 129,000.00	\$ 1,264,117.00	\$ 10,899.19
000400	RFI Review	\$ 814,198.72	\$ 820,391.26	\$ 795,842.00	103.1%	\$ (24,549.26)	\$ 25,000.00	\$ 820,842.00	\$ 450.74
000500	Design Clarifications	\$ 274,266.87	\$ 277,416.37	\$ 270,056.00	102.7%	\$ (7,360.37)	\$ 5,000.00	\$ 275,056.00	\$ (2,360.37)
000600	Record Drawings	\$ 2,991.00		\$ 118,786.00	2.5%	\$ 115,795.00	\$ -	\$ 118,786.00	\$ 115,795.00
000700	Start Up Assistance	\$ 76,717.37	\$ 94,455.99	\$ 40,990.00	230.4%	\$ (53,465.99)	\$ 105,000.00	\$ 145,990.00	\$ 51,534.01
000800	O&M Manual	\$ -		\$ 112,263.00	0.0%	\$ 112,263.00	\$ -	\$ 112,263.00	\$ 112,263.00
000900	Project Closeout	\$ -		\$ 30,014.00	0.0%	\$ 30,014.00	\$ -	\$ 30,014.00	\$ 30,014.00
001000	Discipline Engineer Review	\$ 117,607.16		\$ 95,505.00	123.1%	\$ (22,102.16)	\$ 45,000.00	\$ 140,505.00	\$ 22,897.84
001100	Contingency Authorized	\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Total Contract		\$ 3,180,030.32		\$ 3,180,378.00	100.0%	\$ (48,247.76)	\$ 424,000.00	\$ 3,604,378.00	\$ 375,752.24

Laguna Treatment Plant Long Term Disinfection Improvement Design, Training and Commissioning
WO 08871G10 Design Professional Services for the Period Ending December 31, 2025

Carollo Tasks	Task Description	Overall	With Unbilled	Over All Task	Percent Budget Used	Budget	Amendment	Revised	Revised
		Total	Dec-25	Budget (1)		Remaining (2)	Amount	Budget	Remaining
001	Project Management	\$ 500,659.12	\$ 501,724.12	\$ 519,744.00	96.5%	\$ 18,019.88	\$ -	\$ 519,744.00	\$ 18,019.88
002	Background Information Review	\$ 221,233.35		\$ 189,015.00	117.0%	\$ (32,218.35)	\$ -	\$ 189,015.00	\$ -32,218.35
003	Preliminary Design	\$ 255,058.75		\$ 254,113.00	100.4%	\$ (945.75)	\$ -	\$ 254,113.00	\$ -945.75
004	UV Equipment Procurement	\$ 194,569.25		\$ 172,313.00	112.9%	\$ (22,256.25)	\$ -	\$ 172,313.00	\$ -22,256.25
005	Hypo and Diversion Final Design	\$ 1,440,488.63		\$ 1,463,794.00	98.4%	\$ 23,305.37	\$ -	\$ 1,463,794.00	\$ 23,305.37
006	UV Design	\$ 1,630,801.79		\$ 1,567,102.00	104.1%	\$ (63,699.79)	\$ -	\$ 1,567,102.00	\$ -63,699.79
007	Final Design Meetings	\$ 118,108.83		\$ 93,741.00	126.0%	\$ (24,367.83)	\$ -	\$ 93,741.00	\$ -24,367.83
008	Bid Period Services	\$ 145,748.49		\$ 124,368.00	117.2%	\$ (21,380.49)	\$ -	\$ 124,368.00	\$ -21,380.49
009	Regulatory Compliance	\$ 160,806.00		\$ 161,850.00	99.4%	\$ 1,044.00	\$ -	\$ 161,850.00	\$ 1,044.00
010	Commissioning	\$ 100,820.75	\$ 129,325.75	\$ 173,918.00	74.4%	\$ 44,592.25	\$ 108,000.00	\$ 281,918.00	\$ 152,592.25
011	O&M Training	\$ 97,188.32	\$ 97,443.32	\$ 98,548.00	98.9%	\$ 1,104.68	\$ 25,000.00	\$ 123,548.00	\$ 26,104.68
012	Geyers Pipeline Prechlorination	\$ -		\$ -		\$ -	\$ -	\$ -	\$ 0.00
013	Contingency	\$ 199,516.46		\$ 250,000.00	79.8%	\$ 50,483.54	\$ -	\$ 250,000.00	\$ 50,483.54
014	VE Review (2)	\$ 117,075.00		\$ 117,075.00	100.0%	\$ -	\$ -	\$ 117,075.00	\$ 0.00
015	Hypo Testing Assistance (3)	\$ 89,416.13		\$ 89,416.00	100.0%	\$ (0.13)	\$ -	\$ 89,416.00	\$ -0.13
Total Contract		\$ 5,271,490.87		\$ 5,274,997.00	99.9%	\$ (26,318.87)	\$ 133,000.00	\$ 5,407,997.00	\$ 106,681.13
Total Amendment				\$ 8,455,375.00		\$ (74,566.63)	\$ 557,000.00	\$ 9,012,375.00	\$ 482,433.37

Notes:

- Budget is based on PWO Santa Rosa A010014-2011-09B and 09E signed in September 2024
- Based on September 30, 2025 budget status

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**CAROLLO ENGINEERS, INC.
FEE SCHEDULE**

**City of Santa Rosa
LTP Disinfection Improvements**

**As of January 1, 2026
California**

	<u>Hourly Rate</u>
Engineers/Scientists	
Assistant Professional	\$223.00
Professional	274.00
Project Professional	324.00
Lead Project Professional	340.00
Senior Professional	360.00
Technicians	
Technicians	168.00
Senior Technicians	233.00
Support Staff	
Document Processing / Clerical	149.00
Project Equipment Communication Expense (PECE) Per DL Hour	15.00
Other Direct Expenses	
Travel and Subsistence	at cost
Mileage at IRS Reimbursement Rate Effective January 1, 2024	\$0.70 per mile
Subconsultant	cost + 5%
Other Direct Cost	cost + 5%
Expert Witness	Rate x 2.0

This fee schedule is subject to annual revisions due to labor adjustments.

A010014-2011-09F Laguna Treatment Plant Disinfection Improvements

Final Audit Report

2026-02-20

Created:	2026-02-17 (Pacific Standard Time)
By:	Joyce Brandvold (JBrandvold@srcity.org)
Status:	Approved
Transaction ID:	CBJCHBCAABAHN8xeCVjODMi7eoFHc53uFFSEj9TQKwX

"A010014-2011-09F Laguna Treatment Plant Disinfection Improvements" History

-  Document created by Joyce Brandvold (JBrandvold@srcity.org)
2026-02-17 - 1:50:00 PM PST
-  Document emailed to Mike Prinz (mprinz@srcity.org) for approval
2026-02-17 - 1:53:21 PM PST
-  Document approved by Mike Prinz (mprinz@srcity.org)
Approval Date: 2026-02-20 - 2:38:54 PM PST - Time Source: server
-  Agreement completed.
2026-02-20 - 2:38:54 PM PST

A010014-2011-09F Laguna Treatment Plant Disinfection Improvements

Final Audit Report

2026-02-26

Created:	2026-02-23 (Pacific Standard Time)
By:	Joyce Brandvold (JBrandvold@srcity.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAABiH3UpiBH7dxzqjtAWD3W5tDloWezqsU

"A010014-2011-09F Laguna Treatment Plant Disinfection Improvements" History

-  Document created by Joyce Brandvold (JBrandvold@srcity.org)
2026-02-23 - 8:54:03 AM PST
-  Document emailed to Doug Wing (dwing@carollo.com) for signature
2026-02-23 - 8:56:12 AM PST
-  Document emailed to Anne Prudhel (aprudhel@carollo.com) for signature
2026-02-23 - 8:56:13 AM PST
-  Email viewed by Anne Prudhel (aprudhel@carollo.com)
2026-02-23 - 10:17:28 AM PST
-  Document e-signed by Anne Prudhel (aprudhel@carollo.com)
Signature Date: 2026-02-24 - 9:00:26 AM PST - Time Source: server
-  Email viewed by Doug Wing (dwing@carollo.com)
2026-02-26 - 7:02:46 AM PST
-  Document e-signed by Doug Wing (dwing@carollo.com)
Signature Date: 2026-02-26 - 7:04:09 AM PST - Time Source: server
-  Agreement completed.
2026-02-26 - 7:04:09 AM PST

A010014-2011-09F Laguna Treatment Plant Disinfection Improvements

Final Audit Report

2026-03-02

Created:	2026-02-26 (Pacific Standard Time)
By:	Joyce Brandvold (JBrandvold@srcity.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAAPKDxB7m1Cu5e4SQNw2KqEFyBPQmDNnau

"A010014-2011-09F Laguna Treatment Plant Disinfection Improvements" History

-  Document created by Joyce Brandvold (JBrandvold@srcity.org)
2026-02-26 - 7:08:12 AM PST
-  Document emailed to Stephanie Velazquez (SVelazquez@srcity.org) for delegation
2026-02-26 - 7:08:49 AM PST
-  Document signing delegated to Hannah Ford-Stille (hfordstille@srcity.org) by Stephanie Velazquez (SVelazquez@srcity.org)
2026-02-26 - 8:18:44 AM PST
-  Document emailed to Hannah Ford-Stille (hfordstille@srcity.org) for signature
2026-02-26 - 8:18:44 AM PST
-  Document e-signed by Hannah Ford-Stille (hfordstille@srcity.org)
Signature Date: 2026-03-02 - 10:51:46 AM PST - Time Source: server
-  Agreement completed.
2026-03-02 - 10:51:46 AM PST