

AGENDA
**FOR THE REGULAR MEETING OF THE
CARPINTERIA SANITARY DISTRICT GOVERNING BOARD
TO BE HELD September 15, 2026**

The regular meeting of the Governing Board will be held commencing at 5:30 p.m. The location of the meeting is at 5300 Sixth Street, Carpinteria, CA.

The public is encouraged to participate in one of the following ways:

1. Submitting a Written Comment. If you wish to submit a written comment, please email your comment to the Board Clerk at kimg@carpsan.com by **3:00 P.M. on the day of the meeting**. Every effort will be made to read your comment into the record, but some comments may not be read due to time limitations.
2. Attend the in-person meeting at the Carpinteria Sanitary District Board room.

I. CALL TO ORDER

II. PLEDGE OF ALLEGIANCE

III. BOARD APPROVAL OF AGENDA AS [SUBMITTED] [MODIFIED]
Board President asks the Board, public, staff, and legal counsel if there are any additions and/or modifications to the Agenda.

IV. APPROVAL OF MINUTES AS [SUBMITTED] [MODIFIED]
September 1, 2026

V. PUBLIC FORUM
The public may address the Governing Board on items of interest to the public which are not already on this evening's agenda and are within the subject matter jurisdiction of the Board. The time allotted for this discussion shall be pursuant to Board Bylaws.

VI. MATTERS BEFORE THE BOARD

A. GENERAL REPORTS:

1. General Manager's Status Report (Pages 1-5)

Description: General Manager to review his written report regarding the following issues:

- Staffing Updates
- Collection System Rehabilitation Project Update
- SAMA Meeting Report
- CAPP Construction Updates
- Health Net Group Coverage Termination
- Operations Updates

2. Financial Status and Transaction Report

(Pages 6-16)

Description: District Administrator to review the monthly financial status and transaction reports.

Staff Recommendation: None. Information Only.

3. Cash Contract No. 537 – Raftelis Financial Consultants, Inc. Sewer Rate and Development Impact Fee Study Update (Pages 17-38)

Description: The Board to review and consider approving Cash Contract No. 537 for financial consulting and preparation of a Sewer Rate and Development Impact Fee Study between the Carpinteria Sanitary District and Raftelis Financial Consultants, Inc. of Los Angeles, California.

Staff Recommendation: Staff recommends that the Board approve and execute Cash Contract No. 537 with Raftelis Financial Consultants, Inc. for financial planning and preparation of a Sewer Rate and Development Impact Fee Study with a not to exceed contract amount of \$74,620 and authorize the General Manager to execute an agreement in a form approved by District Counsel.

4. Cash Contract No. 538 – Water Systems Consulting, Inc. Collection System Master Plan Update (Pages 39- 62)

Description: The Board will review and consider approval of Cash Contract No. 538 between the Carpinteria Sanitary District and Water Systems Consulting, Inc. for a Collection System Master Plan Update and amend the project budget to a total of \$150,000.

Staff Recommendation: That the Board review and approve Cash Contract No. 538 with Water Systems Consulting, Inc. for an updated Collection System Master Plan with a not to exceed contract amount of \$149,936 and increase the budget for CIP Project P-241 to \$150,000.

VII. BOARD ITEMS

A. COMMITTEE REPORTS

Description: Verbal reports by the committee chairperson(s) of the following committees:

- Standing Finance Committee
- Standing Personnel Committee
- Standing Public Relations Committee
- Standing Utilities Committee
- Standing Recycled Water Committee

B. GENERAL ITEMS

1. SBCSDA (Santa Barbara – California Special Districts Association) Report
2. Board Member Vacation Dates
3. Future Agenda Items

VIII. ADJOURNMENT

FURTHER INFORMATION AVAILABLE

A staff report providing more detailed information is available for most agenda items and may be reviewed in the District office during regular hours (Monday - Friday from 8:00 a.m. to 12:00 p.m. and/or 1:00 p.m. to 5:00 p.m.). Copies of individual reports may be requested at this office. Call (805) 684-7214 extension 110 for more information.

In compliance with the Ralph M. Brown Act and the Americans with Disabilities Act, if you need a disability-related modification, accommodation, or other special assistance to participate in this meeting, please contact the District's Board Secretary at (805) 684-7214, extension 111, at least 48 hours prior to the start of the meeting.

Next Ordinance Available.....#21
Next Resolution Available.....R-391
Posting Date.....9/11/2026

**MINUTES OF THE REGULAR MEETING OF THE
CARPINTERIA SANITARY DISTRICT GOVERNING BOARD
September 1, 2026**

These are the **minutes** of the **regular** meeting of the Governing Board of the Carpinteria Sanitary District in the City of Carpinteria, County of Santa Barbara, and State of California.

The Governing Board of the Carpinteria Sanitary District held a regular meeting on **September 1, 2026**, at 5:30 p.m. at its District administrative office located at 5300 Sixth Street, Carpinteria, California.

The agenda notice for this meeting, including instructions for the public to provide comments, was posted in the front window of the administrative office of the Carpinteria Sanitary District and on the District's website at least 72 hours in advance of the meeting.

I. CALL TO ORDER

President Murphy called the meeting to order at 5:30 p.m. and noted that all director's were present at tonight's meeting.

Directors Present: Debbie Murphy– President
 Lin Graf – President Pro-Tem
 Mike Modugno – Secretary
 Gerald Velasco – Secretary Pro-Tem
 Michael Damron - Treasurer

Staff Present: Craig Murray – General Manager
 Kim Garcia – District Administrator/Board Clerk

Legal Counsel
Present: Karl Berger – Burke, Williams & Sorenson (by Zoom video-conference)

Public Present: None

II. PLEDGE OF ALLEGIANCE

President Murphy led the Pledge of Allegiance.

III. BOARD APPROVAL OF AGENDA

President Murphy asked if there were any modifications and/or changes to the agenda. Hearing none, the agenda was approved as submitted.

IV. BOARD APPROVAL OF MINUTES OF THE MEETING OF July 28, 2026

Director Damron made a motion, seconded by Director Velasco that the Board approve the minutes of the July 28, 2026 Special Board meetings as presented. The motion carried by the following vote:

AYES:	5	Velasco, Murphy, Graf, Modugno, Damron
NOES:	0	None
ABSENT:	0	None
ABSTAIN:	0	None

V. PUBLIC FORUM

None

VI. MATTERS BEFORE THE BOARD

A. GENERAL REPORTS:

1. General Manager's Status Report

General Manager reviewed his written report regarding the following items:

- Staffing Updates
- November 3rd General Election Update
- Vandalism Report
- CASA Annual Conference
- WateReuse California 2026 Conference
- Rate and Fee Study Development
- Sewer Master Plan Update
- APCD Clean Air Grants Program
- Operations Updates

2. Financial Status and Transaction Report

District Administrator reviewed the staff report related to Financial Status and Transaction Reports.

No Board action was taken on this item.

3. New Portable Trash Pump Purchase Authorization

General Manager reviewed his staff report related to authorizing procurement of a new Godwin CD150S 6-inch trailer mounted pump through HGAC Contract CM02-21 and declare the existing pump it will replace as surplus equipment.

If approved, staff will issue a purchase order for \$73,821.44 to Xylem, based on their quotation, for the replacement pump.

Director Damron made a motion, seconded by Director Modugno that the Board authorize the purchase of a new 6-inch Godwin portable trash pump from Xylem through the HGAC cooperative procurement program as proposed and declare pump P-6 as surplus equipment. The motion carried by the following vote:

AYES:	5	Murphy, Damron, Velasco, Graf, Modugno
NOES:	0	None
ABSENT:	0	None
ABSTAIN:	0	None

4. Cash Contract No. 536 – James C. Cushman, Inc. - Influent Structure and Primary Bypass Emergency Repairs

General Manager reviewed his staff report related to Cash Contract No. 536 between the Carpinteria Sanitary District and James C. Cushman, Inc. for emergency repair services within the District's treatment facility.

If approved, Cash Contract No. 536 would engage Cushman to perform the influent structure repairs and to replace the coupler gaskets on the primary bypass piping on a time and material reimbursement basis with a not to exceed amount of \$60,000.

Director Velasco made a motion, seconded by Director Graf, that the Board approve Cash Contract No. 536 between the Carpinteria Sanitary District and James C. Cushman, Inc. as presented. The motion carried by the following vote:

AYES:	5	Murphy, Damron, Velasco, Graf, Modugno
NOES:	0	None
ABSENT:	0	None
ABSTAIN:	0	None

District Counsel left the meeting.

5. Minimum Mandatory Penalty Settlement Administrative Civil Liberty Order R3-2026-0060

General Manager reviewed his staff report related to accepting a settlement offer and waiver of hearing related to assessment of a minimum mandatory penalty of \$3,000 for a single effluent limit excursion reported by the District in August 2025.

Director Damron made a motion, seconded by Director Modugno, that the Board authorize the General Manager to accept the Settlement Offer and Waiver of Right to Hearing for the subject Order and to pay the associated minimum mandatory penalty. The motion carried by the following vote:

AYES:	5	Murphy, Damron, Velasco, Graf, Modugno
NOES:	0	None
ABSENT:	0	None
ABSTAIN:	0	None

6. CalPERS Actuarial Study and Pension Plan Performance Review

General Manager reviewed the provided materials regarding the District's CalPERS Actuarial Study and pension plan performance.

No Board action was taken on this item.

7. Carpinteria Advanced Purification Project

General Manager provided an update related to the Carpinteria Advanced Purification Project.

No Board action was taken on this item.

VII. BOARD ITEMS

A. COMMITTEE REPORTS

Standing Finance Committee

Director Damron reported on the meeting held August 17, 2026.

Standing Personnel Committee

None.

Standing Public Relations Committee
None.

Standing Utilities Committee
None.

Standing Recycled Water Committee
None.

B. GENERAL ITEMS

SBCSDA (Santa Barbara California Special Districts Association) Report
None

CSRMA Report
None.

Board Member Vacation Dates
None

Future Agenda Items
None

VIII. ADJOURNMENT

There being no further items to discuss, the meeting adjourned at 6:15 p.m.

Debbie Murphy
President

Lin Graf
President Pro-Tem

Mike Modugno
Secretary

Gerald Velasco
Secretary Pro-Tem

Mike Damron
Treasurer



Carpinteria Sanitary District

Board of Directors Meeting
General Manager's Status Report

TO: Board of Directors

FROM: Craig Murray, P.E. – General Manager

SUBJECT: General Manager's Status Report

DATE: September 15, 2026

Staffing Updates. An offer was extended and accepted for the new Electrical/Instrumentation Technician position. Background checks are underway but we expect to have a new team member on board in the near future. Staff is regrouping on the Wastewater Operator Grade 3 / 4 recruitment and pursuing other avenues to find qualified candidates.

Collection System Rehabilitation Project Update. Insituform mobilized a crew and completed pre-installation hydrocleaning and CCTV inspection of all of the pipes scheduled for renewal. The CIPP lining work is scheduled to begin on October 20th and be completed by the first week of November.

SAMA Meeting Report. The District hosted the September 9th meeting of the Sanitation Agency Managers' Association. Kevin Thompson of Laguna County Sanitation District gave a presentation on ADUs, specifically the assessment of capacity or connection fees. Several agencies do charge a proportional DIF for new ADUs under certain circumstances (we will revisit this topic in our upcoming rate and fee study). A lively roundtable discussion on this and other topics followed. I then gave a short presentation on CAPP construction activities and a brief tour of the site.

CAPP Construction Updates. Deep soil mixing work has been completed in the process building footprint and all DSM equipment was demobilized. A Coastal View News article on September 3rd provide details on this milestone. The ground improvement contractor, AGI, has moved to installation of the helical anchor system for the equalization tank. Walsh coordinated two workshops with the project team with focus on the reverse osmosis system design and SCADA integration. Sam Hill and Sons began construction of the 10-inch diameter pure water pipeline in Olive Avenue near the treatment plant entrance on September 9th. Installation continued onto 6th Street by the end of last week.

Health Net Group Coverage Termination. The District received notice from Health Net that they will be exiting the commercial group health plan market in California and that our coverage will terminate at the end of February 2027. This is mid-term for our existing policy year. See attached notice. We have met with our broker at JHC to discuss our options, which have become increasingly limited and will undoubtedly have fiscal implications. This matter will be reviewed with the Board Personnel Committee in the near term but I wanted to inform the Board without delay.

Operations Update

System operations updates are as follows:

- The treatment plant is operating well and in full compliance with our NPDES discharge permit.
- Annual priority pollutant sampling required for NPDES permit compliance was completed and results have been uploaded to our operational management database.
- Staff is continuing to address a VFD issue at Lift Station No. 2. A backup drive that we had on the shelf was not functional and it was necessary to order a new VFD for this location.
- The collection system is operating normally with no mainline blockages or other operational issues reported.
- The County of Santa Barbara is now constructing the main sewer extension in Santa Claus Lane that will serve a new public restroom to be located near the proposed western access point to Santa Claus Lane Beach.

CAPP project completes major soil stabilization work

Construction crews have completed an intensive three-week phase of work at the Carpinteria Sanitary District plant as part of the Carpinteria Advanced Purification Project, or CAPP.

The work focused on stabilizing the ground beneath the future advanced water purification facility, the main treatment component of the CAPP project, according to Carpinteria Sanitary District General Manager Craig Murray.

Crews used a process known as “deep soil mixing,” which involved specialty equipment mixing existing soil with cement to a depth of about 35 feet below grade. The process creates a dense foundation intended to reduce the risk of settlement and damage from soil liquefaction during an earthquake.

“This provides a very dense foundation,” Murray said.

Deep soil mixing was selected instead of driving piles into the ground, which Murray said would have created significantly greater impacts for nearby residents.

The work brought a noticeable increase in activity around the sanitary district plant over the past month, including heavy equipment, dump trucks hauling soil from the site and frequent cement deliveries. A temporary concrete batch plant was also installed on site to support the work.

Murray acknowledged that the activity resulted in significant construction noise, including the frequent sound of backup alarms from trucks and heavy equipment.

Fortunately for neighbors, he said, the most disruptive phase of the project is now finished.

“The level of activity and associated noise has dropped off dramatically,” Murray said. “There will be some days throughout the project with similar action — like during concrete pours — but the worst part is over for sure with respect to neighbor impacts.”

CAPP is a joint effort involving the Carpinteria Valley Water District and Carpinteria Sanitary District that will treat wastewater to advanced purification standards, creating a new local water supply for the Carpinteria Valley.





Health Net of California, Inc.
PO Box 9103
Van Nuys, CA 91409-9103

1313 (331) 052083729812



CARPINTERIA SANITARY DISTRICT
KIM GARCIA
5300 6TH ST
CARPINTERIA, CA 93013-2463

CARPINTERIA

SEP 10 2026

SANITARY
DISTRICT

August 28, 2026

Policyholder ID:
173513

Notice of Cancellation, Rescission, or Nonrenewal

Health Net of California, Inc. (Health Net) Commercial Group Plans

Dear KIM GARCIA,

Please read all of this notice. It contains important information about your company's Health Net group health plan coverage. An email about this information was also sent to your company, if an email address was on file.

After careful consideration, Health Net has decided to discontinue offering commercial group health plans in California.

This includes the closure of all California Small Business and Large Group Medical Plans.

Health Net is making this change to focus on government-sponsored healthcare.

What this means for your group

The last day for your Health Net group coverage will be February 28, 2027. We are providing this notice in accordance with applicable regulation(s) at least 180 days in advance of the plan closures.

Eligible employees may continue to enroll in your current Health Net coverage through February 28, 2027.

(Continued)

What you need to do next

- Please begin planning now so your employees do not have a gap in coverage.
 - Contact your broker to review replacement coverage options.
 - Confirm your renewal timing and transition steps.
- **You are required to promptly notify your employees about the termination of their Health Net group coverage.**
 - We have enclosed an employee letter template. You can use this letter, or you can create your own, provided that your notice is accompanied by the enclosed “Right to Submit Grievance” and “Your Health Insurance Choices Are Different”.
 - Proof of employee notification will be needed.

Transition of Care

Employees who are currently undergoing an active course of treatment should discuss transition-of-care options with their new health plan upon enrollment. Employees’ new carriers may offer transition-of-care accommodations for ongoing treatment. We encourage your employees to coordinate with their new health plan to minimize any disruption in care.

Special Enrollment Period for employees

Impacted employees may qualify for a 60-day Special Enrollment Period (SEP) due to loss of coverage. The SEP will end 60 days after the employee’s last date of coverage. If the SEP applies

for an SEP.

If you have questions

We appreciate the opportunity to have served your organization and remain committed to supporting you through this transition. If you have questions, please reach out to your broker or agent of record. They will remain your primary point of contact and can coordinate directly with Health Net Account Management on your behalf, as needed.

Sincerely,
Health Net

Enclosures:

- Right to Submit Grievance
- Employee Letter Template
- Notice of Availability of Language Assistance Services

Health Net HMO, PPO and Salud con Health Net HMO y Más plans are offered by Health Net of California, Inc. Health Net of California, Inc. is a subsidiary of Health Net, LLC and Centene Corporation. Health Net and Salud con Health Net are registered service marks of Health Net, LLC. All other identified trademarks/service marks remain the property of their respective companies. All rights reserved.

LTRA_SBGLBGEMP (7/26)

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Carpinteria Sanitary District

Board of Directors Meeting

TO: Board of Directors

FROM: Kim Garcia – District Administrator

SUBJECT: Financial Status and Transaction Report

DATE: September 15, 2026

Disbursements/checks*. Review of disbursements/checks for the period of August 1 through August 31, 2026.

*Publication of the check register is in compliance with Section 53065.5 of the Government Code which requires the District to disclose reimbursements to employees and/or directors at least annually.

Operating Financial Report. Period of August 1 – August 31, 2026. The District operating account balances as of August 31, 2026. Shown are book balance figures to the nearest dollar and indicate the funds available to the District at the time of reconciliation for the period.

General and Payroll (MB&T)	\$ 594,778.46
Non-Restricted Investment Account (LAIF)	\$ 2,385,767.00
Non-Restricted Investment Accounts (CLASS)	\$ 5,484,080.22
Restricted Capital Improvement Fund (CLASS)	\$ 4,582,170.05
Development Impact Fund (CLASS)	\$ 39,245.16
Section 115 Trust Fund	\$ 571,830.05
Total	<u>\$ 13,657,870.94</u>
<i>Operating Expenditures</i>	
Period Total Wages and Benefits	\$ 236,646.67
Period Expenses	\$ 79,494.67
Total Period Operating Expenses	<u>\$ 316,141.34</u>

Finance Department Update

- Field audit will be 10/8-10/9/26

Report Criteria:

Report type: GL detail

Check.Type = {<>} "Adjustment"

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice Sequence	Invoice GL Account	Invoice Amount	Check Amount
46626									
08/26	08/03/2026	46626	1009	ADT SECURITY SERVICES	403982720_	1	1-0000-5490	210.17	210.17
Total 46626:									210.17
46627									
08/26	08/03/2026	46627	1045	APGN INC.	23466	1	1-1000-5650	1,624.85	1,624.85
Total 46627:									1,624.85
46628									
08/26	08/03/2026	46628	1890	AQUATIC INFORMATICS INC	119032	1	1-1000-5843	3,789.06	3,789.06
Total 46628:									3,789.06
46629									
08/26	08/03/2026	46629	1104	CA SANITATION RISK MGMT AU	7668	1	1-1000-5128	48,456.00	48,456.00
08/26	08/03/2026	46629	1104	CA SANITATION RISK MGMT AU	7668	2	1-0000-5128	16,000.00	16,000.00
08/26	08/03/2026	46629	1104	CA SANITATION RISK MGMT AU	7710	1	1-0000-5231	75,516.29	75,516.29
08/26	08/03/2026	46629	1104	CA SANITATION RISK MGMT AU	CW1144	1	1-0000-5231	248.60	248.60
08/26	08/03/2026	46629	1104	CA SANITATION RISK MGMT AU	CW1147	1	1-0000-5231	282.50	282.50
Total 46629:									140,503.39
46630									
08/26	08/03/2026	46630	1133	CARPINTERIA VALLEY LUMBER	1142_JULY2	1	1-1000-5650	7.73	7.73
08/26	08/03/2026	46630	1133	CARPINTERIA VALLEY LUMBER	1142_JULY2	2	1-1000-5510	15.65	15.65
08/26	08/03/2026	46630	1133	CARPINTERIA VALLEY LUMBER	1142_JULY2	3	1-1000-5650	7.07	7.07
Total 46630:									30.45
46631									
08/26	08/03/2026	46631	1143	CATTRON NORTH AMERICA, IN	50IV2601227	1	1-1000-5680	3,509.80	3,509.80
Total 46631:									3,509.80
46632									
08/26	08/03/2026	46632	1176	COASTAL COPY	1198387	1	1-0000-5610	299.53	299.53
Total 46632:									299.53
46633									
08/26	08/03/2026	46633	1198	COUNTY OF S.B.-PW WATER R	1089	1	1-0000-6032	148.00	148.00
Total 46633:									148.00
46634									
08/26	08/03/2026	46634	1204	COX COMMUNICATIONS	30110246412	1	1-0000-5843	13.00	13.00
08/26	08/03/2026	46634	1204	COX COMMUNICATIONS	30110246412	2	1-1000-5843	13.00	13.00
Total 46634:									26.00

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice Sequence	Invoice GL Account	Invoice Amount	Check Amount
46635									
08/26	08/03/2026	46635	1366	HAAKER EQUIPMENT COMPAN	43394	1	1-1000-5610	818.71	818.71
Total 46635:									818.71
46636									
08/26	08/03/2026	46636	1950	HOLT RENEWABLES LLC	1255	1	1-0000-1820	98,718.30	98,718.30
Total 46636:									98,718.30
46637									
08/26	08/03/2026	46637	1501	MARTIN FAMILY DENTISTRY	BROAD_7.27	1	1-1000-5127	290.40	290.40
Total 46637:									290.40
46638									
08/26	08/03/2026	46638	1507	MC CORMIX CORP.	42421	1	1-1000-5260	1,595.72	1,595.72
Total 46638:									1,595.72
46639									
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	266789_JUL	1	1-1000-5241	347.64	347.64
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	266789_JUL	2	1-1000-5241	347.64	347.64
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	266789_JUL	3	1-1000-5241	347.64	347.64
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	266789_JUL	4	1-1000-5241	347.64	347.64
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	266789_JUL	5	1-1000-5241	347.64	347.64
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	274953_JUL	1	1-1000-5510	44.61	44.61
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	274953_JUL	2	1-1000-5510	77.38	77.38
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	274953_JUL	3	1-1000-5510	211.09	211.09
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	274953_JUL	4	1-1000-5510	165.95	165.95
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	274953_JUL	5	1-1000-5510	60.31	60.31
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	274953_JUL	6	1-1000-5510	44.61	44.61
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	274953_JUL	7	1-1000-5510	44.61	44.61
08/26	08/03/2026	46639	1523	MISSION UNIFORM SERVICE	274953_JUL	8	1-1000-5510	64.04	64.04
Total 46639:									2,450.80
46640									
08/26	08/03/2026	46640	1628	RELIANCE STANDARD LIFE INS	105669_AUG	1	1-0000-5124	505.81	505.81
08/26	08/03/2026	46640	1628	RELIANCE STANDARD LIFE INS	105669_AUG	2	1-1000-5124	1,144.12	1,144.12
Total 46640:									1,649.93
46641									
08/26	08/03/2026	46641	1652	ROOTX	89668_7.30.	1	1-1000-5690	61.96	61.96
Total 46641:									61.96
46642									
08/26	08/03/2026	46642	1653	ROSEBRO GARAGE	F-350_7.24.2	1	1-1000-5640	179.95	179.95
Total 46642:									179.95
46643									
08/26	08/03/2026	46643	1710	SMARDAN - HATCHER CO.	4387905	1	1-0000-5630	115.25	115.25
08/26	08/03/2026	46643	1710	SMARDAN - HATCHER CO.	4389905	1	1-0000-5630	5.67	5.67

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice Sequence	Invoice GL Account	Invoice Amount	Check Amount
Total 46643:									120.92
46644									
08/26	08/03/2026	46644	1721	SOUTHERN CALIFORNIA EDISO	7004058779	1	1-1000-5420	149.35	149.35
08/26	08/03/2026	46644	1721	SOUTHERN CALIFORNIA EDISO	7004058779	2	1-1000-5420	47.34	47.34
08/26	08/03/2026	46644	1721	SOUTHERN CALIFORNIA EDISO	7004058779	3	1-1000-5420	514.71	514.71
08/26	08/03/2026	46644	1721	SOUTHERN CALIFORNIA EDISO	7004058779	4	1-1000-5420	829.11	829.11
08/26	08/03/2026	46644	1721	SOUTHERN CALIFORNIA EDISO	7004058779	5	1-1000-5420	178.68	178.68
08/26	08/03/2026	46644	1721	SOUTHERN CALIFORNIA EDISO	7004058779	6	1-1000-5420	1,801.10	1,801.10
08/26	08/03/2026	46644	1721	SOUTHERN CALIFORNIA EDISO	7004058779	7	1-1000-5420	23,123.78	23,123.78
08/26	08/03/2026	46644	1721	SOUTHERN CALIFORNIA EDISO	7004058779	8	1-1000-5420	1,744.00	1,744.00
Total 46644:									28,388.07
46645									
08/26	08/03/2026	46645	1796	TRITECH SOFTWARE SOLUTIO	468709	1	1-1000-5843	180.00	180.00
Total 46645:									180.00
46646									
08/26	08/03/2026	46646	1798	TWO TRUMPETS COMMUNICAT	1619	1	1-0000-5847	2,000.00	2,000.00
Total 46646:									2,000.00
46647									
08/26	08/03/2026	46647	1806	UNDERGROUND SERVICE ALE	720260212	1	1-1000-5480	102.25	102.25
Total 46647:									102.25
46648									
08/26	08/03/2026	46648	1840	VULCAN INDUSTRIES, INC.	26288-20093	1	1-1000-5650	1,858.04	1,858.04
Total 46648:									1,858.04
46649									
08/26	08/14/2026	46649	1005	ACME ANALYTICAL SOLUTIONS	28938	1	1-1000-5310	542.61	542.61
Total 46649:									542.61
46650									
08/26	08/14/2026	46650	1135	CARPINTERIA VALLEY WATER	CARPSAN_J	1	1-0000-5440	16.52	16.52
08/26	08/14/2026	46650	1135	CARPINTERIA VALLEY WATER	CARPSAN_J	2	1-1000-5440	417.97	417.97
08/26	08/14/2026	46650	1135	CARPINTERIA VALLEY WATER	CARPSAN_J	3	1-1000-5440	108.81	108.81
08/26	08/14/2026	46650	1135	CARPINTERIA VALLEY WATER	CARPSAN_J	4	1-1000-5440	106.92	106.92
08/26	08/14/2026	46650	1135	CARPINTERIA VALLEY WATER	CARPSAN_J	5	1-1000-5440	79.56	79.56
08/26	08/14/2026	46650	1135	CARPINTERIA VALLEY WATER	CARPSAN_J	6	1-1000-5440	167.05	167.05
08/26	08/14/2026	46650	1135	CARPINTERIA VALLEY WATER	CARPSAN_J	7	1-1000-5440	16.52	16.52
08/26	08/14/2026	46650	1135	CARPINTERIA VALLEY WATER	CARPSAN_J	8	1-0000-5440	429.07	429.07
Total 46650:									1,342.42
46651									
08/26	08/14/2026	46651	1165	CIO SOLUTIONS LP	131954-126_	1	1-0000-5843	5,381.25	5,381.25
08/26	08/14/2026	46651	1165	CIO SOLUTIONS LP	132274-126	1	1-0000-5843	1,787.54	1,787.54
08/26	08/14/2026	46651	1165	CIO SOLUTIONS LP	132274-126	2	1-1000-5843	1,787.55	1,787.55

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice Sequence	Invoice GL Account	Invoice Amount	Check Amount
Total 46651:									8,956.34
46652									
08/26	08/14/2026	46652	1175	COAST AUTO PARTS	1145_JULY2	1	1-1000-5510	33.33	33.33
08/26	08/14/2026	46652	1175	COAST AUTO PARTS	1145_JULY2	2	1-1000-5650	91.53	91.53
08/26	08/14/2026	46652	1175	COAST AUTO PARTS	1145_JULY2	3	1-1000-5640	39.23	39.23
Total 46652:									164.09
46653									
08/26	08/14/2026	46653	1205	CRAIG MURRAY	MURRAY_8.	1	1-0000-5244	60.94	60.94
Total 46653:									60.94
46654									
08/26	08/14/2026	46654	1228	DATCO SERVICES CORPORATI	826-60214	1	1-1000-5132	20.00	20.00
Total 46654:									20.00
46655									
08/26	08/14/2026	46655	1937	DAWN THATCHER DMD MS	BROAD_8.1.	1	1-1000-5127	225.00	225.00
Total 46655:									225.00
46656									
08/26	08/14/2026	46656	1274	ENGEL & GRAY INC.	67X00001	1	1-1000-5470	15,108.77	15,108.77
Total 46656:									15,108.77
46657									
08/26	08/14/2026	46657	1305	FISHER SCIENTIFIC	0394782	1	1-1000-5310	914.79	914.79
Total 46657:									914.79
46658									
08/26	08/14/2026	46658	1317	FRONTIER COMMUNICATIONS	8056842498	1	1-1000-5430	105.99	105.99
Total 46658:									105.99
46659									
08/26	08/14/2026	46659	1339	GERALD VELASCO	CASA_8.10.2	1	1-0000-5222	556.32	556.32
Total 46659:									556.32
46660									
08/26	08/14/2026	46660	1355	GRAINGER	9039657045	1	1-1000-5650	56.70	56.70
Total 46660:									56.70
46661									
08/26	08/14/2026	46661	1387	HILL BROTHERS CHEMICAL CO	13161011	1	1-1000-5521	3,125.65	3,125.65
Total 46661:									3,125.65

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice Sequence	Invoice GL Account	Invoice Amount	Check Amount
46662									
08/26	08/14/2026	46662	1411	INTERSTATE BATTERY SYSTEM	33412473	1	1-1000-5640	153.46	153.46
Total 46662:									153.46
46663									
08/26	08/14/2026	46663	1957	JS PLUMBING EQUIPMENT & R	218520	1	1-1000-5610	2,271.39	2,271.39
Total 46663:									2,271.39
46664									
08/26	08/14/2026	46664	1459	KIMIA ATTAR, DDS	VALIKONIS_	1	1-1000-5127	206.00	206.00
Total 46664:									206.00
46665									
08/26	08/14/2026	46665	1514	MICHAEL DAMRON	DAMRON_8.	1	1-0000-5222	556.32	556.32
Total 46665:									556.32
46666									
08/26	08/14/2026	46666	1879	MKN	3798_JUNE	1	1-0000-1820	10,296.95	10,296.95
Total 46666:									10,296.95
46667									
08/26	08/14/2026	46667	1579	PAUL SWENINGSON	MILEAGE_7.	1	1-1000-5265	91.20	91.20
Total 46667:									91.20
46668									
08/26	08/14/2026	46668	1580	PAYCHEX HR	17318033	1	1-0000-5851	143.85	143.85
Total 46668:									143.85
46669									
08/26	08/14/2026	46669	1581	PAYCHEX OF NEW YORK LLC	2026073000	1	1-0000-5851	121.00	121.00
Total 46669:									121.00
46670									
08/26	08/14/2026	46670	1715	SOCAL GAS	0485143000	1	1-1000-5410	24.31	24.31
Total 46670:									24.31
46671									
08/26	08/14/2026	46671	1778	THE WHARF	106350	1	1-1000-5527	192.98	192.98
08/26	08/14/2026	46671	1778	THE WHARF	114630	1	1-1000-5527	169.66	169.66
Total 46671:									362.64
46672									
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	1	1-1000-5680	37.06	37.06
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	2	1-1000-5242	118.00	118.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	3	1-1000-5527	42.17	42.17
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	4	1-0000-1820	24.98	24.98

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice Sequence	Invoice GL Account	Invoice Amount	Check Amount
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	5	1-0000-1820	1,086.00	1,086.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	6	1-1000-5843	20.00	20.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	7	1-1000-5843	19.99	19.99
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	8	1-1000-5843	16.99	16.99
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	9	1-1000-5244	40.00	40.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	10	1-1000-5242	377.00	377.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	11	1-1000-5310	32.68	32.68
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	12	1-1000-5650	147.16	147.16
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	13	1-0000-5210	57.40	57.40
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	14	1-0000-5210	31.75	31.75
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	15	1-1000-5510	26.15	26.15
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	16	1-1000-5650	27.24	27.24
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	17	1-1000-5242	129.00	129.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	18	1-1000-5244	135.00	135.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	19	1-1000-5843	.99	.99
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	20	1-0000-5210	16.47	16.47
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	21	1-1000-5510	500.39	500.39
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	22	1-1000-5844	219.00	219.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	23	1-1000-5242	118.00	118.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	24	1-1000-5843	.99	.99
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	25	1-0000-5843	99.99	99.99
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	26	1-0000-5210	335.00	335.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	27	1-0000-5210	200.00	200.00
08/26	08/14/2026	46672	1799	U.S. BANK CORPORATE PAYME	4246044555	28	1-0000-5210	78.65	78.65
Total 46672:									3,938.05
46673									
08/26	08/27/2026	46673	1009	ADT SECURITY SERVICES	403982720_	1	1-0000-5490	210.17	210.17
Total 46673:									210.17
46674									
08/26	08/27/2026	46674	1050	AQUATIC BIOASSAY & CONSUL	CSD0826.04	1	1-1000-5320	1,525.00	1,525.00
Total 46674:									1,525.00
46675									
08/26	08/27/2026	46675	1402	ASEVA	146208	1	1-0000-5430	193.61	193.61
08/26	08/27/2026	46675	1402	ASEVA	146208	2	1-1000-5430	193.61	193.61
Total 46675:									387.22
46676									
08/26	08/27/2026	46676	1958	BRAD JELLISON	1981_PERF	1	1-0000-2110	500.00	500.00
Total 46676:									500.00
46677									
08/26	08/27/2026	46677	1115	CALIFORNIA STATE DISBURSE	VALIKONIS_	1	1-0000-2200	147.69	147.69
Total 46677:									147.69
46678									
08/26	08/27/2026	46678	1166	CITY OF CARPINTERIA	02089	1	1-0000-6033	36,318.50	36,318.50

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice Sequence	Invoice GL Account	Invoice Amount	Check Amount
Total 46678:									36,318.50
46679									
08/26	08/27/2026	46679	1176	COASTAL COPY	1201419	1	1-0000-5610	299.53	299.53
Total 46679:									299.53
46680									
08/26	08/27/2026	46680	1205	CRAIG MURRAY	MURRAY_8.	1	1-0000-5244	100.78	100.78
Total 46680:									100.78
46681									
08/26	08/27/2026	46681	1235	DEBBIE MURPHY	MURPHY_8.	1	1-0000-5222	554.80	554.80
Total 46681:									554.80
46682									
08/26	08/27/2026	46682	1261	E.J. HARRISON & SONS INC.	081426	1	1-1000-5450	574.24	574.24
Total 46682:									574.24
46683									
08/26	08/27/2026	46683	1305	FISHER SCIENTIFIC	0699725	1	1-1000-5310	431.82	431.82
Total 46683:									431.82
46684									
08/26	08/27/2026	46684	1355	GRAINGER	9048127535	1	1-1000-5650	45.21	45.21
08/26	08/27/2026	46684	1355	GRAINGER	9050554717	1	1-1000-5650	29.84	29.84
Total 46684:									75.05
46685									
08/26	08/27/2026	46685	1382	HEALTH NET	090126_093	1	1-0000-5120	6,532.34	6,532.34
08/26	08/27/2026	46685	1382	HEALTH NET	090126_093	2	1-1000-5120	19,217.53	19,217.53
Total 46685:									25,749.87
46686									
08/26	08/27/2026	46686	1428	JCI JONES CHEMICALS INC.	1004678	1	1-1000-5522	9,899.79	9,899.79
08/26	08/27/2026	46686	1428	JCI JONES CHEMICALS INC.	1005449	1	1-1000-5522	7,259.24	7,259.24
Total 46686:									17,159.03
46687									
08/26	08/27/2026	46687	1446	JOY EQUIPMENT PROTECTION,	12301	1	1-1000-5610	891.07	891.07
Total 46687:									891.07
46688									
08/26	08/27/2026	46688	1507	MC CORMIX CORP.	42895	1	1-1000-5260	652.74	652.74
Total 46688:									652.74

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Invoice Number	Invoice Sequence	Invoice GL Account	Invoice Amount	Check Amount
46689									
08/26	08/27/2026	46689	1732	STANDARD INSURANCE COMP	6156420001	1	1-0000-5126	84.80	84.80
08/26	08/27/2026	46689	1732	STANDARD INSURANCE COMP	6156420001	2	1-1000-5126	275.60	275.60
Total 46689:									360.40
46690									
08/26	08/27/2026	46690	1916	TERRAVERDE ENERGY LLC.	3248	1	1-0000-1820	3,701.25	3,701.25
08/26	08/27/2026	46690	1916	TERRAVERDE ENERGY LLC.	3325	1	1-0000-1820	5,652.50	5,652.50
Total 46690:									9,353.75
46691									
08/26	08/27/2026	46691	1910	TRAVIS KEARNEY	DENTAL_8.1	1	1-1000-5127	405.00	405.00
Total 46691:									405.00
46692									
08/26	08/27/2026	46692	1793	TRI-CO REPROGRAPHICS	246558	1	1-2000-5210	515.81	515.81
Total 46692:									515.81
46693									
08/26	08/27/2026	46693	1819	USA BLUE BOOK	01141990	1	1-1000-5310	255.74	255.74
Total 46693:									255.74
46694									
08/26	08/27/2026	46694	1833	VERIZON	6150416165	1	1-1000-5430	321.48	321.48
Total 46694:									321.48
46695									
08/26	08/27/2026	46695	1956	WECK LABORATORIES LLC.	W6H0020	1	1-2000-5320	7,510.00	7,510.00
08/26	08/27/2026	46695	1956	WECK LABORATORIES LLC.	W6H0750	1	1-2000-5320	7,510.00	7,510.00
Total 46695:									15,020.00
Grand Totals:									449,710.78

Summary by General Ledger Account Number

GL Account	Debit	Credit	Proof
1-0000-1820	119,479.98	.00	119,479.98
100002000	.00	449,710.78-	449,710.78-
1-0000-2110	500.00	.00	500.00
1-0000-2200	147.69	.00	147.69
1-0000-5120	6,532.34	.00	6,532.34
1-0000-5124	505.81	.00	505.81
1-0000-5126	84.80	.00	84.80
1-0000-5128	16,000.00	.00	16,000.00
1-0000-5210	719.27	.00	719.27
1-0000-5222	1,667.44	.00	1,667.44

GL Account	Debit	Credit	Proof
1-0000-5231	76,047.39	.00	76,047.39
1-0000-5244	161.72	.00	161.72
1-0000-5430	193.61	.00	193.61
1-0000-5440	445.59	.00	445.59
1-0000-5490	420.34	.00	420.34
1-0000-5610	599.06	.00	599.06
1-0000-5630	120.92	.00	120.92
1-0000-5843	7,281.78	.00	7,281.78
1-0000-5847	2,000.00	.00	2,000.00
1-0000-5851	264.85	.00	264.85
1-0000-6032	148.00	.00	148.00
1-0000-6033	36,318.50	.00	36,318.50
1-1000-5120	19,217.53	.00	19,217.53
1-1000-5124	1,144.12	.00	1,144.12
1-1000-5126	275.60	.00	275.60
1-1000-5127	1,126.40	.00	1,126.40
1-1000-5128	48,456.00	.00	48,456.00
1-1000-5132	20.00	.00	20.00
1-1000-5241	1,738.20	.00	1,738.20
1-1000-5242	742.00	.00	742.00
1-1000-5244	175.00	.00	175.00
1-1000-5260	2,248.46	.00	2,248.46
1-1000-5265	91.20	.00	91.20
1-1000-5310	2,177.64	.00	2,177.64
1-1000-5320	1,525.00	.00	1,525.00
1-1000-5410	24.31	.00	24.31
1-1000-5420	28,388.07	.00	28,388.07
1-1000-5430	621.08	.00	621.08
1-1000-5440	896.83	.00	896.83
1-1000-5450	574.24	.00	574.24
1-1000-5470	15,108.77	.00	15,108.77
1-1000-5480	102.25	.00	102.25
1-1000-5510	1,288.12	.00	1,288.12
1-1000-5521	3,125.65	.00	3,125.65
1-1000-5522	17,159.03	.00	17,159.03
1-1000-5527	404.81	.00	404.81
1-1000-5610	3,981.17	.00	3,981.17
1-1000-5640	372.64	.00	372.64
1-1000-5650	3,895.37	.00	3,895.37
1-1000-5680	3,546.86	.00	3,546.86
1-1000-5690	61.96	.00	61.96
1-1000-5843	5,828.57	.00	5,828.57
1-1000-5844	219.00	.00	219.00
1-2000-5210	515.81	.00	515.81
1-2000-5320	15,020.00	.00	15,020.00
Grand Totals:	449,710.78	449,710.78-	.00

GL Account	Debit	Credit	Proof
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Report Criteria:

Report type: GL detail

Check.Type = {<>} "Adjustment"



Carpinteria Sanitary District

Board of Directors Meeting

STAFF REPORT

TO: Board of Directors

FROM: Craig Murray, P.E. - General Manager

SUBJECT: **Cash Contract No. 537 – Raftelis Financial Consultants, Inc.
Sewer Rate and Development Impact Fee Study Update**

DATE: September 15, 2026

REQUESTED ACTION: That the Board review and approve Cash Contract No. 537 for financial consulting and preparation of a Sewer Rate and Development Impact Fee Study between the Carpinteria Sanitary District and Raftelis Financial Consultants, Inc. of Los Angeles, California.

FUNDING SOURCE: Account 5849: Other Professional Services

BACKGROUND: In 2021 the District engaged Raftelis Financial Consultants (RFC) to prepare a comprehensive Wastewater Rate and Fee Study Report and an associated financial model. This detailed financial planning effort was the basis for a five-year incremental sewer service charge (SSC) rate adjustment of 3.0% per year. This rate structure was authorized by the Board in June 2022 with adoption of Ordinance No. 17 and was implemented through the current fiscal year. Currently, the SSC for a single residential dwelling unit is \$849.48 per year.

As part of the FY 2026/27 approved operating budget, the Board authorized an update to the Wastewater Rate and Fee Study and the District's financial model to carefully assess the future cost of service and to provide the technical basis to establish appropriate rates and fees going forward.

District staff solicited a proposal from RFC to perform the desired rate and fee study, and to update the District's computerized financial model. RFC's proposal, dated September 1, 2026, is included herewith as an attachment to Cash Contract No. 537. Mr. Sudhir Pardiwala would serve as the principal in charge and Mr. Kevin Kostiuk would serve as Project Manager for RFC on this project. Sudhir and his team provided excellent service during their prior engagements in 2010, 2016 and 2021. RFC has continued to support the District since that time when needed.

The level of effort proposed reflects RFCs knowledge of our existing systems and includes sufficient staff resources to ensure that the final product meets legal and industry standards. In developing the scope, staff highlighted relevant issues for consideration, including pension liability funding, multi-family and ADU differential rates, the recently completed CASA Flow and Loading Study, debt service retirement, future capital project development and other key inputs to the analysis. The proposed scope contemplates the required level of effort to ensure that proposed rates and fee accurately reflect the cost to provide service in compliance with Proposition 218 and other statutory requirements.

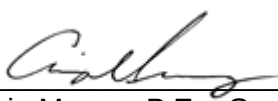
If authorized, RFC will work closely with District staff and the Board Finance Committee throughout the study process.

RECOMMENDATION: Staff recommends that the Board approve Cash Contract No. 537 with Raftelis Financial Consultants, Inc. for financial planning and preparation of a Sewer Rate and Development Impact Fee Study with a not to exceed contract amount of \$74,620 and authorize the General Manager to execute the agreement.

SUGGESTED MOTION: I move that that the Board approve Cash Contract No. 537 with Raftelis Financial Consultants, Inc. for financial planning and preparation of a Sewer Rate and Development Impact Fee Study with a not to exceed contract amount of \$74,620 and authorize the General Manager to execute the agreement.

M_____ S_____

Ayes:_____ Nays:_____ Abstentions:_____

Prepared By: _____
Craig Murray, P.E. - General Manager

Attachments: Cash Contract No. 537

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CASH CONTRACT # 537

AGREEMENT FOR

PROFESSIONAL SERVICES

BETWEEN

**THE CARPINTERIA SANITARY DISTRICT AND
RAFTELIS FINANCIAL CONSULTANTS, INC.**

THIS AGREEMENT is entered into this 15th day of September 2026, by and between the CARPINTERIA SANITARY DISTRICT, a public utility district formed under the laws of California (“DISTRICT”) and RAFTELIS FINANCIAL CONSULTANTS INC., a California Corporation (“CONSULTANT”). The Parties agree as follows:

1. CONSIDERATION.

- A. As partial consideration, CONSULTANT agrees to perform the work listed in the SCOPE OF SERVICES, below;
- B. As additional consideration, CONSULTANT and DISTRICT agree to abide by the terms and conditions contained in this Agreement;
- C. As additional consideration, DISTRICT agrees to pay CONSULTANT a sum not to exceed \$74,620 for CONSULTANT’s services. DISTRICT may modify this amount as set forth below. Unless otherwise specified by written amendment to this Agreement, DISTRICT will pay this sum as specified in the attached Exhibit “A,” which is incorporated by reference.

2. SCOPE OF SERVICES.

- A. CONSULTANT will perform services listed in the attached Exhibit “A,” which is incorporated by reference.
- B. CONSULTANT will, in a professional manner, furnish all of the labor, technical, administrative, professional and other personnel, all supplies and materials, equipment, printing, vehicles, transportation, office space and facilities, and all tests, testing and analyses, calculation, and all other means whatsoever, except as herein otherwise expressly specified to be furnished by DISTRICT, necessary or proper to perform and complete the work and provide the professional services required of CONSULTANT by this Agreement.

3. PERFORMANCE STANDARDS. While performing this Agreement, CONSULTANT will use the appropriate generally accepted professional standards of practice existing at the time of performance utilized by persons engaged in providing similar services (“Standard of Care”). DISTRICT will continuously monitor CONSULTANT’s services. DISTRICT will notify CONSULTANT of any deficiencies and CONSULTANT will have fifteen (15) days after such

notification to cure any shortcomings to DISTRICT's satisfaction. Reasonable costs associated with curing the negligently caused deficiencies will be borne by CONSULTANT.

4. PAYMENTS. For DISTRICT to pay CONSULTANT as specified by this Agreement, CONSULTANT must submit a detailed invoice to DISTRICT which lists the hours worked and hourly rates for each personnel category and reimbursable costs (all as set forth in Exhibit A) the tasks performed, the percentage of the task completed during the billing period, the cumulative percentage completed for each task, the total cost of that work during the preceding billing month and a cumulative cash flow curve showing projected and actual expenditures versus time to date.

5. NON-APPROPRIATION OF FUNDS. Payments due and payable to CONSULTANT for current services are within the current budget and within an available, unexhausted and unencumbered appropriation of the DISTRICT. In the event the DISTRICT has not appropriated sufficient funds for payment of CONSULTANT services beyond the current fiscal year, this Agreement will cover only those costs incurred up to the conclusion of the current fiscal year.

6. ADDITIONAL WORK.

- A. DISTRICT's General Manager ("Manager") may determine, at the Manager's sole discretion, that CONSULTANT must perform additional work ("Additional Work") to complete the Scope of Work. If Additional Work is needed, the Manager will give written authorization to CONSULTANT to perform such Additional Work.
- B. If CONSULTANT believes Additional Work is needed to complete the Scope of Work, CONSULTANT will provide the Manager with written notification that contains a specific description of the proposed Additional Work, reasons for such Additional Work, and a detailed proposal regarding cost.
- C. Payments over \$74,620 for Additional Work must be approved by DISTRICT's Board of Directors. All Additional Work will be subject to all other terms and provisions of this Agreement.

7. FAMILIARITY WITH WORK.

- A. By executing this Agreement, CONSULTANT agrees that it has:
 - i. Carefully investigated and considered the scope of services to be performed;
 - ii. Carefully considered how the services should be performed; and
 - iii. Understands the facilities, difficulties, and restrictions attending performance of the services under this Agreement.

- B. If services involve work upon any site, CONSULTANT agrees that CONSULTANT has or will investigate the site and is or will be fully acquainted with the conditions there existing, before commencing the services hereunder. Should CONSULTANT discover any latent or unknown conditions that may materially affect the performance of the services, CONSULTANT will immediately inform DISTRICT of such fact and will not proceed except at CONSULTANT's own risk until written instructions are received from DISTRICT.

8. **TERM.** The term of this Agreement will be from September 15, 2026 to April 30, 2027. Unless otherwise determined by written amendment between the parties, this Agreement will terminate in the following instances:

- A. Completion of the work specified in Exhibit "A";
- B. Termination as stated in Section 16.

9. **TIME FOR PERFORMANCE.**

- A. CONSULTANT will not perform any work under this Agreement until:
 - i. CONSULTANT furnishes proof of insurance as required under Section 23 of this Agreement; and
 - ii. DISTRICT gives CONSULTANT a written notice to proceed.
- B. Should CONSULTANT begin work on any phase in advance of receiving written authorization to proceed, any such professional services are at CONSULTANT's own risk.

10. **TIME EXTENSIONS.** Should CONSULTANT be delayed by causes beyond CONSULTANT's control, DISTRICT may grant a time extension for the completion of the contracted services. If delay occurs, CONSULTANT must notify the Manager within forty-eight hours (48 hours), in writing, of the cause and the extent of the delay and how such delay interferes with the Agreement's schedule. The Manager will extend the completion time, when appropriate, for the completion of the contracted services.

11. **CONSISTENCY.** In interpreting this Agreement and resolving any ambiguities, the main body of this Agreement takes precedence over the attached Exhibits; this Agreement supersedes any conflicting provisions. Any inconsistency between the Exhibits will be resolved in the order in which the Exhibits appear below:

Exhibit "A" – Raftelis Financial Consultants Inc. September 1, 2026 Proposal

12. **CHANGES.** DISTRICT may order changes in the services within the general scope of this Agreement, consisting of additions, deletions, or other revisions, and the contract sum and the contract time will be adjusted accordingly. All such changes must be authorized in writing, executed by CONSULTANT and DISTRICT. The cost or credit to DISTRICT resulting from

changes in the services will be determined in accordance with written agreement between the parties.

13. TAXPAYER IDENTIFICATION NUMBER. CONSULTANT will provide DISTRICT with a Taxpayer Identification Number.

14. PERMITS AND LICENSES. CONSULTANT, at its sole expense, will obtain and maintain during the term of this Agreement, all necessary permits, licenses, and certificates that may be required in connection with the performance of services under this Agreement.

15. WAIVER. DISTRICT's review or acceptance of, or payment for, work product prepared by CONSULTANT under this Agreement will not be construed to operate as a waiver of any rights DISTRICT may have under this Agreement or of any cause of action arising from CONSULTANT's performance. A waiver by DISTRICT of any breach of any term, covenant, or condition contained in this Agreement will not be deemed to be a waiver of any subsequent breach of the same or any other term, covenant, or condition contained in this Agreement, whether of the same or different character.

16. TERMINATION.

- A. Except as otherwise provided, DISTRICT may terminate this Agreement at any time with or without cause.
- B. CONSULTANT may terminate this Agreement at any time with DISTRICT's mutual consent. Notice will be in writing at least thirty (30) days before the effective termination date.
- C. Upon receiving a termination notice, CONSULTANT will immediately cease performance under this Agreement unless otherwise provided in the termination notice. Except as otherwise provided in the termination notice, any additional work performed by CONSULTANT after receiving a termination notice will be performed at CONSULTANT's own cost; DISTRICT will not be obligated to compensate CONSULTANT for such work.
- D. Should termination occur, all finished or unfinished documents, data, studies, surveys, drawings, maps, reports and other materials prepared by CONSULTANT will, at DISTRICT's option, become DISTRICT's property, and CONSULTANT will receive just and equitable compensation for any work satisfactorily completed up to the effective date of notice of termination, not to exceed the total costs under Section 1(C).
- E. Should the Agreement be terminated pursuant to this Section, DISTRICT may procure on its own terms services similar to those terminated.
- F. By executing this document, CONSULTANT waives any and all claims for damages that might otherwise arise from DISTRICT's termination under this Section.

17. OWNERSHIP OF DOCUMENTS. All documents, data, studies, drawings, maps, models, photographs and reports prepared by CONSULTANT under this Agreement are DISTRICT's property. CONSULTANT may retain copies of said documents and materials as desired, but will deliver all original materials to DISTRICT upon DISTRICT's written notice. DISTRICT agrees that use of CONSULTANT's completed work product, for purposes other than identified in this Agreement, or use of incomplete work product, is at DISTRICT's own risk.

18. PUBLICATION OF DOCUMENTS. Except as necessary for performance of service under this Agreement, no copies, sketches, or graphs of materials, including graphic art work, prepared pursuant to this Agreement, will be released by CONSULTANT to any other person or public DISTRICT without DISTRICT's prior written approval. All press releases, including graphic display information to be published in newspapers or magazines, will be approved and distributed solely by DISTRICT, unless otherwise provided by written agreement between the parties.

19. INDEMNIFICATION.

A. CONSULTANT agrees to the following:

- i. *Indemnification for Professional Services.* CONSULTANT will save harmless and indemnify and at DISTRICT's request reimburse defense costs for DISTRICT and all its officers, volunteers, employees and representatives from and against any and all suits, actions, or claims, of any character whatever, brought for, or on account of, any injuries or damages sustained by any person or property to the extent caused by any negligent or wrongful act, error or omission by CONSULTANT or any of CONSULTANT's officers, agents, employees, or representatives, in the performance of this Agreement, except for such loss or damage arising from DISTRICT's sole or active negligence or willful misconduct. Notwithstanding any language to the contrary in this Agreement, CONSULTANT shall only be required to reimburse DISTRICT for defense fees and costs (including reasonable attorney's fees), in proportion to CONSULTANT's proven acts of negligence and further, only to the extent such fees and costs were directly attributable to DISTRICT's defense of a suit based on CONSULTANT's proven negligence. The Parties also acknowledge that this Agreement is subject to California Civil Code 2782.8 as amended and effective January 1, 2018. DISTRICT agrees that CONSULTANT's liability is limited to the aggregate total of the insurance requirements in this Agreement.
- ii. *Indemnification for other Damages.* CONSULTANT indemnifies and holds DISTRICT harmless from and against any claim, action, damages, costs (including, without limitation, attorney's fees), injuries, or liability, arising out of this Agreement, or its performance, except for such loss or damage arising from DISTRICT's sole negligence or willful misconduct. Should DISTRICT be named in any suit, or should any claim be brought against it by suit or otherwise, whether the same be groundless or not, arising out of this Agreement, or its performance, CONSULTANT will defend

DISTRICT (at DISTRICT's request and with counsel satisfactory to DISTRICT) and will indemnify DISTRICT for any judgment rendered against it or any sums paid out in settlement or otherwise. DISTRICT agrees that CONSULTANT's liability is limited to the aggregate total of the insurance requirements in this Agreement.

- B. For purposes of this section "DISTRICT" includes DISTRICT's officers, officials, employees, agents, representatives, and certified volunteers.
- C. It is expressly understood and agreed that the foregoing provisions will survive termination of this Agreement.
- D. The requirements as to the types and limits of insurance coverage to be maintained by CONSULTANT as required by Section 23, and any approval of said insurance by DISTRICT, are not intended to and will not in any manner limit or qualify the liabilities and obligations otherwise assumed by CONSULTANT pursuant to this Agreement, including, without limitation, to the provisions concerning indemnification.

20. ASSIGNABILITY. This Agreement is for CONSULTANT's professional services. CONSULTANT's attempts to assign the benefits or burdens of this Agreement without DISTRICT's written approval are prohibited and will be null and void.

21. INDEPENDENT CONTRACTOR. DISTRICT and CONSULTANT agree that CONSULTANT will act as an independent contractor and will have control of all work and the manner in which it is performed. CONSULTANT will be free to contract for similar service to be performed for other employers while under contract with DISTRICT. CONSULTANT is not an agent or employee of DISTRICT and is not entitled to participate in any pension plan, insurance, bonus or similar benefits DISTRICT provides for its employees. Any provision in this Agreement that may appear to give DISTRICT the right to direct CONSULTANT as to the details of doing the work or to exercise a measure of control over the work means that CONSULTANT will follow the direction of the DISTRICT as to end results of the work only.

22. AUDIT OF RECORDS. CONSULTANT will maintain full and accurate records with respect to all services and matters covered under this Agreement. DISTRICT will have free access at all reasonable times to such records, and the right to examine and audit the same and to make transcript therefrom, and to inspect all program data, documents, proceedings and activities. CONSULTANT will retain such financial and program service records for at least three (3) years after termination or final payment under this Agreement.

23. INSURANCE.

- A. Before commencing performance under this Agreement, and at all other times this Agreement is effective, CONSULTANT will procure and maintain the following types of insurance with coverage limits complying, at a minimum, with the limits set forth below:

Type of Insurance

Limits

Commercial general liability: \$2,000,000

Professional Liability \$1,000,000

Business automobile liability \$1,000,000

Workers compensation Statutory requirement

- B. Commercial general liability insurance will meet or exceed the requirements of the most recent ISO-CGL Form. The amount of insurance set forth above will be a combined single limit per occurrence for bodily injury, personal injury, and property damage for the policy coverage. Liability policies will be endorsed to name DISTRICT, its officials, and employees as “additional insureds” under said insurance coverage and to state that such insurance will be deemed “primary” such that any other insurance that may be carried by DISTRICT will be excess thereto. Such endorsement must be reflected on ISO Form No. CG 20 10 11 85 or 88, or equivalent. Such insurance will be on an “occurrence,” not a “claims made,” basis and will not be cancelable or subject to reduction except upon thirty (30) days prior written notice to DISTRICT.
- C. Professional liability coverage will be on an “occurrence basis” if such coverage is available, or on a “claims made” basis if not available. When coverage is provided on a “claims made basis,” CONSULTANT will continue to renew the insurance for a period of three (3) years after this Agreement expires or is terminated. Such insurance will have the same coverage and limits as the policy that was in effect during the term of this Agreement, and will cover CONSULTANT for all claims made by DISTRICT arising out of any errors or omissions of CONSULTANT, or its officers, employees or agents during the time this Agreement was in effect.
- D. Automobile coverage will be written on ISO Business Auto Coverage Form CA 00 01 06 92, including symbol 1 (Any Auto).
- E. CONSULTANT will furnish to DISTRICT duly authenticated Certificates of Insurance evidencing maintenance of the insurance required under this Agreement and such other evidence of insurance or copies of policies as may be reasonably required by DISTRICT from time to time. Insurance must be placed with insurers with a current A.M. Best Company Rating equivalent to at least a Rating of “A:VII.”
- F. Should CONSULTANT, for any reason, fail to obtain and maintain the insurance required by this Agreement, DISTRICT may obtain such coverage at CONSULTANT’s expense and deduct the cost of such insurance from payments due to CONSULTANT under this Agreement or terminate pursuant to Section 16.
- G. Self-Insured Retention/Deductibles. All policies required by this Agreement must allow DISTRICT, as additional insured, to satisfy the self-insured retention (“SIR”)

and deductible of the policy in lieu of CONSULTANT (as the named insured) should CONSULTANT fail to pay the SIR or deductible requirements. The amount of the SIR or deductible is subject to the approval of the General Manager. CONSULTANT understands and agrees that satisfaction of this requirement is an express condition precedent to the effectiveness of this Agreement. Failure by CONSULTANT as primary insured to pay its SIR or deductible constitutes a material breach of this Agreement. Should DISTRICT pay the SIR or deductible on DISTRICT's behalf upon the CONSULTANT'S failure or refusal to do so in order to secure defense and indemnification as an additional insured under the policy, DISTRICT may include such amounts as damages in any action against CONSULTANT for breach of this Agreement in addition to any other damages incurred by DISTRICT due to the breach.

24. USE OF SUBCONTRACTORS. CONSULTANT must obtain DISTRICT's prior written approval to use any consultants while performing any portion of this Agreement. Such approval must approve of the proposed consultant and the terms of compensation.

25. INCIDENTAL TASKS. CONSULTANT will meet with DISTRICT monthly to provide the status on the project, which will include a schedule update and a short narrative description of progress during the past month for each major task, a description of the work remaining and a description of the work to be done before the next schedule update.

26. NOTICES. All communications to either party by the other party will be deemed made when received by such party at its respective name and address as follows:

If to CONSULTANT:

Attention: Sudhir Pardiwala
Raftelis Financial Services Inc.
611 Wilshire Blvd, Suite 900
Los Angeles, CA 90017
760-519-8520
spardiwala@raftelis.com

If to DISTRICT:

Attention: Craig Murray
Carpinteria Sanitary District
5300 Sixth Street
Carpinteria, CA 93013
(805) 684-7214 x112
craigm@carpsan.com

Any such written communications by mail will be conclusively deemed to have been received by the addressee upon deposit thereof in the United States Mail, postage prepaid and properly addressed as noted above. In all other instances, notices will be deemed given at the time of actual delivery. Changes may be made in the names or addresses of persons to whom notices are to be given by giving notice in the manner prescribed in this paragraph.

27. CONFLICT OF INTEREST. CONSULTANT will comply with all conflict of interest laws and regulations including, without limitation, DISTRICT's conflict of interest regulations.

28. SOLICITATION. CONSULTANT maintains and warrants that it has not employed nor retained any company or person, other than CONSULTANT's bona fide employee, to solicit or secure this Agreement. Further, CONSULTANT warrants that it has not paid nor has it agreed to pay any company or person, other than CONSULTANT's bona fide employee, any fee, commission, percentage, brokerage fee, gift or other consideration contingent upon or resulting

from the award or making of this Agreement. Should CONSULTANT breach or violate this warranty, DISTRICT may rescind this Agreement without liability.

29. THIRD PARTY BENEFICIARIES. This Agreement and every provision herein is generally for the exclusive benefit of CONSULTANT and DISTRICT and not for the benefit of any other party. There will be no incidental or other beneficiaries of any of CONSULTANT's or DISTRICT's obligations under this Agreement.

30. INTERPRETATION. This Agreement was drafted in, and will be construed in accordance with the laws of the State of California, and exclusive venue for any action involving this agreement will be in Santa Barbara County.

31. COMPLIANCE WITH LAW. CONSULTANT agrees to comply with all federal, state, and local laws applicable to this Agreement in a manner consistent with the Standard of Care.

32. ENTIRE AGREEMENT. This Agreement, and its Attachments, sets forth the entire understanding of the parties. There are no other understandings, terms or other agreements expressed or implied, oral or written. There is one Attachment to this Agreement. This Agreement will bind and inure to the benefit of the parties to this Agreement and any subsequent successors and assigns.

33. RULES OF CONSTRUCTION. Each Party had the opportunity to independently review this Agreement with legal counsel. Accordingly, this Agreement will be construed simply, as a whole, and in accordance with its fair meaning; it will not be interpreted strictly for or against either Party.

34. SEVERABILITY. If any portion of this Agreement is declared by a court of competent jurisdiction to be invalid or unenforceable, then such portion will be deemed modified to the extent necessary in the opinion of the court to render such portion enforceable and, as so modified, such portion and the balance of this Agreement will continue in full force and effect.

35. AUTHORITY/MODIFICATION. The Parties represent and warrant that all necessary action has been taken by the Parties to authorize the undersigned to execute this Agreement and to engage in the actions described herein. This Agreement may be modified by written amendment. DISTRICT's Manager, or designee, may execute any such amendment on behalf of DISTRICT.

36. ELECTRONIC SIGNATURES. This Agreement may be executed by the Parties on any number of separate counterparts, and all such counterparts so executed constitute one Agreement binding on all the Parties notwithstanding that all the Parties are not signatories to the same counterpart. In accordance with Government Code §16.5, the Parties agree that this Agreement, Agreements ancillary to this Agreement, and related documents to be entered into in connection with this Agreement will be considered signed when the signature of a party is delivered by electronic transmission. Such electronic signature will be treated in all respects as having the same effect as an original signature.

37. CAPTIONS. The captions of the paragraphs of this Agreement are for convenience of reference only and will not affect the interpretation of this Agreement.

38. **TIME IS OF ESSENCE.** Time is of the essence for each and every provision of this Agreement. DISTRICT recognizes that CONSULTANT's performance must be governed by sound professional practices in a manner consistent with the Standard of Care.

39. **FORCE MAJEURE.** Should performance of this Agreement be prevented due to fire, flood, explosion, acts of terrorism, war, embargo, government action, civil or military authority, the natural elements, endemics, pandemics or other similar causes beyond the Parties' reasonable control, then the Agreement will immediately terminate without obligation of either party to the other.

40. **STATEMENT OF EXPERIENCE.** By executing this Agreement, CONSULTANT represents that it has demonstrated trustworthiness and possesses the quality, fitness and capacity to perform the Agreement in a manner satisfactory to DISTRICT. CONSULTANT represents that its financial resources, surety and insurance experience, service experience, completion ability, personnel, current workload, experience in dealing with private consultants, and experience in dealing with public agencies all suggest that CONSULTANT is capable of performing the proposed contract and has a demonstrated capacity to deal fairly and effectively with and to satisfy a public DISTRICT.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first hereinabove written.

CARPINTERIA SANITARY DISTRICT

RAFTELIS FINANCIAL CONSULTANTS

Craig Murray, P.E.
General Manager

Sudhir Pardiwala
Senior Principal

Taxpayer ID No. _____

September 1, 2026

Mr. Craig Murray, P.E.
General Manager
Carpinteria Sanitary District
5300 Sixth Street
Carpinteria, CA 93013

Subject: Proposal for Sewer Rate and Development Impact Fee Study

Dear Mr. Murray:

Raftelis Financial Consultants, Inc. (Raftelis) is pleased to submit this proposal to assist the Carpinteria Sanitary District (District) with a comprehensive wastewater rate and development impact fee study (Study). With our industry expertise, depth of resources, and qualifications, we are confident in providing a value-added project to the benefit of the District and its customers.

We are the largest practice in California and the nation specializing in financial and rate consulting for water, wastewater, recycled water, and stormwater utilities. Raftelis is confident in our ability to meet the District's goals and align rates and charges with Proposition 218 regulations. We have assisted numerous agencies in California and across the United States with successfully implementing equitable rate structures that fund capital infrastructure plans and provide a stable revenue stream, while minimizing impacts on customers.

The following objectives will serve as the primary components of a comprehensive wastewater rate study and cost of service analysis:

- Review the District's revenue needs to ensure adequate funding of reserves requirements and full recovery of operating and capital expenditures
- Determine the cost of providing service to the District's different customer classifications and develop equitable rates that meet industry standards and are aligned with Proposition 218
- Calculate development impact fees so that new users pay their fair share of costs to join the system
- Prepare a comprehensive study report as part of the District's administrative record that clearly demonstrates the nexus between the costs of providing service and the rates and fees charged to customers.

Our Project Team has extensive experience and a reputation for high quality service. I will serve as Project Director and will be responsible for overall project accountability and provide insight and Direction during model and rate development. Kevin Kostiuk will serve as Project Manager, shepherding the day to day work products, presenting results and recommendations, and ensuring the project stays on budget and on schedule. In addition, the District will have the assistance of our California-based rate consultants to support model development and project deliverables as needed.

Raftelis is grateful for the opportunity to again assist the District with this Study. If you have any questions, please do not hesitate to contact me at (626) 583-1894.

Most sincerely,

RAFTELIS FINANCIAL CONSULTANTS, INC.



Sudhir Pardiwala, P.E.
Senior Principal



Kevin Kostiuk
Senior Manager

SCOPE OF SERVICES

Task 1 – Project Management, Administration, and Initiation

Initial Data Request

Raftelis will submit a comprehensive data request seeking information required for the Study. If we receive the data before the kickoff meeting, we can come prepared with questions.

Project Kickoff Meeting

A kickoff meeting helps orient the project. Topics will include:

- Discussing project drivers
- Acquainting staff with our project team
- Identifying areas of concern or key issues and confirming study goals and objectives
- Finalizing the work plan and schedule
- Discussing rate objectives and any alternatives for evaluation
- Discussing the data request and any additional data requirements
- Client and Raftelis points of contact and communications protocols

Quality Assurance/Quality Control (QA/QC)

Quality assurance/quality control (QA/QC) is performed at two project milestones: 1) at the completion of the financial plan and 2) after the completion of the cost-of-service and rate design. Our QA/QC procedure is as follows:

Built-In Model Checks: The model will have several built-in checks to ensure that the total expenditures are included. The built-in checks include: 1) ties to the client's total operating budget; 2) a revenue requirement check to ensure rates are collecting the right amount of revenue derived from the financial plan; and 3) a revenue proof to ensure rates are designed to collect the total revenue requirement.

Project Manager Review: The Project Manager reviews each model worksheet at each project milestone.

Meetings: One (1) virtual Kickoff meeting with District staff

Deliverables: Detailed data request list, Kickoff meeting agenda and minutes

Task 2 – Review User Classification

Much of the strength data that is in use today is based on legacy data from the 1970s through 1990s. Water use characteristics have changed considerably with repeated droughts and conservation strategies. The California Association of Sanitation Agencies (CASA) has conducted an exhaustive study of different classes of customers and associated strengths. Raftelis will review the CASA results with the District, the associated customer strengths, and what changes mean to equity and financial impacts between classes.

Meetings: Two (2) virtual meetings with District staff

Deliverables: Comparative analysis and potential updates to strengths and user strength classes

Task 3 – Financial Plan Development

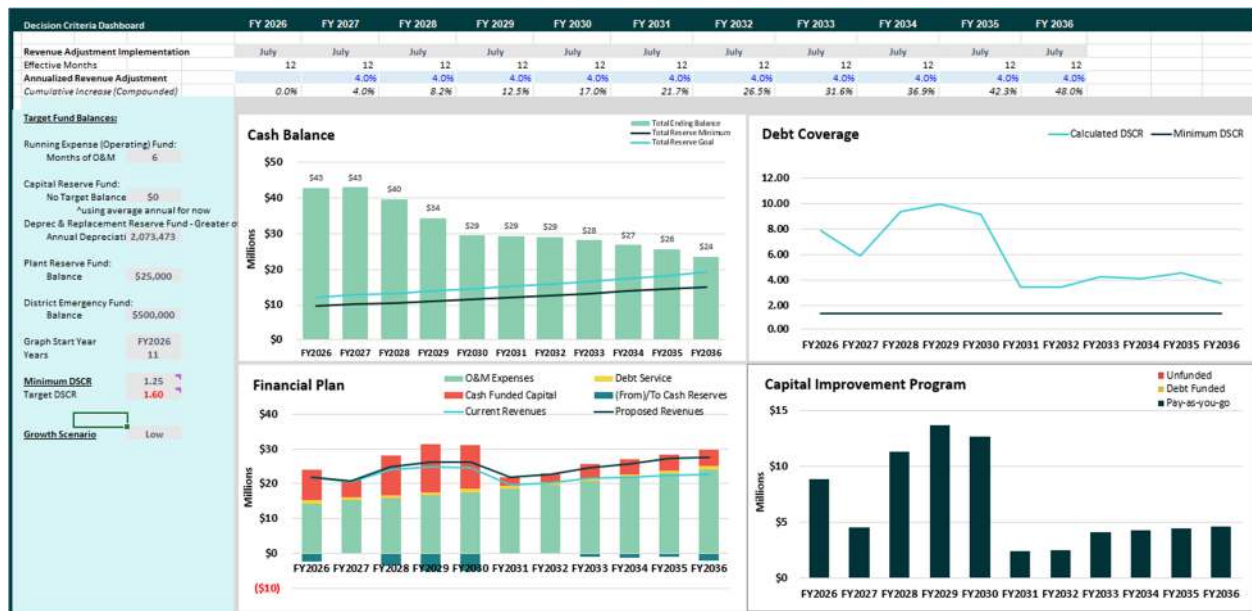
After the data has been compiled and analyzed, Raftelis will begin the process of developing a long-term financial plan. This involves projecting wastewater units of service, flow generation from non-residential users, and forecasting revenue requirements. Raftelis will develop a detailed forecast model that will serve as the initial module of the Financial Plan and Wastewater Rate Model (Model). Once completed, the Model will serve as a comprehensive yet flexible planning tool that will incorporate the District's operations and maintenance (O&M) expenses, capital improvement plan (CIP), capital financing strategy, reserve balances, and revenue projections.

The Project Team will itemize fixed and variable costs from the District's budget into appropriate cost categories and determine a five- to ten-year cost forecast based on inflation escalation approved by District staff. In addition, Raftelis will project non-rate revenues such as late fees, interest, miscellaneous fees, etc. that may be used to offset rate increases. Another important element of our financial plan is the development of an appropriate reserve policy reflecting sound financial management practices. We will review the current reserves policies to recommend appropriate reserve targets to provide revenue stability due to environmental conditions, asset failures, and natural disasters. We will consider reserves for operating, capital replacement, rate stabilization, and unforeseen events.

Ultimately, the Financial Plan task will project the cash needs to be collected through wastewater rates to meet projected revenue requirements, while minimizing sharp rate fluctuations. The Model will determine the capability of the District's existing wastewater rates to fully recover costs, and if necessary, propose revenue adjustments that will allow the District to effectively meet its financial obligations. Projecting revenue adjustments over a long planning horizon can illustrate future rate impacts and potential challenges to the District's financial situation in both the short-term and long-term. This will allow the District to plan expenses, reserve balances, and/or capital project scheduling to smooth rate impacts and to maintain financial stability throughout the five or ten-year planning horizon.

Raftelis will create a customized Model based on a standardized approach to meet the District's specific needs. The Model will have the capability to instantly review results of multiple scenarios and assess their impacts, making it a key tool in decision-making that will best meet the District's needs. Below is a sample model screenshot demonstrating key model features including:

- Revenue adjustments required for the next five (or more) years in order to meet debt coverage and target reserve balance(s)
- Projected operating costs and revenue streams
- Reserve balances relative to target levels according to the District's fiscal policies
- Sources of funds for the CIP (Cash/PAYGO, debt financed, grants, etc.)
- Dynamic selection options for scenario analyses



Meeting(s): Two (2) virtual meetings with District staff

Deliverable(s): Draft Financial Plan Model in Microsoft Excel

Task 4 – Cost of Service Analysis

Following the development of the financial plan, Raftelis will conduct a cost-of-service analysis. The cost-of-service analysis will be performed in accordance with industry standards and methodologies approved by the Water Environment Federation (WEF) to ensure equitable rates compliant with Proposition 218. Cost allocations among customer classes are based on the flow and wastewater “strength” of each class. The strength of each class is determined by the biochemical oxygen demand (BOD) and total suspended solids (TSS) of its wastewater effluent.

Typically, a wastewater cost of service analysis involves the following three steps:

1. Conduct plant balance analysis to verify the assumptions used to estimate the customer class volume and strength units of service
2. Allocate to operating and capital costs to cost causative factors such as flow, BOD, TSS, inflow & infiltration (I&I) etc.
3. Distribute costs to customers based on customer class service requirements

Operating costs will be allocated to each functional cost category based on the functionalized operating expenses of the utility. Capital costs will be allocated on the basis of the existing assets. The cost of service will be allocated to the various cost components, including flow, BOD, TSS, customer costs, and other direct and indirect costs consistent with industry standards. The purpose of this task is to allocate the costs associated with the various cost components to the various customer classes on the basis of the relative responsibility of each. The result is the total cost responsibility required of each customer class in order to maintain the financial stability of the District’s wastewater enterprise.

Throughout the cost allocation process, Raftelis will comply with the District's policy considerations and procedures, as well as current federal, state, and local rules, regulations, and guidelines applicable to determining charges for wastewater service, including alignment with Proposition 218. Although not a law firm, Raftelis is very familiar with Proposition 218 requirements and its implications on rates.

Deliverable(s): Draft Cost of Service Model in Microsoft Excel

Task 5 – Wastewater Rates Calculation

After conducting the cost-of-service analysis, Raftelis will calculate wastewater rates for different customer classes under the current structure. The District currently charges a uniform annual rate per dwelling unit for all residential customers. We will evaluate rates for Multi-Family Residential (MFR) and Accessory Dwelling Units (ADU) as separate classes from the Single Family Residential (SFR) class. Non-residential customers are charged based on strength class and wastewater generation and are subject to a minimum charge. Raftelis will evaluate the ability of the District's proposed wastewater rates to ensure revenue stability and financial sufficiency and recommend changes if necessary.

Raftelis will develop a Wastewater Rate Model that will have the built-in capability to conduct various scenario analyses to address different issues such as water usage reduction, sewer flows and strengths, I&I etc., and to calculate wastewater rates under each scenario. The Rate Dashboard, which displays key variables and results instantaneously on screen, will facilitate discussion to reach a consensus quickly. This has proven to be particularly useful when making presentations to elected officials, allowing them to instantly understand the impacts of their decisions.

Meetings: Up to two (2) virtual meetings with District staff

Deliverables: Draft Wastewater Rate Model in Microsoft Excel

Task 6 – Development Connection (Impact) Fees Calculation

The District currently utilizes the "buy-in" method in order to recover the costs that have been paid for by the District's existing customers. The current development impact fees are charged based on equivalent dwelling units. Raftelis will evaluate the District's existing development impact fees, calculate new fees based on current data, and recommend changes, if necessary.

To calculate development impact fees, Raftelis will first determine the most appropriate method to utilize. There are two general approaches that are widely accepted and appropriate for development impact fees.

1. The **buy-in method** is based on existing assets with sufficient capacity to provide service to new customers. Connection fees are typically based on replacement cost less depreciation and divided by the current demand of the system or the number of customer equivalents to determine the fee.
2. The **incremental cost method** is based on new facilities required to provide service to new customers. The costs and capacity provided by the new facilities are used to determine the fee.

The District has existing capacity, and connection fees will likely be based on the buy-in method.

Meeting(s): One (1) virtual meeting with District staff

Deliverable(s): Connection Fee Model in Microsoft Excel

Task 7 – Miscellaneous Fees

Raftelis has updated miscellaneous fees for many agencies. Raftelis will review the different miscellaneous fees at the District and calculate the cost of the services provided based on labor costs, including overhead, materials, travel costs, and any rentals associated with the services provided. Raftelis will work with the District to understand time, materials, and/or equipment incurred for each fee. Some of the fees that will be included are:

- Inspection fees
- Permit processing fees
- Plan check fees
- Frontage fees
- Industrial permit fees
- Any other fees that the District has implemented

Meeting(s): One (1) virtual meeting with District staff

Deliverable(s): Miscellaneous Fee Model in Microsoft Excel

Task 8 – Draft and Final Report Preparation, Board Meetings

Due to the existing regulatory requirements and recent case law, Raftelis' reports have become more detailed and extensive to ensure that the nexus between costs and rates is clearly identified in each step. Raftelis will prepare a Draft Report which will include an executive summary that will highlight the major issues and decisions reached during the Study, provide details on financial plan development (operations, CIP, revenue forecast, etc.), detail the cost of service analysis, and the final rates resulting from the Study. The Draft Report will walk the reader from data inputs to final proposed rates to demonstrate the nexus between District costs and rates. District staff will be asked to provide input following the completion of the Draft Report in the form of comments, edits, and clarifications.

Following the submittal of the Draft Report, Raftelis will prepare the Final Report, including additional comments or changes from the District and its legal counsel. The Report's ability to explain the rate development process in a clear and understandable manner will promote financial transparency, heighten legal defensibility, and uphold the District's strong reputation with the public. The Final Report will be submitted to the District and will include appropriate supporting data from the Model. Raftelis will present the Final Report and proposed recommendations to the District Board during a Public Hearing.

Meeting(s): One (1) virtual meeting with District staff; one (1) in-person District Board meeting

Deliverable(s): One (1) electronic copy of the Final Report in Microsoft Word; one (1) electronic Financial Plan and Rate Model in Microsoft Excel; one (1) Final Presentation in Microsoft PowerPoint

Task 9 – Proposition 218 Notice

Raftelis will prepare the Proposition 218 Notice with the District's assistance. Raftelis has designed countless rate notices that go beyond the minimum dictated by statute to deliver visually appealing pieces that want to read. Content will include all statutorily required elements (including SB 323 language and objections procedures of AB 2257), along with strategic communications messages to ensure it properly communicates the need and justification for changes to rates, and so that customers are given the tools to understand impacts. Beyond satisfying legal requirements, the goal of the notice will be to describe the public process that went into the recommendations and make the case for why adoption is critical to maintain sanitation services.

Once the content passes legal review, Raftelis' will match the District's established brand guidelines and flow the content into an attractive design. Our pricing includes the development of a print-ready PDF in English and Spanish, excluding the cost of translation. If the District does not have access to the services of a certified translator, Raftelis can recommend and coordinate translation.

It is anticipated that District staff will liaise with the printer and mail house, and contract directly with them for payment. If desired, Raftelis can provide liaison services at our standard hourly rates. The notice must be postmarked to all affected property owners in the District's service area with sufficient time prior to the public hearing.

Meeting(s): One (1) virtual meeting with District staff to review edits and changes to the draft notice

Deliverable(s): Draft notification language for legal counsel's review and approval; fully designed notification with up to two rounds of revisions and a final print-ready PDF

SCHEDULE

Raftelis will complete the scope of services within the timeframe shown in the schedule below. The proposed schedule assumes a notice-to-proceed in September 2026, that Raftelis will receive required data in a timely manner, and that Raftelis will be able to schedule meetings with District staff, as necessary. Project completion is estimated for end of February with Board meetings in March and April.



FEES

Raftelis proposes to complete the scope of work outlined in our proposal on a lump sum basis as shown below. The following table provides a breakdown of the estimated level of effort required for completing each task described. Our scope of work includes the number of in-person and/or virtual meetings shown in the table below. Should the District require additional meetings or presentations to stakeholders, these can be arranged upon request at an added cost, which will be determined based on the scope and content of the meeting and/or presentation requested.

Task No	Task Descriptions		No of Meetings	Total Fees & Expenses
1	Project Management, Administration, and Initiation		1	\$ 5,865
2	Review User Classification		2	\$ 7,505
3	Financial Plan Development		2	\$ 15,490
4	Cost of Service Analysis			\$ 5,905
5	Wastewater Rates Calculation		2	\$ 6,330
6	Development Connection Fees		1	\$ 7,065
7	Miscellaneous Fees		1	\$ 4,545
8	Draft and Final Report Preparation, Board Meeting		2	\$ 15,180
9	Prepare 218 Notice		1	\$ 6,735
TOTAL ESTIMATED MEETINGS / HOURS			12	
HOURLY RATES				
PROFESSIONAL FEES				
	SP - Sudhir Pardiwala	KK - Kevin Kostiuk		
	MW - Matt Wittern	FC - Financial Consultants		
	Admin - Administration		TOTAL FEES	\$74,620



Carpinteria Sanitary District

Board of Directors Meeting

STAFF REPORT

TO: Board of Directors

FROM: Craig Murray, P.E. - General Manager

SUBJECT: Cash Contract No. 538 – Water Systems Consulting, Inc.
Collection System Master Plan Update

DATE: September 15, 2026

REQUESTED ACTION: That the Board review and approve Cash Contract No. 538 between the Carpinteria Sanitary District and Water Systems Consulting, Inc. (WSC) for a Collection System Master Plan Update and amend the project budget to a total of \$150,000.

FUNDING SOURCE: CIP Project P-241

BACKGROUND: The District completed and approved a Sewer System Master Plan most recently in 2005. This document guided numerous sewer improvements over the past two decades and remained adequate for planning purposes over this period due to water conservation and limited residential and commercial growth. Recently, large regional development proposals have heightened the importance of long-range capacity planning. Changes in regional zoning and system upgrades to reduce infiltration and inflow have also affected projected dry weather and wet weather flow regimes since 2005.

The 2005 master plan was based on a dynamic hydraulic model of the District's collection system built in a software platform called Hydra. In 2021 the District completed a project to redevelop our hydraulic system model in a newer platform called InfoSewer, with direct support from Innovyze, the InfoSewer developer. Since that time, Innovyze was acquired by Autodesk and InfoSewer has essentially been retired in favor of a different Autodesk product.

The proposed project involves conversion of the District's InfoSewer hydraulic model to a new platform and comprehensive updating of model data. This would be the basis for a new Collection System Master Plan that evaluates collection system capacity, considering revised zoning, changes in infill development patterns and other factors.

The District requested a proposal from Water Systems Consulting (WSC) for this master planning effort. Over the past several years we have engaged WSC to evaluate hydraulic impacts from several large development proposals using our existing InfoSewer model. Jeroen Olthof, a project manager for WSC, has provided excellent support and exhibited technical expertise in modeling and system planning. WSC submitted a detailed proposal on September 8th with an estimated fee of \$149,936.

Cash Contract No. 538 was prepared to engage WSC to perform a Collection System Master Plan update, including redevelopment of a GIS based hydraulic model. The work would include evaluation of available modeling software and a recommendation for the best fit application for our needs. A comprehensive analysis of our existing system flows and projected future flows would be

performed using the redeveloped model. This analysis would identify capacity limitations based on accepted engineering guidelines and result in recommended system improvements in the form of an updated, collection system specific capital improvement program. The master plan and updated hydraulic model will be important planning tools for the District going forward. Their complete proposal is provided as an attachment to Cash Contract No. 538.

The District's FY 2026/27 budget authorized \$125,000 for this capital project. In the final scoping process, we requested additional work beyond what was initially contemplated. It is recommended that the CIP budget for this project be increased to \$150,000.

RECOMMENDATION: Staff recommends that the Board approve Cash Contract No. 538 with Water Systems Consulting, Inc. for an updated Collection System Master Plan with a not to exceed contract amount of \$149,936 and increase the budget for CIP Project P-241 to \$150,000.

SUGGESTED MOTION: I move that the Board approve Cash Contract No. 538 with Water Systems Consulting, Inc. as presented and to increase the budget for CIP Project P-241 to a total of \$150,000.

M_____ S_____

Ayes:_____ Nays:_____ Abstentions:_____

Prepared By: _____
Craig Murray, P.E. - General Manager

Attachment: Cash Contract No. 538

\\CARP-FILE01\Admin\Board\Staff Reports\2026\09.15.26\CC538_WSC.doc

CASH CONTRACT # 538
AGREEMENT FOR
PROFESSIONAL SERVICES
BETWEEN
THE CARPINTERIA SANITARY DISTRICT AND
WATER SYSTEMS CONSULTING, INC.

THIS AGREEMENT is entered into this 15th day of September 2026, by and between the CARPINTERIA SANITARY DISTRICT, a public utility district formed under the laws of California (“DISTRICT”) and WATER SYSTEMS CONSULTING, INC. a California Corporation (“CONSULTANT”). The Parties agree as follows:

1. CONSIDERATION.

- A. As partial consideration, CONSULTANT agrees to perform the work listed in the SCOPE OF SERVICES, below;
- B. As additional consideration, CONSULTANT and DISTRICT agree to abide by the terms and conditions contained in this Agreement;
- C. As additional consideration, DISTRICT agrees to pay CONSULTANT a sum not to exceed \$149,936 for CONSULTANT’s services. DISTRICT may modify this amount as set forth below. Unless otherwise specified by written amendment to this Agreement, DISTRICT will pay this sum as specified in the attached Exhibit “A,” which is incorporated by reference.

2. SCOPE OF SERVICES.

- A. CONSULTANT will perform services listed in the attached Exhibit “A,” which is incorporated by reference.
- B. CONSULTANT will, in a professional manner, furnish all of the labor, technical, administrative, professional and other personnel, all supplies and materials, equipment, printing, vehicles, transportation, office space and facilities, and all tests, testing and analyses, calculation, and all other means whatsoever, except as herein otherwise expressly specified to be furnished by DISTRICT, necessary or proper to perform and complete the work and provide the professional services required of CONSULTANT by this Agreement.

3. PERFORMANCE STANDARDS. While performing this Agreement, CONSULTANT will use the appropriate generally accepted professional standards of practice existing at the time of performance utilized by persons engaged in providing similar services (“Standard of Care”). DISTRICT will continuously monitor CONSULTANT’s services. DISTRICT will notify CONSULTANT of any deficiencies and CONSULTANT will have fifteen (15) days after such

notification to cure any shortcomings to DISTRICT's satisfaction. Reasonable costs associated with curing the negligently caused deficiencies will be borne by CONSULTANT.

4. PAYMENTS. For DISTRICT to pay CONSULTANT as specified by this Agreement, CONSULTANT must submit a detailed invoice to DISTRICT which lists the hours worked and hourly rates for each personnel category and reimbursable costs (all as set forth in Exhibit A) the tasks performed, the percentage of the task completed during the billing period, the cumulative percentage completed for each task, the total cost of that work during the preceding billing month and a cumulative cash flow curve showing projected and actual expenditures versus time to date.

5. NON-APPROPRIATION OF FUNDS. Payments due and payable to CONSULTANT for current services are within the current budget and within an available, unexhausted and unencumbered appropriation of the DISTRICT. In the event the DISTRICT has not appropriated sufficient funds for payment of CONSULTANT services beyond the current fiscal year, this Agreement will cover only those costs incurred up to the conclusion of the current fiscal year.

6. ADDITIONAL WORK.

- A. DISTRICT's General Manager ("Manager") may determine, at the Manager's sole discretion, that CONSULTANT must perform additional work ("Additional Work") to complete the Scope of Work. If Additional Work is needed, the Manager will give written authorization to CONSULTANT to perform such Additional Work.
- B. If CONSULTANT believes Additional Work is needed to complete the Scope of Work, CONSULTANT will provide the Manager with written notification that contains a specific description of the proposed Additional Work, reasons for such Additional Work, and a detailed proposal regarding cost.
- C. Payments over \$149,936 for Additional Work must be approved by DISTRICT's Board of Directors. All Additional Work will be subject to all other terms and provisions of this Agreement.

7. FAMILIARITY WITH WORK.

- A. By executing this Agreement, CONSULTANT agrees that it has:
 - i. Carefully investigated and considered the scope of services to be performed;
 - ii. Carefully considered how the services should be performed; and
 - iii. Understands the facilities, difficulties, and restrictions attending performance of the services under this Agreement.

- B. If services involve work upon any site, CONSULTANT agrees that CONSULTANT has or will investigate the site and is or will be fully acquainted with the conditions there existing, before commencing the services hereunder. Should CONSULTANT discover any latent or unknown conditions that may materially affect the performance of the services, CONSULTANT will immediately inform DISTRICT of such fact and will not proceed except at CONSULTANT's own risk until written instructions are received from DISTRICT.

8. **TERM.** The term of this Agreement will be from September 15, 2026 to September 15, 2027. Unless otherwise determined by written amendment between the parties, this Agreement will terminate in the following instances:

- A. Completion of the work specified in Exhibit "A";
- B. Termination as stated in Section 16.

9. **TIME FOR PERFORMANCE.**

- A. CONSULTANT will not perform any work under this Agreement until:
 - i. CONSULTANT furnishes proof of insurance as required under Section 23 of this Agreement; and
 - ii. DISTRICT gives CONSULTANT a written notice to proceed.
- B. Should CONSULTANT begin work on any phase in advance of receiving written authorization to proceed, any such professional services are at CONSULTANT's own risk.

10. **TIME EXTENSIONS.** Should CONSULTANT be delayed by causes beyond CONSULTANT's control, DISTRICT may grant a time extension for the completion of the contracted services. If delay occurs, CONSULTANT must notify the Manager within forty-eight hours (48 hours), in writing, of the cause and the extent of the delay and how such delay interferes with the Agreement's schedule. The Manager will extend the completion time, when appropriate, for the completion of the contracted services.

11. **CONSISTENCY.** In interpreting this Agreement and resolving any ambiguities, the main body of this Agreement takes precedence over the attached Exhibits; this Agreement supersedes any conflicting provisions. Any inconsistency between the Exhibits will be resolved in the order in which the Exhibits appear below:

Exhibit "A" – Water Systems Consulting, Inc. September 8, 2026 Proposal

12. **CHANGES.** DISTRICT may order changes in the services within the general scope of this Agreement, consisting of additions, deletions, or other revisions, and the contract sum and the contract time will be adjusted accordingly. All such changes must be authorized in writing, executed by CONSULTANT and DISTRICT. The cost or credit to DISTRICT resulting from

changes in the services will be determined in accordance with written agreement between the parties.

13. TAXPAYER IDENTIFICATION NUMBER. CONSULTANT will provide DISTRICT with a Taxpayer Identification Number.

14. PERMITS AND LICENSES. CONSULTANT, at its sole expense, will obtain and maintain during the term of this Agreement, all necessary permits, licenses, and certificates that may be required in connection with the performance of services under this Agreement.

15. WAIVER. DISTRICT's review or acceptance of, or payment for, work product prepared by CONSULTANT under this Agreement will not be construed to operate as a waiver of any rights DISTRICT may have under this Agreement or of any cause of action arising from CONSULTANT's performance. A waiver by DISTRICT of any breach of any term, covenant, or condition contained in this Agreement will not be deemed to be a waiver of any subsequent breach of the same or any other term, covenant, or condition contained in this Agreement, whether of the same or different character.

16. TERMINATION.

- A. Except as otherwise provided, DISTRICT may terminate this Agreement at any time with or without cause.
- B. CONSULTANT may terminate this Agreement at any time with DISTRICT's mutual consent. Notice will be in writing at least thirty (30) days before the effective termination date.
- C. Upon receiving a termination notice, CONSULTANT will immediately cease performance under this Agreement unless otherwise provided in the termination notice. Except as otherwise provided in the termination notice, any additional work performed by CONSULTANT after receiving a termination notice will be performed at CONSULTANT's own cost; DISTRICT will not be obligated to compensate CONSULTANT for such work.
- D. Should termination occur, all finished or unfinished documents, data, studies, surveys, drawings, maps, reports and other materials prepared by CONSULTANT will, at DISTRICT's option, become DISTRICT's property, and CONSULTANT will receive just and equitable compensation for any work satisfactorily completed up to the effective date of notice of termination, not to exceed the total costs under Section 1(C).
- E. Should the Agreement be terminated pursuant to this Section, DISTRICT may procure on its own terms services similar to those terminated.
- F. By executing this document, CONSULTANT waives any and all claims for damages that might otherwise arise from DISTRICT's termination under this Section.

17. OWNERSHIP OF DOCUMENTS. All documents, data, studies, drawings, maps, models, photographs and reports prepared by CONSULTANT under this Agreement are DISTRICT's property. CONSULTANT may retain copies of said documents and materials as desired, but will deliver all original materials to DISTRICT upon DISTRICT's written notice. DISTRICT agrees that use of CONSULTANT's completed work product, for purposes other than identified in this Agreement, or use of incomplete work product, is at DISTRICT's own risk.

18. PUBLICATION OF DOCUMENTS. Except as necessary for performance of service under this Agreement, no copies, sketches, or graphs of materials, including graphic art work, prepared pursuant to this Agreement, will be released by CONSULTANT to any other person or public DISTRICT without DISTRICT's prior written approval. All press releases, including graphic display information to be published in newspapers or magazines, will be approved and distributed solely by DISTRICT, unless otherwise provided by written agreement between the parties.

19. INDEMNIFICATION.

A. CONSULTANT agrees to the following:

- i. *Indemnification for Professional Services.* CONSULTANT will save harmless and indemnify and at DISTRICT's request reimburse defense costs for DISTRICT and all its officers, volunteers, employees and representatives from and against any and all suits, actions, or claims, of any character whatever, brought for, or on account of, any injuries or damages sustained by any person or property to the extent caused by any negligent or wrongful act, error or omission by CONSULTANT or any of CONSULTANT's officers, agents, employees, or representatives, in the performance of this Agreement, except for such loss or damage arising from DISTRICT's sole or active negligence or willful misconduct. Notwithstanding any language to the contrary in this Agreement, CONSULTANT shall only be required to reimburse DISTRICT for defense fees and costs (including reasonable attorney's fees), in proportion to CONSULTANT's proven acts of negligence and further, only to the extent such fees and costs were directly attributable to DISTRICT's defense of a suit based on CONSULTANT's proven negligence. The Parties also acknowledge that this Agreement is subject to California Civil Code 2782.8 as amended and effective January 1, 2018. DISTRICT agrees that CONSULTANT's liability is limited to the aggregate total of the insurance requirements in this Agreement.
- ii. *Indemnification for other Damages.* CONSULTANT indemnifies and holds DISTRICT harmless from and against any claim, action, damages, costs (including, without limitation, attorney's fees), injuries, or liability, arising out of this Agreement, or its performance, except for such loss or damage arising from DISTRICT's sole negligence or willful misconduct. Should DISTRICT be named in any suit, or should any claim be brought against it by suit or otherwise, whether the same be groundless or not, arising out of this Agreement, or its performance, CONSULTANT will defend

DISTRICT (at DISTRICT's request and with counsel satisfactory to DISTRICT) and will indemnify DISTRICT for any judgment rendered against it or any sums paid out in settlement or otherwise. DISTRICT agrees that CONSULTANT's liability is limited to the aggregate total of the insurance requirements in this Agreement.

- B. For purposes of this section "DISTRICT" includes DISTRICT's officers, officials, employees, agents, representatives, and certified volunteers.
- C. It is expressly understood and agreed that the foregoing provisions will survive termination of this Agreement.
- D. The requirements as to the types and limits of insurance coverage to be maintained by CONSULTANT as required by Section 23, and any approval of said insurance by DISTRICT, are not intended to and will not in any manner limit or qualify the liabilities and obligations otherwise assumed by CONSULTANT pursuant to this Agreement, including, without limitation, to the provisions concerning indemnification.

20. ASSIGNABILITY. This Agreement is for CONSULTANT's professional services. CONSULTANT's attempts to assign the benefits or burdens of this Agreement without DISTRICT's written approval are prohibited and will be null and void.

21. INDEPENDENT CONTRACTOR. DISTRICT and CONSULTANT agree that CONSULTANT will act as an independent contractor and will have control of all work and the manner in which it is performed. CONSULTANT will be free to contract for similar service to be performed for other employers while under contract with DISTRICT. CONSULTANT is not an agent or employee of DISTRICT and is not entitled to participate in any pension plan, insurance, bonus or similar benefits DISTRICT provides for its employees. Any provision in this Agreement that may appear to give DISTRICT the right to direct CONSULTANT as to the details of doing the work or to exercise a measure of control over the work means that CONSULTANT will follow the direction of the DISTRICT as to end results of the work only.

22. AUDIT OF RECORDS. CONSULTANT will maintain full and accurate records with respect to all services and matters covered under this Agreement. DISTRICT will have free access at all reasonable times to such records, and the right to examine and audit the same and to make transcript therefrom, and to inspect all program data, documents, proceedings and activities. CONSULTANT will retain such financial and program service records for at least three (3) years after termination or final payment under this Agreement.

23. INSURANCE.

- A. Before commencing performance under this Agreement, and at all other times this Agreement is effective, CONSULTANT will procure and maintain the following types of insurance with coverage limits complying, at a minimum, with the limits set forth below:

Type of Insurance

Limits

Commercial general liability: \$2,000,000

Professional Liability \$1,000,000

Business automobile liability \$1,000,000

Workers compensation Statutory requirement

- B. Commercial general liability insurance will meet or exceed the requirements of the most recent ISO-CGL Form. The amount of insurance set forth above will be a combined single limit per occurrence for bodily injury, personal injury, and property damage for the policy coverage. Liability policies will be endorsed to name DISTRICT, its officials, and employees as “additional insureds” under said insurance coverage and to state that such insurance will be deemed “primary” such that any other insurance that may be carried by DISTRICT will be excess thereto. Such endorsement must be reflected on ISO Form No. CG 20 10 11 85 or 88, or equivalent. Such insurance will be on an “occurrence,” not a “claims made,” basis and will not be cancelable or subject to reduction except upon thirty (30) days prior written notice to DISTRICT.
- C. Professional liability coverage will be on an “occurrence basis” if such coverage is available, or on a “claims made” basis if not available. When coverage is provided on a “claims made basis,” CONSULTANT will continue to renew the insurance for a period of three (3) years after this Agreement expires or is terminated. Such insurance will have the same coverage and limits as the policy that was in effect during the term of this Agreement, and will cover CONSULTANT for all claims made by DISTRICT arising out of any errors or omissions of CONSULTANT, or its officers, employees or agents during the time this Agreement was in effect.
- D. Automobile coverage will be written on ISO Business Auto Coverage Form CA 00 01 06 92, including symbol 1 (Any Auto).
- E. CONSULTANT will furnish to DISTRICT duly authenticated Certificates of Insurance evidencing maintenance of the insurance required under this Agreement and such other evidence of insurance or copies of policies as may be reasonably required by DISTRICT from time to time. Insurance must be placed with insurers with a current A.M. Best Company Rating equivalent to at least a Rating of “A:VII.”
- F. Should CONSULTANT, for any reason, fail to obtain and maintain the insurance required by this Agreement, DISTRICT may obtain such coverage at CONSULTANT’s expense and deduct the cost of such insurance from payments due to CONSULTANT under this Agreement or terminate pursuant to Section 16.
- G. Self-Insured Retention/Deductibles. All policies required by this Agreement must allow DISTRICT, as additional insured, to satisfy the self-insured retention (“SIR”)

and deductible of the policy in lieu of CONSULTANT (as the named insured) should CONSULTANT fail to pay the SIR or deductible requirements. The amount of the SIR or deductible is subject to the approval of the General Manager. CONSULTANT understands and agrees that satisfaction of this requirement is an express condition precedent to the effectiveness of this Agreement. Failure by CONSULTANT as primary insured to pay its SIR or deductible constitutes a material breach of this Agreement. Should DISTRICT pay the SIR or deductible on DISTRICT's behalf upon the CONSULTANT'S failure or refusal to do so in order to secure defense and indemnification as an additional insured under the policy, DISTRICT may include such amounts as damages in any action against CONSULTANT for breach of this Agreement in addition to any other damages incurred by DISTRICT due to the breach.

24. USE OF SUBCONTRACTORS. CONSULTANT must obtain DISTRICT's prior written approval to use any consultants while performing any portion of this Agreement. Such approval must approve of the proposed consultant and the terms of compensation.

25. INCIDENTAL TASKS. CONSULTANT will meet with DISTRICT monthly to provide the status on the project, which will include a schedule update and a short narrative description of progress during the past month for each major task, a description of the work remaining and a description of the work to be done before the next schedule update.

26. NOTICES. All communications to either party by the other party will be deemed made when received by such party at its respective name and address as follows:

If to CONSULTANT:

Attention: Jeroen Olthof
Water Systems Consulting, Inc..
PO Box 4255
San Luis Obispo, CA 9340
805-457-8833
jolthof@wsc-inc.com

If to DISTRICT:

Attention: Craig Murray
Carpinteria Sanitary District
5300 Sixth Street
Carpinteria, CA 93013
(805) 684-7214 x112
craigm@carpsan.com

Any such written communications by mail will be conclusively deemed to have been received by the addressee upon deposit thereof in the United States Mail, postage prepaid and properly addressed as noted above. In all other instances, notices will be deemed given at the time of actual delivery. Changes may be made in the names or addresses of persons to whom notices are to be given by giving notice in the manner prescribed in this paragraph.

27. CONFLICT OF INTEREST. CONSULTANT will comply with all conflict of interest laws and regulations including, without limitation, DISTRICT's conflict of interest regulations.

28. SOLICITATION. CONSULTANT maintains and warrants that it has not employed nor retained any company or person, other than CONSULTANT's bona fide employee, to solicit or secure this Agreement. Further, CONSULTANT warrants that it has not paid nor has it agreed to pay any company or person, other than CONSULTANT's bona fide employee, any fee,

commission, percentage, brokerage fee, gift or other consideration contingent upon or resulting from the award or making of this Agreement. Should CONSULTANT breach or violate this warranty, DISTRICT may rescind this Agreement without liability.

29. THIRD PARTY BENEFICIARIES. This Agreement and every provision herein is generally for the exclusive benefit of CONSULTANT and DISTRICT and not for the benefit of any other party. There will be no incidental or other beneficiaries of any of CONSULTANT's or DISTRICT's obligations under this Agreement.

30. INTERPRETATION. This Agreement was drafted in, and will be construed in accordance with the laws of the State of California, and exclusive venue for any action involving this agreement will be in Santa Barbara County.

31. COMPLIANCE WITH LAW. CONSULTANT agrees to comply with all federal, state, and local laws applicable to this Agreement in a manner consistent with the Standard of Care.

32. ENTIRE AGREEMENT. This Agreement, and its Attachments, sets forth the entire understanding of the parties. There are no other understandings, terms or other agreements expressed or implied, oral or written. There is one Attachment to this Agreement. This Agreement will bind and inure to the benefit of the parties to this Agreement and any subsequent successors and assigns.

33. RULES OF CONSTRUCTION. Each Party had the opportunity to independently review this Agreement with legal counsel. Accordingly, this Agreement will be construed simply, as a whole, and in accordance with its fair meaning; it will not be interpreted strictly for or against either Party.

34. SEVERABILITY. If any portion of this Agreement is declared by a court of competent jurisdiction to be invalid or unenforceable, then such portion will be deemed modified to the extent necessary in the opinion of the court to render such portion enforceable and, as so modified, such portion and the balance of this Agreement will continue in full force and effect.

35. AUTHORITY/MODIFICATION. The Parties represent and warrant that all necessary action has been taken by the Parties to authorize the undersigned to execute this Agreement and to engage in the actions described herein. This Agreement may be modified by written amendment. DISTRICT's Manager, or designee, may execute any such amendment on behalf of DISTRICT.

36. ELECTRONIC SIGNATURES. This Agreement may be executed by the Parties on any number of separate counterparts, and all such counterparts so executed constitute one Agreement binding on all the Parties notwithstanding that all the Parties are not signatories to the same counterpart. In accordance with Government Code §16.5, the Parties agree that this Agreement, Agreements ancillary to this Agreement, and related documents to be entered into in connection with this Agreement will be considered signed when the signature of a party is delivered by electronic transmission. Such electronic signature will be treated in all respects as having the same effect as an original signature.

37. CAPTIONS. The captions of the paragraphs of this Agreement are for convenience of

reference only and will not affect the interpretation of this Agreement.

38. TIME IS OF ESSENCE. Time is of the essence for each and every provision of this Agreement. DISTRICT recognizes that CONSULTANT's performance must be governed by sound professional practices in a manner consistent with the Standard of Care.

39. FORCE MAJEURE. Should performance of this Agreement be prevented due to fire, flood, explosion, acts of terrorism, war, embargo, government action, civil or military authority, the natural elements, endemics, pandemics or other similar causes beyond the Parties' reasonable control, then the Agreement will immediately terminate without obligation of either party to the other.

40. STATEMENT OF EXPERIENCE. By executing this Agreement, CONSULTANT represents that it has demonstrated trustworthiness and possesses the quality, fitness and capacity to perform the Agreement in a manner satisfactory to DISTRICT. CONSULTANT represents that its financial resources, surety and insurance experience, service experience, completion ability, personnel, current workload, experience in dealing with private consultants, and experience in dealing with public agencies all suggest that CONSULTANT is capable of performing the proposed contract and has a demonstrated capacity to deal fairly and effectively with and to satisfy a public DISTRICT.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first hereinabove written.

CARPINTERIA SANITARY DISTRICT

WATER SYSTEMS CONSULTING, INC.

Craig Murray, P.E.
General Manager

Jeroen Olthof, P.E.
Project Manager

Taxpayer ID No. _____



9/8/2026

Craig Murray, PE
Carpinteria Sanitary District
5300 Sixth Street
Carpinteria, CA 93013

SUBJECT: PROPOSAL FOR COLLECTION SYSTEM MASTER PLAN UPDATE

Dear Mr. Murray,

Based on our discussion, Water Systems Consulting, Inc. (WSC) has prepared this proposal to prepare a Collection System Master Plan Update for the Carpinteria Sanitary District (District). The following pages include WSC's proposed scope and budget for the project, as well as a brief summary of WSC's qualifications.

We appreciate the opportunity to continue to work with the District. If you have any questions or comments, or if you would like to discuss this proposal, please let me know.

Sincerely,

Water Systems Consulting, Inc.

A handwritten signature in black ink, appearing to read 'Jeroen Olthof', with a long horizontal stroke extending to the right.

Jeroen Olthof, PE
jolthof@wsc-inc.com
Project Manager

Understanding

The Carpinteria Sanitary District (District) last completed a comprehensive Wastewater Collection System Master Plan in April 2005, prepared by Dudek & Associates, Inc. (2005 Plan). The 2005 Plan developed a computerized hydraulic model of the District's collection system, evaluated existing and ultimate build-out capacity under dry- and wet-weather conditions, and produced a prioritized Capital Improvement Program (CIP). After completion of the 2005 Plan, the District's hydraulic model was migrated to InfoSewer, a modeling software platform marketed by Innovyze. Innovyze has since been sold to Autodesk, and Autodesk has stopped supporting the InfoSewer platform.

The District wishes to develop an update to the Wastewater Collection System Master Plan. The project will include development of an updated hydraulic model of the collection system and an updated evaluation of hydraulic capacity throughout the District's system.

The District has an existing program to perform closed-circuit television (CCTV) inspection of its gravity mains. The District also has an existing program to perform pipeline rehabilitation and repairs in response to defects that are identified during inspections. Therefore, this master plan update will not identify improvement projects based on system condition. The focus of this master plan update will be on hydraulic capacity analysis and evaluation of potential upgrades to address any capacity deficiencies.

Key data sources to be used include:

- 2005 Wastewater Collection System Master Plan
- Current hydraulic model of the collection system
- District's Geographic Information System (GIS) database of infrastructure
- Water consumption data from the District's potable water purveyors (Carpinteria Valley Water District and Montecito Water District) for use in spatially allocating wastewater flows
- Pump station information (wet well dimensions, pump sizes, and controls)
- Flow data at the District's eight pump stations and the wastewater treatment plant (WWTP) for use in model calibration
- Data from the District's network of SmartCover manhole depth sensors for model calibration
- Information about proposed development projects that could generate additional wastewater in the system

This scope and budget are structured to complete the master plan using data currently available from the District. If the need for additional data collection is identified during the project (such as temporary flow monitoring to confirm potential capacity constraints), WSC will work with the District to define a scope and budget for that effort.

Scope of Work

Task 1: Project Management

- Provide ongoing project management, budget and schedule tracking, and coordination with District staff throughout the project.
- Conduct monthly progress check-in meetings with District staff. These regular monthly meetings will be held virtually through an online collaboration platform.

Deliverables:

- Meeting agendas and minutes
- Monthly progress reports to accompany monthly invoice

Assumptions:

- Deliverables will be submitted electronically.
- Project duration will be 12 months

Task 2: Data Collection

- Conduct a project kickoff meeting with District staff to confirm the planning horizon (interim and ultimate build-out), study area boundary, and any changes in project goals since 2005.
- Issue a data request and collect available District data, including the GIS database, current hydraulic model files, water consumption/billing records, and flow monitoring and WWTP records.
- Review the 2005 Plan to confirm the report outline, evaluation criteria, and prior findings that will serve as the baseline for the update.
- Confirm the current status of the 2005 Plan's recommended improvements (e.g., the Plum/Pear replacement project, lift station and force main improvements) and identify which have been completed, are underway, or remain outstanding.

Deliverables:

- Kickoff meeting agenda and minutes
- Draft Chapter 1 (Introduction)

Task 3: Existing System Description

- Facilitate a workshop with District staff to discuss and document current system operations, pump station information, and known areas of concern.
- Prepare an updated overview of the District's service area, Sphere of Influence, population and connections served, and a general system description reflecting conditions as of the

current planning base year.

- Update the summary of service accounts and billing data from the District's current database.
- Update the collection system inventory summary (pipeline length, diameter, material, and age; manhole and cleanout counts; lift station inventory) from the current GIS database.
- Update the description of WWTP flows and permitted capacity, including current average and peak daily flow trends relative to the plant's permitted capacity and the 2005 baseline.

Deliverables:

- Draft Chapter 2 (Existing System Description)

Task 4: Hydraulic Model Development

- Prepare a summary of available modeling software packages that could be used by the District. Facilitate a workshop with District staff to review available packages and select one to be used for this project.
- Develop a new model in the selected software package, incorporating information from the current model, the GIS database, and other datasets provided by the District.
- Assign dry weather flows using water consumption data and return-to-sewer factors by user type.
- Calibrate dry weather flows to flows observed at the pump stations and at the WWTP.
- Assign wet weather flow parameters using available data for rainfall and flow during storm events. Review available flow monitoring and precipitation data to confirm or update the wet-weather peaking factor and diurnal flow patterns used in the 2005 Plan.

Deliverables:

- Draft Chapter 3 (Model Development)

Task 5: Evaluation Criteria

- Review the design and performance criteria used in the 2005 Plan (pipe capacity/depth-to-diameter criteria, minimum slope criteria, peak wet weather peaking factor) and confirm continued applicability. Update criteria to reflect current industry standards, regulatory guidance, and the District's operational experience.
- Confirm the interim and ultimate flow projection methodology to be carried forward into the future system analysis, consistent with the District's current planning horizon.

Deliverables:

- Draft Chapter 4 (Evaluation Criteria)

Task 6: Existing System Analysis

- Develop an updated existing-condition dry-weather flow input file for the hydraulic model.

- Run the hydraulic model for existing average dry weather and peak wet weather conditions and identify pipe segments with inadequate capacity (using the evaluation criteria from Task 5).
- Coordinate with District staff to identify other known system improvement projects (in design, planned, or recently completed) to be reflected in the analysis and CIP.

Deliverables:

- Draft Chapter 5 (Existing System Analysis)

Task 7: Future System Analysis

- Compile information from the District about projected future development within the District's service area into a GIS-based file that includes location, estimated flow, and anticipated timeline.
- Develop model scenarios to simulate future conditions.
- Run the hydraulic model under projected ultimate average dry weather and peak wet weather conditions and identify pipe segments with inadequate future capacity.

Deliverables:

- Draft Chapter 6 (Future System Analysis)

Task 8: Recommended Improvements

- Identify and preliminarily size new capacity-related pipeline improvements needed to address existing and future deficiencies.
- Coordinate recommended capacity improvements with the District's ongoing pipeline rehabilitation/replacement program, manhole rehabilitation needs, and I&I control efforts.
- Organize recommended improvements into near-term (existing system) and long-term (ultimate system) implementation phases.

Deliverables:

- Draft Chapter 7 (Recommended Improvements)

Task 9: Capital Improvement Program

- Prepare updated planning-level opinions of probable construction cost for recommended improvements identified in Task 8, using current unit costs.
- Develop a phased CIP schedule identifying near-term and long-term projects and associated budget-level costs, in a format consistent with the 2005 Plan's CIP tables.

Deliverables:

- Draft Chapter 8 (Capital Improvement Program)

Task 10: Master Plan Report

- Synthesize the results of previous tasks into a concise summary of master plan findings (system inventory, flow trends, hydraulic capacity, and growth) and recommendations (near-term and ultimate collection system improvements, and CIP).
- Compile draft chapters into an Administrative Draft Master Plan for District staff review.
- Incorporate District staff comments and prepare a Draft Master Plan; present findings and recommendations at a District Board meeting.
- Incorporate Board/public comments as directed by the District and issue the Final Wastewater Collection System Master Plan Update.

Deliverables:

- Administrative Draft, Draft, and Final Wastewater Collection System Master Plan Update

Task No.	Task Description	WSC									ALL FIRMS
		Principal in Charge / QC	Project Manager	Project Engineer	Staff Engineer	Administration	WSC Labor Hours	WSC Labor Fee	Expenses	WSC Fee	Total Fee
		Rob Morrow	Jeroen Olthof	Adam Donald	Cason Roberts	Kay Merrill					
	Billing rates, \$/hr	\$415	\$370	\$278	\$188	\$180					
1	Project Management										
1.1	Project Management	4	30			12	46	\$ 14,920	\$ -	\$ 14,920	\$ 14,920
	SUBTOTAL	4	30	0	0	12	46	\$ 14,920	\$ -	\$ 14,920	\$ 14,920
2	Data Collection										
2.1	Data Collection		8	16	16		40	\$ 10,416	\$ -	\$ 10,416	\$ 10,416
	SUBTOTAL	0	8	16	16	0	40	\$ 10,416	\$ -	\$ 10,416	\$ 10,416
3	Existing System Description										
3.1	Existing System Description		8	8	16		32	\$ 8,192	\$ -	\$ 8,192	\$ 8,192
	SUBTOTAL	0	8	8	16	0	32	\$ 8,192	\$ -	\$ 8,192	\$ 8,192
4	Hydraulic Model Development										
4.1	Hydraulic Model Development		16	48	160		224	\$ 49,344	\$ -	\$ 49,344	\$ 49,344
	SUBTOTAL	0	16	48	160	0	224	\$ 49,344	\$ -	\$ 49,344	\$ 49,344
5	Evaluation Criteria										
5.1	Evaluation Criteria		4	4	4		12	\$ 3,344	\$ -	\$ 3,344	\$ 3,344
	SUBTOTAL	0	4	4	4	0	12	\$ 3,344	\$ -	\$ 3,344	\$ 3,344
6	Existing System Analysis										
6.1	Existing System Analysis		8	12	40		60	\$ 13,816	\$ -	\$ 13,816	\$ 13,816
	SUBTOTAL	0	8	12	40	0	60	\$ 13,816	\$ -	\$ 13,816	\$ 13,816
7	Future System Analysis										
7.1	Future System Analysis		8	8	24		40	\$ 9,696	\$ -	\$ 9,696	\$ 9,696
	SUBTOTAL	0	8	8	24	0	40	\$ 9,696	\$ -	\$ 9,696	\$ 9,696
8	Recommended Improvements										
8.1	Recommended Improvements		8	8	16		32	\$ 8,192	\$ -	\$ 8,192	\$ 8,192
	SUBTOTAL	0	8	8	16	0	32	\$ 8,192	\$ -	\$ 8,192	\$ 8,192
9	Capital Improvement Program										
9.1	Capital Improvement Program		8	8	16		32	\$ 8,192	\$ -	\$ 8,192	\$ 8,192
	SUBTOTAL	0	8	8	16	0	32	\$ 8,192	\$ -	\$ 8,192	\$ 8,192
10	Master Plan Report										
10.1	Master Plan Report	8	16	20	48		92	\$ 23,824	\$ -	\$ 23,824	\$ 23,824
	SUBTOTAL	8	16	20	48	0	92	\$ 23,824	\$ -	\$ 23,824	\$ 23,824
	COLUMN TOTALS	12	114	132	340	12	610	\$ 149,936	\$ -	\$ 149,936	\$ 149,936

10% mark-up on direct expenses; 15% mark-up for sub-contracted services
Mileage will be reimbursed at the prevailing federal mileage reimbursement rate in effect at the time of travel
Rates are subject to revision as of January 1 each year.

Relevant Firm Qualifications/Experience

WSC is a comprehensive water resource engineering firm that has qualified staff with extensive experience guiding program development. We excel at supporting the development of programs, from the conceptual phase through to implementation.

WSC delivered more than 30 master plan and master plan updates to our clients, including 10 sewer system master plans.

WSC is a full-service civil and environmental engineering firm with nearly 19 years of experience in the planning, design, construction, and optimization of water and wastewater systems. WSC has developed more than 30 master plans for more than 20 clients, and we excel at integrating our master planning efforts with our clients' interconnected planning initiatives.

We are hydraulic modeling experts and have assisted our clients with the process of moving from a legacy modeling platform to a new platform that suits their current and future needs. WSC has led multiple clients in the evaluation, selection, development, migration, and calibration of their sewer system hydraulic models. This knowledge and experience allow us to anticipate and effectively mitigate potential challenges that may arise.

As a long-term trusted consultant, WSC has built a deep working knowledge of your sewer system and how the Sewer Master Plan can advance your long-term objectives, and we can use this project to help your staff be successful in the important work that they do.

WSC has also supported clients by building dashboards to assist with planning and project management, and GIS-based field data collection tools. WSC has built PowerBI supply and demand dashboards for the cities of Fresno, Folsom, and Santa Barbara, and a groundwater project management dashboard for Eastern Municipal Water District. For San Antonio Water Company, WSC build a GIS-based data collection tool that operations and maintenance staff could use on a table collect and store asset condition and maintenance information.



Wastewater Master Plan

Oak Lodge Water Services District, Oak Grove, OR

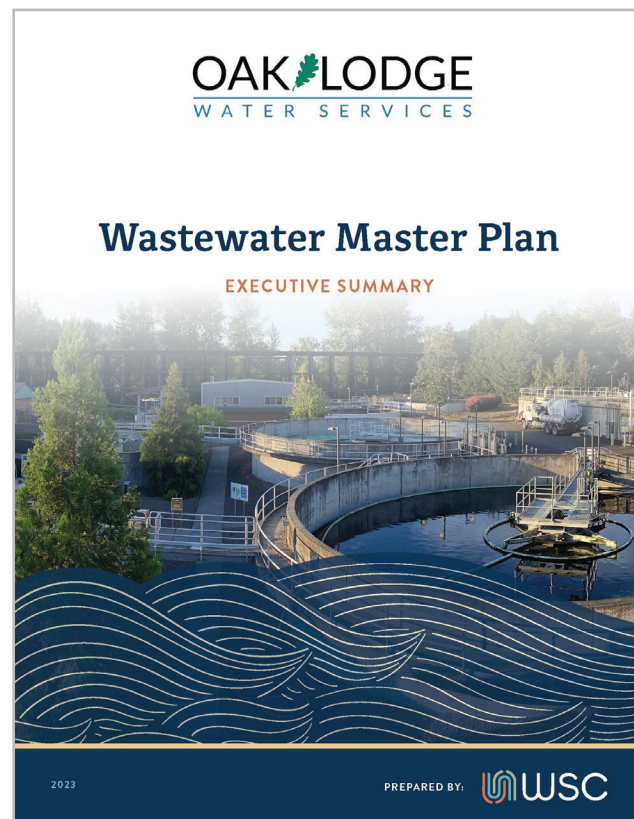
WSC developed a Wastewater Master Plan to guide the planning of capital project expenditures through a 30-year planning horizon. The Wastewater Master Plan updates two previous planning documents: a 2007 Sanitary Sewer Master Plan that focused on the collection system and a 1992 Wastewater Master Plan.

WSC developed the hydraulic model of the sewer system in Bentley Systems' SewerGEMS platform and incorporated the capacity analysis and modeling results in the updated master plan. The model was built using the District's sewer system shapefiles, and included manholes, cleanouts, lift stations, gravity pipes, and force mains. The shapefiles were imported into the hydraulic model, and unique identifiers were used to maintain the connection between the GIS and hydraulic model features.

Throughout the process, alterations were made to address connectivity or import errors and obtain a working hydraulic model. In addition to the geospatial location of the sewer system features, infrastructure attributes, such as pipe material and diameter, were carried over from the OLWS' shapefiles to the model in the import process.

WSC evaluated hydraulic performance of the sewer system, which consisted of analyzing base wastewater flow, groundwater infiltration, and rainfall-derived infiltration and inflow (RDII). Flow monitoring was conducted at eight locations during the winter to assist with developing accurate flow projections. The system sees relatively high volumes of RDII that increase pumping and treatment costs, as well as increasing the risks of sanitary sewer overflows (SSOs).

A total of 11 sewer system projects were identified by WSC as part of the master plan. WSC assigned each project a prioritization score based on weighted criteria identified by the District. The highest priority projects focus on RDII reduction to alleviate the risk of sanitary sewer overflows. The recommended CIP identifies approximately \$160 million in projects, with roughly 50% of the work to be completed within the next 10 years.



OWNER

Oak Lodge Water Services District

KEY SERVICES PROVIDED

- ✓ Sewer Model Development and Calibration
- ✓ GIS and Hydraulic Modeling Integration
- ✓ Flow Monitoring
- ✓ Flow Projections
- ✓ As-Needed Modeling Support

WSC STAFF

Scott Duren (Project Manager), Adam Donald (Deputy Project Manager), Jeroen Olthof (Hydraulic Modeling Technical Advisor)

InfoSWMM Hydraulic Model Evaluation & Conversion

South Tahoe Public Utilities District, CA

Through South Tahoe Public Utility District's on-call sewer modeling program, WSC updated the District's collection system model, analyzed flow-monitoring and rainfall data, supported operational evaluations, replaced legacy InfoSWMM software with AquaTwin Sewer, and expanded modeling coverage from approximately 280 miles to the full 324-mile collection system to improve planning, calibration, and future maintenance.

WSC first reviewed annual flow monitoring reports and sewer flow data, compared observed data with the District's existing InfoSWMM model, evaluated rainfall events, and adjusted RDII response factors as-needed. WSC recommended additional monitoring, prepared draft and final technical memorandum, and delivered updated model files.

When Innovyze (now part of Autodesk) ended support for the InfoSWMM modeling platform, WSC evaluated replacement platforms for InfoSWMM, including Autodesk InfoWorks ICM, Bentley OpenFlows Sewer, and Aquanuity AquaTwin Sewer. WSC facilitated review of model platform options with District staff, and recommended the District convert the model to AquaTwin Sewer because its user-interface was better suited for the District's needs and less expensive than the alternatives.

WSC then migrated the dry-weather model and recent calibration scenarios, developed a model maintenance plan coordinated with GIS, activated missing system segments, redistributed sanitary loads using AMI data and return-to-sewer factors, and provided as-needed sewer modeling support.



Table 2. Attributes of Modeling Software Packages

Attribute	Autodesk InfoWorks ICM	Bentley OpenFlows Sewer	Aquanuity AquaTwin Sewer
User Interface	Stand-alone application	Can run as a stand-alone application, an extension within AutoCAD, or an extension within MicroStation or AutoCAD	Runs as an extension within AutoCAD, requires an EUC license for AutoCAD
Model Migration from InfoSWMM	Export SWMM .inp file from InfoSWMM and import .inp file into InfoWorks ICM Model Group. Each .inp file contains one scenario; scenarios can be rebuilt in InfoWorks ICM.	Export SWMM .inp file from InfoSWMM and import .inp file into SewerGEMS. Each .inp file contains one scenario; scenarios can be rebuilt in SewerGEMS.	Export SWMM .inp file from InfoSWMM and import .inp file into AquaTwin Sewer. Each .inp file contains one scenario; scenarios can be rebuilt in AquaTwin Sewer.
GIS Compatibility	Open Data Import Center allows GIS layers to be used for building and updating a model. Model information can be exported to shapefiles for mapping.	Can run with Model Builder development. Model output mapping.	
Potential to build GIS-model linkage so infrastructure updates don't need to be made in both packages	Information can be imported from GIS format into the model through the Open Data Import Center. Data flags can be used to keep track of the data source for each attribute in the database.	Model Builder (geodatabase) replicates, since last up.	
Scenario Management	Allows different alternatives to be combined into scenarios. Software maintains log of change history and provides ability to revert to older versions if needed.	Allows different Parent-child scenarios to be created.	
Hydraulic Calculation Engine	Choice of InfoWorks ICM engine or EPA-SWMM engine.	Choice of S engine.	

As-Needed Sewer Modeling
South Tahoe Public Utility District



Technical Memorandum

Date: 1/14/2020
To: Brent Gargioli, PE
Prepared By: Jeroen Olthof, PE
Project: On-Call Hydraulic Modeling
Subject: Model Software Selection

1.0 Background

The South Tahoe Public Utility District (STPUD), or the District maintains a computer hydraulic model of its wastewater collection system to assist with system analysis and capital improvement planning. The District's current model was developed using the InfoSWMM package marketed by Innovyze (now part of Autodesk). In 2020, Autodesk will be ending ongoing support for InfoSewer and InfoSWMM, two of its legacy software applications for collection system modeling. Water Systems Consulting, Inc. (WSC) performed an evaluation to make recommendations to the District for migrating its model to a new software platform that will have ongoing support from the software vendor.

2.0 Software Packages

WSC compiled information for the software packages most commonly used for collection system modeling in California. The identified packages included:

- InfoWorks ICM (for Integrated Catchment Modeling) is marketed by Autodesk and is the replacement package recommended by Autodesk for users of InfoSewer and InfoSWMM.
- OpenFlows Sewer, including SewerGEMS (for Geospatial Engineering Modeling Systems) is marketed by Bentley Systems.
- AquaTwin Sewer is marketed by a relatively new software company called Aquanuity.
- MIKE+ is marketed by the Danish Hydraulic Institute or DHI. The MIKE packages are used by a few larger agencies, such as the City of Los Angeles, but they are not as widely used by small to mid-size agencies such as the District.
- PCSWMM is marketed by Computational Hydraulics, Inc. PCSWMM is a lower-cost package that, while providing the same hydraulic capacity calculations through the SWMM engine, does not have as many data management and scenario management

As-Needed Sewer Modeling
South Tahoe Public Utility District

WSC prepared a technical memorandum that evaluated the strengths and weaknesses of three modeling platforms to assist the District in selecting the best fit for their needs.

OWNER

South Tahoe Public Utilities District

KEY SERVICES PROVIDED

- ✓ Sewer Model Analysis
- ✓ Replacement Platform Evaluation
- ✓ Sewer Model Conversion
- ✓ Model Maintenance Plan Development
- ✓ As-needed Modeling Support

WSC STAFF

Jeroen Olthof (Project Manager), Patricia Parks (Hydraulic Modeler)



Wastewater Master Plan

Camarillo Sanitary District, CA

WSC developed a Wastewater Master Plan focused on preparing the District for a major upgrade of its 7.25 mgd WRP to meet new NPDES requirements. The objectives of the plan are to reduce the risk of failure, achieve regulatory compliance, and inform budgeting efforts for the WRP and its collection system. This includes preparing a clear and concise alternatives analysis, updating collection system modeling and evaluation, and asset condition rankings.

WSC developed an all-pipes hydraulic model using SewerGEMS, Bentley's® GIS-based hydraulic modeling software. The model was used to evaluate capital improvements recommendations based on the deficiencies identified in the capacity analysis. The collections system evaluation consisted of developing land-use based loading factors, pump station evaluations, and a pipe age analysis for determining a long-term pipe replacement strategy.

The recommended CIP projects focused on condition-based needs for repair or replacement of assets, upgrades required to remain in compliance, and capacity expansion to meet future growth.

KEY SERVICES PROVIDED

- ✓ Regulatory Compliance Planning
- ✓ Collection System Modeling
- ✓ Capacity and Condition Assessment
- ✓ WRP Alternatives Analysis
- ✓ Treatment Process Evaluation
- ✓ Capital Improvement Plan Development

WSC STAFF

Jeroen Olthof (Technical Advisor), Patricia Parks (Hydraulic Modeler), Adam Donald (Collections System Modeling Lead)



Sewer Master Plan Updates

City of Paso Robles

WSC developed evaluated the Paso Robles' 2019 Wastewater Master Plan, which was last updated in 2007, and recently began the 2026 update of the plan. The City provides wastewater collection services via approximately 126 miles of gravity sewer mains, 2,665 manholes, 1.6 miles of force mains, and 14 lift stations. WSC also developed a hydraulic model of the sewer system using SewerGEMS.

The 2019 master plan included developing flow projections, condition-based improvement planning and a survey of the capacity limitations to anticipate expected growth. From the condition assessment and capacity analysis, WSC identified rehabilitation and replacement needs for the collection system to update the CIP. Projects were prioritized based on what planning horizon they were needed for, including existing, 5-year, 10-year, and build out, and estimated construction costs.

The 2026 update includes updating existing and projected wastewater flows, calibrating and updating the hydraulic model, and targeted capacity and reliability recommendations. WSC is developing the CIP supported by planning-level cost estimates and one-page project sheets, coordinated where feasible with roadway improvements to optimize spending and limit community disruption.

KEY SERVICES PROVIDED

- ✓ Data Collection and Flow Projections
- ✓ Hydraulic Modeling
- ✓ Capacity and Condition Assessment
- ✓ CIP Development and Prioritization
- ✓ Construction Cost Estimating

WSC STAFF

Adam Donald (Project Manager), Laine Carlson (2018 QA/QC)



Wastewater Master Plan

City of Milwaukie, OR

WSC prepared an update the City’s Wastewater System Master Plan. The City faced issues related to growth, and sought to expand its service area and evaluate infill densification scenarios. WSC conducted dry and wet weather flow monitoring, developed a SewerGEMS hydraulic model, determined current and projected sewer flows and loads, evaluated system capacity, provided prioritized condition improvements, and conducted a seismic resiliency evaluation. The collection system’s critical infrastructure was evaluated for resiliency to seismic geohazards and climate change.

The City is facing a directive to reduce I&I by 65% by 2040. WSC helped the City gain data on existing conditions through dry and wet weather flow monitoring in subbasins across the service area. The results demonstrated that I&I results are below target levels and extensive rehabilitation can be deferred. WSC worked collaboratively with the City to address data gaps impacting model development. Their GIS lacked invert elevations, so WSC develop a solution that used DOGAMI LIDAR data and existing depth measurements to estimate invert elevations for each manhole to save time and money.

KEY SERVICES PROVIDED

- ✓ Dry and Wet Weather Flow Monitoring
- ✓ Hydraulic Model Development
- ✓ Flow and Capacity Evaluation
- ✓ I&I Analysis
- ✓ Condition Improvement Prioritization
- ✓ Seismic and Climate Resiliency Evaluation

WSC STAFF

Scott Duren (Project Manager), Jeroen Olthof (Modeling Lead), Spencer Waterman (GIS Technician), Adam Donald (Project Engineer)

Sewer Master Plan Update

City of Solvang

WSC worked with the City of Solvang to update its wastewater system master plan, which was last updated in 1988. Solvang’s sewer system is comprised of approximately 31 miles of gravity sewer mains, 645 manholes, 85 cleanouts, 0.56 miles of force mains, and two lift stations. WSC inventoried collection system assets, reviewed existing asset management and maintenance programs, and developed existing and projected sewer flows.

WSC then prepared an all-pipes collection system hydraulic model in SewerGEMS using the City’s GIS data. Work included developing loading assumptions based on land use data, conducting flow monitoring for model calibration, evaluating the collection system for capacity deficiencies, and performing lift station condition assessments and pipe age analysis to identify condition-based improvements.

WSC developed recommended sewer system improvements, planning-level cost estimates, and a prioritized 20-year capital improvement program to help the City budget for and implement an optimal, phased approach to addressing system deficiencies.

KEY SERVICES PROVIDED

- ✓ Hydraulic Model Development
- ✓ Flow Monitoring and Calibration
- ✓ Capacity and Condition Assessment
- ✓ Capital Improvement Program Development
- ✓ Planning-Level Cost Estimating

WSC STAFF

Adam Donald (Project Engineer)