BOARD OF DIRECTORS
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
REGULAR MEETING
1402 N. VOSBURG DR. AZUSA, CA 91702
MONDAY, AUGUST 12, 2024
8:00 AM – 10:00 AM (PDT)

This meeting will be held in person at the District office, located at 1402 North Vosburg Drive, Azusa, California. While the Boardroom is open for public attendance, you are strongly encouraged to participate in the meeting virtually through the remote Zoom link provided below. If you attend the Board meeting in person, please maintain appropriate social distancing to the extent feasible (i.e., maintain a six-foot distance between yourself and other individuals). Face coverings are encouraged but not required for attendees. Lastly, if you are experiencing any COVID-19 symptoms, including fever or chills, cough, shortness of breath or difficulty breathing, fatigue, muscle or body aches, headache, new loss of taste or smell, sore throat, congestion or runny nose, nausea or vomiting or diarrhea, please do not attend the meeting in person.

Join Zoom Meeting
https://us02web.zoom.us/j/89013306120?pwd=SUZJRzFFSDRXUVVTY0NhOXQ0c1I6QT09

Meeting ID: 890 1330 6120
Passcode: 512838
Dial by your location
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PLEDGE OF ALLEGIANCE

ROLL CALL: Eng, Knoles, Paulson, Placido, Prince

PUBLIC COMMENTS FOR ITEMS NOT ON THE AGENDA

UPDATES FROM CITY REPRESENTATIVES

CONSENT CALENDAR: The following matters are expected to be routine and will be acted upon by a single motion with little discussion unless any Director or citizen requests a separate action:

Minutes of the Regular Board Meeting of July 08, 2024
Financial Statements of July 2024
Treasurer's Investment Report Dated June 30, 2024
Disbursements of the Revolving Fund Dated July 11, 2024, Check Nos. 12535 – 12541, EFT and Wires
Disbursements of the Revolving Fund Dated July 25, 2024, Check Nos. 12542 – 12548, EFTs, and Wires
Disbursements of the Revolving Fund Dated August 08, 2024, Check Nos. 12549 – 12553, and Wires
Disbursements of the Revolving Fund Dated August 12, 2024, Check Nos. 12554 - 12557, and Wires
Disbursements of the General Fund Dated July 09 - 31, 2024, Check Nos. 44599 – 44619, and EFTs

Disbursements of the General Fund Dated August 01 - 12, 2024, Check Nos. 44620 – 44670, and EFTs
Disbursements of the State Water Project (SWP) Dated July 22, 2024, Check No. 1008
Future Meeting Attendance Approval: None

ACTION ITEMS

1. Pure Water Project Update
2. Resolution No. 08-2024-837 Adopting Property Tax Rate
3. Resolution No. 08-2024-838 Modifying Purchasing/Procurement Policy in Administrative Code
4. Corrosion Engineering Services

INFORMATION ITEMS

External Affairs Update

UNFINISHED BUSINESS

1. Report on Basin Management
2. Report of WQA
3. Report of the Attorney
4. Report of General Manager/Assistant Manager
5. Report of the State Water Contractors

COMMITTEE MEETING REPORTS

DIRECTOR REPORTS ON EVENTS ATTENDED

DIRECTORS COMMENTS

ADJOURNMENT

THIS AGENDA WAS POSTED ON AUGUST 08, 2024 AT SGVMWD.
THE NEXT REGULAR BOARD MEETING WILL BE ON SEPTEMBER 09, 2024.

MINUTES
BOARD OF DIRECTORS
SAN GABRIEL VALLEY MUNICIPAL
WATER DISTRICT
REGULAR BOARD MEETING
1402 N. VOSBURG DR. AZUSA, CA 91702
MONDAY, JULY 08, 2024
8:00 A.M.

At 8:01 a.m. on July 08, 2024, the Board of Directors meeting was held in person at the District office, located at 1402 North Vosburg Drive, Azusa, California. While the Boardroom was open for public attendance, the District strongly encouraged attendees wanting to attend the meeting to participate in the meeting virtually through the remote Zoom link provided below. Attendees in person were asked to please maintain appropriate social distancing to the extent feasible (i.e., maintain a six-foot distance between yourself and other individuals). Face coverings were encouraged but not required for attendees.

https://us02web.zoom.us/j/89013306120?pwd=SUZJRzFFSDRXUVVTY0NhOXQ0c1l6QT09

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PLEDGE OF ALLEGIANCE

CALL TO ORDER:

President Paulson called the meeting to order at 8:01 a.m.

ROLL CALL:

Directors present at Roll Call: Eng, Knoles, Paulson, Placido, Prince

ALSO PRESENT:

Darin Kasamoto, General Manager; Steve Kiggins, Assistant General Manager; Linda Esquivel, Executive Assistant: Evelyn Reyes, External Affairs Manager; Jim Ciampa, Lagerlof LLP; Dave DePinto and Bob Morales, DMCI; Kelly Gardner, Arrica Jimenez, and Tony Zampiello, Main San Gabriel Basin Watermaster; Tom Love, Upper San Gabriel Valley Municipal Water District

Via telephone/Zoom: Albert Lu, SGVMWD; David Dolphin, City of Alhambra; Melissa Barbosa and Carlos Solis, City of Azusa; Pat Clark and Carrie Buckman, California Department of Water Resources; Frank Heldman, City Of Monterey Park; Ashley Williams; Graham Bradner and Claudia Rodriguez, Delta Conveyance Design & Construction Authority; Dr. David Sunding, UC Berkeley; Ryan Presley; Emmaline Nguyen, DCP; Yadira Rodriguez

PUBLIC COMMENTS ON NON-AGENDA ITEMS

None.

UPDATES FROM THE CITY REPRESENTATIVES

Mr. Dolphin from the City of Alhambra reported that the city was awarded a WaterSmart Grant in the amount of $100,000.00 to purchase AMI Water Meters and to establish a customer portal.

CONSENT CALENDAR:

Minutes of the Regular Board Meeting of June 10, 2024
Financial Statements for June 2024
Disbursements of the Revolving Fund Dated:
June 13, 2024, Check Nos.12520 – 12526, EFT, and Wires in the amount of $63,133.48
June 27, 2024, Check Nos. 12527 – 12530, EFTs, and Wires in the amount of $62,560.60
July 08, 2024, Check Nos. 12531– 12534, and Wires in the amount of $4,765.40
Disbursements of the General Fund Dated:
June 14 - 30, 2024, Check Nos. 44545 – 44561 and EFTs in the amount of $439,998.69
July 03 - 08, 2024, Check Nos. 44562 – 44598, and EFTs in the amount of $782,106.59
Disbursements of the State Water Project (SWP) Dated:
June 24, 2024, Check No. 1007, in the amount of $596,480.00
Future Meeting Attendance Approval: None

On the motion of Director Eng, seconded by Director Placido, and unanimously carried 5-0, the Consent Calendar was approved.

ACTION AGENDA ITEM

RESOLUTION NO. 07-2024-836 – APPRECIATION FOR ANTHONY C. ZAMPIELLO

On motion of Director Placido, seconded by Director Knoles, and unanimously carried 5-0, A RESOLUTION OF THE BOARD OF DIRECTORS OF SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT HONORING ANTHONY C. ZAMPIELLO FOR HIS OUTSTANDING SERVICE AS EXECUTIVE OFFICER FOR THE MAIN SAN GABRIEL BASIN WATERMASTER, Resolution No. 07-2024-836 was approved.

Passed and Adopted by the Board of Directors of the San Gabriel Valley Municipal Water District at their regular meeting held on July 08, 2024, by the following roll call vote:

Ayes: Eng, Knoles, Paulson, Placido, Prince
Noes: None
Absent: None
Abstain: None

DELTA CONVEYANCE PROJECT UPDATE

Ms. Carrie Buckman - CA Department of Water Resources (DWR), Graham Bradner, Delta Conveyance Design and Construction Authority (DCA), and Dr. David Sunding, University of California Berkeley presented to the Board the Delta Conveyance Project PowerPoint presentation that included Cost Estimate and Benefit Cost analysis.

CONSIDER MEMBERSHIP FOR CALIFORNIA SPECIAL DISTRICTS ASSOCIATION

Ms. Reyes reported that the California Special Districts Association (CSDA), established in 1969 is a non-profit organization dedicated to enhancing governance and core local services for independent special districts across California.

On motion of Director Prince, seconded by Director Knoles, and unanimously carried 5-0, the District's membership in the California Special Districts Association was approved for a trial of one year.

MODIFICATION TO PURCHASING/PROCUREMENT POLICY

On motion of Director Prince, seconded by Director Eng, and unanimously carried 5 – 0, Legal Counsel Ciampa was directed to come back with a resolution amending the Administrative Code Purchasing Procurement Policy to address the General Manager's authority with respect to change orders.

INFORMATION ITEMS

EXTERNAL AFFAIRS

External Affairs Report in Agenda Packet.
Ms. Reyes reported on the Water/Climate Resilience Bond, Making Conservation a California Way of Life Regulation, External Affairs highlights of fiscal year 23-24, and upcoming events, including the AAPI Media Event and the Monterey Park PFAS Treatment Plant Ceremony.

DMCI's contract is coming to an end. DMCI will continue to assist with the District's Annual Report. Ms. Reyes thanked Mr. Morales and Mr. DePinto for their years of service to the District.

Mr. DePinto and Mr. Morales thanked the Board for the opportunity they gave them many years ago to establish and work with the External Affairs Department.

UNFINISHED BUSINESS

REPORT ON BASIN MANAGEMENT

Director Placido reported the Main San Gabriel Basin Watermaster adopted a resolution in support of the Los Angeles County Water Plan and authorized the executive officer to sign

Metropolitan Water District of Southern California letter agreements regarding a schedule for payment of Cyclic Water pre-delivered in calendar year 2024.

REPORT OF WQA

No report.

REPORT OF THE ATTORNEY

No report.

REPORT OF THE GENERAL MANAGER/ASSISTANT GENERAL MANAGER

The General Manager's written report is in the Agenda Packet.
The General Manager thanked Mr. Zampiello again for his service and for being proactive with Main Basin water supply issues. He also thanked Mr. Morales and Mr. DePinto for their tremendous work and support.
The General Manager was happy to report that in June, Watermaster was invoiced for the cyclic storage transfer, and the District is all caught up on its replenishment water obligations with the Main San Gabriel Basin. Kudos to the Assistant General Manager for getting this completed while juggling the operation projects.

At the August Board Meeting, Metropolitan Water District will be providing an update on the Pure Water Project.

RFQ's were mailed out to 5 firms for corrosion and engineering services. A recommendation to select a firm will be presented at the next board meeting.

The Assistant General Manager's written report is in the Agenda Packet.
The Assistant General Manager reported L. A. County has some algae issues and therefore they are doing some maintenance in the spreading grounds.

REPORT OF THE STATE WATER CONTRACTORS

The General Manager's written report is in the Agenda Packet.
The General Manager and Counsel Ciampa briefly reported on the Delta Water Quality Plan and Delta Stewardship Council.

COMMITTEE MEETING REPORTS

None.

DIRECTOR REPORTS ON EVENTS ATTENDED

None.

DIRECTOR COMMENTS

None.

ADJOURNED

There being no further business, the meeting was duly adjourned at 10:01 a.m. The next Regular Board Meeting of the San Gabriel Valley Municipal Water District will be on August 12, 2024, at 8:00 a.m.

_____
President

ATTEST:

_____
Secretary

San Gabriel Valley Municipal Water District
Balance Sheet
As of July 31, 2024

	Jul 31, 24
ASSETS	
Current Assets	
Checking/Savings	
1001 · General Fund Bank of America	5,460,521.53
1002 · SWP Fund Account	7,875,871.43
1005 · Revolving Cash Fund	101,685.36
1008 · Petty Cash	442.00
1009 · LAIF	10,987,541.83
1009.01 · LAIF FMV Adjustment	-40,026.03
1011 · UBS Resource Management Account	
1012 · Cash with Broker	32,453.22
1013 · Certificates of Deposit	9,946,844.71
Total 1011 · UBS Resource Management Account	9,979,297.93
1014 · UBS Accrued Interest	-63,027.21
Total Checking/Savings	34,302,306.84
Accounts Receivable	
1603 · Accounts Receivable	24,260.80
Total Accounts Receivable	24,260.80
Other Current Assets	
1605 · Taxes Receivable	-0.34
1606 · Interest Receivable	63,027.21
1620 · Prepaid Expenses	221,507.13
1660 · Water Inventory	465,599.54
Total Other Current Assets	750,133.54
Total Current Assets	35,076,701.18
Fixed Assets	
1862.1 · A/D Safety Project Assets	-1,598.51
1701 · State Water Project Engineering	156,789.28
1702 · State Water Prj Wtr Cntrct Pmts	5,627,376.00
1701.1 · Accum Ammort - State Water Proj	-4,731,779.25
1750 · SCADA 2013	966,165.05
1750.1 · Accum Depreciaton - SCADA 13	-861,884.08
1801 · Pipeline	27,207,443.56
1801.1 · Accum Depreciation - Pipeline	-17,409,883.92
1840 · SCADA Telemetry	48,442.01
1840.1 · Accum Depreciation -SCADA	-14,734.78
1860 · Repaving	3,950.00
1860.1 · A/D Paving	-1,272.82
1861 · Computer	9,865.84
1861.1 · A/D Computers	-6,127.83
1862 · Safety - Protection	47,955.32
1863 · SanDimas Hydro Deflec Batteries	35,595.25
1863.1 · A/D San Dimas Hydro	-15,721.63
1901 · Land	735,931.46
1902 · Buildings	2,320,676.42
1902.1 · Accum Depr - Buildings	-2,312,296.45
1904 · Furniture and Fixtures	182,299.76
1904.1 · Accum Depr - Furn and Fixtures	-137,990.19
1907 · Vehicles	257,156.24
1907.1 · Accum Depr - Vehicles	-208,445.80
1910 · Pipeline Misc Equipment	223,817.49
1910.1 · Accum Depr - Pipeline Misc Equi	-146,198.77
1923 · Hydroelectric Facility San Dima	1,316,586.21
1923.1 · Accum Depr Hydro Elect San D	-92,048.04
1925 · Roof	58,390.47
1925.1 · A/D Roof	-23,599.64
1920 · Construction in Process	
1921.12 · Sch 1 Joint Bond Est Comp 8/24	1,982,271.81

San Gabriel Valley Municipal Water District
Balance Sheet
As of July 31, 2024

	Jul 31, 24
Total 1920 · Construction in Process	1,982,271.81
Total Fixed Assets	15,217,130.46
Other Assets	
1931 · City Of Monterey Park Loan 2021	4,000,000.00
1925.04 · Monterey Park ADV NR Discount	-322,824.00
1932 · City Of Sierra Madre 2020 Loan	2,160,000.00
1932.1 · Loan to Sierra Madre Short T	540,000.00
1927.01 · Sierra Madre NR Discount	-144,057.00
1998.99 · Deferred Outflows -OPEB	156,710.00
1999.99 · 1999.Deferred Outflows of Res	1,727,477.00
Total Other Assets	8,117,306.00
TOTAL ASSETS	**58,411,137.64**
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2001 · Accounts Payable	601,941.79
Total Accounts Payable	601,941.79
Other Current Liabilities	
2010 · Accrued Payroll - V&SL	444,820.47
24000 · Payroll Liabilities	54.15
Total Other Current Liabilities	444,874.62
Total Current Liabilities	1,046,816.41
Long Term Liabilities	
1698.99 · Deferred Inflows- OPEB	1,097,070.00
2219.99 · Net Pension Liability	2,082,082.00
1699.99 · Deferred Inflow of Resources	347,692.00
2209 · Other Post-Employment Benefits	3,986,919.33
Total Long Term Liabilities	7,513,763.33
Total Liabilities	8,560,579.74
Equity	
2301 · Fund Balance	4,292,024.73
2302 · San Bernardino Contribution	1,781,730.83
2970 · Retained Earnings	44,380,657.46
2973 · Contribution Aid Capital	1,280,323.11
Net Income	-1,884,178.23
Total Equity	49,850,557.90
TOTAL LIABILITIES & EQUITY	**58,411,137.64**

San Gabriel Valley Municipal Water District
Income Statement - Actual vs. Budget
July 2024

	Jul 24	Budget	Jul 24	YTD Budget	Annual Budget
Ordinary Income/Expense					
Income					
General Operations					
3002 · Property Tax Revenue	0.00	500,000.00	0.00	500,000.00	6,000,000.00
3003 · Water Sales	0.00	166,667.00	0.00	166,667.00	2,000,000.00
3004 · Interest Income	34,388.91	83,333.00	34,388.91	83,333.00	1,000,000.00
3005 · Ready to Serve Revenue	990.00	990.00	990.00	990.00	11,880.00
3006 · RDA Prop Tax Trust Fund Alloc	354,675.49	58,333.00	354,675.49	58,333.00	700,000.00
3008 · SBVMWD Pipeline Maintenance Rev	0.00	2,500.00	0.00	2,500.00	30,000.00
3016 · Unrealized Gain (Loss) on Inves	36,846.47	0.00	36,846.47	0.00	0.00
Total General Operations	426,900.87	811,823.00	426,900.87	811,823.00	9,741,880.00
Power Revenue Sales					
3210 · Hydro Power Sales	0.00	4,167.00	0.00	4,167.00	50,000.00
Total Power Revenue Sales	0.00	4,167.00	0.00	4,167.00	50,000.00
Restricted Revenue - SWP					
3306 · Tax Revenue - State Water Proje	0.00	833,333.00	0.00	833,333.00	10,000,000.00
Total Restricted Revenue - SWP	0.00	833,333.00	0.00	833,333.00	10,000,000.00
Total Income	426,900.87	1,649,323.00	426,900.87	1,649,323.00	19,791,880.00
Gross Profit	426,900.87	1,649,323.00	426,900.87	1,649,323.00	19,791,880.00
Expense					
Unrestricted G.O. Expenses					
4001 · Director Fees	0.00	5,000.00	0.00	5,000.00	60,000.00
4010 · Salaries- Administrative	18,903.60	27,305.00	18,903.60	27,305.00	327,659.00
4014 · Field Supervision	13,078.80	19,436.00	13,078.80	19,436.00	233,229.00
4020 · Salaries Office	14,714.70	21,255.00	14,714.70	21,255.00	255,054.00
4021 · External Affairs Wages	9,970.00	12,723.00	9,970.00	12,723.00	152,672.00
4022 · Part Time Employee	0.00	0.00	0.00	0.00	0.00
4023 · External Affairs Specialist	3,506.00	6,932.00	3,506.00	6,932.00	83,179.00
4027 · Office Supplies - Equipment Mai	9,806.23	3,667.00	9,806.23	3,667.00	44,000.00
4028 · Water Forum	0.00	0.00	0.00	0.00	0.00
4029 · Election Expenses	0.00	6,833.00	0.00	6,833.00	82,000.00
4031 · Legal Services	0.00	4,167.00	0.00	4,167.00	50,000.00
4032 · State Water Contract Services	0.00	3,917.00	0.00	3,917.00	47,000.00
4033 · Public Relations	4,697.42	11,250.00	4,697.42	11,250.00	135,000.00
4034 · Governmental Relations Consulti	8,115.50	8,167.00	8,115.50	8,167.00	98,000.00
4035 · Consulting & Engineering Expens	6,200.20	83,333.00	6,200.20	83,333.00	1,000,000.00
4036 · Medicare Tax Expense	1,134.94	1,708.00	1,134.94	1,708.00	20,491.00
4039 · PERS - Retiremement Expenses	18,236.20	31,012.00	18,236.20	31,012.00	372,142.00
4040 · Social Security Tax Expense	3,680.75	6,327.00	3,680.75	6,327.00	75,920.00
4041 · State Compensation Fund	3,291.71	1,583.00	3,291.71	1,583.00	19,000.00
4042 · State Unemployment Insurance Ta	0.00	146.00	0.00	146.00	1,748.00

San Gabriel Valley Municipal Water District
Income Statement - Actual vs. Budget
July 2024

	Jul 24	Budget	Jul 24	YTD Budget	Annual Budget
4043 · Health Insurance Expense	31,657.29	32,000.00	31,657.29	32,000.00	384,000.00
4044 · Dental/ Vision Benefit Expense	3,735.08	7,667.00	3,735.08	7,667.00	92,000.00
4045 · Insurance - Liability, Casualty	3,592.75	4,583.00	3,592.75	4,583.00	55,000.00
4046 · Blue Cross Employee Reimburseme	2,835.56	7,500.00	2,835.56	7,500.00	90,000.00
4048 · Life Insurance	352.15	375.00	352.15	375.00	4,500.00
4050 · Dues and Associations	6,538.37	8,167.00	6,538.37	8,167.00	98,000.00
4051 · Travel and Conferences -Dir	2,439.47	2,083.00	2,439.47	2,083.00	25,000.00
4052 · Publications and Periodicals	0.00	25.00	0.00	25.00	300.00
4053 · State Water Contractors Audit	0.00	875.00	0.00	875.00	10,500.00
4054 · Financial Audit Expense	0.00	1,667.00	0.00	1,667.00	20,000.00
4055 · Travel & Conference -Staff	1,276.73	2,500.00	1,276.73	2,500.00	30,000.00
4057 · Taxes - Annual Fee	0.00	5,167.00	0.00	5,167.00	62,000.00
4058 · Tax Collection Fees	0.00	3,333.00	0.00	3,333.00	40,000.00
4059 · Property Tax Expense	0.00	71.00	0.00	71.00	850.00
4060 · Telephone Expense	1,778.17	3,083.00	1,778.17	3,083.00	37,000.00
4061 · Utilities - Gas, Electric, and	595.54	1,833.00	595.54	1,833.00	22,000.00
4063 · Safety Program	175.46	1,667.00	175.46	1,667.00	20,000.00
4065 · Water Conservation/Rebates Prog	2,602.00	24,583.00	2,602.00	24,583.00	295,000.00
4067 · OPEB -Other Post Employment Ben	23,333.33	65,000.00	23,333.33	65,000.00	780,000.00
4090 · SWP Transportation Cost	0.00	375,000.00	0.00	375,000.00	4,500,000.00
4093 · Uniform and Material Rentals	360.75	333.00	360.75	333.00	4,000.00
4095 · Vehicle Maintenance, Operating	2,377.58	2,833.00	2,377.58	2,833.00	34,000.00
4096 · Communication Expense	1,474.71	817.00	1,474.71	817.00	9,800.00
4099 · Facility Maintenance	1,181.16	2,500.00	1,181.16	2,500.00	30,000.00
4100 · Salaries - Field Workers	17,163.91	26,968.00	17,163.91	26,968.00	323,618.00
4108 · Grounds Maintenance and Materia	497.00	4,907.00	497.00	4,907.00	58,883.00
4112 · Depreciation Expense	46,073.00	0.00	46,073.00	0.00	0.00
4113 · Pipeline Maintenance & Material	843.88	4,167.00	843.88	4,167.00	50,000.00
4114 · SCADA Maintence	0.00	833.00	0.00	833.00	10,000.00
4120 · Grants	0.00	166,667.00	0.00	166,667.00	2,000,000.00
Total Unrestricted G.O. Expenses	266,219.94	1,011,965.00	266,219.94	1,011,965.00	12,143,545.00
Riverside Facility					
4300 · Salaries - Riverside	430.92	563.00	430.92	563.00	6,760.00
4301 · Riverside Maintenance and Mater	963.22	500.00	963.22	500.00	6,000.00
Total Riverside Facility	1,394.14	1,063.00	1,394.14	1,063.00	12,760.00
Hydro Expenses					
4402 · Salaries - Hydro	502.74	1,300.00	502.74	1,300.00	15,600.00
4403 · Hydro Maintenance Materials	487.72	2,083.00	487.72	2,083.00	25,000.00
4406 · Hydro So Cal Edison (8800)	394.56	833.00	394.56	833.00	10,000.00
Total Hydro Expenses	1,385.02	4,216.00	1,385.02	4,216.00	50,600.00

San Gabriel Valley Municipal Water District
Income Statement - Actual vs. Budget
July 2024

	Jul 24	Budget	Jul 24	YTD Budget	Annual Budget
Restricted Expense					
4510 · State Project Expense	2,034,046.00	733,333.00	2,034,046.00	733,333.00	8,800,000.00
4511 · State Project Amortization	8,034.00	8,083.00	8,034.00	8,083.00	97,000.00
4591 · State Project Cost of Water Adj	0.00	0.00	0.00	0.00	0.00
Total Restricted Expense	2,042,080.00	741,416.00	2,042,080.00	741,416.00	8,897,000.00
66000 · Payroll Expenses	0.00	0.00	0.00	0.00	0.00
66900 · Reconciliation Discrepancies	0.00	0.00	0.00	0.00	0.00
Total Expense	2,311,079.10	1,758,660.00	2,311,079.10	1,758,660.00	21,103,905.00
Net Ordinary Income	-1,884,178.23	-109,337.00	-1,884,178.23	-109,337.00	-1,312,025.00
Other Income/Expense					
Other Expense					
6001 · COVID-19 Expense	0.00	0.00	0.00	0.00	0.00
6002 · Employee Appreciation	0.00	0.00	0.00	0.00	0.00
4700 · Interest Expense	0.00	0.00	0.00	0.00	0.00
Total Other Expense	0.00	0.00	0.00	0.00	0.00
Net Other Income	0.00	0.00	0.00	0.00	0.00
Net Income	**-1,884,178.23**	**-109,337.00**	**-1,884,178.23**	**-109,337.00**	**-1,312,025.00**

San Gabriel Valley Municipal Water District

TREASURERS INVESTMENT REPORT
(Activity ending June 30, 2024)

Report Date March 31, 2024

Account EM05573

CUSIP#	ACCT. NO.	QUANTITY PURCHASED	BANKING INSTITUTION	RATE	DATE OF PURCHASE	DATE OF MATURITY	RATE OF INTEREST	YIELD TO MATURITY	INTEREST REC'D TTD	QUANTITY PURCHASED
89788HFJ7	1013	$240,000	TRUIST BK NC US	Fixed Rate	06/30/2023	04/01/2024	5.300%	5.300%	$ 9,618.41	MATURED
319477AV7	1013	$240,000	FIRST CITIZENS B&T NC US	Fixed Rate	05/19/2023	05/19/2025	5.150%	5.150%	$ 11,377.97	MATURED
981993C63	1013	$200,000	COMENITY BANK DE US	Fixed Rate	06/13/2022	06/13/2024	2.950%	2.950%	$ 10,110.70	MATURED
9497635A0	1013	$240,000	WELLS FARGO BK NA SD US	Fixed Rate	12/30/2022	07/01/2024	4.600%	4.600%	$ 13,792.43	$240,000
06740KQY6	1013	$240,000	BARCLAYS BK DE US	Fixed Rate	07/27/2022	07/29/2024	3.200%	3.200%	$ 7,680.00	$240,000
88241TLV0	1013	$240,000	TEXAS EXCHANGE BK TX US	Fixed Rate	08/13/2021	08/13/2024	0.500%	0.500%	$ 3,198.93	$240,000
8562832ES	1013	$240,000	STATE BANK INDIA IL US	Fixed Rate	08/22/2022	08/22/2024	3.350%	3.350%	$ 12,093.04	$240,000
98970LC43	1013	$240,000	ZIONS BANKCORP UT US	Fixed Rate	03/31/2023	09/24/2024	5.400%	5.400%	$ 12,924.50	$240,000
200339FB0	1013	$240,000	COMERICA BXTX US	Fixed Rate	03/30/2023	09/30/2024	5.250%	5.250%	$ 12,634.52	$240,000
23204HNU8	1013	$240,000	CUSTOMERS BANK PA US	Fixed Rate	03/30/2023	09/30/2024	5.250%	5.250%	$ 12,634.52	$240,000
69506YRY7	1013	$240,000	PACIFIC WSTN BK CA US	Fixed Rate	09/30/2020	09/30/2024	0.400%	0.400%	$ 3,358.68	$240,000
87164XD29	1013	$200,000	SYNCHRONY BK UT US	Fixed Rate	10/15/2021	10/15/2024	0.650%	0.650%	$ 651.78	$200,000
90355UCJ2	1013	$240,000	US BK BA OH US	Fixed Rate	02/02/2024	11/04/2024	4.950%	4.950%	$ -	$240,000
62452AFQ8	1013	$240,000	MOUNTAINNONE BANK MA US	Fixed Rate	11/18/2022	11/18/2024	4.850%	4.850%	$ -	$240,000
795451CK7	1013	$240,000	SALLIE MAE BANK UT US	Fixed Rate	11/18/2022	11/18/2024	4.950%	4.950%	$ 17,803.73	$240,000
523744AW0	1013	$240,000	LEA CNTY ST BK HOB NM US	Fixed Rate	12/10/2021	12/10/2024	0.750%	0.750%	$ 4,196.80	$240,000
02007GH55	1013	$240,000	ALLY BANK UT US	Fixed Rate	12/22/2022	12/23/2024	4.700%	4.700%	$ 11,280.00	$240,000
920133AN5	1013	$240,000	VALLEY STRONG CRED CA US	Fixed Rate	02/10/2023	02/10/2025	5.100%	5.100%	$ 14,218.52	$240,000
12547CAN8	1013	$240,000	CIBC BANK USA IL US	Fixed Rate	02/24/2023	02/24/2025	4.750%	4.750%	$ 11,400.00	$240,000
45383KTL1	1013	$240,000	INDEPENDENT BK MI US	Fixed Rate	03/15/2024	03/17/2025	5.100%	5.100%	$ 2,045.59	$240,000
31657FAU1	1013	$240,000	FIELDPOINT PRVT B&CT US	Fixed Rate	09/29/2023	03/31/2025	5.600%	5.600%	$ 7,806.26	$240,000
02589AB68	1013	$240,000	AMER EXPRESS NATL UT US	Fixed Rate	03/31/2020	03/31/2025	1.550%	1.550%	$ 14,880.00	$240,000
465076UJ4	1013	$240,000	ISRAEL DISCOUNT BK NY US	Fixed Rate	09/29/2023	04/21/2025	5.500%	5.500%	$ 6,581.92	$240,000
81258PKJ1	1013	$240,000	SEATTLE BANK WA US	Fixed Rate	06/02/2020	06/02/2025	0.750%	0.750%	$ 6,746.45	$240,000
29278TPN4	1013	$240,000	ENERBANK UT US	Fixed Rate	06/19/2020	06/19/2025	0.650%	0.650%	$ 5,718.51	$240,000
37149CAY3	1013	$240,000	GENERATIONS BK AR US	Fixed Rate	07/29/2022	07/29/2025	3.400%	3.400%	$ 14,285.54	$240,000
95144PGY1	1013	$240,000	WEST BANK IA US	Fixed Rate	02/16/2024	08/15/2025	4.950%	4.950%	$ -	$240,000
48128UNC9	1013	$240,000	JPMORGAN CHASE & C DE US	Fixed Rate	09/30/2020	09/30/2025	0.400%	0.400%	$ 3,358.69	$240,000
67054NBD4	1013	$240,000	NUMERICA CREDIT UN WA US	Fixed Rate	12/29/2022	12/29/2025	4.750%	4.750%	$ 15,179.20	$240,000
40102PAJ6	1013	$240,000	GUARANTY BK & TR MS US	Fixed Rate	03/13/2024	03/13/2026	5.200%	5.200%	$ 2,085.70	$240,000
90348JG53	1013	$240,000	UBS BANK UT US	Fixed Rate	09/30/2020	09/30/2025	0.400%	0.400%	$ 6,839.95	$240,000
06051XCR1	1013	$240,000	BANK OF AMERICA NA NC US	Fixed Rate	04/19/2024	04/20/2026	5.200%	5.200%	$ -	$240,000
39573LBL1	1013	$245,000	GREENSTATE CREDIT IA US	Fixed Rate	06/16/2021	06/16/2026	0.950%	0.950%	$ 6,155.77	$245,000
89235MLE9	1013	$240,000	TOYOTA FINL SVG BK NV US	Fixed Rate	07/29/2021	07/29/2026	0.950%	0.950%	$ 4,560.03	$240,000
61765Q6N4	1013	$240,000	MORGAN STANLEY BK UT US	Fixed Rate	11/19/2022	11/19/2026	1.100%	1.100%	$ 6,596.38	$240,000
90353EBF9	1013	$240,000	USF FED CREDIT UNI FL US	Fixed Rate	03/28/2024	03/29/2027	5.200%	5.200%	$ 1,173.70	$240,000
50625LAZ6	1013	$240,000	LAFAYETTE FED CRED MD US	Fixed Rate	03/30/2022	03/30/2027	2.400%	2.400%	$ 11,535.78	$240,000
61768U4Z7	1013	$240,000	MORGAN STANLEY PRI NY US	Fixed Rate	06/30/2022	06/30/2027	3.750%	3.750%	$ 9,000.00	$240,000

San Gabriel Valley Municipal Water District **TREASURERS INVESTMENT REPORT (Activity ending June 30, 2024)** **Report Date March 31, 2024**

45673RAD3	1013	$240,000	INFIRST FED CREDIT VA US	Fixed Rate	10/11/2022	10/11/2027	5.000%	5.000%	$ 16,964.39	$240,000
356436AJ4	1013	$240,000	FREEDOM NW CREDIT ID US	Fixed Rate	05/09/2023	05/09/2028	5.000%	5.000%	$ 11,013.70	$240,000
24951TAX3	1013	$240,000	DEPARTMENT OF COMM DC U	Fixed Rate	05/30/2023	05/30/2028	5.350%	5.350%	$ 10,629.05	$240,000
36266LAB2	1013	$240,000	GHS FED CREDIT UNI NY US	Fixed Rate	08/17/2023	08/17/2028	5.600%	5.600%	$ 7,879.90	$240,000
64017ABG8	1013	$240,000	NEIGHBORS FED CRED LA US	Fixed Rate	01/31/2024	01/31/2029	5.300%	5.300%	$ 4,216.77	$240,000
09776DAG9	1013	$200,000	BOM BANK LA US	Fixed Rate	06/25/2024	06/25/2029	5.350%	5.350%	$ -	$200,000
								GRAND TOTAL CD'S PURCHASED		$9,765,000

U S Treasury Note

91282CEX5		$240,000		06/28/2023	06/30/2024	3.000%	3.000%	$ 2,100.00	$240,000
								$ 3,560.22	
							GRAND TOTAL US TSY NOTE		$240,000

Money Market Account

When CD is in transition from maturity to repurchasing, it is entered into a money market account & this is the interest earned while in that account:

		Balance Forward	$ 3,264.50
* 04/05/24-05/07/24	UBS BANK USA DEPOSIT ACCOUNT ENTRY AS OF 04/05/24-05/07/24 INTEREST INCOME $ 4.07 SECURITY/SYMBOL MMPFDI-919446		$ 4.07
		G.T. Money Market Interest Received Total To Date:	$ 3,268.57

Recap of All CD Interest Received

TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2008-2009	$19,619.98
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2009-2010	$144,944.73
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2010-2011	$96,652.58
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2011-2012	$56,675.75
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2012-2013	$51,793.98
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2013-2014	$73,466.67
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2014-2015	$86,491.81
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2015-2016	$101,469.27
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2016-2017	$123,833.68
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2017-2018	$151,379.14
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2018-2019	$201,846.40
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2019-2020	$233,862.14
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2020-2021	$148,118.57
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2021-2022	$87,497.64
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2022-2023	$139,596.40
TOTAL INTEREST RECEIVED FOR FISCAL YEAR 2023-2024 AT JUNE 30, 2024	$303,132.72
GRAND TOTAL INTEREST RECEIVED FOR ALL FY'S TO DATE	**$2,020,381.46**

Local Agency Investment Fund (LAIF)

ACCT. NO.	INSTITUTION	PMIA AVERAGE MONTHLY 06/2024 EFFECTIVE YIELD	DAILY YIELD AT 06/30/24	BALANCE GEN. LEDGER
1009	LOCAL AGENCY INVESTMENT FUND - (GENERAL FUND)	4.480%	4.520%	$10,987,541.83
	GRAND TOTAL LOCAL AGENCY INVESTMENT FUND (SEE REPORT ATTACHED)			$10,987,542

San Gabriel Valley Municipal Water District

TREASURERS INVESTMENT REPORT
(Activity ending June 30, 2024)

Report Date March 31, 2024

SUMMARY	BALANCES
Local Agency Investment Fund - General Fund	$ 10,987,541.83
UBS Certificates of Deposit Summary Total	$ 9,765,000.00
UBS Select Treasury Notes	$ 240,000.00
UBS Certificates of Deposit Interest Fiscal Year 2023-2024 At Date June 30, 2024	$ 303,132.72
UBS Bank USA Deposit Account/UBS Select Treasury Investor Fund	$ 4.07
Money Balance Activities minus total dividend and interest income	$ -
TOTAL INVESTMENTS	$ 21,295,678.62
Cash Bank of America General Fund	$5,132,335
Cash Bank of America Revolving Fund	$31,890
Cash Bank of America SWP Fund Account	$9,821,021
Petty Cash Fund	$300
GRAND TOTAL INVESTMENTS AND CASH LESS RESTRICTED FUNDS	$ 36,281,225.22

I certify that this report accurately reflects all pooled investments and is in compliance with California Government Code Sections 53601(i), 53601.1, 53635(i) and 53646 and is in conformity with the San Gabriel Valley Municipal Water District's investment policy as stated in Resolution 10-95-489, dated 10/23/95.

As Treasurer of San Gabriel Valley Municipal Water District, I hereby certify that sufficent liquidity and anticipated revenues are available to meet the next six month's estimated expenditures.

Darin J. Kasamoto
Deputy Treasurer

7/22/2024
Date

Type of Investment with title held in the name of San Gabriel Valley Municipal Water District:

CD'S	Certificates of Deposit
LAIF	Local Agency Investment Fund
MM	Money Market Account

PMIA/LAIF Performance Report as of 7/24/24

Quarterly Performance Quarter Ended 06/30/24

LAIF Apportionment Rate[2]:	4.55
LAIF Earnings Ratio[2]:	0.00012419067099490
LAIF Administrative Cost[1]*:	0.16
LAIF Fair Value Factor[1]:	0.996316042
PMIA Daily[1]:	4.52
PMIA Quarter to Date[1]:	4.36
PMIA Average Life[1]:	217

PMIA Average Monthly Effective Yields[1]

June	**4.480**
May	4.332
April	4.272
March	4.232
February	4.122
January	4.012

Pooled Money Investment Account Monthly Portfolio Composition [1] 6/30/24 $178.0 billion

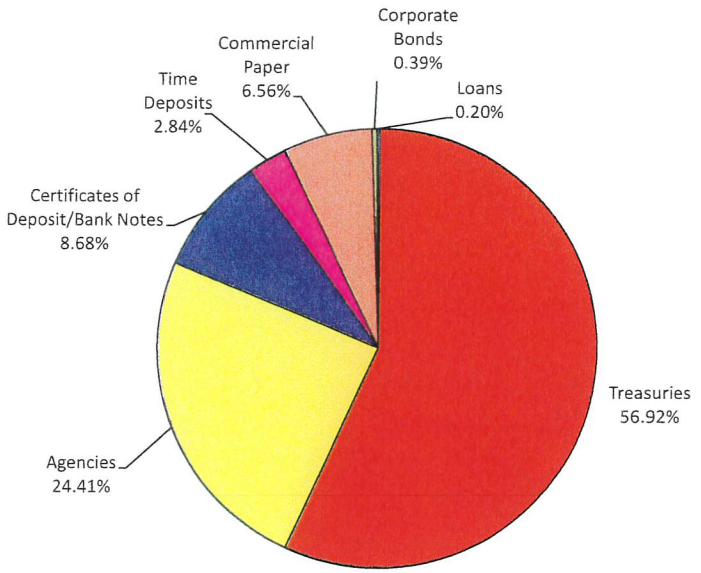


Chart does not include $1,567,000.00 in mortgages, which equates to 0.001%. Percentages may not total 100% due to rounding.

Daily rates are now available here. View PMIA Daily Rates

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1) and interest earned on the Wildfire Fund loan pursuant to Public Utility Code 3288 (a).

**The percentage of administrative cost equals the total administrative cost divided by the quarterly interest earnings. The l aw provides that administrative costs are not to exceed 5% of quarterly EARNINGS of the fund. However, if the 13 -week Daily Treasury Bill Rate on the last day of the fiscal year is below 1%, then administrative costs shall not exceed 8% of quarterly EARNINGS of the fund for the subseque nt fiscal year.*

Source:
[1] State of California, Office of the Treasurer
[2] State of Calfiornia, Office of the Controller

LOCAL AGENCY INVESTMENT FUND

PMIA Average Monthly Effective Yields

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1977	5.770	5.660	5.660	5.650	5.760	5.850	5.930	6.050	6.090	6.090	6.610	6.730
1978	6.920	7.050	7.140	7.270	7.386	7.569	7.652	7.821	7.871	8.110	8.286	8.769
1979	8.777	8.904	8.820	9.082	9.046	9.224	9.202	9.528	9.259	9.814	10.223	10.218
1980	10.980	11.251	11.490	11.480	12.017	11.798	10.206	9.870	9.945	10.056	10.426	10.961
1981	10.987	11.686	11.130	11.475	12.179	11.442	12.346	12.844	12.059	12.397	11.887	11.484
1982	11.683	12.044	11.835	11.773	12.270	11.994	12.235	11.909	11.151	11.111	10.704	10.401
1983	10.251	9.887	9.688	9.868	9.527	9.600	9.879	10.076	10.202	10.182	10.164	10.227
1984	10.312	10.280	10.382	10.594	10.843	11.119	11.355	11.557	11.597	11.681	11.474	11.024
1985	10.579	10.289	10.118	10.025	10.180	9.743	9.656	9.417	9.572	9.482	9.488	9.371
1986	9.252	9.090	8.958	8.621	8.369	8.225	8.141	7.844	7.512	7.586	7.432	7.439
1987	7.365	7.157	7.205	7.044	7.294	7.289	7.464	7.562	7.712	7.825	8.121	8.071
1988	8.078	8.050	7.945	7.940	7.815	7.929	8.089	8.245	8.341	8.397	8.467	8.563
1989	8.698	8.770	8.870	8.992	9.227	9.204	9.056	8.833	8.801	8.771	8.685	8.645
1990	8.571	8.538	8.506	8.497	8.531	8.538	8.517	8.382	8.333	8.321	8.269	8.279
1991	8.164	8.002	7.775	7.666	7.374	7.169	7.098	7.072	6.859	6.719	6.591	6.318
1992	6.122	5.863	5.680	5.692	5.379	5.323	5.235	4.958	4.760	4.730	4.659	4.647
1993	4.678	4.649	4.624	4.605	4.427	4.554	4.438	4.472	4.430	4.380	4.365	4.384
1994	4.359	4.176	4.248	4.333	4.434	4.623	4.823	4.989	5.106	5.243	5.380	5.528
1995	5.612	5.779	5.934	5.960	6.008	5.997	5.972	5.910	5.832	5.784	5.805	5.748
1996	5.698	5.643	5.557	5.538	5.502	5.548	5.587	5.566	5.601	5.601	5.599	5.574
1997	5.583	5.575	5.580	5.612	5.634	5.667	5.679	5.690	5.707	5.705	5.715	5.744
1998	5.742	5.720	5.680	5.672	5.673	5.671	5.652	5.652	5.639	5.557	5.492	5.374
1999	5.265	5.210	5.136	5.119	5.086	5.095	5.178	5.225	5.274	5.391	5.484	5.639
2000	5.760	5.824	5.851	6.014	6.190	6.349	6.443	6.505	6.502	6.517	6.538	6.535
2001	6.372	6.169	5.976	5.760	5.328	4.958	4.635	4.502	4.288	3.785	3.526	3.261
2002	3.068	2.967	2.861	2.845	2.740	2.687	2.714	2.594	2.604	2.487	2.301	2.201
2003	2.103	1.945	1.904	1.858	1.769	1.697	1.653	1.632	1.635	1.596	1.572	1.545
2004	1.528	1.440	1.474	1.445	1.426	1.469	1.604	1.672	1.771	1.890	2.003	2.134
2005	2.264	2.368	2.542	2.724	2.856	2.967	3.083	3.179	3.324	3.458	3.636	3.808
2006	3.955	4.043	4.142	4.305	4.563	4.700	4.849	4.946	5.023	5.098	5.125	5.129
2007	5.156	5.181	5.214	5.222	5.248	5.250	5.255	5.253	5.231	5.137	4.962	4.801
2008	4.620	4.161	3.777	3.400	3.072	2.894	2.787	2.779	2.774	2.709	2.568	2.353
2009	2.046	1.869	1.822	1.607	1.530	1.377	1.035	0.925	0.750	0.646	0.611	0.569
2010	0.558	0.577	0.547	0.588	0.560	0.528	0.531	0.513	0.500	0.480	0.454	0.462
2011	0.538	0.512	0.500	0.588	0.413	0.448	0.381	0.408	0.378	0.385	0.401	0.382
2012	0.385	0.389	0.383	0.367	0.363	0.358	0.363	0.377	0.348	0.340	0.324	0.326
2013	0.300	0.286	0.285	0.264	0.245	0.244	0.267	0.271	0.257	0.266	0.263	0.264
2014	0.244	0.236	0.236	0.233	0.228	0.228	0.244	0.260	0.246	0.261	0.261	0.267
2015	0.262	0.266	0.278	0.283	0.290	0.299	0.320	0.330	0.337	0.357	0.374	0.400
2016	0.446	0.467	0.506	0.525	0.552	0.576	0.588	0.614	0.634	0.654	0.678	0.719
2017	0.751	0.777	0.821	0.884	0.925	0.978	1.051	1.084	1.111	1.143	1.172	1.239
2018	1.350	1.412	1.524	1.661	1.755	1.854	1.944	1.998	2.063	2.144	2.208	2.291
2019	2.355	2.392	2.436	2.445	2.449	2.428	2.379	2.341	2.280	2.190	2.103	2.043
2020	1.967	1.912	1.787	1.648	1.363	1.217	0.920	0.784	0.685	0.620	0.576	0.540

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2021	0.458	0.407	0.357	0.339	0.315	0.262	0.221	0.221	0.206	0.203	0.203	0.212
2022	0.234	0.278	0.365	0.523	0.684	0.861	1.090	1.276	1.513	1.772	2.007	2.173
2023	2.425	2.624	2.831	2.870	2.993	3.167	3.305*	3.434	3.534	3.670	3.843	3.929
2024	4.012	4.122	4.232	4.272	4.332	4.480						

* Revised

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State of California
Pooled Money Investment Account
Market Valuation
6/30/2024

Description	Carrying Cost Plus Accrued Interest Purch.	Amortized Cost	Fair Value	Accrued Interest
United States Treasury:				
Bills	$ 39,152,874,329.72	$ 39,597,554,203.90	$ 39,587,768,752.50	NA
Notes	$ 62,176,581,824.56	$ 62,141,474,346.68	$ 61,651,762,504.00	$ 416,898,092.00
Federal Agency:				
SBA	$ 247,843,562.04	$ 247,843,562.04	$ 251,790,529.61	$ 1,200,799.53
MBS-REMICs	$ 1,567,186.59	$ 1,567,186.59	$ 1,529,976.88	$ 6,836.72
Debentures	$ 8,184,587,071.78	$ 8,182,672,988.45	$ 8,108,396,505.00	$ 75,509,041.45
Debentures FR	$ -	$ -	$ -	$ -
Debentures CL	$ 2,250,000,000.00	$ 2,250,000,000.00	$ 2,235,914,150.00	$ 13,689,585.50
Discount Notes	$ 29,807,385,861.03	$ 30,141,723,379.95	$ 30,121,121,250.00	NA
Supranational Debentures	$ 2,970,189,533.33	$ 2,970,189,533.33	$ 2,937,719,880.00	$ 28,822,792.40
Supranational Debentures FR	$ -	$ -	$ -	$ -
CDs and YCDs FR	$ -	$ -	$ -	$ -
Bank Notes	$ -		$ -	$ -
CDs and YCDs	$ 15,450,015,000.00	$ 15,450,000,000.00	$ 15,446,181,621.02	$ 248,570,152.74
Commercial Paper	$ 11,683,558,041.73	$ 11,815,541,750.00	$ 11,811,742,819.45	NA
Corporate:				
Bonds FR	$ -	$ -	$ -	$ -
Bonds	$ 693,227,689.67	$ 692,770,418.83	$ 678,296,776.00	$ 7,163,534.78
Repurchase Agreements	$ -	$ -	$ -	$ -
Reverse Repurchase	$ -	$ -	$ -	$ -
Time Deposits	$ 5,060,000,000.00	$ 5,060,000,000.00	$ 5,060,000,000.00	NA
PMIA & GF Loans	$ 362,908,000.00	$ 362,908,000.00	$ 362,908,000.00	NA
TOTAL	$ 178,040,738,100.45	$ 178,914,245,369.77	$ 178,255,132,764.46	$ 791,860,835.12

Fair Value Including Accrued Interest $ 179,046,993,599.58

Repurchase Agreements, Time Deposits, PMIA & General Fund loans, and Reverse Repurchase agreements are carried at portfolio book value (carrying cost).

The value of each participating dollar equals the fair value divided by the amortized cost (0.996316042). As an example: if an agency has an account balance of $20,000,000.00, then the agency would report its participation in the LAIF valued at $19,926,320.84 or $20,000,000.00 x 0.996316042.

SAN GABRIEL MUNICIPAL WATER DISTRICT

REVOLVING FUND RECAP

July 11, 2024

Check No.	Date	Description	Amount
12535-12538	07/11/24	Payroll Expense	$ 34,617.97
EFT	07/11/24	Payroll Expense - PERS	$ 10,277.55
Wires	07/11/24	Federal & State Payroll Taxes	$ 20,058.61
12539	07/11/24	ATT	$ 431.68
12540	07/11/24	SCE	$ 700.14
12541	07/11/24	Frontier	$ 633.44
July 11, 2024	*GRAND TOTAL DISBURSEMENTS.....*		$ 66,719.39

REVOLVING FUND RECAP

July 25, 2024

Check No.	Date	Description	Amount
12542-12545	07/25/24	Payroll Expense	$ 34,016.83
EFT	07/25/24	Payroll Expense - PERS	$ 10,160.49
Wires	07/25/24	Federal & State Payroll Taxes	$ 20,079.91
EFT	07/25/24	State Compensation Insurance	$ 1,825.94
EFT	07/25/24	State Compensation Insurance	$ 1,465.77
12546	07/25/24	SCE	$ 739.75
12547	07/25/24	The Gas Company	$ 14.79
12548	07/25/24	Verizon Wireless	$ 416.26
July 25, 2024	*GRAND TOTAL DISBURSEMENTS.....*		$ 68,719.74

REVOLVING FUND RECAP

August 08, 2024

Check No.	Date	Description	Amount
12549-12552	08/08/24	Payroll Expense	$34,016.87
EFT	08/08/24	Payroll Expense - PERS	$10,160.49
Wires	08/08/24	Federal & State Payroll Taxes	$20,079.84
12553	08/08/24	Azusa Light & Water	$54.43
August 08, 2024	*GRAND TOTAL DISBURSEMENTS.....*		$64,311.63

REVOLVING FUND RECAP

August 12, 2024

Check No.	Date	Description	Amount
12554	08/12/24	Bruce H. Knoles	$365.00
12555	08/12/24	Mark R Paulson	$365.00
12556	08/12/24	Michael F Eng	$1,095.00
12557	08/12/24	Miles L Prince	$1,460.00
Wires	08/12/24	Federal & State Payroll Taxes	$596.80
August 12, 2024	*GRAND TOTAL DISBURSEMENTS.....*		$ 3,881.80

San Gabriel Valley Municipal Water District
Transactions by Account
As of July 31, 2024

Type	Date	Num	Name	Amount
1001 · General Fund Bank of America				
Bill Pmt -Check	07/09/2024	EFT	BeniComp (Corp)	-47.13
Bill Pmt -Check	07/22/2024	EFT	ExxonMobil	-1,798.33
Bill Pmt -Check	07/19/2024	EFT	BeniComp (Corp)	-1,743.70
Bill Pmt -Check	07/16/2024	EFT	BeniComp (Corp)	-2,202.25
Bill Pmt -Check	07/22/2024	44599	Alhambra Chamber Commerce	-1,000.00
Bill Pmt -Check	07/22/2024	44600	Alliance Communication Servic...	-130.00
Bill Pmt -Check	07/22/2024	44601	Athens (Corporation)	-522.29
Bill Pmt -Check	07/22/2024	44602	Azusa Alarm Program	-25.00
Bill Pmt -Check	07/22/2024	44603	California Special Districts Ass...	-7,300.00
Bill Pmt -Check	07/22/2024	44604	Canyon City Prinitng, Inc (Corp)	-164.13
Bill Pmt -Check	07/22/2024	44605	Cash Revolving Fund	-70,000.00
Bill Pmt -Check	07/22/2024	44606	Civiltec Inc (Corp)	-9,730.00
Bill Pmt -Check	07/22/2024	44607	D.H. Maintenance Services	-210.00
Bill Pmt -Check	07/22/2024	44608	Frontier	-86.14
Bill Pmt -Check	07/22/2024	44609	Grainger (Corp)	-207.48
Bill Pmt -Check	07/22/2024	44610	Lagerlof, LLP (Atty)	-3,412.50
Bill Pmt -Check	07/22/2024	44611	LOWES	-112.35
Bill Pmt -Check	07/22/2024	44612	Public Water Agencies Group (...	-2,143.23
Bill Pmt -Check	07/22/2024	44613	SCE	-33.08
Bill Pmt -Check	07/22/2024	44614	Sparkletts	-177.86
Bill Pmt -Check	07/22/2024	44615	Spectrum Enterprise	-239.98
Bill Pmt -Check	07/22/2024	44616	Stetson Engineers, Inc.	-3,369.55
Bill Pmt -Check	07/22/2024	44617	Verizon Wireless (M2M)	-853.77
Bill Pmt -Check	07/22/2024	44618	Western Pest Control Specialis...	-497.00
Bill Pmt -Check	07/22/2024	44619	Cash Revolving Fund	-70,000.00
Total 1001 · General Fund Bank of America				-176,005.77
TOTAL				**-176,005.77**

San Gabriel Valley Municipal Water District
Transactions by Account
As of August 12, 2024

Type	Date	Num	Name	Amount
1001 · General Fund Bank of America				
Bill Pmt -Check	08/01/2024	EFT	BeniComp (Corp)	-233.39
Bill Pmt -Check	08/02/2024	EFT	BeniComp (Corp)	-1,431.26
Bill Pmt -Check	08/05/2024	EFT	BeniComp (Corp)	-155.79
Bill Pmt -Check	08/12/2024	EFT	ExxonMobil	-1,761.02
Bill Pmt -Check	08/08/2024	EFT	BeniComp (Corp)	-144.64
Bill Pmt -Check	08/12/2024	44620	Alliance Communication Servic...	-130.00
Bill Pmt -Check	08/12/2024	44621	Andres M Nieto	-85.00
Bill Pmt -Check	08/12/2024	44622	Applied Technology Group, Imc.	-320.00
Bill Pmt -Check	08/12/2024	44623	Athens (Corporation)	-522.29
Bill Pmt -Check	08/12/2024	44624	ATT	-430.43
Bill Pmt -Check	08/12/2024	44625	Azusa Light & Water	-1,018.41
Bill Pmt -Check	08/12/2024	44626	BeniComp (Corp)	0.00
Bill Pmt -Check	08/12/2024	44627	BOA-Visa	-5,921.14
Bill Pmt -Check	08/12/2024	44628	California Advocates, Inc. (Corp)	-8,000.00
Bill Pmt -Check	08/12/2024	44629	California Surveying & Drafting ...	-20,209.29
Bill Pmt -Check	08/12/2024	44630	California Underground Facilities	-73.03
Bill Pmt -Check	08/12/2024	44631	Canyon City Prinitng, Inc (Corp)	-220.50
Bill Pmt -Check	08/12/2024	44632	Cash Revolving Fund	-70,000.00
Bill Pmt -Check	08/12/2024	44633	Cell Business Equipment	-473.15
Bill Pmt -Check	08/12/2024	44634	Cintas	-536.21
Bill Pmt -Check	08/12/2024	44635	County of LA Auditor Controller	-5,675.20
Bill Pmt -Check	08/12/2024	44636	Culver Company (Corp)	-1,034.84
Bill Pmt -Check	08/12/2024	44637	Cummins Sales and Service	-18.24
Bill Pmt -Check	08/12/2024	44638	Denton Yip	-85.00
Bill Pmt -Check	08/12/2024	44639	Dexter Tse	-60.00
Bill Pmt -Check	08/12/2024	44640	DigAlert (Corporation)	-283.80
Bill Pmt -Check	08/12/2024	44641	DWR	-578,334.00
Bill Pmt -Check	08/12/2024	44642	Edith Rodriguez	-85.00
Bill Pmt -Check	08/12/2024	44643	Emily Sin	-85.00
Bill Pmt -Check	08/12/2024	44644	Evelyn Reyes	-137.41
Bill Pmt -Check	08/12/2024	44645	Freeth/Moroz, Inc	-525.00
Bill Pmt -Check	08/12/2024	44646	Frontier	-129.67
Bill Pmt -Check	08/12/2024	44647	Gabriel Molina	-85.00
Bill Pmt -Check	08/12/2024	44648	Glenn Murakami	-85.00
Bill Pmt -Check	08/12/2024	44649	Grainger (Corp)	-77.90
Bill Pmt -Check	08/12/2024	44650	Kerber Automotive Service	-525.77
Bill Pmt -Check	08/12/2024	44651	Linda S Glau, CPA	-2,268.00
Bill Pmt -Check	08/12/2024	44652	Maria Jarmin	-82.41
Bill Pmt -Check	08/12/2024	44653	Mark Paulson (Expense)	-22.78
Bill Pmt -Check	08/12/2024	44654	Meier Enterprises Inc	-1,973.33
Bill Pmt -Check	08/12/2024	44655	Michael F Eng (Expense)	-60.97
Bill Pmt -Check	08/12/2024	44656	Miles L Prince (Expense)	-1,115.72
Bill Pmt -Check	08/12/2024	44657	Mission ACE Hardware (Corp)	-11.00
Bill Pmt -Check	08/12/2024	44658	Petty Cash	-167.36
Bill Pmt -Check	08/12/2024	44659	Public Water Agencies Group (...	-1,268.23
Bill Pmt -Check	08/12/2024	44660	Romeo Pitallano	-85.00
Bill Pmt -Check	08/12/2024	44661	Securitas Technology Corporati...	-709.02
Bill Pmt -Check	08/12/2024	44662	SGV Economic Partnership (C...	-3,500.00
Bill Pmt -Check	08/12/2024	44663	Valve Sealant Supply, Inc	-718.87
Bill Pmt -Check	08/12/2024	44664	Van Lam	-80.00
Bill Pmt -Check	08/12/2024	44665	Venancio Ko	-40.00
Bill Pmt -Check	08/12/2024	44666	Water Wise Consulting, Inc	-1,817.00
Bill Pmt -Check	08/12/2024	44667	Western Pest Control Specialis...	-609.00
Bill Pmt -Check	08/12/2024	44668	Yue-Hua	-40.00
Bill Pmt -Check	08/12/2024	44669	Cash Revolving Fund	-70,000.00
Bill Pmt -Check	08/12/2024	44670	Languages4You	-200.00
Total 1001 · General Fund Bank of America				-783,661.07
TOTAL				**-783,661.07**

SAN GABRIEL MUNICIPAL WATER DISTRICT

SWP FUND RECAP

July 22, 2024

Check No.	Date	Description	Amount
1008	07/22/24	DWR	$ 2,034,046.00

July 22, 2024 GRAND TOTAL DISBURSEMENTS..... **$ 2,034,046.00**

VISA Recap
June 21, 2024 - July 20, 2024

7/2/2024	Public Relations	Sticker Giant.Com	Credit Adju	-$10.62									-$10.62
6/20/2024	Staff	SWC-SAC / D Kasamoto	Exxpenses: Gasoline	$131.80	Hotel	$456.18	Parking	$4.50					$592.48
6/21/2024	Office Supply	Microsoft	Monthly Fee	$1.99									$1.99
6/24/2024	M Prince	ICA	Summer Conference	$1,100.00									$1,100.00
6/26/2024	Hydro	Graybar	Dig 16Q Relays	$487.72									$487.72
6/28/2024	Public Relations	Yeti	Rambler 36oz Bottles	$627.40									$627.40
6/28/2024	Public Relations	Sticker Giant.Com	Custom stickers	$302.92									$302.92
6/30/2024	Vehicle Maint	Amazon	LED Light	$39.16									$39.16
7/1/2024	Office Supply	Amazon	Laser Cartridges	$293.24									$293.24
7/1/2024	Office Supply	Google	Monthly Fee	$93.60									$93.60
7/2/2024	M Eng	League of California	Ticket	$75.00									$75.00
7/3/2024	Office Supply	Intuit	Payroll Monthly Fee	$72.00									$72.00
7/3/2024	Public Relations	LE Cards	Props	$165.38									$165.38
7/4/2024	Office Supply	Staples	Office Supplies	$31.29									$31.29
7/8/2024	Office Supply	Board Meeting	Ladys Donuts	$21.85									$21.85
7/9/2024	M Prince	ACWA	Registration	$65.00									$65.00
7/10/2024	Office Supply	Apple.com	Icloud Storage	$2.99									$2.99
7/10/2024	Staff	SCWUA S Kiggins & E Reyes	Tickets for Luncheon	$80.00									$80.00
7/10/2024	Public Relations	NBC Seafood Restaurant	Asian Media Event	$1,400.00									$1,400.00
7/10/2024	Office Supply	Staples	Office Supplies	$46.86									$46.86
7/16/2024	Staff	SWC-SAC / D Kasamoto	Exxpenses: Gasoline	$233.75	Parking	$18.00							$251.75
7/17/2024	Office Supply	Apple.com	Keyboard	$119.15									$119.15
7/17/2024	Office Supply	Zoom	Monthly Fee	$31.98									$31.98
7/18/2024	Staff	SGV Water Assoc - S Kiggins	Qtrly Membership	$30.00									$30.00
			Total	$5,442.46		$474.18		$4.50		$0.00	$0.00	$0.00	$5,921.14

AGENDA ACTION ITEM NO. 1

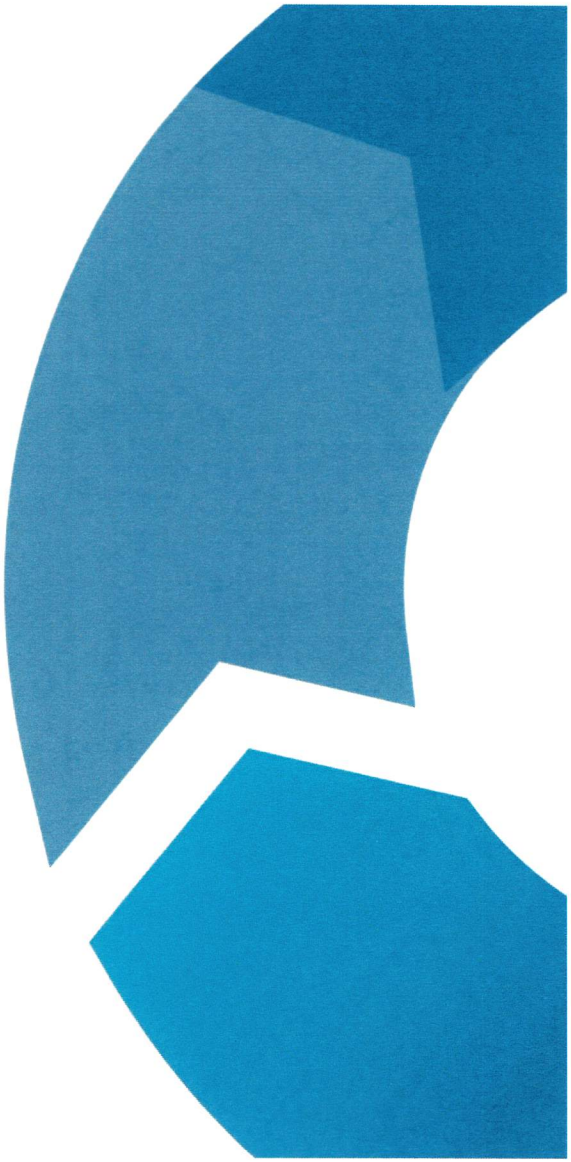
PURE WATER PROJECT UPDATE

Pure Water Southern California

San Gabriel Valley Municipal Water District Board Presentation

August 12, 2024

PUREWATER SOUTHERN CALIFORNIA



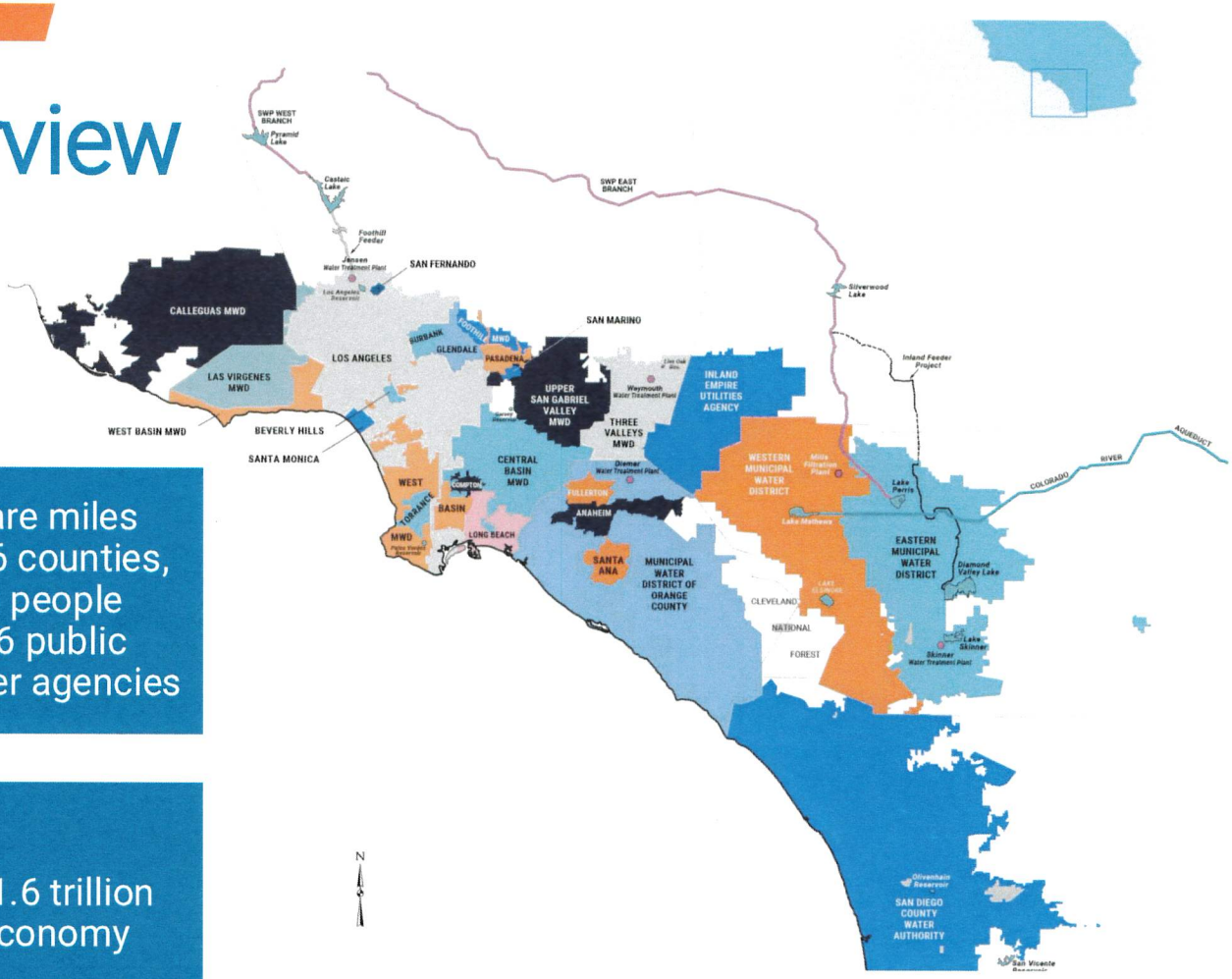
Metropolitan Overview

Nation's largest wholesale water provider

5,200 square miles throughout 6 counties, 19 million people through 26 public member water agencies

Imports water from Northern Sierra and the Colorado River, invests in local projects & conservation

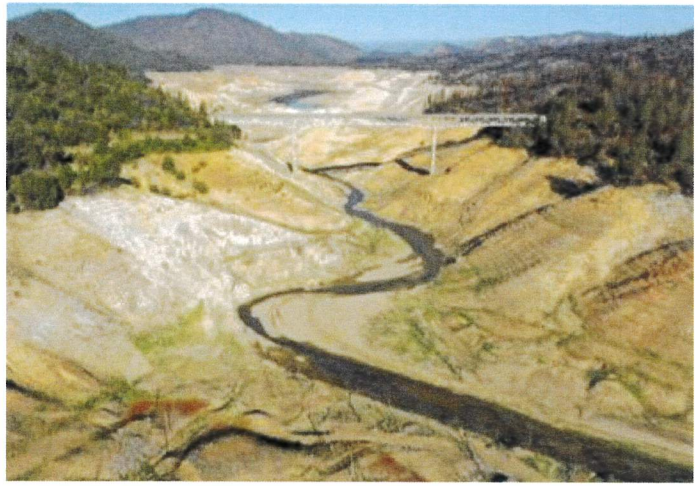
Supports $1.6 trillion regional economy



PUREWATER
SOUTHERN CALIFORNIA

Challenges to imported water supplies due to climate change

Uncertainty in our water future







2019-22 are driest three years on record

2023 is one of the wettest years on record to date

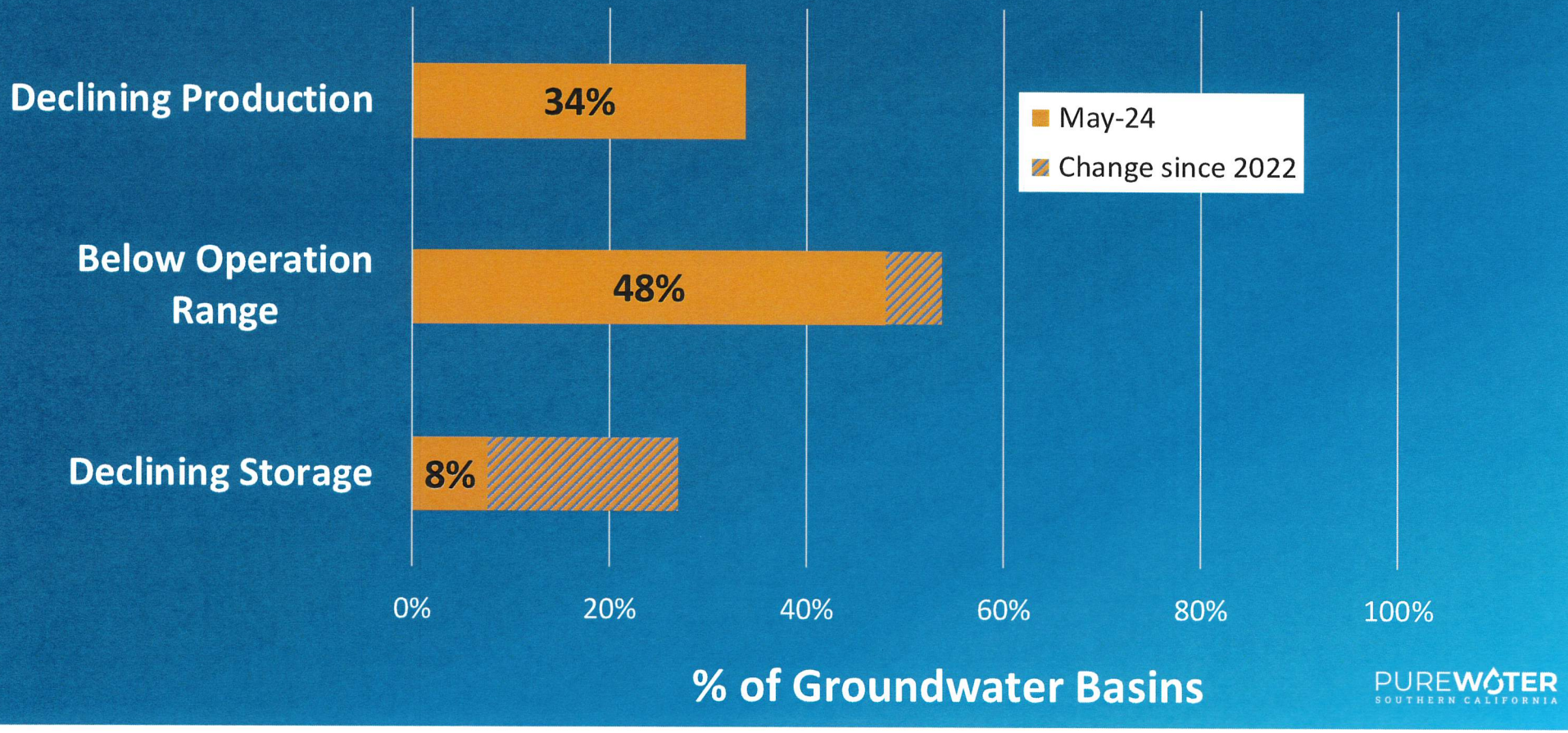
Colorado River is in long-term drought

Lake Mead and Lake Powell hit historically low elevations

States working together to find cuts on use

PUREWATER SOUTHERN CALIFORNIA

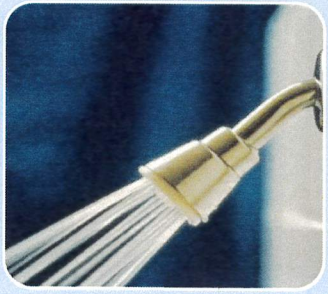
Status of Groundwater Basins



PUREWATER SOUTHERN CALIFORNIA

PUREWATER SOUTHERN CALIFORNIA

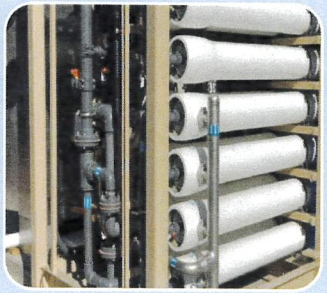
How it works



① Used water (wastewater) from homes, businesses, and industries in LA County



② Cleaned at Sanitation Districts' A.K. Warren Water Purification Facility



③ Purified at Metropolitan's advanced water purification facility



④ Conveyed through over 60 miles of pipeline to groundwater basins, industries, or Metropolitan's drinking water plants



⑤ A new climate-resilient source of water for Southern California

Program Benefits

Water Supply Benefits

- Provides a Sustainable Supply of Water
- Increases Water Resiliency
- Replenishes Groundwater Basins
- Creates a Local Supply of Water

Environmental Benefits

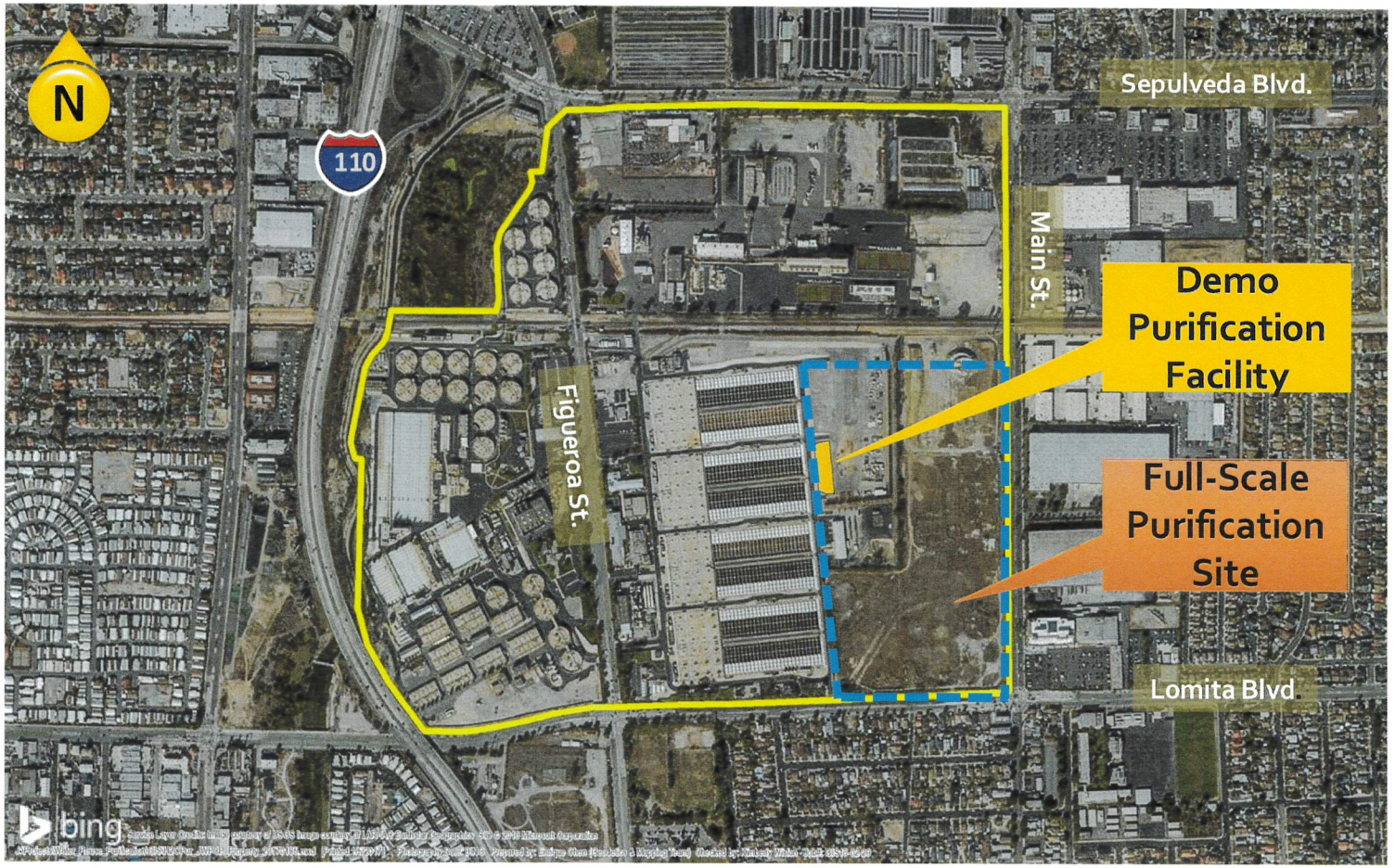
- Enhances Water Quality
- Reuses the Largest Untapped Source of Wastewater in the Region
- Reduces Reliance on Imported Supplies

Economic Benefits

- Fuels Economic Growth
- Generates Jobs

PUREWATER SOUTHERN CALIFORNIA

Harvesting Water from the Warren Facility



- Average flow of ~250 million gallons daily
- Capacity of 400 million gallons daily
- Cleaned water flows to the ocean
- Largest untapped source of treated wastewater

Advanced Water Treatment Process

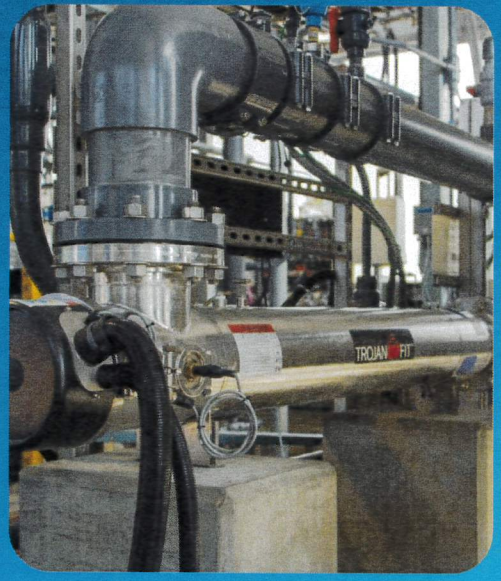
Three-step purification process to produce highly purified water



Membrane Bioreactors



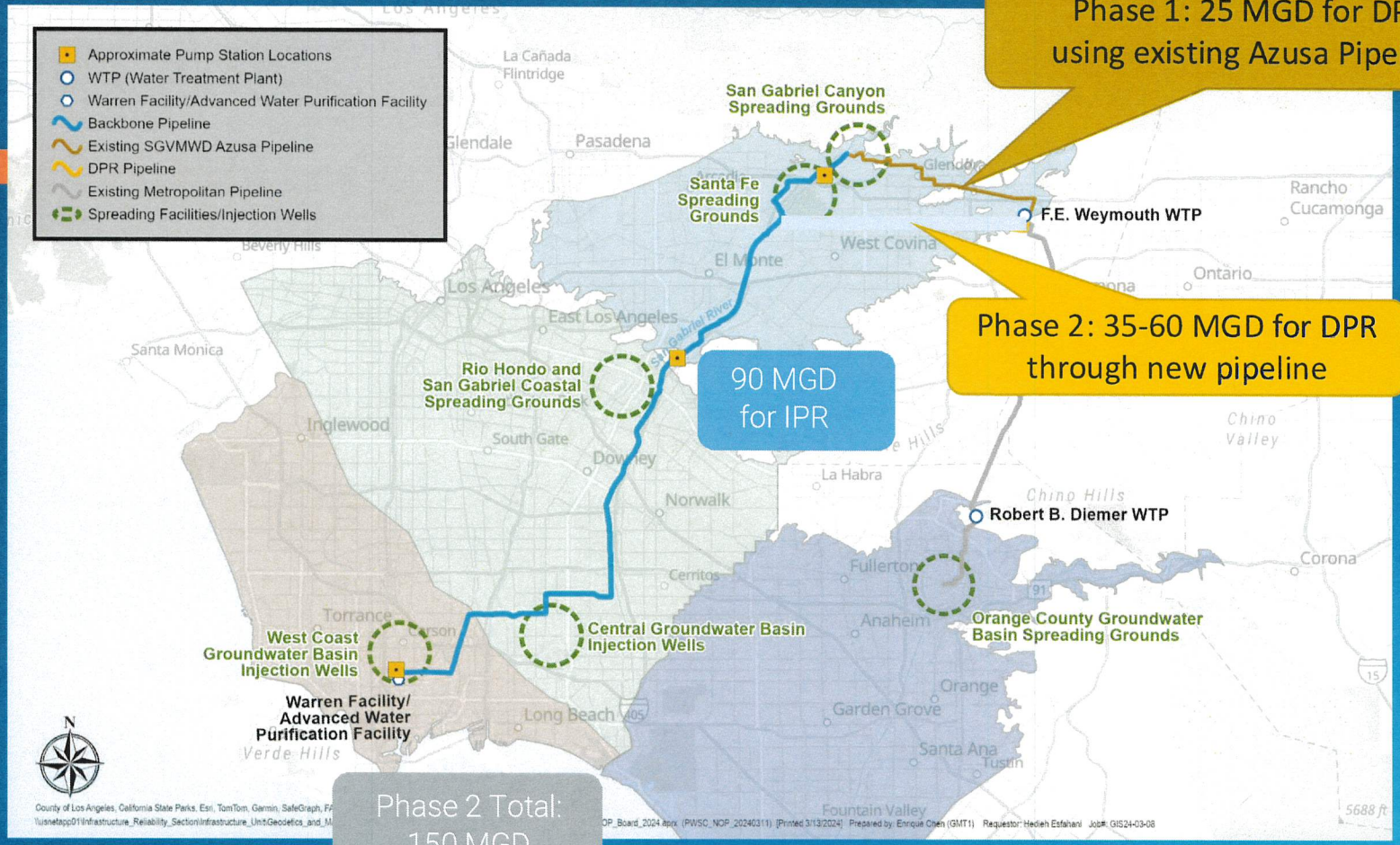
Reverse Osmosis



Ultraviolet Light / Advanced Oxidation

PUREWATER SOUTHERN CALIFORNIA

Program Overview



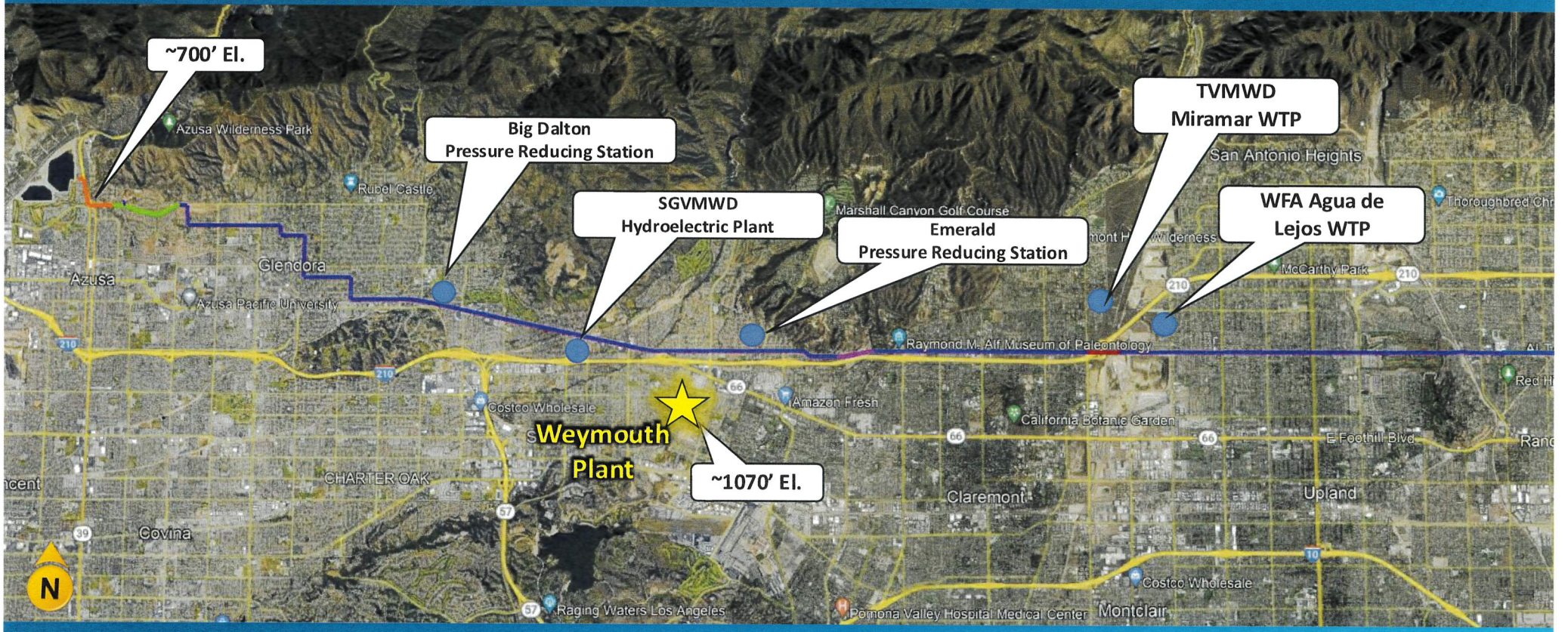
PUREWATER SOUTHERN CALIFORNIA

Collaborative Benefits

- Metropolitan and SGVMWD have a long history of collaboration
  - 1974: Alhambra Exchange Agreement
  - 2013: Sierra Madre Exchange Agreement
  - 2023: Rubidoux Exchange Agreement
- Pure Water would provide a new opportunity to collaborate
  - Repurpose Devil Canyon Azusa pipeline to convey purified water to Weymouth
  - Metropolitan will meet needs of SGVMWD customers with Pure Water
  - Provides reliability to both agencies during drought periods

PUREWATER
SOUTHERN CALIFORNIA

SGVMWD Devil Canyon Azusa Pipeline

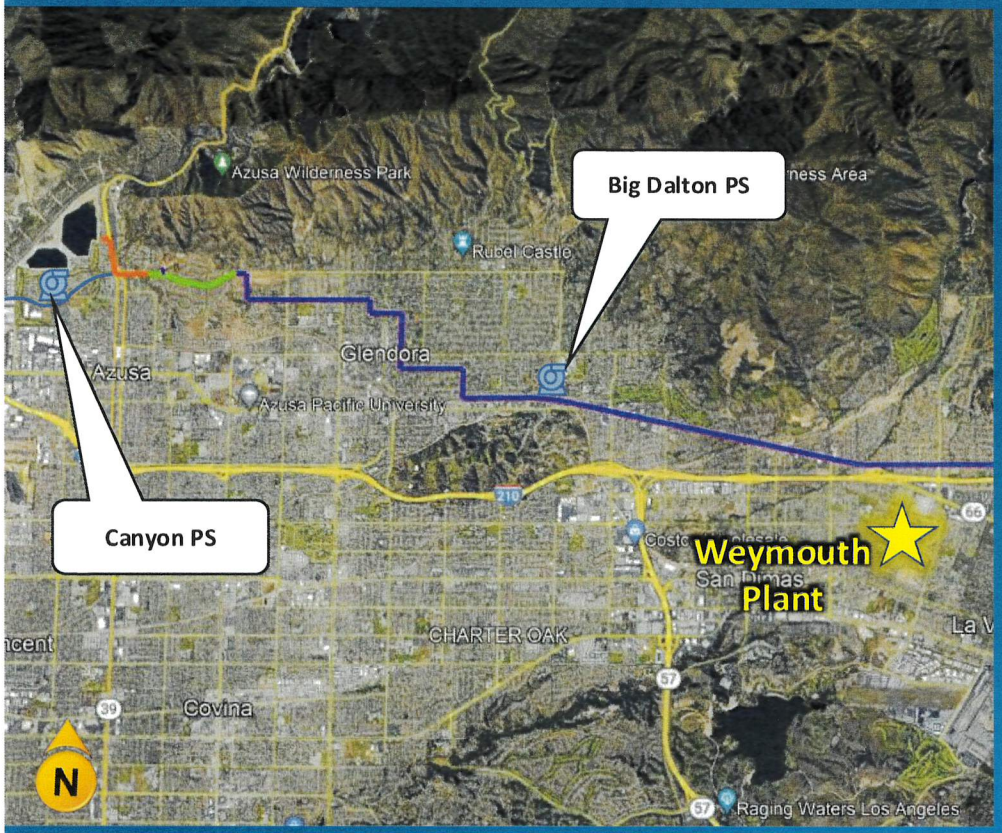


PUREWATER SOUTHERN CALIFORNIA

Conceptual Hydraulic Analysis Results

Based on evaluations of as-built drawings, Azusa Pipeline appears to be adequate under steady state conditions and pump trip surge conditions to be repurposed for conveyance of up to 25 mgd of Pure Water, pending condition assessment & detailed surge analysis

Modifications for Pure Water



- Pipeline condition assessment
- Pipeline improvements (lining, coating, cathodic protection, etc.)
- 2 new pump stations
- Lateral connector to backbone
- Lateral connector to Weymouth Plant
- Isolate pure water segment from the rest of the Azusa Pipeline east of Weymouth Plant
- Other pipeline appurtenances

PUREWATER SOUTHERN CALIFORNIA

Considering Affordability:

Securing Outside Funding & Agency Contributions for a $6.4 B project



- $80 M State Funding
- $7 M Federal Grants
- $16.5 M Partner contributions received to date
- $99 M USBR Large-Scale Water Recycled Grant Program (*pending Board approval)*
- Upcoming opportunities
  - State climate bond
  - Additional partnership contributions

PUREWATER SOUTHERN CALIFORNIA

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Program Partners

LOS ANGELES COUNTY SANITATION DISTRICTS
Converting Waste Into Resources

Metropolitan Member Agencies

Upper San Gabriel Valley Municipal Water District

Central Basin Municipal Water District

West Basin Municipal Water District

City of Long Beach Incorporated 1897

A Balanced City • Industrial • Residential • Commercial • Torrance

Three Valleys MWD

LA DWP

Groundwater Basin Managers

WRD Water Replenishment District

Main San Gabriel Basin Watermaster

Colorado River Partners

Southern Nevada Water Authority

Arizona Department of Water Resources Est. 1900

CAP Central Arizona Project

Other Key Partners

San Gabriel Valley Municipal Water District
Azusa • Sierra Madre • Monterey Park • Alhambra

US Army Corps of Engineers

Southern California Edison
Energy for What's Ahead

Public Works Los Angeles County

San Gabriel Valley Outreach



Azusa Golden Days



Bike Rides with
Active San Gabriel Valley



Tour with SGVCOG

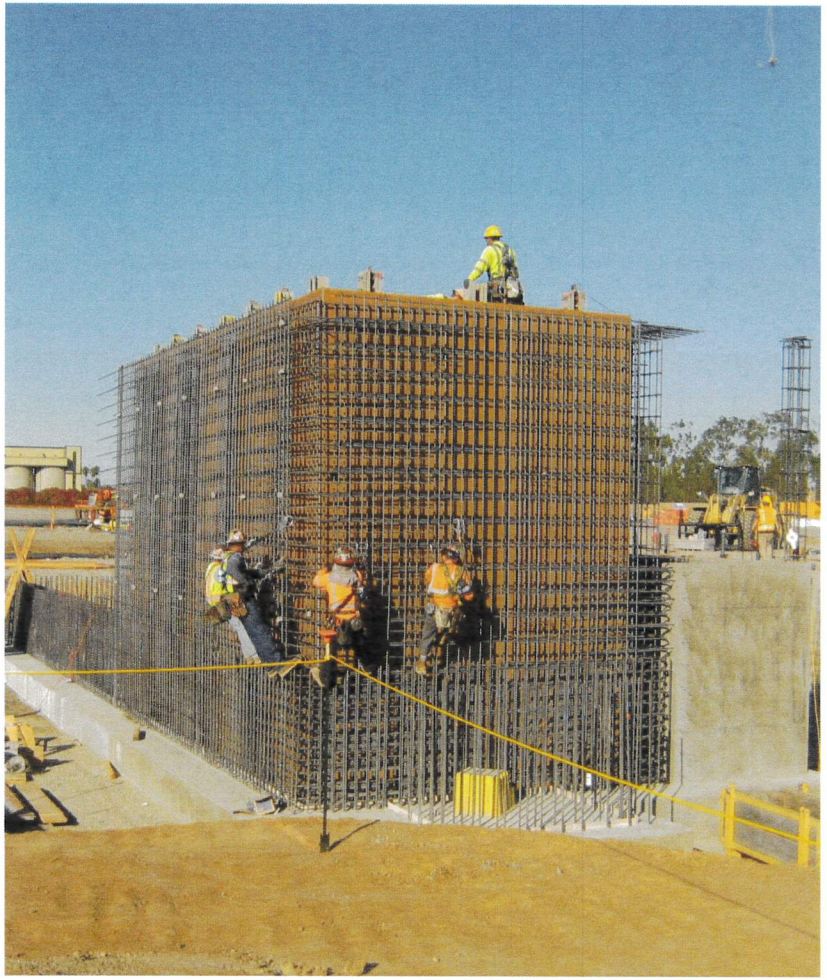


Upper San Gabriel Valley MWD
Water Fest

Collaborative Outreach to Cities in the SG Valley

City of Azusa
City of Irwindale
City of Duarte

PUREWATER
SOUTHERN CALIFORNIA



Unique Elements

Design Build and Alternate Delivery Methods

Project Labor Agreement

Grant and Partnership Funding

PUREWATER SOUTHERN CALIFORNIA

Project Status and Schedule

2021-2025	2024-2035	2031-2035
Environmental Planning	Design & Construction	Phase 1 Startup & Operations

Construction of Azusa Pipeline Improvements anticipated between 2029 & 2032

PUREWATER SOUTHERN CALIFORNIA

The Grace F. Napolitano Pure Water Southern California Demonstration Plant









- Tests an innovative purification process
- Obtain regulatory approval of process
- Provides costs and data for full-scale facility
- Gain public support

Thank You

John Bednarski

Interim Assistant General Manager
jbednarski@mwdh2o.com

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Stay in touch with Pure Water Southern California

mwdh2o.com/purewater

@mwdh2o

PUREWATER SOUTHERN CALIFORNIA

AGENDA ACTION ITEM NO. 2

RESOLUTION NO. 08-2024-837 ADOPTING PROPERTY TAX RATE

RECOMMENDED ACTION: Adopt Resolution No. 08-2024-837.

BACKGROUND: In August of each year we set our State Water Project Property Tax Rate. This tax revenue is for the sole purpose of paying the State Water Project fixed cost. The current rate is set at $.03 per 100 dollars of assessed value and is projected to raise $10,000,000 in revenue. The anticipated State Water Project fixed cost is $8,900,000 in 2025. In discussions at our Strategic Planning Workshop the Board had agreed that adjustment would be needed this year. The $.03 rate amounts to a $300 tax liability for a $1,000,000 home.

BUDGET IMPACT: This rate has been built into the 2024-2025 Budget adopted on June 10, 2024.

PRIOR BOARD ACTION: This was a topic of discussion at our Strategic Planning Workshop in January of 2024.

RESOLUTION NO. 08-2024-837

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT DETERMINING THE AMOUNT OF MONEY NECESSARY TO BE RAISED BY TAXATION FOR PAYMENT OF GENERAL OBLIGATION BONDS AND OTHER VOTER APPROVED INDEBTEDNESS FOR THE FISCAL YEAR 2024-2025 AND FIXING THE RATE OF TAX LEVIED (TAX CODE AREA 367.05 THROUGH 367.12)

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT as follows:

Section 1. **Purpose**

The Board has duly considered and adopted its budget for the fiscal year 2024-2025. The revenues of the District will be inadequate to pay the principal of and interest due on the bonded debt of the District, other voter approved indebtedness, and to pay the operating expenses of the District for all of the purposes of the District and it is infeasible, after consideration by the Board of Directors, for the District to further increase the water charges imposed on its member cities to cover those significant expenses because, in part, the District's member cities have existing water rate structures in place and further increases of the District's water charges will adversely impact the cities' revenue requirements and cost recovery and, therefore, their respective compliance with Proposition 218 (Article XIIID, Section 6 of the California Constitution). The Board is required to determine the amount of money necessary to be raised by taxation during this fiscal year to make annual payments for the interest and principal on general obligation bonds and other obligations approved by the voters prior to July 1, 1978, and to fix the rate of tax to be levied within the District which will raise such amount. Section 72094 of the Water Code requires this Board to fix and certify the tax rate on or before September 1.

Section 2. **Bonded Debt**

The District made the final principal payment April 1, 2002. For the tax year 2024-2025,

the District will not levy any tax rate for the authorized General Obligation Bonded debtedness.

Section 3. **State Water Project**

Based on the determination specified in Section 1, above, regarding the infeasibility of increasing the District's water charges, the minimum amount of money necessary to be raised by taxation to pay indebtedness of the District approved by its voters prior to July 1, 1978, for the fiscal year 2024-2025, is $8,900,000. The rate of tax (percentage of market value) hereby levied upon all the taxable property within this District for the fiscal year 2024-2025, which will raise such minimum amount be, and the same is hereby fixed and levied, at the rate of 0.030000 percent of market value. The sum for the Azusa Reorganization portion is $84,017 at a reduced rate of 0.023100 percent and the sum for the Alhambra/Monterey Park Reorganization portion is $36,602 at a reduced rate of 0.022300 percent.

Section 4. **Certification**

This Board certifies to the Board of Supervisors of the County of Los Angeles and to the Los Angeles County Auditor that the tax rate (percentage of market value) of 0.030000 percent of market value on all taxable property in the General District, and a reduced tax rate of 0.023100 percent within the Azusa Reorganization and a reduced rate of 0.022300 within the Alhambra/Monterey Park Reorganization as the tax rates fixed and levied therein which will raise the minimum amount of moneys required by the District to make payments on its indebtedness, which was approved by the voters prior to July 1, 1978. The Auditor of the County of Los Angeles be, and is hereby directed at the time and in the manner required by law to compute and enter in the County Assessment Roll the respective sums to be paid as a District tax on the property in the District, using the rate of levy as herein fixed by this Board and the assessed value as found on the Assessment Roll for the property subject to tax and when taxes are collected to pay the same to this District.

Section 5. **Transmittal**

The Secretary shall immediately transmit a certified copy of this Resolution to the Board of Supervisors of the County of Los Angeles and to the County Auditor of the County of Los Angeles.

PASSED, APPROVED, AND ADOPTED on August 12, 2024

_____
President

_____
Secretary

(SEAL)

CR52RPTA

COUNTY OF LOS ANGELES
AUDITOR-CONTROLLER, TAX DIVISION

2024 – 25 SECURED TAX RATES

ACCT #	AGENCY NAME	TAX RATE
367.05	SAN GABRIEL VAL MUN WATER DIST	.000
367.06	SAN GABRIEL VALLEY MWD GO BONDS	.000
367.07	SAN GAB VAL MWD STATE WATER BOND	.030
367.08	SAN GABRIEL VLY MWD-AZUSA REORG	.000
367.09	SAN GAB VAL MWD-GO BONDS-AZUSA	.000
367.10	SAN GAB VAL MWD – SWB – AZUSA	.0231
367.11	SAN GAB VLY MWD – REORG.NO. 1-1998	.000
367.12	SAN GAB VLY MWD – SWB – ALH/MP	.0223

I, Darin J. Kasamoto, THE CHIEF EXECUTIVE OR THE CHIEF FINANCIAL OFFICER FOR THIS AGENCY AND I HEREBY CERTIFY THAT THE TAX RATES LEVIED HEREIN ARE IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE XIII SECTION 1(b) OF THE CONSTITUTION OF THE STATE OF CALIFORNIA.

_____	General Manager	August 12, 2024
AUTHORIZED SIGNATURE	TITLE	DATE

STATE OF CALIFORNIA)
) SS
COUNTY OF LOS ANGELES)

I, DARIN J. KASAMOTO, General Manager and Assistant Secretary-Treasurer of the San Gabriel Valley Municipal Water District and of the Board of Directors thereof, DO HEREBY CERTIFY that the foregoing is a full, true and correct copy OF Resolution No. 08-2024-737 entitled "A RESOLUTION OF THE BOARD OF DIRECTORS OF SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT DETERMINING THE AMOUNT OF MONEY NECESSARY TO BE RAISED BY TAXATION FOR PAYMENT OF GENERAL OBLIGATION BONDS AND OTHER VOTER APPROVED INDEBTEDNESS FOR THE FISCAL YEAR 2024-2025 AND FIXING THE RATE OF TAX LEVIED (TAX CODE AREA 367.05 THROUGH 367.12)

DATED: August 12, 2024

_____
Deputy Secretary-Treasurer
of the San Gabriel Valley
Municipal Water District and
Of the Board of Directors
thereof

SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT

BUDGET - FISCAL YEAR 2024-2025

ACCT NO.	UNRESTRICTED REVENUE GENERAL OPERATIONS	2022-2023 YEAR END	2023-2024 BUDGET	PROJECTED YEAR END	2024-2025 BUDGET	NOTES
3002	Tax Revenue (Gen. 1%)	5,331,806	5,200,000	5,946,665	6,000,000	
3003	Water Sales	1,350,726	4,465,000	4,984,992	2,000,000	
3004	Interest Revenue	555,053	425,000	900,000	1,000,000	
3005	Ready-To-Serve	11,880	11,880	11,880	11,880	
3006	RDA Prop Tax Trust Fund (AB1x)	915,905	900,000	822,324	700,000	
3008	SBVMWD Pipe Mtn Revenue Schedule 6	13,373	30,000	22,789	30,000	
	TOTAL GENERAL OPERATIONS REVENUE	8,178,743	11,031,880	12,688,650	9,741,880	
	POWER REVENUE SALES					
3210	Hydro Power Sales	$ 29,810	50,000	220,052	50,000	
	TOTAL POWER REVENUE SALES	29810	50000	220,052	50,000	
	RESTRICTED REVENUE - SWP					
3306	Tax Revenue - State Water Project	9,927,672	9,800,000	9,972,337	10,000,000	
	TOTAL RESTRICTED REVENUE - SWP	9,927,672	9,800,000	9,972,337	10,000,000	
3400	Grants-DWR	0	0	0	0	
3401	Grants - State Water Board & Reclamation	0	0	0	0	
	TOTAL INCOME	**18,136,225**	**20,881,880**	**22,881,039**	**19,791,880**	
	GENERAL OPERATING EXPENSES					
4001	Directors Fees	28,400	35,000	56,200	60,000	
4010	Administrative Salaries	325,525	315,057	345,352	327,659	
4014	Field Supervision	194,812	213,584	234,730	233,229	
4020	Office Salaries	235,750	238,439	236,264	255,054	
4021	External Affairs Manager	140,951	144,345	142,926	152,672	
4022	Part-Time Employee	9,521	10,370	0	0	
4023	External Affairs Specialist	-	76,170	77,634	83,179	
4027	Office Supply/Misc Expense	28,161	44,000	29,444	44,000	
4029	Election Expense	100	0	0	82,000	
4031	Legal Services	30,030	50,000	30,948	50,000	
4032	SWC Services	42,396	45,000	45,176	47,000	
4033	Public Relations & Conservation Materials	131,063	135,000	52,673	135,000	
4034	Governmental Relations Consulting	96,116	96,500	97,705	98,000	
4035	Consulting & Engineering	458,843	1,222,520	1,036,755	1,000,000	
4036	Medicare Tax	16,850	19,703	19,661	20,491	
4039	PERS Payroll Deductions	836,300	674,050	623,460	372,142	
4040	Social Security	60,837	64,294	71,917	75,920	

ACCT NO.	Page 3 ACCOUNT DESCRIPTION	2022-2023 YEAR END	2023-2024 BUDGET	PROJECTED YEAR END	2024-2025 BUDGET
	SCHEDULE VI - RIVERSIDE FACILITY				
4300	Salaries - Riverside	6,410	16,803	4,416	6,760
4301	Riverside Maintenance & Materials	3,962	28,300	14,981	6,000
	TOTAL RIVERSIDE FACILITY	10,372	45,103	19,397	12,760
	HYDRO EXPENSES				
4402	Hydro Salaries	3,441	9,523	13,562	15,600
4403	Hydro Maintenance & Materials	4,110	13,500	15,379	25,000
4406	SCE Hydro (8800)	5,624	10,000	7,975	10,000
	TOTAL HYDRO EXPENSES	13,175	33,023	36,916	50,600
	RESTRICTED EXPENSE - SWP				
4510	State Project Expense	8,132,695	7,700,000	8,610,539	8,800,000
4511	State Project Amoritization	96,403	97,000	96,408	97,000
4591	State Project Cost of Water Adjustment Pr Yr	(25,009)	0	70,099	0
	TOTAL RESTRICTED SWP EXP	8,204,089	7,797,000	8,777,046	8,897,000
	TOTAL EXPENSE	**13,388,274**	**21,612,507**	**18,333,997**	**21,103,905**

SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT

RECAP				
TOTAL REVENUE	18,136,225	20,881,880	22,881,039	19,791,880
TOTAL EXPENSE	13,388,274	21,612,507	18,333,997	21,103,905
GAIN (LOSS)	4,747,950	(730,627)	4,547,042	(1,312,025)
FUNDS TRANSFERED FROM RESERVES	0	(730,627)	0	1,312,025
NET INCOME	4,747,950	0	4,547,042	0

AGENDA ACTION ITEM NO. 3

RESOLUTION NO. 08-2024-838 MODIFYING PURCHASING/PROCUREMENT POLICY IN ADMINISTRATIVE CODE

RECOMMENDED ACTION: Adopt Resolution No. 08-2024-838.

BACKGROUND: At the July Board Meeting, Legal Counsel Ciampa suggested modifications to the purchasing/procurement policy in the Administrative Code. The modifications clarify the General Manager's authority in order to expedite change orders so that projects can be completed in a timely fashion. Any modification to the Administrative Code must be done via resolution

BUDGET IMPACT: N/A

PRIOR BOARD ACTION: Approved conceptual changes to the code at the July Board Meeting.

RESOLUTION NO. 8-2024-838

RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT AMENDING DISTRICT ADMINISTRATIVE CODE

WHEREAS, the Board of Directors of the San Gabriel Valley Municipal Water District ("District") adopted the District's Administrative Code ("Code") by Resolution No. 12-96-510 to govern the District's operations; and

WHEREAS, the Board of Directors reviews and updates the Code from time to time to ensure the Code reflects current law and regulations and the current policies of the Board of Directors; and

WHEREAS, District staff and general counsel have brought to the Board of Directors' attention the need to add provisions to Title 3, Chapter 7 of the Code to address the General Manager's authority to issue change orders on contracts into which the District has entered; and

WHEREAS, the Board of Directors approved the concept of such changes at its July 8, 2024 meeting and directed the District's legal counsel to prepare this resolution and the attached amendments to implement those changes, as reflected in the proposed redlined changes attached hereto as Exhibit A; and

WHEREAS, the Board of Directors has reviewed those proposed revisions and agrees that such changes to the Code are necessary and appropriate,

NOW, THEREFORE, IT IS RESOLVED BY THE BOARD OF DIRECTORS OF THE SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT that the proposed addition of Section 3-7.105.1 in Title 3, Chapter 7 of the Code, as set forth on Exhibit A hereto, which is fully incorporated herein by this reference, is hereby approved and District staff and legal counsel are directed to incorporate such revisions into the Code.

PASSED, APPROVED AND ADOPTED this 12th day of August, 2024.

_____
President

ATTEST:

_____
Secretary

EXHIBIT A

TITLE 3. FINANCE

CHAPTER 7. PURCHASING

3-7.105.1 **CHANGE ORDERS**

(a) With respect to any change order issued on a contract entered into by the District, the General Manager shall have authority without need for Board of Directors' approval to issue a change order as follows: (i) any single change order up to ten percent (10%) of the original contract amount; and (ii) for any additional change orders, up to a cumulative total of twenty percent (20%) of the original contract amount.

(b) For any change order that exceeds the amounts set forth in subdivisions (i) or (ii) of Section (a), above, the Board of Directors must approve any such proposed change order prior to the District's agreement to that change order; provided that the General Manager may authorize work to proceed under any such change order, with subsequent ratification by the Board of Directors, if in the General Manager's discretion the facts and circumstances relating to the contemplated work demonstrate that immediately proceeding with that work will result in an economic benefit to the District or is necessary to protect public health and safety.

AGENDA ACTION ITEM NO. 4

CORROSION ENGINEERING SERVICES

RECOMMENDED ACTION: Select Corrpro as the District's Corrosion Engineer.

BACKGROUND: As part of the District's plans to do a comprehensive pipeline assessment and maintenance plan, a qualified corrosion engineer is required to help with the plan. An RFQ was developed and sent to six firms. Two of the firms submitted their qualifications. After staff review, Corrpro is recommended to be the District's Corrosion Engineer.

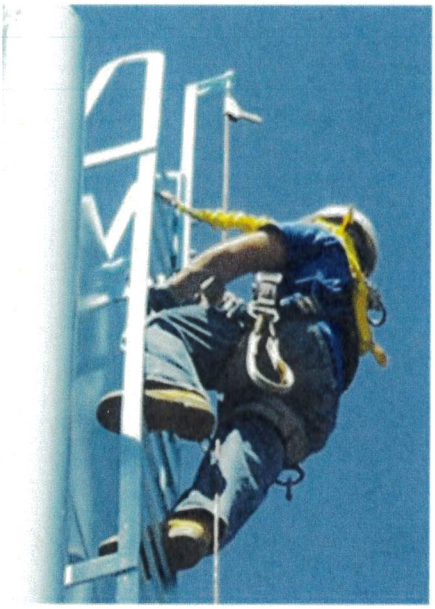
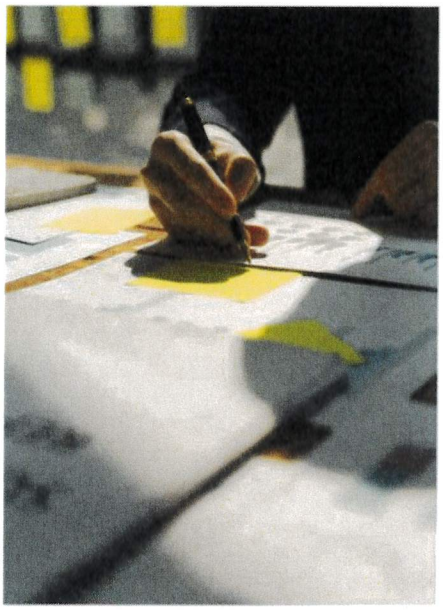
BUDGET IMPACT: N/A

PRIOR BOARD ACTION: N/A

Corrpro®
An azuria Water Solutions Company

Statement of Qualifications

As-Needed Corrosion Engineering and Cathodic Protection Consulting Services

Corrpro Reference No.: SO-00176914

PREPARED FOR:
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
1402 N. VOSBURG DRIVE
AZUSA, CA 91702

ATTENTION:
DARIN KASAMOTO
GENERAL MANAGER

SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
AZUSA | SIERRA MADRE | MONTEREY PARK | ALHAMBRA

JULY 25, 2024

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July 25, 2024

San Gabriel Valley Municipal Water District
1402 N. Vosburg Drive,
Azusa, CA 91702

Attn: Darin Kasamoto

Subject: Statement of Qualifications
As-Needed Corrosion Engineering and Cathodic Protection Consulting Services
Corrpro Reference No.: SO-00176914

Dear Darin:

Corrpro Companies, Inc. is pleased to submit this statement of qualifications in response to your RFQ for as-needed corrosion engineering and cathodic protection consulting services. Corrpro has built a reputation with our clients for outstanding safety performance, problem solving and value engineering. The project manager, corrosion engineers, technicians and coordinator on the Corrpro team have all worked together on similar projects for all aspects related to corrosion engineering, cathodic protection, and conditional assessments pertaining to municipal public works facilities and utilities.

The main scope of the work is to conduct engineering studies, prepare plans/specifications, field services such as inspections of cathodic protection equipment and coatings, condition assessment, soil testing, and cathodic protection monitoring, corrosion surveys, corrosion monitoring, design analyses, engineering recommendations, and cost estimates. Corrpro will also utilize UNIFIER, a project management database to complete assigned projects. Please see more information about our firm as follows:

Name of the Firm:	Corrpro Companies Inc.
Address:	23309 La Palma Ave, Yorba Linda, CA 92887
Legal Form:	Corporation
Parent Company Identifier:	Azuria Water Solutions
Number of Employees:	Fourteen (14)
Point of Contact:	Sarvjit Singh, Engineering Manager
	562-843-2877- sjsingh@azuria.com
DIR Number:	1000002963

We sincerely thank you for the opportunity to submit this statement of qualifications, if you have any questions or require additional information, please contact Corrpro.

Respectfully submitted,

Sarvjit Singh
Engineering Manager
NACE CP Specialist #6125

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1. EXECUTIVE SUMMARY

Corrpro was established in 1984. Since then, it has become one of the largest corrosion engineering firms globally. Corrpro employees a biggest team of corrosion professionals consisting, registered professional corrosion engineers, CP, corrosion and coating specialists, technologists, technicians and supporting staff. It is a full-service firm that provides corrosion control system design services, materials, "turn-key" installation services, follow-up maintenance for all cathodic protection needs, coating inspections, corrosion studies, condition assessment, AC and DC interference mitigation. Corrpro specializes in the application and testing of cathodic protection for metallic potable and recycled water infrastructure. We have a long history of providing solutions to corrosion problems within the industry. All work will be performed in compliance with the standards and codes as set forth by the AWWA, AMPP (NACE), ASTM, San Gabriel Valley Municipal Water District Standards and Specifications for Corrosion Control System. Corrpro has been a pioneer in developing the systems and components that have become standard practice within the industry today. In addition, Corrpro operates under Azuria Water Solutions umbrella which is focused on preserving integrity of the water and wastewater infrastructure worldwide. The Azuria Water Solutions have recently acquired a significant number of firms to meet the rising marketplace demand for rehabilitation and protection of aging water and wastewater infrastructure. As a result, Corrpro is positioned well and financially backed by a very strong business house in the industry that has a total annual revenue well over $1B. Corrpro takes pride in meeting its contractual obligations and achieving customer satisfaction.

A Qualified Company: Corrpro is North America's largest corrosion engineering, cathodic protection, and corrosion testing firm. For more than thirty (30) years, Corrpro has been providing professional corrosion consulting and cathodic protection engineering, design and turnkey services to major oil companies, government agencies, municipal water agencies, sewer and gas utilities, public transportation agencies, universities, and private industry firms. Corrpro support clients from over thirty-five (35) strategically located offices coast to coast in the United States, Canada, Middle East and Europe. Corrpro has worked previously for the district and is familiar with its standards, procedures and processes in order to preserve the integrity of 38 miles of pipelines ranging from 30-inch to 54-inches in diameter, two (2) flow meter facilities, two (2) flow control structures, three (3) pressure reducing stations, one (1) isolation valve and a hydroelectric power plant.

Corrpro's Services: Corrpro's expertise includes all aspects of corrosion control services, from surveys and site investigations, preparation of cathodic protection design plans and specifications, prioritized recommendations, cost estimation, cathodic protection repairs/upgrades/replacements, coating inspection, condition assessments, system commissioning, client personnel training and maintenance services. Corrpro will meet all the district's requirements by making available any of the following corrosion control services:

Corrpro's Services		
Corrosion Engineering Consulting	Cathodic Protection Feasibility Testing	Cathodic Protection Testing and Audits
Cathodic Protection Design	Turnkey Cathodic Protection Design-Build	CP System Maintenance Programs
AC Induced Voltages Pipeline Interference Mitigation	DC Stray Current Interference Testing and Mitigation	Bid and Construction Phase Technical Support Services
Construction Management	Pipeline Integrity Assessment	Condition Assessments
Coasting Inspection	Corrosion Monitoring	Failure Analysis and Laboratory Testing

QA/QC:
Corrpro's ISO 9001 certification and other internal engineering QA/QC procedures will ensure all work is conducted and completed at the highest standards. Corrpro will appoint a project coordinator to keep track of all invoicing, ensuring that all work is completed on schedule and within the budget. Project team will work under the directions of a NACE CP Specialist and under the supervision of a Corrpro's California Registered Professional Engineer in accordance with project specifications, AMPP (NACE), NEC, ASTM, AWWA, ISO and other applicable industry standards.

Excellent Safety Record:
Our safety record is the best in the industry (2023 TRIR of 0.32). Corrpro's health and safety manual and other supportive documentation can be provided upon request.

Cost Efficiency:
This proposal describes the ability of Corrpro to provide comprehensive corrosion mitigation services under one contract, creating an economy of scale which will save the district money. Corrpro is the only company with the ability to provide all cathodic protection and corrosion control services in-house and with minimal subcontracting, thereby enhancing accountability, work efficiencies and reducing project costs. Corrpro has in-house corrosion engineering and construction team, materials supply chain and contracting divisions which work closely together to ensure that projects are completed on time and within budget. These integrated, in-house capabilities mean that the district will not pay for markup of subcontractor services, costs which other firms simply pass on to their customers, thereby inflating project costs and reducing the amount of work which can be completed within the project budget.

2. PROJECT APPROACH

As the nature of the scope of work is to provide services on as-needed basis to the San Gabriel Valley Municipal Water District, Corrpro will respond promptly to address district's needs as they arises.

Corrpro will act as subject matter expert on any items related to cathodic protection, coating, condition assessment and corrosion engineering services as follows:

Upon receipt of a written notice from the district for a particular project, Corrpro will schedule a project kickoff meeting with the district's staff to discuss the project's goals, objectives, review the scope of the work and confirm deliverables. At this meeting, project reporting/communications protocols will be established. A project schedule will be prepared, and technical key issues will be discussed to establish the project guidelines. The project schedule will include: each task, subtasks, milestones, critical path designation, and a schedule for holding progress meetings. The Project Schedule will be updated whenever there is an expected change to the deliverables and will address any deviation from the schedule. Corrpro will conduct an initial field visit to verify and identify the locations, access and constrains, Right-of-Way ownership, cathodic protection points, traffic conditions, and any other information pertaining to the project. Any conditions that require additional safety considerations will also be identified at this time.

The project approach will include staffing an experienced engineering and management team with experience in the coating, corrosion testing, condition assessment, cathodic protection design, AC/DC interference

mitigation, corrosion engineering inspections and surveys associated with the underground pipelines constructed using different type of materials, coating, and lining systems.

The deterioration of metallic and non-metallic structures begins as soon as they are installed in corrosive environments. If deterioration is not checked, it can lead to failures and/or malfunctions. Properly designed and maintained cathodic protection systems prevent hazards, reduces downtime by minimizing potentially catastrophic failures and increases reliability throughout the lifespan of the water infrastructure. The focus of the project shall be to ensure the following:

- Ensure that the proposed inspection, testing, and designs are cost effective.
- Plans, specifications, and designs developed by Corrpro are easy to implement and provide most reliable and optimum protection.
- Proposed testing and inspection methods will provide a good representation of the overall condition.
- Testing and inspection methods are implemented with a minimum disturbance.
- Recommendations are provided such that maintenance and operation cost are minimal.
- Recommended solutions are environmentally friendly and easy to implement.
- Recommended repairs are sequenced in an order of most critical to least crucial with cost projections.
- The inspections, administration and management of construction projects is handled by most experienced staff to keep the projects within the allocated budget.

It is also important that the planned field testing, assessments and surveys are carried out in an utmost safe manner so that the best possible outcome is achieved. Therefore, safety consideration will be given a top priority during the planning stage of the project. All hazards shall be clearly identified, and engineering controls shall be designed to prevent any accidents. All field data collection shall be done accurately. Potentially unreliable data shall be recollected to confirm data accuracy and consistency. Alternative inspections, test methods shall be used to ensure that an accurate data is being collected for given site conditions. In addition, it shall be ensured that all testing instruments and equipment are calibrated and in good working/operating condition.

GPS DATA COLLECTION: As one of the few corrosion engineering companies to offer GIS services, Corrpro provides project status maps, displays for client board meetings, and prepares Exhibit maps for clients. Corrpro uses ESRI's software suite for GIS needs. Clients will benefit from being able to inter-operate their software with Corrpro's. For scheduling purposes, Corrpro utilizes MS Project. In the beginning phases of each project, Corrpro will prepare a project plan ensuring that all predecessors are correctly assigned and snaps a baseline by which future versions will be compared. Corrpro will analyze the critical path to ensure those tasks are given extra attention. Corrpro manages resource capacity across a given period of time to ensure that no individual resources are over or under-allocated. Other software used by Corrpro includes Microsoft SharePoint and SQL. Corrpro's ability to leverage technology will benefit the client by creating transparency and maximum efficiency. Corrpro will incorporate geographic information collected for the project and present it in a dynamic map interface. The goal of the GIS will be to collect various data related to the Client's pipeline system and make this information available to the Client's staff for geospatial analysis and visualization. The Corrpro team is experienced in collecting field data using Global Positioning Systems (GPS) and integrating that information into the database for analysis. In addition to field data collection, Corrpro can digitize existing documents, such as pipeline maps for integration into the GIS.

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3. PROJECT ORGANIZATION AND KEY PERSONNEL

Corrpro has established a Project Management Organization (PMO) in the West Coast to provide a high level of consistent project management to our clients. The mission of the PMO is to establish and maintain project management practices in a way that encourages collaboration, standardization, and overall improvement in our ability to deliver projects within scope, schedule, and budget. This PMO consists of a team of experienced project managers and project coordinators who assist the regional Corrpro team, establish and maintain best PM practices to ensure projects are completed on time, within budget, and with a high degree of quality. In addition to improving project planning, PMO objectives are as follows:

- Facilitate better decision making prior to project initiation and during execution.
- Support Operations, Construction, and Engineering as a source for project management leadership and methodology.
- Provide a channel of communication for project status, financial health, and schedule.

Following is the list of key team members proposed to work on this project:

Project Team Members	Education/Qualifications/Length of Employment at Corrpro
Walter Young Principal-in-Charge, PE -CA	B. S. Degree in Metallurgical Engineering, Drexel University, Over 20 Years With Corrpro
Dirk van Oostendorp Technical Support Director – CChem FRSC, FICorr, NACE CP 4	MBA - International Business (2021) D.Prop and M.S.C. - physical chemistry (1990) BSME - mechanical engineering (1985) AAS - Chemical Technology, Over 5 Years With Corrpro
Sarvjit Singh Project Manager – NACE CP 4, #6125	Diploma in Electrical Engineering (1989 – 1992) GN Engineering College, Ludhiana, India, Over 25 Years With Corrpro
Roger Nielson Project Safety Manager	BCSP-CHST, Construction Health and Safety Technician OSHA 500,501,510,511, Over 4 Years With Corrpro
Ericka Johnson Project Engineer – NACE Certified CP-3 #68047	B.S. Chemical Engineering, University of California at Riverside, CA (2015), Over 8 Years With Corrpro
Elena van Roggen Project Engineer /GIS Analyst – NACE Certified CP-2	M.P.S. in Geographic Information Sciences, University of Maryland (2014), Over 9 Years With Corrpro
Leonard Pederson Senior Corrosion Engineer, NACE CP-3 Technologist	Saskatchewan Technical Institute – Electronics Engineering Technology (1977- 1979), Over 30 Years With Corrpro
Edgar Gonzalez Project Field Engineer - NACE Certified CP-2, CIP-1	B.S. Mechanical Engineering, University of Zulia, Maracaibo, Venezuela, MSC. Corrosion Engineering, University of Zulia,TBC 5 Years With Corrpro
Sanjay Javia Sr. Corrosion Engineer, PE, PMP, NACE CP 4	B.S., Electrical Engineering Saurashtra University, India, Over 17 Years With Corrpro

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Mr. Walter Young, P.E. – Principal-in-Charge

With more than 30 years of experience, Mr. Young is well versed in the design and construction management of a variety of water and wastewater infrastructure projects including water booster pump stations, tanks, transmission mains, sewer collection and wastewater treatment. Mr. Walter has been responsible ensuring accuracy of preparation of plans and specifications, permitting, bid assistance and construction management and other project related deliverables. Mr. Young will provide technical support to the project team as needed.

Mr. Dirk Van Oostendorp – Project Director

Mr. Oostendorp has provided technical support to corrosion engineering projects in the areas of water, wastewater, light rail transit, oil & gas, marine and military facilities. His experience includes inspection, survey testing, design, materials selection, repairs, construction, commissioning and maintenance corrosion control systems for water pipelines, storage tanks, water treatment plants and other water related infrastructure. This expertise includes soil corrosivity testing and evaluation; coating and structure failure analysis; pipeline current requirement testing; pipeline continuity testing and short locating; CP troubleshooting; pipeline stray current interference; pipeline AC mitigation (induced currents from overhead high voltage lines); preparation of CP design plans and specifications; CP materials selection; repair and upgrades of impressed current and sacrificial anode CP systems; and system commissioning and maintenance. Mr. Oostendrop will work closely with the project manager to ensure that all projects assigned to Corrpro are completed with highest quality standards.

Mr. Sarvjit Singh – Project Manager

Mr. Singh has held a significant role in a wide variety of projects relating to all facets of corrosion detection and corrosion control for water/wastewater facilities, regulated oil and natural gas pipelines, and other metallic structures. He has over 25 years of experience working on oil and gas pipeline, electric power, refinery and chemical processing industries projects. Major attributes include the development of project-specific procedures and evaluation plans to assess existing corrosion conditions and formulate cost-effective corrosion control measures. Mr. Singh has successfully managed several projects for the various Corrpro offices and now has the responsibility to lead the projects throughout west coast as an Engineering Manager.

Ms. Ericka Johnson - Project Engineer

Ms. Johnson is a Project Engineer with 8 years of experience in the corrosion industry. Her career includes a significant number of projects involving CP systems designs, testing and report writing in accordance with NACE, ASTM, AWWA standards and criteria. Ericka, has been involved in the design of corrosion control system for variety of infrastructure including underground pipelines, above grade storage tanks projects, light rail systems etc. She has designed CP system for a large number of projects in the recent years. She has been actively involved in projects that had scope of work to assess the water and soil corrosivity in order to estimate corrosion rate and remaining life of the metallic and concrete structures, prepare CP system feasibility studies, undertake corrosion studies for large commercial solar and battery storage systems, water and wastewater treatment plants, marine oil terminals, booster pump stations etc.

Mr. Leonard Pederson – Senior Corrosion Engineer

Mr. Pederson has over 35 years of experience in the cathodic protection field encompassing a range of roles in office and project management, condition assessments, design, technical report preparation, in-field testing, maintenance and construction. Most recently, Mr. Pederson supported for fifteen years the Marathon Pipeline Logistics corrosion department in daily operations, implementation of corrosion control program and project management as an embedded corrosion engineer.

Areas of experience include cathodic protection of oil, gas, and water transmission and distribution pipeline systems, refinery and petrochemical plant piping, fuel storage and handling facilities, production and injection well casings, storage tanks and various other underground steel structures, ductile iron pipelines, aluminum and copper piping systems, steel sheet pile bulkheads, PCCP, CML&C steel pipelines, and steel reinforced concrete structures. Experience with AC mitigation, stray current control, and various over-pipeline work such as pipeline locating, depth surveys, close space potential surveys, and C-Scan, attenuation surveys. Experienced in the installation and maintenance of various cathodic protection system components and equipment.

Mr. Sanjay Javia, P.E, PMP, NACE CP Specialist, CIP Level 1 – Sr. Corrosion Engineer

Mr. Javia is our senior engineer with over 25 years of experience in the corrosion industry. His career includes a variety of projects involving CP system designs, testing and report writing in accordance with NACE and other industry standards and criteria. He has been involved in the QA/QC of several major projects involving design of corrosion control system for variety of infrastructure including underground pipelines, above grade storage projects, water and wastewater treatment plants, light rail transit systems etc. He has conducted corrosion testing, condition assessment, failure analysis, soil corrosivity analysis, concrete integrity testing, design of CP system for a large number of projects in the recent years throughout the west coast region.

Ms. Elena Van Roggen, Project GIS/GPS Engineer – NACE Certified CP 2

Ms. Van Roggen is a Senior Corrosion Technician with over 8 years of experience in the corrosion industry with a M.P.S. degree from University of Maryland in Geographic Information Sciences (GSI). She will provide all GPS/GIS technical services during the course of the project and also possesses mapping production and spatial data management capabilities. She has experience in all aspects of cathodic protection field testing, inclusive of soil resistivity surveys, cathodic protection testing, cathodic protection system design, pipeline assessments and stray current monitoring, testing and mitigation.

Resumes of each team member and a project organizational chart can be found in respective appendices.

4. QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM

It is the aim of Corrpro Companies to fully meet our customer's expectations by providing products and services on time, within specification, including any related statutory and legislative issues, and to the relevant standards as required by the customer. We at Corrpro actively promote a culture of continual improvement and are committed to involve every employee in taking pride in their personal contributions to our company values that support all aspects of our quality program.

Corrpro has a well-established quality management system (QMS) that is strictly followed in order to complete all project related tasks. It is important that the planned field testing, assessments and surveys are carried out by fully qualified, trained and experienced staff so that the best possible outcome is achieved. Quality, efficiency and safety considerations will be given a top priority during the planning and execution stages of the project. All hazards shall be clearly identified, and engineering controls shall be implemented. All field data collection shall be done accurately utilizing calibrated equipment. Potentially unreliable data shall be recollected to confirm data accuracy and consistency. Alternative inspections, test methods shall be used to ensure that an accurate data is being collected for given site conditions. In addition, it shall be ensured that all testing instruments and equipment are calibrated and in good working/operating condition.

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QA/QC: Corrpro is ISO 9001:2015 compliant, and other internal engineering QA/QC procedures will ensure all work is conducted and completed at the highest standards. Corrpro will appoint a project coordinator to keep track of all invoicing, ensuring that all work is completed on schedule and within the budget. All design work shall be performed by a NACE CP Specialist under the supervision of a Corrpro California Registered Professional Engineer in accordance with project specifications, NACE (AMPP), NEC, ASTM, AWWA and other applicable industry standards. All technical documents will be reviewed internally by senior engineers and project manager before submitting to the district. In addition to our internal quality management system, Corrpro will also strictly adhere to district quality management system in order to ensure compliance. Assigned technical staff will remain on the specific projects until they are fully completed.

5. EXPERIENCE AND REFERENCES

Corrpro's Experience: The following is a brief discussion of some of Corrpro's previous coating inspection, corrosion testing and condition assessment projects of similar nature to the work being requested by the district:

South Coast Water District (SCWD)
Contact Information: Taryn Kjolsing, P.E. (949) 541-1327, tkjolsing@scwd.org
Location: Laguna Beach, CA
Corrpro Staff: Sarvjit Singh, Ericka Johnson, Dirk van Oostendorp, Elena Van Roggen, Sanjay Javia, Edgar Gonzalez

Description of Services: Corrpro has conducted coating and lining inspections for water reservoirs, provided corrosion testing services associated with 60-inch diameter PCCP, RCCP and CML&C water pipes, carried out pipe failure analysis where the pipeline failed due to external pipe corrosion, setup confined space entry equipment to enter the CM-10 concrete structure to assess the condition of coating system and condition of multiple piping located inside a large inlet/outlet concrete structure below grade at depth of 20 ft. Carried out various inspections, field surveys of SCWD water transmission main and other facilities and provided cathodic protection design services for PCCP, RCCP, CML&C pipelines with a total length of greater than 65 miles of large diameter water transmission lines. This work included the preparation of all cathodic protection design drawings, cathodic protection specifications and traffic control plans, engineering estimate, permits processing, project construction schedule all suitable for contractor bidding and construction. The contract value of these projects was over $500K, and completed within the original budget. We currently have a MSA in place with SCWD and continuing to provide our services since 2014.

Orange County Sanitation District (OCSD)
Contact Information: Brian Waite, Engineering Supervisor, (949)243-4875, bwaite@ocsan.gov
Location: Fountain Valley, CA
Corrpro Staff: Sarvjit Singh, Dirk van Oostendorp, Sanjay Javia, Ericka Johnson, Leonard Pederson, Edgar Gonzalez

Description of Services: Corrpro has been providing Corrosion Engineering Services to OCSD Planning Division, Engineering Division and Reliability Engineering and Maintenance Division for more than 15 years. The services

being provided to OCSD are to manage an on-call assessment support contract, including budgetary controls, timesheets and invoice validation; monitoring and managing existing cathodic protection systems; detailed planning for OCSD Plants structures, collections systems and pump stations assessments (prioritizing, scheduling, coordinating, processing shutdowns, pumping, etc.); review project drawings and submittals and provide information to the contractors; perform confined space inspection and evaluation; prepare reports and recommendations; develop plans and specifications, request cost estimates and proposals for repair projects; manage incidental repair projects; inspect and diagnose plants and collections O&M issues and provide supports; perform underground utility locating; resolve engineering and design issues, evaluate alternatives and prepare and present recommendations to OCSD management; manage assessments database; schedule and lead assessment related meetings; provide technical support to CIP Projects; review CCTV (closed-circuit television) data; develop utility piping system maps for OCSD plants; manage and perform annual corrosion protection and gas leak surveys. Some of the projects Corrpro had successfully completed in recent years are: Assessment of Digester 5, 9 and 10, Aeration Basin 3, 4 and 8, Primary Clarifier 6, 8, 9, 10, 11, and 12, Digester D and K, Coating evaluation of Digester mixing pumps, 120-inch outfall line, 108-inch primary effluent line, assessment, and repair of Digester D, M and R, corrosion assessment of Sunflower and Santa Ana pipeline (assessments were performed in a live sewer flow), CCTV assessment of 66-inch, 84-inch and 120-inch Interplant Pipeline, Plant 1 Headworks 2 assessment, Plant 2 west RAS pipeline assessment and repair, assessment and repair Digester 6;78-inch line assessment, assessment and repair of PEDB1 (Primary Effluent Distribution Box), 84-inch Interplant Pipeline assessment, Plant 1 and 2 Primary Clarifiers assessment and repairs, force main assessments including close-interval survey, cathodic protection annual survey of OCSD force mains, gas lines, and other pipelines since 2010. Cathodic Protection design and commissioning for OCSD Plant 1 Secondary Clarifiers Effluent and utility piping and OCSD Plant 2 Trickling filter Secondary Clarifiers Influent, effluent and utility piping. Project is ongoing since 2010 with an annual budget of $600,000 and it is completed within the original yearly budget.

Long Beach Water Department (LBWD)
Contact Information: Valeri Karakanov, (Civil Engineer) (562)570-2331, valeri.karakanov@lbwater.org
Location: Long Beach, CA
Corrpro Staff: Sarvjit Singh, Ericka Johnson, Dirk van Oostendorp, Edgar Gonzalez

Description of Services: Long Beach Water Department awarded the Recycled Water Systems Improvement Project Phase-5 Project to Corrpro for providing corrosion testing and engineering services. The project was completed in 2023 while the on-call contract is still active. The primary scope of work was to assess the soil corrosivity and condition of the reclaimed water pipeline that has experienced failures at multiple locations. Corrpro performed various field-testing activities and obtained soil samples by auguring down to pipe depth. Soil samples were tested in the lab to determine the soil corrosivity and its effect on the 20-inch diameter CML&C wastewater pipeline. UT measurements were taken at the exposed pipeline location along with a condition assessment of the cement mortar coating. Conclusions were drawn regarding the pipeline internal and external corrosion mechanisms. Recommendations were made to prevent future corrosion and pipeline failures. The contract amount was $200,000.

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Inland Empire Utilities Agency (IEUA)
Contact Information: Travis Sprague, (Sr. Associate Engineer), (909)993-1942, tsprague@ieua.org
Location: Chino, CA
Corrpro Staff: Sarvjit Singh, Ericka Johnson, Elena Van Roggen, Edgar Gonzalez, Leonard Pederson

Description of Services: Corrpro has been providing IEUA with coating inspections, corrosion testing and cathodic protection design, installation and testing services for recycled water pipelines, treatment plants and reservoirs. The most recent project included a comprehensive survey to determine soil corrosivity along the route of underground recycled water pipelines with a length of over 50 miles. Corrpro designed CP system for those existing pipelines that were found to be installed in corrosive soils. Complete scope of work included corrosion studies, CP design packages, engineer's cost estimates, construction services, final testing and commissioning and closeout documents. The MSA was executed in mid-2021 and ending in mid-2024 with a total value of $750,000 per 3-year period. The project was completed within the original budget.

City of Phoenix
Contact Information: Steven Daras, Civil Engineer II (602)256-3433, stephen.daras@phoenix.gov
Location: Phoenix, AZ
Corrpro Staff: Sarvjit Singh, Edgar Gonzalez, Leonard Pederson, Ericka Johnson

Description of Services: Corrpro has been providing City with cathodic protection testing, evaluations, assessments and technical reports, cost estimates for repairs and repairs of the CP systems for remote facilities (water tanks) water treatment plants and underground piping systems. The contract was executed on August 17, 2018 and ended in June 2024. The total value of the contract was over $0.5M. Complete scope of work included testing of CP system at the City facilities on bi-annual basis, making repairs during the inspections, preparation of technical reports, engineer's cost estimates and major repairs to the system.

California Resources Corporation (CRC)
Contact Information: Robert Cannon, Corrosion Lead (562)522-9977, Robert.Cannon2@crc.com
Location: Long Beach, CA
Corrpro Staff: Sarvjit Singh, Edgar Gonzalez, Leonard Pederson, Ericka Johnson, Jose Barber, Elena Van Roggen

Description of Services: Corrpro has executed a MSA with CRC to provide various types of services to CRC to preserve their DOT and Non-DOT assets. These services include feasibility studies, coating inspections, condition assessment, design of CP systems for tanks, pipelines, cathodic protection testing, evaluations, assessments, interference testing and mitigation, technical reports, cost estimates for repairs and repairs of the CP systems for DOT regulated pipelines and tanks. The oversight of installation of CP systems by other contractors, project administration and management. The MSA was executed more than 15 years back and it is renewed every 3 years. The total value of the contract in 2023 was $350,000 and all work was completed within the original budget.

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6. RATE SCHEDULE

Please see the attached 2024 rate schedule under appendix -1.

7. REFERENCES

The names and phone numbers of customers for whom similar work has been performed are included under section 5.0 of this Statement of Qualifications.

8. TEAM ORGANIZATION CHART

Please see the attached team organization chart under appendix - 2.

9. TEAM MEMBER RESUMES

Please see the attached team member resumes under appendix - 3.

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Appendix 1

2024 Rate Schedule

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CORRPRO RATE SCHEDULE

All proposed rates are "fully-burdened," firm-fixed for the duration of the annual time period identified, and valid for acceptance at time of award. Proposed rates include all costs for overhead, general and administrative expenses, insurance, and profit.

Labor Rate Schedule:

Title	Fully-Burdened Hourly Rates (Regular Work Hours)		
	Calendar Year 2024	Calendar Year 2025	Calendar Year 2026
Principal Engineer	$196.00	$199.92	$203.92
Associate Engineer	$185.00	$188.70	$192.47
Subject Matter Expert (SME)	$190.00	$193.80	$197.68
Senior Corrosion Engineer	$159.00	$162.18	$165.42
Coating Specialist	$133.00	$135.66	$138.37
Corrosion Engineer	$143.00	$145.86	$148.78
C.P. Specialist	$164.00	$167.28	$170.63
Senior Corrosion Technologist	$122.00	$124.44	$126.93
Field Engineer	$132.00	$134.64	$137.33
Corrosion Technician	$125.00	$127.25	$130.05
NACE Certified Coatings Inspector	$125.00	$127.25	$130.05
CAD Operator/Designer	$90.00	$91.80	$93.64
Office Clerk	$68.00	$69.36	$70.75
Confined Space Field Personnel	$136.00	$138.72	$141.49
Other: CCTV Eqpt & Crew	$377.00	$384.54	$392.23

Equipment Rate Schedule:

Description	Rates (Daily)		
	Calendar Year 2024	Calendar Year 2025	Calendar Year 2026
CCTV Robotic Camera	$377.00	$384.54	$392.23
Scaffolding	$116.00	$118.32	$120.69
Confined Space Entry/Retrieval equipment	$1,500.00	$1,530.00	$1,560.60
Confined Space (SCBA)	$1,500.00	$1,530.00	$1,560.60
Other: F-150	$159.00	$162.18	$165.42
Other: F-250	$169.00	$172.38	$175.83
Other: Soil Testing	$270/Sample	$275.40/Sample	$280.91/Sample
Other: MIC Testing	$370/Sample	$377.40/Sample	$384.95/Sample

Other Non-Labor Charges:

Description	Rate/Unit		
	Calendar Year 2024	Calendar Year 2025	Calendar Year 2026
Mileage	0.67/mile	0.69/mile	0.71/mile
Per Diem (for Jobs with Overnight Stay Only)	$200/day	$206/day	$212/day
Other: Lab Testing of Coating Sample	$850.00/Sample	$860.00/Sample	$870.00/Sample

Notes:

1. **Minimum Time:** Minimum of 4 hours will be billable along with vehicle mileage and travel time for any on-site work requested in a day. Actual time will be billable for on-site work hours in excess of 4 hrs.

2. **OT and DT Rates:** Overtime rate shall be calculated using a multiplier of 1.24 to the regular rate. Double time rate shall be calculated using a multiplier of 1.4 to the regular rate indicated for each calendar year.

3. **Holidays Schedule: New Year's Day:** Mon, Jan 1, Martin Luther King Day: Mon, Jan 15, Memorial Day: Mon, May 27, Independence Day: Thurs, July 4, Labor Day: Mon, Sept 2, Thanksgiving Day: Thurs, Nov 28, Day After Thanksgiving: Fri, Nov 29, Christmas: Tues, December 24 & Wed, December 25

4. **Travel Time:** Vehicle mileage is billable as rate indicated per mile in table above. A total of 1/2 hour of personnel rate will be billable for each way at the hourly rate indicated above at the regular rate.

Corrpro has thoroughly read this RFQ and agrees to all the terms and conditions stipulated.



	Corrpro Companies Inc.
Signature	Company Name
Sarvjit Singh	**764878**
Printed Name	Business License Number
Engineering Manager	**July 25, 2024**
Title	Date

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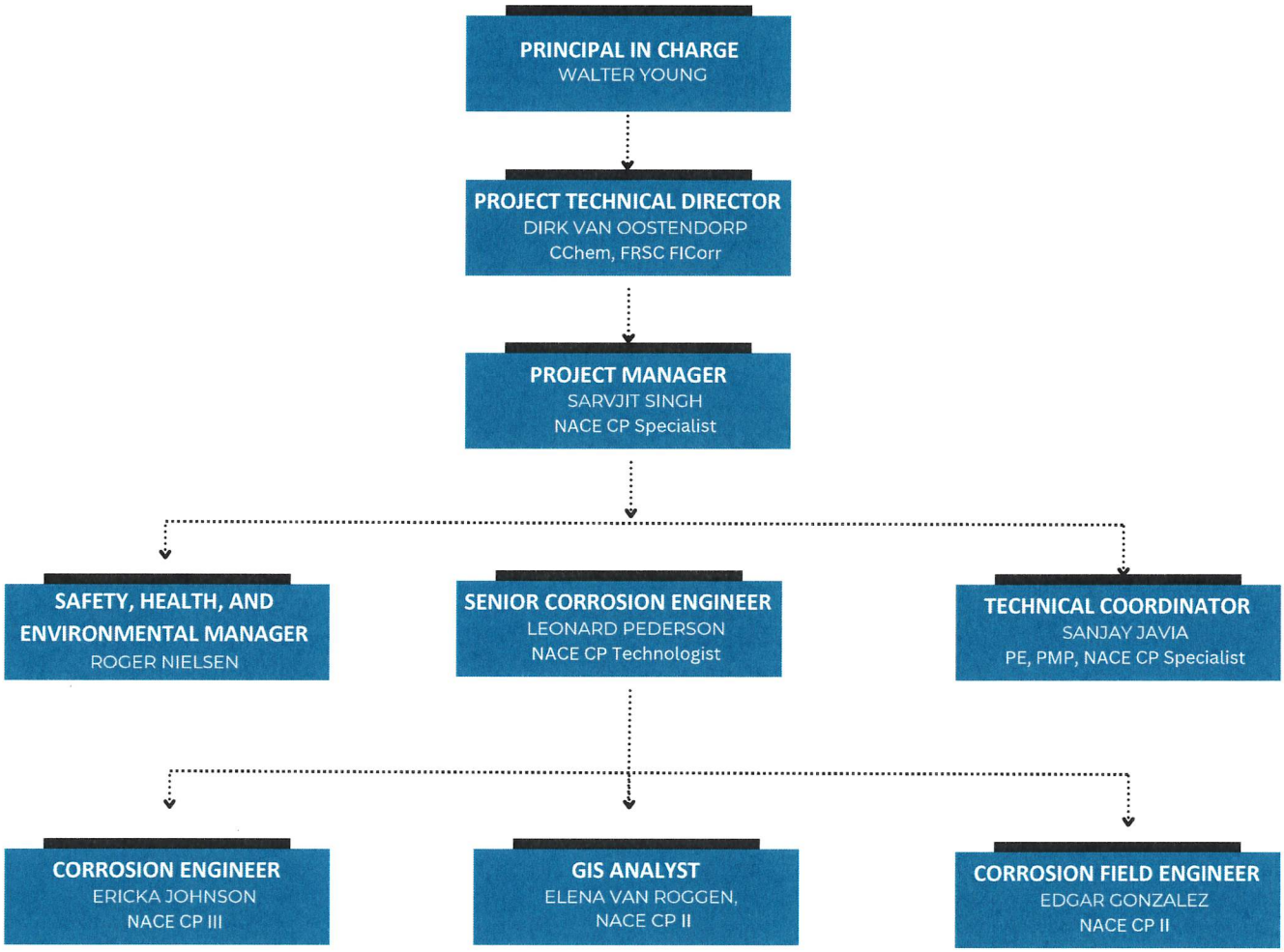
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Appendix 2

Team Organizational Chart

PROJECT ORGANIZATIONAL CHART

AS-NEEDED CORROSION ENGINEERING AND CATHODIC PROTECTION CONSULTING SERVICES



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Appendix 3

Team Members Resumes

Walter T. Young, P.E.

Senior Engineer, Corrpro West Chester

EDUCATION

B. S. Degree in Metallurgical Engineering, Drexel University, 1968

CERTIFICATIONS

- Registered Professional Engineer - Metallurgical: Delaware, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Pennsylvania, Virginia, and California.
- NACE International Certificated Corrosion Specialist, No 1235
- NACE International Certificated Materials Selection/Design Specialist, No. 1235
- Certified by New Jersey Department of Environmental Protection as a Corrosion Specialist (No. 0022857)
- National Center for Construction Education and Research (NCCER), certified as: Pipeline Core Performance Evaluator, Pipeline Corrosion Control Performance Evaluator, Pipeline Maintenance Performance Evaluator, ACTP (Assessment Certification Training Program)-Coordinator, ACTP-Proctor and Craft Instructor.
- Veriforce – certified as performance evaluator for pipeline operator qualifications involving cathodic protection.

Professional Affiliations:

- American Society for Metals, Life Member
- American Society for Testing and Materials
- NACE International (National Association of Corrosion Engineers). Board of Directors, 1993 – 1996. Past Chairman, Philadelphia Section and Northeast Region. Past Chairman, Liberty Bell

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PROFILE

Mr. Young has extensive experience in corrosion engineering for all types of corrosion problems, specializing in metallurgical aspects. These investigations have included the following areas: cathodic protection, stray traction current, atmospheric corrosion, materials selection, coatings, water treatment, design, failure analysis, corrosion studies, reinforced and prestressed concrete, and tanks.

Mr. Young has experience in the design, evaluation, and testing of cathodic protection systems. He has designed cathodic protection systems and performed corrosion surveys for water utilities, gas utilities, power plants, ocean outfall lines, sheet piling, pipelines, bridge pilings, tanks and sewage treatment plants. Mr. Young was the client engineer for Philadelphia Suburban Water Company for 14 years, responsible for designing, testing and maintaining all of their cathodic protection and stray current mitigation systems as well as solving problems regarding internal corrosion. Responsibilities included design, testing, and maintenance of corrosion protection systems for tanks, distribution and transmission piping, wells, treatment facilities and performed failure analyses. He has performed stray traction current investigations and designed stray current mitigation systems for Philadelphia Water Department, Philadelphia Suburban Water Company, and Philadelphia Gas Works facilities. He is the Project Manager under Corrpro's contract with the Philadelphia Water Department to perform pre-construction corrosion control evaluations for new and replacement water mains.

PROJECT EXPERIENCE

Aqua PA.

Mr. Young has worked with Aqua PA for over 40 years and was the Project Manager for Aqua PA for 14 years, responsible for designing, testing and maintaining all of their cathodic protection and stray current mitigation systems as well as solving problems regarding internal corrosion and special projects, such as failure analyses and legal issues involving corrosion.

Philadelphia Water Department

Mr. Young has worked with the Philadelphia Water Department for over 40 years. He has performed failure analysis on cast iron, ductile iron and steel transmission mains and on special projects such as piping and structure condition evaluations. He has evaluated more than 160 steel, cast iron and ductile iron pipe failures for PWD and others.

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PROJECT EXPERIENCE

Project Manager, Philadelphia Water Department Capital Accounts. The work involves evaluation of soil corrosivity and stray current conditions and the determination of corrosion control requirements for all new distribution piping, as well as the design of stray traction current and cathodic protection systems and condition assessment of cast iron and ductile iron water pipe as required.

Expert witness/legal work. Pertinent expert witness/legal work includes: copper water service issues involving interference from cathodic protection, corrosion of firewater piping, corrosion failure of building heating piping in high rise, corrosion of fire sprinkler piping, failure of gas piping, corrosion of ductile iron pipe (PSW Co.), failure of cement pipe (PSW Co.), weld failure on bridge crossing.

Philadelphia Gas Works. Project manager on corrosion engineering projects including external Corrosion Direct Assessment of transmission mains, failure analysis of gas mains, litigation and pipe condition assessments.

Spectra Energy. Project manager of the design, installation and testing of cathodic protection for new high pressure gas pipelines in the northeast.

Helix Ravenswood Power Plant, Long Island City, NY. Project manager responsible for cathodic protection of internal underground plant structures, including pipe-type cables, water inlet and discharges, travelling screens, fuel gas piping and tanks.

City of Lancaster, PA. Project manager of the evaluation of ductile iron sewer force mains in Lancaster, PA.

Chester Water Authority. Project manager on corrosion assessments of cast iron pipe to provide condition information toward possible replacement. Corrosion engineering services for cathodic protection design, interference assessment, condition assessment of bridge crossings and failure analysis of PCCP pipe.

The Ocean County Utilities Authority (New Jersey). Evaluated failures of ductile iron sewage force mains on Long Beach Island, NJ.

Dayton & Knight, Ltd., Vancouver, British Columbia. Completed an assessment of cast and ductile iron pipe for the City of Frederick, Maryland. The project involved identification of locations, excavation, measurement and evaluation to determine the condition of pipe throughout the City's water supply system.

Middletown Township Sewer Authority. Performed failure analyses on ductile iron sewer force mains. Fairfax County Water Authority, Herndon, VA. Project manager in Cathodic protection engineering project to protect new 54-inch ductile iron water pipe.

Wisconsin Dept. of Transportation. Performed third party review of failure analysis report of the piles of the Leo Frigo Memorial Bridge in Green Bay, Wisconsin and made recommendations for improving soil corrosivity analysis for future and existing bridges.

Weston Solutions. Worked on several projects for Weston including pipe evaluation of steel, cast iron and ductile iron sewage pipes for Delcora and the Reading Water Authority.

Valley Forge Sewer Authority. Evaluated corrosion on aluminum structural members in a reinforced concrete clarifier with steel rake arm.

Carnival Cruise Lines. Corrosion evaluation of copper domestic water pipe on Carnival Legend.

Artesian Water, Newark, DE. Project manager on inspection of pipe in bridge crossings.

Dirk L. Van Oostendorp,

MBA CChem FRSC FICorr
DIRECTOR - ENGINEERING

EDUCATION

- MBA - International Business (2021)
- D.Prop and M.Sc. - physical chemistry
- (1990)
- BSME - mechanical engineering (1985)
- AAS - chemical technology (1980)

PROFESSIONAL AFFILIATION

- Member of National Association of Corrosion Engineers (NACE)
- Chartered Chemist (CChem), Royal Society of Chemistry
- Fellow (FRSC), Royal Society of Chemistry
- Fellow (FICorr), Institute of Corrosion

NACE CERTIFICATION

Corrosion Specialist #5125

CP Specialist #5125

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PROFILE

Mr. van Oostendorp has over 43 years of global experience in all aspects of pipeline and structural integrity, encompassing corrosion control, inspection technologies and risk assessment. More recent experience includes integrity monitoring, failure analysis and pipeline integrity issues. Specialized in applying new and evolving technologies to solving problems in all aspects of energy and infrastructural projects.

Regularly called upon to lecture at technical venues on topics such as corrosion control, pipeline integrity and risk assessment. Extensive experience with pipeline integrity, pipeline operations, risk analysis and management of change.

He also is a member of the Industry Advisory Board with Lamar University's Center for Midstream Management and Lone Star College's Curriculum Advisory Board.

EXPERTISE AND QUALIFICATIONS

- Corrosion monitoring
- Cathodic protection system design (GACP, ICCP)
- Material selection
- Chemical treatment
- Direct Assessment (ECDA, ICDA, SCCDA)
- Stray current testing (AC, DC)
- Induced AC mitigation
- Coating evaluation and selection

PUBLICATIONS / CONFERENCE PAPERS

Mr. van Oostendorp has published 21 technical articles, 36 conference papers and delivered 14 invited lectures at international institutes to date on topics of laser diagnostic techniques, hydrocarbon combustion, pollutant formation and pipeline integrity.

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PROJECT EXPERIENCE

Senior technical advisor for Direct Assessment (ECDA, ICDA, SCCDA) pilot project for Saudi Aramco' pilot project covering 5 pipeline segments of varying age and operating history.

Project director for a high-consequence area (HCA) and emergency flow restrictive device (EFRD) study on NGL pipelines in northeast Texas for American Midstream. Work included GIS-based route analysis, determination of pipeline impact radius (PIR), dispersion analysis modeling and toxic/asphyxiation regions.

Project director for a total integrity assessment of a multi-products pipeline system for ENAP in central Chile, including ILI data analysis, corrosion growth rate calculations, CP systems evaluation, verification digs and dent analysis.

Project sponsor for comprehensive Fitness For Service study on 126mi of 8" crude oil pipeline in Ohio for EnLink Midstream using API and ASME codes and corrosion growth rate calculations. Work included preparation of multi-year pipeline repair plan.

Project sponsor and data collection team leader for the Kuwait Gas Management System consultancy project for Kuwait National Petroleum Company, covering the technical and operational audit of all gas (high pressure, low pressure and fuel) and gas condensate pipelines in the State of Kuwait. Work included gathering all technical information on subject pipelines, preparing comprehensive pipeline database, integrity evaluation of subject pipelines, review of all operational and maintenance procedures, QRA/HAZID/HAZOP analyses of subject pipelines, and comprehensive reporting to client.

Project coordinator for the design and specification of approximately 90km of natural gas transmission and distribution pipelines near Agbara and Ota in Ogun State for Shell Nigeria Gas Ltd. Responsibilities included overall contract administration, route selection and survey, design and specification of all cathodic protection and corrosion control measures, interfacing with client's representatives, and hazardous operations (HAZOP) assessment and review.

Project manager for major pipeline integrity project for Monsanto Company's liquid chlorine pipeline near Luling, Louisiana. Due to highly dangerous properties of product, a fiber optic monitoring system was designed to transmit vital data on operational parameters to system control center. Fiber optic system also designed to provide continuous monitoring of pipeline against third-party dig in or other physical damage.

Project manager for field survey and audit of existing cathodic protection systems at Joint Operations' main gathering center in Wafra, Kuwait. Work included potential survey on all tanks, vessels and associated piping, and design of CP system upgrade to include newly constructed drains lines, knockout drums and tanks.

Project director for stray current interference testing and mitigation, resulting from Metrorail's DC traction railway system in Durban, South Africa. Mitigation system consisted of 8 forced drainage bonds to effectively redirect induced current and protect adjacent gas pipelines.

Project Director and team member for Formal Safety Assessment project of Chevron's Jack & St. Malo offshore development. Work included ship collision study, dropped object study, Quantitative Risk Assessment, smoke and gas dispersion modeling, consequence modeling and Escape, Evacuation & Rescue Analysis (EERA)

Project coordinator for Maxus Bolivia's Margarita field gas treatment plant FEED study, including automated process control systems, liquid separation, and CO2 removal. Managed team of 6 engineers, 2 CAD designers and project secretary.

Project director for annual consultancy contract with Kuwait Oil Corporation, to inspect and inventory all cathodic protection systems and facilities after the Gulf War.

Project manager for a pre-FEED study for ExxonMobil's LNG/IPP project. The proposed facilities will prepare natural gas resources for export to the Bonny River LNG plant and an integrated power plant (IPP), which would provide electrical power and heat to the LNG plant as well as export power to the Nigerian national power grid.

Sarvjit Singh,

Contract Manager and Lead Corrosion Engineer



EDUCATION

Diploma in
Electrical Engineering
(1989 – 1992)

GN Engineering College,
Ludhiana, India

PROFESSIONAL AFFILIATION

Member of the National Association of Corrosion Engineers (NACE) International

NACE CERTIFICATIONS

- Accredited CP4 Specialist #6125
- Accredited Corrosion Technologist

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PROFILE

Mr. Singh, with over 25 years of experience in Cathodic Protection (CP) systems and other electrical systems. He has managed numerous large-scale projects, prepared installation method statements for various CP installation schemes, and demonstrated expertise in corrosion engineering, planning, cathodic protection design, rehabilitation, and inspections for water, wastewater, and power infrastructure projects. His experience includes leading the design of numerous verifiable utility projects in these sectors and holding certification as a AMPP (NACE) Cathodic Protection Specialist NACE CP 4, NACE Corrosion Technologist. Mr. Singh has led numerous as-needed engineering agreements for related water utility infrastructure assessments/corrosion analysis. Additionally, Mr. Singh has over 25 years of experience in condition assessment of pipelines, tanks, and other infrastructure within the water, wastewater, and power industries. His areas of expertise encompass coating inspection projects, soil resistivity surveys, DCVG surveys, CIP surveys, pipeline current mapping (PCM), stray current mapping (SCM), and the commissioning and analysis of ICCP and sacrificial CP systems for diverse environments such as oilfields, power plants, water treatment plants, seaports, jetties, and airports.

EXPERTISE AND QUALIFICATIONS

- Project Management for Coating and Cathodic Protection Systems
- Pipeline Integrity Testing
- Coating Evaluation Surveys
- Cathodic Protection Systems
- ECDA Survey
- Testing of Electrical Grounding

PROJECT EXPERIENCE

Some of the projects on which Mr. Singh has worked as a Project Manager:

Cathodic Protection and Monitoring - Coachella Valley Water District – Coachella, CA.
Mr. Singh provided oversight on a comprehensive survey and testing to determine the condition and operational effectiveness of the District's CP and corrosion monitoring systems associated with underground water pipelines, water storage reservoirs, canal gates and irrigation sites. This work included inspection and testing of test stations to verify their condition and recommendations for remedial repairs and upgrades to their CP and corrosion monitoring systems.

PROJECT EXPERIENCE

Coating Inspection Projects – West Basin Municipal Water District, Otay Water District, Las Vegas Valley Water District and OCPW

Mr. Singh managed coating inspection and cathodic protection field testing services and prepared the cathodic protection upgrade design plans and specifications for various CP and coating inspection projects for these customers. Tesoro Carson & Wilmington Refineries CP Upgrade Project – Corrpro was contracted to assess the condition of existing cathodic protection systems at Wilmington and Carson refineries and redesign the CP system to provide upgrades to the existing system intended to protect tank bottoms, underground pipelines and interior of frail boxes. Mr. Singh worked with the design team at Corrpro to develop a cost-effective design for the cathodic protection systems at these two refineries. A final set of CP plans including specification sections, bill of materials, cost estimates were delivered to Tesoro for bidding purposes.

Ongoing Corrosion Engineering Contract – Long Beach Water Department – Long Beach, CA.

Mr. Singh managed Corrpro services to provide the City of Long Beach with corrosion engineering services, including CP system audits, field studies, soil testing, pipeline C P testing, CP feasibility testing, stray DC current investigations and design of CP systems for water pipelines and water storage tanks.

Newport Beach - Irvine Ranch Water District (IRWD) – Irvine, CA. (Three Projects)

Mr. Singh managed the design and engineering of the CP system for a network of DI and CML&C pipelines at Newport Beach. Mr. Singh oversaw the design and engineering of Galvanic CP System for water main and copper laterals for 8" dia. ductile iron pipe at the Tustin Marketplace.

Availability for this project and corporate commitment: Mr. Singh is a current Corrpro employee, who will be available upon notice to proceed and will remain assigned to the project for its duration.

Edgar Gonzalez

Project Field Engineer

EDUCATION

B.S. Mechanical Engineering,
University of Zulia, Maracaibo, Venezuela

MSC. Corrosion Engineering,
University of Zulia,TBC

PROFESSIONAL AFFILIATION

Member of National Association of Corrosion Engineers (NACE) & Project Management Institute (PMI)

PROFESSIONAL DESIGNATIONS

Accredited CP Technician NACE CP2, #46421

Accredited Coating Inspector NACE CIP 1

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PROFILE

Mr. Gonzalez has over 12 years of experience in corrosion and inspection in oil and gas industry, which includes designing impressed current and galvanic cathodic protection system for transmission pipelines, in station piping, above ground tanks & buried vessel along with commissioning and testing, besides treatment chemical and coating testing in addition to project management experience in scheduling, planning & delivering engineering & material deliverables in line with customer expectations on quality and timeliness.

EXPERTISE AND QUALIFICATIONS

- Cathodic Protection Systems Design and Testing
- Corrosion Control
- Chemical Treatment
- Project Management
- AutoCAD

PROJECT EXPERIENCE

Cathodic Protection System Commissioning - Aera Energy San Ardo, CA

Mr. Gonzalez performed, as part of a field crew, to commission seven road crossing CP system. This task consisted of field measurement of CP system, collecting needed data of pipeline and anodes by interrupting the galvanic anode system to determine the level of protection for buried pipelines

Cathodic Protection Design – Chevron – Cymric 31X, CA

Mr. Gonzalez was responsible for conducting impressed current Cathodic Protection Design of a storage tank.

Cathodic Protection System Annual Testing Survey – City of Coalinga - CA

Mr. Gonzalez performed testing on the buried pipeline's cathodic system. This task consisted of field measurement of CP system, collecting needed data of pipeline and anodes by interrupting the rectifier to determine the level of protection for buried pipelines.

Cathodic Protection Design – Chevron– Cymric 31X, CA

Mr. Gonzalez performed, as a part of field crew, to determine the condition of the Cathodic protection systems of a storage tank. This work included inspection and testing of the test stations to verify their condition and recommendations for remedial repairs and upgrades to their CP and corrosion monitoring systems.

Cathodic Protection System Annual Testing Survey - Chevron- Bakersfield, CA
Mr. Gonzalez performed testing on the buried pipeline's cathodic system. This task consisted of field measurement of CP system, collecting needed data of pipeline and anodes by interrupting the rectifier to determine the level of protection for buried pipelines.

Installation and commissioning of a system to evaluate the performance of chemical treatment systems against corrosion and pipeline scaling – PEQUIVEN – Maracaibo, Venezuela
Mr. Gonzalez contributed to this project by directly designing and verifying information prior to the installation of the system, monitoring compliance with the installation planning, and responding directly to the client during the audits of the commissioning stages, complying with the timely delivery of the system to the project leader ensuring the adequate transfer of operations and also training to perform electrochemical test.

Cathodic Protection and Monitoring – PEQUIVEN – Puerto La Cruz, Venezuela
Mr. Gonzalez performed current span and potential testing on the gas buried pipelines to determine causes of interference on adjacent pipeline cathodic protection systems.

Cathodic Protection Close Interval Survey Projects – PEQUIVEN – Puerto la Cruz- Venezuela
Mr. Gonzalez performed the close interval survey for the PEQUIVEN Gas and water Pipelines to ensure adherence to customer inspection codes and standards.

Corrosion under insulation mechanism – Phase I: water transport mechanism – DNV – Dublin – Ohio
Mr. Gonzalez worked in this project as part of the team, to contribute to stablish a better understanding of the water transport mechanism in insulation materials and its effect on corrosion under insulation (CUI). This work included lab test, statistical analysis which allowed the development and implementation of more effectives approaches for controlling corrosion under insulation in oil and gas production systems.

Cathodic Protection Above ground API-650 tanks – PDVSA – Barinas - Venezuela
Mr. Gonzalez was a member of the team responsible for developing CP design along with performing installation of CP system tank bottoms and piping at PDVSA, Borburata and Silvan Field.

Ericka Johnson

Senior Engineer



EDUCATION

B.S. Chemical Engineering,
University of California at Riverside
Riverside, CA (2015)

PROFESSIONAL AFFILIATION

Member of the National Association of Corrosion Engineers (NACE) INTERNATIONAL

PROFESSIONAL DESIGNATIONS

- EIT – Chemical (State of California)
- Accredited CP Technician NACE CP2
- Accredited NACE CP3 Technologist, #68047

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PROFILE

Ms. Johnson is a design engineer for impressed current and galvanic anode cathodic protection systems for general corrosion prevention, which includes design calculations, system design and layout, and creation of design reports, bill of materials and technical CP specifications. Her project experience includes protection of buried pipelines. Her field experience includes the following cathodic protection tests: current requirement, circulating current continuity, soil resistivity (including field Wenner four-pin methods and laboratory soil box methods), close interval survey, DC voltage gradient survey and routine system evaluations.

EXPERTISE AND QUALIFICATIONS

- Cathodic Protection Systems
- Cathodic Protection Systems
- CP Design and Testing
- Soil Corrosivity Analysis
- AutoCAD
- CP2 – Cathodic Protection Technician
- CP3 – Cathodic Protection Technologist
- NACE Pipeline Internal Corrosion

PROJECT EXPERIENCE

Ms. Johnson's experience includes the following projects:

East Hynes Biodiesel Manifest Rail Project - Tesoro – Long Beach, CA - Design Engineer (November 2016 to February 2017)
Ms. Johnson designed impressed current and galvanic anode cathodic protection systems for a series of underground metallic pipes.

Cathodic Protection System Commissioning - Depcom – Calipatria, CA - Field Technician (January 2016 through February 2016)
Ms. Johnson performed as part of a field crew to commission the Calipatria Solar Farm CP system. This task consisted of starting up and adjusting rectifier outputs and visiting test points to determine the
level of protection for buried solar panel piles.

Gilbert Road LRT Extension Project – Jacobs – Mesa, AZ – Assistant Engineer (July 2016 to January 2017)
Ms. Johnson assisted in the cathodic protection design for buried metallic utility lines in the light rail project vicinity. This included design calculations and creating CP plans in AutoCAD.

PROJECT EXPERIENCE

Crenshaw/LAX Transit Corridor Project - Walsh Shea Corridor Constructors – Los Angeles, CA – Field Technician (January 2017 to present)
Ms. Johnson performs field testing on the stray current control system for the Metro Crenshaw/LAX project. She also runs calculations to determine passing criteria and reports findings to the project engineer.

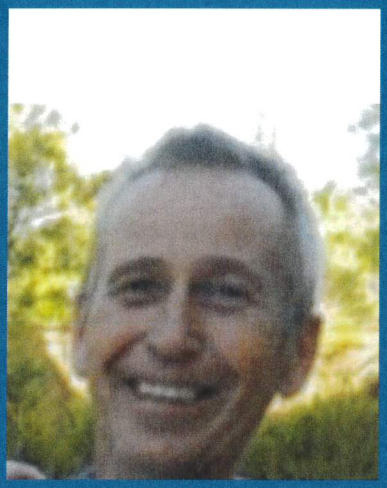
CAP Pipeline Project - Arizona American Water –Sun City, AZ
Ms. Johnson performed field testing on the existing 15 miles long ductile iron pipeline to determine the current requirements and check the status of electrical continuity in order to design an Impressed Current Cathodic Protection system for the corrosion protection of the existing pipeline.

Valley Circle Blvd Project - AR Pipelines Inc. –Thousand Oaks, CA
Ms. Johnson designed, tested and prepared commissioning report for a galvanic cathodic protection system for the protection of new CML&C piping constructed as a part of Tract 52866-01 project for LADWP.

Availability for this project and corporate commitment: Ms. Johnson is a current Corrpro employee, who will be available upon notice to proceed, and will remain assigned to the project for its duration.

Leonard E. Pederson

Senior Project Engineer



EDUCATION

Saskatchewan Technical Institute – Electronics Engineering Technology (1977-1979)

PROFESSIONAL AFFILIATION

Member of the National Association of Corrosion Engineers (NACE) INTERNATIONAL

CERTIFICATIONS

- NACE Basic Corrosion Course – November 1984
- NACE Corrosion Prevention by Cathodic Protection Course – April 1986
- Accredited NACE CP3 Technologist – February 2002

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PROFILE

Mr. Leonard Pederson is a senior field engineer with over 40 years of experience in corrosion control, cathodic protection (CP). His experience has covered a ranger of roles in office and project management, design, technical report preparation, in-field testing, maintenance and construction. Extensive experience with ICCP rectifier operation and over line pipeline surveys such as close interval, ACVG and DCVG, attenuation, electrical continuity testing, and pipe depth of cover. He has experience in condition assessment of metallic and concrete structures in plant sites, refineries, and marine terminals.

EXPERTISE AND QUALIFICATIONS

- Cathodic protection system design (GACP, ICCP)
- Cathodic protection surveys and maintenance
- Stray current testing (AC, DC)
- DC Transit Rail Track Electrical Testing
- Corrosion Assessment and Monitoring

PROJECT EXPERIENCE

Below are examples of projects on which Mr. Leonard Pederson worked in a senior role:

Embedded project manager with Marathon Pipelines/Tesoro/BP providing cathodic protection support services to the corrosion group. Responsibilities included management of the close interval survey program, technical support for cathodic protection installations, and various projects management including overseeing the installation of a new cathodic protection system for a marine terminal cellular steel bulkhead.

Project engineer involved in the design, installation, testing, and maintenance of the cathodic protection systems for numerous pipelines associated with the Interprovincial Pipeline Company. The cathodic protection systems were installed for an interprovincial transmission pipeline system and for a natural gas pipeline installed in permafrost conditions in an environmental sensitive area in northern Canada. Provided corrosion control and cathodic protection training of pipeline inspectors for the project.

Project manager and engineer involved in the cathodic protection testing, maintenance, designs, and installations for cathodic protection of approximately 200 oil and gas well casings, water injection well casings, and various pipeline gathering, production, and transmission facilities operated by Esso Resources Canada.

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PROJECT EXPERIENCE

Project engineer conducting GPS/Depth of cover survey of over 600 miles of BP Amoco pipelines routed through five states.

Project engineer involved in contractor acceptance testing of several conventional and solar powered impressed current cathodic protection systems for a large diameter steel waterline installed for the Los Angeles Department of Water and Power on the Owens Lake Dust Mitigation project.

Project engineer involved in the corrosion control track-to-earth electrical testing for contractor acceptance of portions of the Castro/Lockhead Way Light Rail Tasman Corridor project. Provided technical training of the Corrpro engineering group on technical testing procedures.

Project engineer involved in the corrosion control track electrical testing for contractor acceptance of portions of the LAMTA Redline, Blueline, and Purple Line Light Rail Transit systems.

Project engineer involved in the corrosion assessments of various Kinder Morgan, Valero, Phillips 66, and PBF marine terminal pipelines for MOTEMs compliance.

Project engineer involved in the corrosion condition assessment and coating repairs of several buried aluminized corrugated metal pipe stormwater retention structures in Buckeye, Arizona.

Project engineer providing support in corrosion condition assessments and cathodic protection systems monitoring for the Orange County Sanitation District.

Field engineer providing commissioning of cathodic protection systems for protection of steel reinforced concrete missile test silos at Vandenburg Airforce Base.

Project engineer responsible for the acceptance testing and commissioning for the cathodic protection systems and related remote monitoring equipment installed by FMQ for protection of concrete steel reinforced cylinder water system pipelines in Jubail, Kingdom of Saudi Arabia.

Project engineer supporting the County of Los Angeles Department of Beaches and Harbors for construction supervision of the cathodic protection installation and monitoring systems for the steel reinforced concrete seawall restoration project. Project manager for the commissioning of the cathodic protection and related monitoring systems.

Sanjay Javia

Senior Engineer



EDUCATION

B.S., Electrical Engineering
Saurashtra University, India

PROFESSIONAL AFFILIATION

Member of the National Association of Corrosion Engineers (NACE) INTERNATIONAL

CERTIFICATIONS

- PE Electrical, October 2021
- Project Management Inst.: PMP Certification (2020)
- NASSCO: PACP, LACP, MACP (2021)
- FE (EIT); Electrical &Computer, California Board
- NACE CP Specialist
- NACE CP Technologist
- NACE CP Technician
- NACE CIP - I
- NASSCO – PACP, LACP & MACP

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PROFILE

Mr. Javia is a full-time contract staff at OC San (Orange County Sanitation District) with more than 25 years of experience in condition assessments and repair projects of water and wastewater pipelines, concrete structures, metallic structures; Design, construction, testing, and troubleshooting of corrosion protection (CP) systems for pipelines, water treatment facilities, CP testing, and External Corrosion Direct Assessments (ECDA) surveys.

He is certified as an Engineer-In-Training (EIT) in the state of California and cathodic protection Level 2 (Technician), Level 3 (Technologist), Level 4 (Specialist) and Coating Inspector Level 1 with NACE (National Association of Corrosion Engineers) and hold a bachelor's degree in electrical engineering from Saurashtra University, India.

PROJECT EXPERTISE

Corrosion Project Manager at Orange County Sanitation District (OCSD) through Corrpro (November 2010 – June 2019 and February 2020 - Present)

Since November 2010, He was working as a corrosion project manager at OCSD Planning Division 740 and Maintenance Reliability and Planning Division 875. His key responsibilities were management of an on-call corrosion support contract, including budgetary control and time sheet and invoice validation, monitoring existing cathodic protection systems, detailed planning of corrosion assessments (process shutdowns, pumping, etc.) on OCSD's Plant 1 and 2 structures, collections systems and pump stations. Assessments often require confined-space entries using SCBA (self-contained-breathing apparatus), supplied air, or Drager re-breather systems. Assessments typically require coordination of ancillary repairs to concrete structures or T-Lock liner repairs. Following condition assessments, He prepared observation reports for submittal to OCSD management for review. Subsequently, he developed plans and specifications for repair/rehabilitation, also managing corrosion inspection data for future reference and update OCSD assessment database and summary sheet. He provided review of CCTV (closed-circuit television) data obtained during corrosion assessments of pipeline networks and civil assets. In addition, he developed detailed utility maps of piping within the complex tunnel systems at Plants 1 and 2 for use by the OCSD GIS team and for future development of asset management plans by OCSD Planning Division 740 and CAMP preventive maintenance plans by OCSD Maintenance Reliability Division 875.

PROJECT EXPERIENCE

Some major assignments were: Corrosion assessment of 120-inch outfall line, corrosion assessment of 108-inch primary effluent line, corrosion assessment and repair of Digester D, M and R, corrosion assessment of Sunflower Pipeline (assessments were performed in a live sewer flow), CCTV assessment of 66-inch, 84-inch and 120-inch Interplant Pipeline, Plant 1 Headworks 2 assessment, Plant 2 west RAS pipeline assessment and repair, 78-inch line assessment, assessment and repair of PEDB1 (Primary Effluent Distribution Box), 84-inch Interplant Pipeline assessment, Primary Clarifier D, E, F, G, H , I , J, K and L assessment, force main assessments including close-interval survey, cathodic-protection annual survey of OCSD force mains, gas lines, and other pipelines. Managed and executed collection systems Santa Ana Trunkline, College Pump Station, Slater Pump Station, A Street , 15th Street, and Rocky Point Pump Station Wet well assessment projects, aeration basins oxygen piping condition assessment and emergency repair project. Managed and executed Digesters 5,9,10,15,16, D, and K assessment and incidental repairs projects.

Senior Engineer for Corrpro, Santa Fe Springs, CA (March 2007- Present)
He joined as an Engineer–II and ascended to Senior Engineer. Major responsibilities included: collecting corrosion-related data; preparing designs; developing specifications; cost estimating; developing construction procedures; testing cathodic protection systems; troubleshooting existing CP systems; and supervising engineering technicians for dozens of petroleum and water system projects throughout the western region of the United States. Some major clients included: City of Orange; Long Beach Water Department; Las Vegas Water Department; City of Oceanside; City of Solana Beach; City of Vernon; City of Phoenix; City of San Juan Capistrano; City of Irvine Water Department; Oxy (THUMS); Southwest Gas; BP; and Kinder-Morgan.

He is familiar with the design and configuration of a variety of CP systems, as well as corrosion engineering construction methods, materials, and equipment. He acted as the ECDA Lead Field Engineer, Project Manager and Report Writer or held a combination of the above responsibilities for: Southern California Gas Pipeline Indirect Inspection Surveys and a large percentage of BP Los Angeles Integrity Management Surveys. I also conducted surveys for: Kinder-Morgan Energy Partners, Chevron; Oxy (THUMS); Southwest Gas; and ConocoPhillips.

Corrosion Protection Manager for Corrtech International Pvt. Ltd., India (November 1998 – October 2006)
He joined as a construction Field Engineer, working up to the position of Project Manager. In these positions, He managed dozens of petroleum and water systems projects throughout India and other overseas sites. Some of major clients included: Gas Authority of India (GAIL); Reliance Refinery; Gujarat State Petroleum Ltd. (GSPL); Essar Refinery; Petronet MHB Ltd.; MGL (Mahanagar Gas Ltd.); BPCL (Bharat Petroleum Corporation Ltd); HPCL (Hindustan Petroleum Corporation Ltd.); IOCL (Indian Oil Corporation Ltd.); Petronet VK Ltd.; and ONGC (Oil and Natural Gas Corporation).

Additional Training and Certifications:

- LifeCom, Huntington Beach, CA: Certified for confined-space entry since 2010.
- LifeCom, Huntington Beach, CA: Certified for working under supplied air with half -mask and full-face since 2010.
- Ameron, Brea, CA: April 2011, trained on Ameron T-Lock and ArrowLock inspection.
- Drager: Certified on BG 4 since August 2011. This is training support for assessment under supplied air.
- NASSCO: March 2012, Certified for PACP, certification support for reviewing pipelines and manholes CCTV data.
- PICA USA: November 2012, Trained on PICA (Pipeline Inspection and Condition Analysis) technology for condition assessment of force mains.
- GMC Electric Inc., Ontario, CA: March 2013, trained on BAC Pin brazing equipment, a system for corrosion protection pipe-to-cable connections.
- Radiodetection: April 2013, Trained on PCM Plus locater for underground pipe locating.

Elena Van Roger, Engineer II



EDUCATION

M.P.S. in Geographic Information Sciences, University of Maryland (2014)

NACE Certified Cathodic Protection Technician #59223

B.S. Environmental Science, University of Maryland (2011)

PROFESSIONAL AFFILIATIONS

Member of National Association of Corrosion Engineers (NACE)

Accredited CP Technician NACE CP2

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PROFILE

Ms. Elena van Roggen is a spatial data analyst and geographic information system specialist with a background in cathodic protection (CP) design for general corrosion prevention systems. She manages spatial data from project start to finish, including creating customer-specific spatial databases, spatial data analysis, quality assurance, and maintenance, and general map production. Using ESRI's Model Builder and Python, she develops custom geoprocessing tools to improve workflow efficiency for daily quality assurance and general processing tasks required in her current projects.

Ms. van Roggen has experience using a variety of GIS platforms, including ArcGIS Desktop, QGIS, and Google Earth applications. Her strengths include collecting, analyzing, maintaining, and visually representing large geographic datasets for client use. Her current project experience includes spatial data management for the protection systems of buried pipelines.

EXPERTISE AND QUALIFICATIONS

- Spatial Data & Database Management
- Spatial Statistics & Analysis
- Geoprocessing Tool Development
- Data Collection Facilitation
- General Map Production
- ArcGIS Desktop Suite, Google Earth
- QGIS & GRASS
- ArcPad, Terrasync, Pathfinder Office
- Familiar with Python, HTML5, ENVI
- MS Excel macro development

PROJECT EXPERIENCE

Ms. van Roggen's current experience includes the following projects:

Pipeline Potential Surveys – Various Customers – Houston, TX – Spatial Data Analyst (January 2017 to present) Ms. van Roggen has developed the geoprocessing tools, excel macros, and the workflow process for the alignment of various surveys performed on a single pipeline span. This method provides a single output containing multiple surveys performed throughout the history of the pipeline's monitoring, which allows for better analysis of the changes in the pipeline over time. To improve efficiency for processing time and for spatial accuracy, she has developed custom geoprocessing tools for use within ArcMap utilizing Model Builder and Python.

Pipeline Potential Surveys – Various Customers – Houston, TX – CorrVision Processor (January 2017 to present) Ms. Van Roggen has generated CorrVision sheets, a graphical representation of survey data, for a variety of customer and projects. CorrVision deliverables include a map showing the pipeline span covered in the sheet, as well as graphs showing various data types collected

during the survey (i.e. depth of cover, On and OFF potentials, DCVG anomalies, ACCA readings, etc). These deliverables are created using a software embedded within ArcGIS.

Area of Influence Analysis – Energy Transfer – Branford, FL – Spatial Data Analyst (October 2018) Ms. van Roggen created heat maps through spatial data analysis and statistics to provide visual representations of rectifier coverage areas within a facility. Using Inverse Distance Weighted interpolation through QGIS, along with general raster processing functions through GRASS, the pipe-to-soil potential readings for each rectifier were used to create a heat map to estimate the range of coverage a single rectifier.

TAYWOOD ENGINEERING: - 1983

Das Island LNG Plant. Evaluation of the deterioration of many reinforced concrete foundations in operating LNG plant in the Middle East. Site sampling, laboratory analysis and evaluations.

Elf Norway. Offshore Supervisor and Company representative to the Client for the statutory subsea inspection of steel and concrete structures in the Frigg, N E Frigg and Heimdal Fields, UK and Norwegian Continental shelves. 1984 to 1989.

National Nuclear Co, UK. Site Supervisor and Company representative to the NNC during the annual inspection of pre-stressing cables in the Advanced Gas Cooled Reactor concrete pressure vessels. This included destressing, re-stressing, removal and testing of high integrity wires.

SPENCER AND PARTNERS: - 1990

UK Ministry of Defence. Evaluation, testing and production of final report, for the durability of high integrity lifting wires on the Trident Missile submarine ship-lift facility at Faslane Submarine Base, UK. Particularly in terms of exposure to local cathodic protection systems. Working with Prof Redvers Parkins (Newcastle University) included laboratory testing for H+ embrittlement and evaluation of all site issues. Project included presentation to the MOD Working Group.

GMMR/DAC. Specialist corrosion consultants for all aspects of Phase 2 and Utilization of the Great Man-Made River Project, Libya. Working for the Contractor (DAC - Dong Ah Consortium) Dealing with coatings, cathodic protection and material selection for all elements of the 4.2m diameter PCCP main water pipeline, in-field DI piping and downhole tubing/pumps. Project included the production of all technical documentation, field testing and laboratory evaluation as required.

ADNOC CRP II Project. Site evaluation and production of all specifications, BOQs and tender documents for the ADNOC CRP II Project. This was the site evaluation of approximately 7,000 reinforced concrete foundation elements within three operating oil refineries.

BROWN AND ROOT: - 1993 Great Man-Made River Project. Principal Corrosion Engineer - Working for the Owner. Responsible for dealing with all aspects of durability and integrity of all structures and items of plant and machinery within Phase II and Utilization of the GMMR Project. This included the engineering review and approval of procedures and specifications for valves, pumps, coating specifications, durability monitoring and all elements of Civil, Building and M&E works.

WAHA OIL CO, LIBYA - 1996

Principal Corrosion Engineer with Waha Oil Co. (Formerly Oasis Oil Company of Delaware) working on a rotational basis in Libya. Based at the company's headquarters in Tripoli, dealing on a day-to-day basis with oil and gas production related corrosion problems for both ongoing systems and new projects.

CORRPRO COMPANIES MIDDLE EAST LLC. - 1998

Technical Manager for Middle East Region, based permanently in the United Arab Emirates – Responsible for the following: All new proposals, conceptual designs for all major proposals for cathodic protection, corrosion monitoring and materials selection. Operation of major engineering projects and technical support for major projects. Engineering design review and approval for all engineering documents.

REQUEST FOR QUALIFICATIONS FOR

AS-NEEDED CORROSION ENGINEERING AND CATHODIC PROTECTION CONSULTING SERVICS

PREPARED FOR:

SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
AZUSA | SIERRA MADRE | MONTEREY PARK | ALHAMBRA

SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
1402 N. VOSBURG DRIVE
AZUSA, CA 91702

PREPARED BY:

UNIVERSAL CORROSION SERVICES, LLC

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RANCHO CUCAMONGA, CA 91730

SGWD-Q24-0701

July 25, 2024

July 25, 2024

Darin Kasamoto
General Manager

Steve Kiggins
Assistant General Manager

San Gabriel Valley Municipal Water District
1402 N. Vosburg Drive
Azusa, CA 91702

Re: Request for Qualifications to Provide As-Needed Corrosion Engineering and Cathodic Protection Consulting Services

Thank you for the opportunity to submit the following Statement of Qualifications (SOQ) to provide As-Needed Corrosion Engineering and Cathodic Protection (CP) Consulting Services for San Gabriel Valley Municipal Water District (SGVMWD or District). This SOQ was prepared based on review and receipt of the following items:

- Request for Qualifications to Provide As-Needed Corrosion Engineering and CP Consulting Services Received July 2, 2024
- Questions and Answers Posted July 16, 2024

Universal Corrosion Services, LLC (Ucorr) is confident that it will offer the District the highest quality of professional engineering services related to the scope of services provided in this RFQ. The following SOQ sections and appendices are enclosed in this comprehensive qualifications package to fulfill the requirements of the RFQ

1) **Executive Summary**
2) **Company Information**
3) **Project Approach**
4) **Project Organization and Key Personnel**
5) **Quality Assurance/Quality Control (QA/QC) Program**
6) **Experience & References**
7) **Rate Schedule**

Appendix A: Key Personnel Resumes
Appendix B: Quality Control/Quality Assurance Plan
Appendix C: Detailed Project Experience & References

We have reviewed the provided sample Agreement for Professional Services, can meet the requirements of the agreement, and are willing to enter into an agreement with the District.

The project will be managed from Ucorr's headquarters located in Rancho Cucamonga, CA. All contact information for this office location can be found below.

The undersigned will act as the authorized point-of-contact to negotiate, represent, and contractually bind if Ucorr is selected as a consultant by the District.

Sincerely,

Ian Budner
President/Point-of-Contact

Universal Corrosion Services, LLC (DBA: Ucorr)
10572 Acacia Street, Suite C4
Rancho Cucamonga, CA 91730
Mobile: 909-257-6301
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APPENDICES

APPENDIX A: KEY PERSONNEL RESUMES A1

APPENDIX B: UCORR QUALITY CONTROL/QUALITY ASSURANCE PLAN B1

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES C1

EXECUTIVE SUMMARY

Universal Corrosion Services, LLC was established in 2014 with the goal of bringing innovative solutions for engineering services and products into the corrosion industry. We operate strictly within our code of conduct holding safety and client satisfaction paramount. Within the past ten years, we have completed all of our projects with the highest level of integrity and zero safety incidents. We have also been successful expanding our research and development department, including completion of several projects from inception to manufacturing.

All key personnel have been involved in several teaming experiences in projects similar to this RFQ through Ucorr and through previous employments. The technical background and qualifications of our project team are explained in detail in this section as well as the "Experience" and "Project Organization & Key Personnel" sections of this SOQ.

We always approach new projects with the attitude that there are more environmentally friendly, more efficient, and more economical ways to complete each task than the existing methods that have been utilized in the industry for many years. **The evidence of our approach is our research & development patented achievements:**

- **Multipurpose Segmented Titanium MMO Coated Impressed Current Anodes, 2010 (US Patent #8821698)**
- **Multipurpose Segmented Sacrificial Anodes, 2010 (US Patent #8828195)**
- **Embedded AC Mitigation System, 2015 (US Patent #9774105)**
- **Automated Tank Cathodic Protection Monitoring System, 2015 (US Patent #10018864)**
- **High Efficiency Cast Iron Anode, 2020 (US Patent #10577697, Canada Patent No. 2,978,246)**
- **Marine Utility Cast Iron Anode, 2019 (US Patent #10428430, Europe Patent No. 17849412.6, China Patent No. 2017800546012)**
- **Modified Rectangular Wave Polarization Control System, 2022 (US Patent Publication #20220397459)**

We always utilize innovative methods in our activities to ensure we make the best use of our resources, have less impact on the environment, and minimize safety concerns for our community.

Ucorr's team has vast experience and expertise related to the following services:

- Cathodic protection/corrosion monitoring system evaluations.
- Construction/construction support and project management.
- Corrosion/cathodic protection engineering/design services.
- Corrosivity studies in various mediums/environments.
- Internal corrosion assessment and mitigation.
- Laboratory services related to corrosion and corrosivity.
- Material selection including metallic materials and protective coatings.
- Metallurgical, failure, and integrity analysis.
- Specialized corrosion/cathodic protection system surveys.
- AC/DC interference analysis and mitigation.

Additional information regarding our provided services can be found on our website at https://www.ucorr.net/services.

We have provided the above services for various types of aboveground and underground reservoirs, steel, ductile iron, mortar-coated steel, and prestressed concrete cylinder pipelines, and offshore structures in the water, wastewater, and oil & gas industries.

Ucorr's senior personnel have vast experience in engineering consulting/management of small, mid-size, and large corrosion/civil engineering projects in the water, wastewater, and oil & gas industries for the private sector as well as public entities including cities, utility agencies, and water districts/municipalities.

A detailed description of all key personnel including qualifications, experience, licenses/certifications, and project can be found in the "Project Organization & Key Personnel" section of this SOQ. Detailed resumes are also enclosed in Appendix A.

Ucorr possesses Class A – General Engineering and C10 – Electrical contractors' classifications under License No. 1024943 to perform any construction/installation work related to corrosion monitoring and CP systems through its sister company, Ucorr Innovative Solutions, Inc., which is overseen by the same partnership/management.

Additionally, Ucorr possesses all required insurance policies that meet and/or exceed the overage requirements to perform any type of work related to professional engineering services including, but not limited to, corrosion monitoring/control and cathodic protection systems surveying, testing, maintenance, design, and repairs/installation.

Our firm is registered with several compliance/safety management agencies including Veriforce and ISNetworld and our personnel are all qualified to perform all necessary field tasks through drug/alcohol testing, background checks, and operator qualification training/programs.

Ucorr is also registered with the California Department of Industrial Relations (DIR) and as a certified small business with the State of California. All related certification and vendor numbers are listed below as evidence of certifications. Proofs of certification will be provided upon request.

1. DIR Registration No. 1000022288
2. California Department of General Services (DGS) Small Business (micro) Enterprise (Certification #1796394)
3. U.S. Small Business Administration (SBA) Small Business Concern (SBC) (SBC Control ID #SBC_00710829)

Ucorr was successful in executing service/consulting contracts with numerous water districts, cities, municipalities, utility agencies, and oil & gas operators for CP and corrosion engineering services, which some of them are listed below:

- City of San Clemente
- City of Santa Monica (Kiewit)
- Cucamonga Valley Water District
- Eastern Municipal Water District
- Laguna Beach County Water District
- Long Beach Water Department/Utilities
- World Energy
- Coachella Valley Water District (EXARO Technologies, Inc.)
- City of Eureka (GHD, Inc.)
- Marathon Pipe Line LLC
- Irvine Ranch Water District (E.J. Meyer Company)
- San Diego County Water Authority (Kiewit)
- Sempra Utilities – Southern California Gas Company and San Diego Gas & Electric.
- California Resources Corporation
- City of Burbank (TerranearPMC)
- Air Products
- Olympus Terminals

Following is a breakdown of pertinent staff and company licensing/certifications related to the scope of work. A detailed breakdown of all staff/company licensing, qualifications, certifications, education, etc. can be found in the resumes enclosed in Appendix A of this SOQ.

- Professional Engineering License (Civil) – California (Siamak Azimie)
- Professional Engineering License (Metallurgical) – Alberta, Canada (Omidreza Moghbeli)
- NACE/AMPP Cathodic Protection Technologist (Omidreza Moghbeli)
- NACE/AMPP Cathodic Protection Technician (Ian Budner & Carlos Pacheco)
- NACE/AMPP Cathodic Protection Tester (Sebastian Borucki)
- NACE/AMPP Coatings Inspection Level 1 (Sebastian Borucki)
- Operator Qualifications through OQSG & Veriforce (all field staff)
- OSHA 10-hour Safety Training (all staff)

- **Company Name/Responder**: Universal Corrosion Services, LLC (DBA: Ucorr)
- **Legal Name**: Universal Corrosion Services, LLC
- **Year Established**: 2014
- **Address**: 10572 Acacia Street, Suite C4, Rancho Cucamonga, CA 91730 (San Bernardino County)
- **Legal Form of Company**: Limited Liability Company (LLC)
- **Number of Employees**: Nine (San Bernardino County)
- **Parent Company**: N/A
- **Sister/Affiliate Company**: Ucorr Innovative Solutions, Inc. (same leadership/address)
- **DUNS Number**: 060018549
- **Department of Industrial Relations (DIR) Registration Number**: 1000022288
- **California Contractors License Number**: 1024943
- **Point-of-Contact**
    - **Name**: Ian Budner
    - **Title**: President, Point-of-Contact, Project Manager
    - **Address**: 10572 Acacia Street, Suite C4, Rancho Cucamonga, CA 91730 (San Bernardino County)
    - **Telephone Number**: 909-493-1350
    - **Email Address**: ian.budner@ucorr.net

Ucorr owns all required vehicles and equipment necessary to perform all requested services in this RFQ.

Ucorr understands the District is requesting corrosion engineering services including, but not limited to, the following Scope of Work:

- Engineering Studies
- Plans and Specifications
- Field Services
    - Material inspections
    - Cathodic protection appurtenances and coatings inspections
    - Condition assessments
    - Soil testing
    - Cathodic protection monitoring
- Corrosion Surveys
- Corrosion Monitoring
- Design Analysis
- Engineering Level Recommendations
- Cost Estimates

Ucorr will firmly adhere to the following initiatives to improve quality in all aspects of any project:

- All equipment will be calibrated in accordance with the manufacturer's standards by professional/accredited companies.
- All project personnel are technically certified through NACE/AMPP and/or Operator Qualification programs.
- Staff meetings and client meetings will be held as necessary to discuss the possible difficulties and improve the quality of all deliverables and weekly/monthly reports.

Ucorr completely believes in the principals of sustainable development and is fully committed to design, maintain, and construct sustainable services within the range of our activities.

Following, is our general approach for any tasks related to the above-mentioned scope of work in accordance with the subject RFQ.

Project Assessment & Scheduling

a) Review all available historical information for all facilities included in, and to be included in the corrosion control program including previous CP system designs, specifications, and historical data/reports.
b) Complete a preliminary job walk and perform field investigations of the subject pipelines, flow metering facilities, flow control structures, pressure reducing stations, power plant, isolation valve structures, and any other District facilities to identify any potential safety/access issues, become familiarized with all facilities, and verify the existing record drawings.
c) Based on review of all available historical information and the preliminary job walk, Ucorr will prepare a comprehensive database and CP system facility maps.
d) Prepare a detailed project schedule for assigned project tasks utilizing Microsoft Project. The detailed schedule shall include accurate time required for each task and dependency to any preceding tasks and subtasks. The detailed schedule will be submitted to SGVMWD for approval within two weeks of receiving the Notice-to-Proceed. The project schedule will be updated and resubmitted monthly reflecting all project progress.
e) Hold a kickoff meeting with SGVMWD personnel to discuss the project safety concerns, project schedule, and field survey objectives and logistics.

Note: Project status updates including project progress/accomplishments, budgetary summary of each project task, significant issues/concerns, outstanding action items, and planned activities for the upcoming month will be prepared and submitted on monthly with each monthly invoice.

Field Testing and Inspection

a) Perform the corrosion protection/cathodic protection system testing and inspection. Ucorr's approach to typical testing/inspection aspect of this project are described in detail below.
b) Perform necessary adjustments to CP system facilities based on analysis of initial CP survey data.
c) Re-survey all CP system facilities to measure the effectiveness of the adjustments made. Additional adjustments/survey work can be performed if inadequate results are observed.
d) Update the prepared database and maps by tabulating and analyzing all collected field data and GPS data.

During each task, the progress and quality of completed work will be checked daily by the project manager, project engineers, and QA/QC coordinator to ensure that Ucorr is meeting all project milestones for each task within the allotted time and budget. The quality of field data and accuracy of design work will be also checked daily by the appropriate personnel and shall be approved by the project manager, QA/QC coordinator, and project engineers. If any collected data looks faulty due to improper equipment calibration or any other possible errors, Ucorr will redo/correct the task at its own expense.

All field crew members are qualified through operator qualification (OQ) programs including Veriforce, NACE, Operator Qualification Solutions Group (OQSG), and National Center for Construction Education and Research (NCCER) to perform the corrosion protection/cathodic protection related tasks with the safest and highest quality possible in accordance with the existing applicable standards.

Ucorr values safety above all other aspects of any project. We have implemented necessary safety programs and our crews have completed all required safety trainings to work in hazardous environments and respond to abnormal operating conditions. Ucorr has also implemented a drug and alcohol/background check monitoring program with ASAP/OSCA and DISA to ensure that our personnel abide by the requirements of the Code of Federal Regulations to work in hazardous environments. The project team will hold weekly safety meetings to discuss all potential safety issues/hazards of the project and develop safeguards to minimize the chance of incidents occurring.

Following is a detailed description of typical, anticipated testing procedures, industry standards, and utilized equipment for typical field survey, inspection, assessment, monitoring, and testing tasks related to the scope of work provided in this RFQ.

The most prioritized/anticipated approaches/test procedures for testing/inspection/survey items are explained in detail in the following sections. All required tasks will be completed in accordance with the latest industry standards, as required.

RECTIFIER TESTING

- *APPLICABLE INDUSTRY STANDARDS/TEST METHODS: NACE SP0169, NACE CP 3 MANUAL – SECTION 5*

TECHNICAL APPROACH & TECHNOLOGY

Ucorr can perform rectifier inspection, measurements, adjustments, troubleshooting, and maintenance, to confirm proper operation of SGVWMD's rectifiers.

Rectifiers are one of the main components in an ICCP system. Operational issues surrounding rectifiers can lead to numerous CP systems issues including a decline in the driving voltage resulting in a decrease in current and structure polarization. Ucorr will inspect all rectifiers per industry standards/regulations as they are vulnerable and vital component of a CP system. Ucorr will inspect the rectifiers for any sign of arcing, strange odor, loose connections, leaks, failed circuit breaker, lightning arrester, and other parts as well. Field personnel will also ensure all inspections are performed with the highest safety standards to ensure no damage is caused to the rectifiers and no harm is caused to the inspector. All required permitting, qualifications/certifications, operator qualification training, lock-out/tag-out, and any other safety requirements will be met prior to performing any inspections.

During each inspection, rectifier DC amps & voltage measurements will be collected utilizing a calibrated Fluke Digital Multimeter. In many cases, internal voltmeters and amp/voltage displays are not functioning properly and cannot be relied on for accurate rectifier outputs. For this reason, Ucorr always ensures that it measures the DC current and voltage outputs through the rectifier output terminals and shunts and compares them against the display meters installed on the rectifiers. By collecting both sets of current/voltage outputs, the proper DC current/voltage outputs and can be determined and diagnosis of any issues with the embedded meters can be performed.

POTENTIAL (VOLTAGE) MEASUREMENTS FOR TEST STATIONS AND OTHER FACILITIES

- *APPLICABLE INDUSTRY STANDARDS/TEST METHODS: NACE SP0169, NACE TM0497, CP 2 MANUAL – SECTION 6, RELATED ANSI/AWWA STANDARDS SUCH AS D104-11 AND D106-10*

TECHNICAL APPROACH & TECHNOLOGY

Structure-to-Electrolyte Voltage Measurements AC & DC

All AC & DC structure-to-electrolyte voltage measurements will be collected at all test stations, casings, risers, etc. utilizing a calibrated Fluke (Digital Multimeter) or CorrReader GPS Synchronized Test Station Reader with respect to a Saturated Copper/Copper Sulfate (CSE) reference electrode.

One major benefit of the CorrReader is that it will equipped with a GPS receiver. This enables Ucorr to electronically log AC/DC voltage measurements, GPS data, and general comments simultaneously increasing the speed and quality of the data collection. Additionally, the CorrReader generates Excel spreadsheets of all stored information, which increases the speed, quality, and accuracy of the data analysis/tabulation and provides increased efficiency for translating all data into to SGVMWD's database.

Voltage Profile Measurements for Reservoirs

Ucorr will perform a reservoir potential survey including voltage profiles per depth utilizing a CorrReader with respect to the appropriate reference electrode.

Interrupted Voltage Measurements

If baseline potential data is available for SGVMWD's subject facilities (test stations, reservoirs, etc.) interrupted potential surveys can be performed to determine if the facilities are properly protected with respect to the NACE 100 mV polarization shift criterion and/or the NACE -850 mV polarization criterion. In these conditions, Ucorr utilizes Cath-Tech GPS Synchronized Current Interrupters and/or Kristron Systems GPS Synchronized Current Interrupters to obtain IR-free potential readings of buried/submerged structures. Synchronized interrupters utilize electronic switches instead of relays which decreases the possibility of false readings exactly at the time of the "instant-off" reading. All utilized interrupters come equipped with GPS receivers and can be instantaneously synced with each other through satellite feeds received through the GPS receivers. Current interruption is utilized to obtain "On" and "Instant-Off" (IR free) readings. IR free readings are devoid of voltage drop and represent the true polarized potentials of the structure which are necessary to determine the level of protection as described in the latest industry Standards and Test Methods.

Interrupted voltage measurements are collected utilizing a CorrReader GPS Synchronized Test Station Reader/Data Logger. The interruption pattern of the CorrReader can be set to match that of the current interrupters to accurately measure "On" and "Instant-Off" potential measurements. GPS data is logged at each potential measurement location as well. Figure 1 displays GPS Synchronized Current Interrupters as well as a CorrReader Test Station Reader.

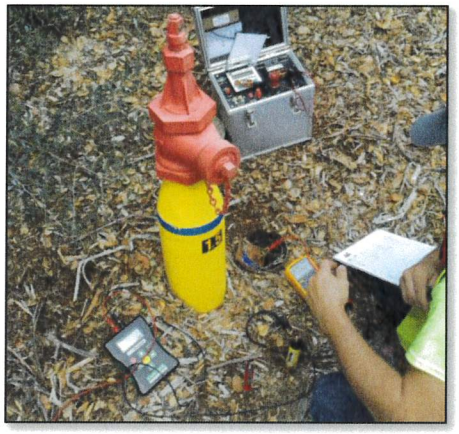


Figure 1 - GPS Synchronized Current Interrupter and CorrReader

CURRENT MEASUREMENTS

- *APPLICABLE INDUSTRY STANDARDS/TEST METHODS: NACE SP0169, NACE CP 3 MANUAL – SECTION 5*

TECHNICAL APPROACH & TECHNOLOGY

Anode Current Output Testing

Both direct and indirect methods for measuring anode current outputs are utilized. Ucorr collects direct anode current outputs utilizing shunts installed within the anode circuit and measuring the voltage drop across the shunt of known resistance. With this information, anode current outputs can accurately be calculated. A calibrated Fluke Digital Multimeter is utilized for measuring shunt voltages to calculate anode current output. Ucorr also utilizes a General Technologies CM100 AC/DC Clamp Meter for indirect current measurements when shunts are not available or when shunts cannot be installed into the anode circuits, such as in the case of direct-connect anodes. Figure 2 displays a typical anode current output being collected via the direct method (left) and indirect method (right).



Figure 2 - Direct Anode Current Measurement (left) and Indirect Anode Current Measurement (right)

Swain Inductive Ammeter Precision DC Current Testing

Inductive Ammeter DC Current testing is useful for precisely measuring DC current magnitude and flow direction at any location on large-diameter conductors (pipelines). Figure 3 displays the Swain Inductive Ammeter utilized for DC current testing.



Figure 3 - Swain Inductive Ammeter Current Measurement System

The Swain inductive ammeter is portable and can be utilized at any location along exposed pipelines or other facilities. Test leads, risers, or any other electrical access is not required to collect DC current data utilizing the Swain technology. It can accurately and efficiently pinpoint DC stray current pickup/discharge locations as well as measure the magnitude of CP current at any location on a protected structure. Another benefit of inductive ammeter testing is that it can measure current magnitude/direction on pipelines as small as ¾" and as large as 100" in diameter. Additionally, inductive ammeter testing utilizing the Swain meter can be performed to determine the effectiveness of isolation device on small to large diameter pipelines. Swain inductive ammeters can also be utilized to perform precision resistance measurements by circulating current.

ELECTRICAL CONTINUITY TESTING (TROUBLESHOOTING)

- *APPLICABLE INDUSTRY STANDARDS/TEST METHODS: NACE TM0497, CATHODIC PROTECTION FOR PIPELINES (PEABODY)*

TECHNICAL APPROACH & TECHNOLOGY

Current Interruption Method

If electrical discontinuities are discovered, Ucorr can utilize the current interruption method to locate electrical discontinuities. The Current Interruption Method can be utilized to quickly and effectively confirm the electrical continuity of the subject structures. This method is conducted by applying an interrupted current with a known "On"/"Off" cycle time to the subject pipeline. Voltage measurements are then collected along the subject pipeline at available test stations or other test points to confirm the same "On"/"Off" time signature. If the same time signature is observed by means of voltage measurements, it can be concluded the span of pipeline/structure between the current injection point and measurement location are electrically continuous. It should be noted that this method cannot precisely locate electrical discontinuities, but can quickly and accurately locate electrically continuous/discontinuous spans. Additional testing, for example by the Circulating Current Method, is required for precise electrical discontinuity locating.

Pipeline Current Mapping Method

The pipeline current mapping method can be performed utilizing a Vivax Metrotech vLocDM2 Pipeline Defect Mapper to possibly pinpoint electrical discontinuities. Figure 4 displays the Defect Mapper System utilized by Ucorr.



Figure 4 - Vivax Metrotech vLocDM2 Current Mapper

ISOLATION DEVICE TESTING

- *APPLICABLE INDUSTRY STANDARDS/TEST METHODS: NACE SP0286*

TECHNICAL APPROACH & TECHNOLOGY

Voltage Measurements

NACE Standard SP0286 describes the need for electrical isolation, methods of electrical isolation, comparison of devices available for pipeline isolation, and equipment specification and installation, as well as field testing and maintenance. One common method utilized by Ucorr for assessing the effectiveness of an above-ground or buried electrical insulating device is by measuring pipe-to-soil potentials on each side of the insulating device or by measuring the IR drop across the insulator. If a significant potential difference is seen across the insulator, it can be considered functional. In some cases, it is not apparent if the insulating device is functioning properly based simply on potential differences. The functionality of an insulating device can also be determined by interrupting the CP current on one side of the insulator and measuring the "on" and "instant-off" potentials on both sides of the device. If CP is not installed on either side of the device, Ucorr can inject an interrupted DC voltage onto one side of the device and measured "on" and "instant-off" potentials on each side of the insulator. If potential shifts are only seen on the interrupted side of the insulator or if the magnitude of the potential measurements or potential shifts on each side of the insulator are significantly different, it can be deemed to be functioning properly.

High Frequency Method

Ucorr utilizes MC Miller Gas Electronics Model 601 Insulation Checker to test above ground pipeline insulators very quickly and accurately. This device employs a radio frequency to determine if there are electrical shorts. One major benefit of this technology is that Ucorr can distinguish between a short within an insulating device or a short caused by interconnected piping. Additionally, it can be determined if a bolt is causing an electrical short or if there is a short through the flange/gasket interface. By being able to precisely indicate the cause of the short, Ucorr can save SGVMWD time and money when performing repairs on insulating devices. Figure 5 displays the Gas Electronics Model 601 Insulation Checker.



Figure 5 - Model 601 Insulation Checker

ALTERNATING CURRENT/DIRECT STRAY CURRENT (INTERFERENCE) TESTING

➢ *APPLICABLE INDUSTRY STANDARDS/TEST METHODS: NACE SP0177, CP 3 MANUAL – SECTION 3*

TECHNICAL APPROACH/PLAN & TECHNOLOGY

AC Interference Testing

All possible AC interference scenarios will be evaluated and tested using appropriate NACE/AMPP approved potential measurement methods by Ucorr's trained personnel. AC potential measurements will be measured at all test stations, risers, casings, etc. concurrently with DC potentials utilizing a CorrReader Test Station Reader to identify possible AC interference issues.

DC Interference Testing

Static DC interference is often caused by neighboring foreign cathodic protection systems. A thorough review of all collected DC potential data in the vicinity of known foreign CP system facilities will be conducted to identify potential DC interference sources and locations. If DC interference sources are identified, a Hioki LR5042/5043 or Mobiltex uDL2 potential data logger can be utilized, which logs DC potential changes over time to study/monitor DC static interference. This will only be completed at SGVMWD's request during future phases of the project. Figure 6 displays the Hioki data loggers utilized by Ucorr.

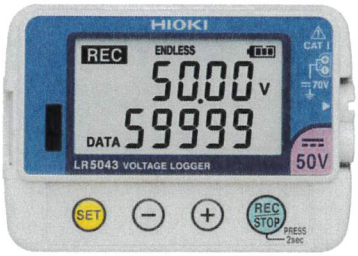


Figure 6 - Hioki Potential Data Logger

Interference studies can also be conducted in conjunction with neighboring foreign CP system owners to determine the exact sources of interfering current, interfering current pickup and discharge locations, and the measures that need to be taken to mitigate static interferences issues. Pipeline current mapping utilizing the Metrotech vLocDM2 defect mapper system will also be utilized to locate current pickup and discharge locations.

In order to evaluate and test dynamic interference produced by AC/DC transit systems or other high voltage DC systems (e.g. welding equipment or high voltage DC transmission systems) that are variable in loading nature, structure-to-soil AC/DC potential measurements are collected/recorded in affected crossings versus time utilizing data loggers based on NACE practices.

SOIL/MATERIAL TESTING & POSITIVE MATERIAL IDENTIFICATION

➢ *APPLICABLE INDUSTRY STANDARDS/TEST METHODS: ALL RELATED ASTM STANDARDS*

The following equipment is utilized in-house to provide material/coating testing, inspection, and evaluations:

- Bruker X-Ray Fluorescence (XRF) technology complete with environmental, metallic material testing, and soils/contaminants databases.
- Dakota Ultrasonic Thickness (UT)/Coating Thickness double echo gage.
- Timegroup Eddy Current coating thickness gage.
- Seikowave 3D structured light corrosion analysis suite equipped with ASME B31G/RSTRENG remaining strength assessment software

- Nilsson/AEMC soil resistivity meters for field resistivity measurements or laboratory resistivity measurements utilizing soil boxes.

Figure 7 displays various material, soil, and coating testing/assessment equipment/technologies utilized including the Bruker XRF for positive material identification (left), Nilsson/AEMC soil resistance meter for soil resistivity measurements (center), and the Dakota Ultrasonics UT/coating thickness gage for wall thickness/coating thickness assessment (right).



Figure 7 – Typical Equipment/Technologies Utilized for Material, Soil, and Coating Assessment & Inspection

GPS COORDINATES AND PHOTO-DOCUMENTATION

All equipment being utilized for test station measurements, rectifier measurements, etc. is equipped with GPS capabilities. All data collected will be tied with a time/date-stamp and latitude/longitude GPS coordinate (within a 3-foot accuracy) utilizing the NAD83 coordinate system. All horizontal and vertical GPS data coordinates shall be submitted in accordance with the requirements outlined in the RFQ. A detailed description of the equipment being utilized can be found above. Additionally, Ucorr will document all tested CP facilities and structures with geo-tagged photos demonstrating the as-found and as-left conditions of the facilities.

Engineering Level Recommendations & Cost Estimates

- Prepare a diagnostic report including:
  - Description of all field testing and inspection procedures utilized.
  - Tabulation and analysis of all field-testing data.
  - Introduction and description of each pipeline and facility tested and the type of CP system or corrosion monitoring system associated with each.
  - Summary of all adjustments made during the initial testing and re-testing.
  - A complete analysis/explanation of all data and findings
  - Photos and inspection details for all CP system facilities, reservoirs, anodes, etc.
  - Tabular summary of all damaged or missing test stations.
  - Test station data sheets showing all test stations identified by pipeline and test station number and site/detailed photos. Test station data sheets will also include GPS coordinates and comments specific to each site.
  - Evaluation and assessment of operational condition of each pipeline CP system based upon the new and existing data, including the identification of any potential problem areas/locations where possible DC stray current interference sources exist with location(s) identified.

  - Conclusions regarding the as-found and as-left conditions of all tested facilities, operational status of the test stations and corrosion control systems of each facility, and locations where adequate levels of cathodic protection are not being achieved.
  - Calculation of remaining sacrificial anode life expectancy, if possible.
  - Prioritized recommendations for cathodic protection system or corrosion monitoring system repairs, replacements, and/or upgrades.
  - Preparation of cost estimates in accordance with the prioritized recommendations.
  - Recommended future cathodic protection system and corrosion monitoring system operation and maintenance procedures and frequency.
  - Recommendations for work action items, including system operation and maintenance procedures.
- Prepare a detailed design package and analysis for identified repairs including details and specifications. Submit the preliminary report and design package to SGVMWD for review.
- Hold a meeting with SGVMWD personnel to review the diagnostic report/design package, answer questions, and receive comments. Incorporate SGVMWD's review comments into the final report and design package.
- Prepare a prioritized cost estimate for recommended repairs, replacements, and improvements.

Note: Deliverables will include a Final Report including all information detailed above, design package, and a prioritized cost estimate.

All data/reports will be thoroughly reviewed by Ucorr's QA/QC engineer to ensure compliance with SGVMWD's requirements.

Ucorr is well-versed with all applicable standards, latest technologies, and requirements related to this solicitation's scope of work. All required field testing and analysis for possible CP project will be completed per the following standards:

- *AWWA Related Standards (such as D104-11 and D106-10)*
- *NACE SP0169: Control of External Corrosion on Underground or Submerged Metallic Piping Systems*
- *NACE SP0100: Cathodic Protection to Control External Corrosion of Concrete Pressure Pipelines and Mortar-Coated Steel Pipelines for Water or Waste Water Service*
- *NACE TM0497: Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems*
- *NACE SP0177: Mitigation of Alternating Current and Lightning Effects on Metallic Structures and Corrosion Control Systems*
- *NACE SP0193: External Cathodic Protection of On-Grade Carbon Steel Storage Tank Bottoms*
- *NACE SP0286: Electrical Isolation of Cathodically Protected Pipelines*
- *NACE Cathodic Protection Manuals: Levels 1 through 4*

Ucorr is also capable of preparing designs for necessary CP system improvements, completing CP system material procurement, and performing CP system-related construction including repairs, maintenance, and installations.

All record drawings, specifications, and Geographical Information System (GIS) deliverables will be submitted in accordance with the requirements outlined in the RFQ.

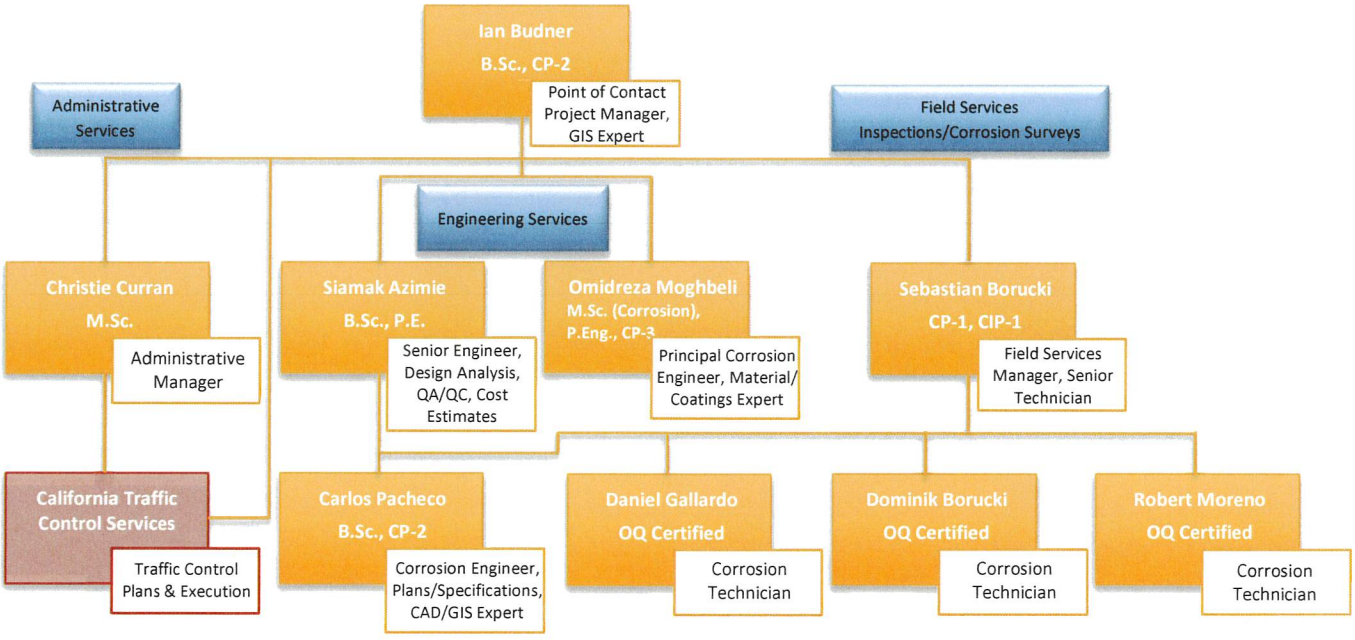
Ucorr's goal is always to provide the highest quality services to our clients. Since the beginning of its operations, Ucorr has successfully completed all projects within the allotted time and budget for each service provided to our clients. We are willing to modify the project schedule to meet the project goals and budget. The main factor in Ucorr's approach is ensuring that we understand the exact target of each task to efficiently and successfully complete the task. Ucorr's project manager will carefully review the project requirements to fully understand the project goals and their environmental/safety concerns.

Our point of contact will discuss the project in detail with the District's assigned representative to ensure there is a mutual understanding of project goals. The project will also be discussed with the assigned project engineers to evaluate the resources needed throughout the project. Required manpower, equipment, and vehicles for each project will be allocated and a detailed technical task procedure list for the field crew members will be prepared. The field crew lead will prepare all safety requirements for each project and ensure that all necessary equipment is in a safe, working, and calibrated condition. Ucorr's project manager will also be in direct communication with any required subcontractors to ensure compliance with Ucorr's company policies, District policies, and to coordinate required tasks/scheduling.

Ucorr will firmly adhere to the following initiatives throughout the project:

1. All project members will be completely familiar with the project and its goals.
2. Detailed task schedules and budgets will be designed to dedicate required resources available to fulfill required tasks prior to deadlines.
3. Safety of field personnel is our primary goal during all field survey work.
4. Quality/accuracy of measurements and data integration.
5. Daily meetings will be held with the project team to discuss project progress, issues/difficulties, and incidents, if any, to ensure efficient and safe project execution.
6. Point of contact will provide weekly progress updates.
7. Any deviation from the approved project schedule will be reported immediately to the District's project manager or designated contact.
8. All daily activities will be communicated with the District's project manager/point of contact as well as subcontractors, when necessary.

The following Organization Chart represents Ucorr's personnel that will be assigned to the As-Needed Corrosion Engineering and Cathodic Protection Consulting Services Project for the District:



All assigned key personnel will be available during the course of the agreement and will be allocated for any tasks negotiated to be performed by Ucorr.

Ucorr will be able to meet the District's requirements and complete all requested tasks with the highest industry standards. All key personnel have been previously involved in similar projects. Additionally, all field personnel are Operator Qualification (OQ) certified (Abnormal Operating Conditions – AOC, and all required field tasks) with NACE, Veriforce, and/or OQSG. The following list describes Ucorr's team members that will be involved in this project and their roles/responsibilities within the project:

- **Ian Budner** – Senior Corrosion Engineer and NACE Cathodic Protection Technician serving as project manager/point of contact for all corrosion/CP system data analysis, designs, reports, etc. Lead for design efforts, data management/input, data analysis, report writing, construction management, and compliance requirements with over 14 years of experience in similar projects including pipeline CP evaluations/DOT annual surveys, as well as project management, construction management, and CP/corrosion control designs. Has managed numerous corrosion/CP projects and studies for various clients in the water, wastewater, and oil & gas industries. Mr. Budner holds two registered patents dealing with corrosion monitoring and cathodic protection systems.
- **Omidreza Moghbeli, P.Eng.** – Alberta, Canada registered Professional Engineer, with a Masters Degree in Corrosion, and a NACE Cathodic Protection Technologist serving as the technical lead for all corrosion/CP system survey, investigation, and studies data analysis, designs, reports, etc. with over 28 years of international experience in, corrosion engineering, cathodic protection, construction/construction management, metallurgical engineering, material/coating selection and assessments, and failure analysis. Has provided corrosion, CP, materials, coatings, and design consulting services for many similar projects in the water/wastewater and Oil & gas industries. Mr. Moghbeli holds nine registered patents dealing with corrosion monitoring and cathodic protection systems.
- **Siamak Azimie, P.E.** – California registered Civil Engineer in charge of Quality Assurance/Quality Control of all activities. Mr. Azimie has over 37 years of extensive corrosion control project management, corrosion control design project management, civil engineering project management, construction management, data analysis and preparation of cost estimates for large water/wastewater operations with Eastern Municipal Water District.
- **Sebastian Borucki** – Senior Corrosion Technician, NACE-Certified Cathodic Protection Tester and Coating Inspector Level 1 in charge of field operations with 15 years of similar project experience including pipeline and reservoir cathodic protection/corrosion monitoring system evaluations and DOT Annual surveys. Mr. Borucki also has extensive experience in condition assessment, rectifier assessment/troubleshooting, internal pipeline inspections, electrical continuity surveys, cathodic protection system materials and installations, and specialized surveys for the water, wastewater, and oil & gas industries. Mr. Borucki holds two registered patents dealing with corrosion monitoring and cathodic protection systems.
- **Carlos Pacheco** –Corrosion Engineer and NACE-Certified Cathodic Protection Technician Level 2 in charge of data management/input, GIS Data integration, report writing, and drafting. Mr. Pacheco has 7 years of experience in cathodic protection system evaluations, design and drafting, corrosion rate analysis, direct assessment, and materials and corrosion engineering. Mr. Pacheco holds OQ certifications for CP system testing, installation, evaluation, and troubleshooting with Veriforce.
- **Robert Moreno** – Corrosion Technician holding OQ certifications for CP system testing, troubleshooting, and evaluation with OQSG including AOC, conducting annual CP surveys, inspecting CP rectifiers, CP rectifier maintenance and troubleshooting, inspecting/verifying test lead continuity, soil resistivity testing, and maintaining test leads. Assisted in conducting CP system surveys for clients in the water, wastewater, and oil & gas industries.
- **Dominik Borucki** – Corrosion Technician holding OQ certification for CP system testing, conducting annual CP surveys, inspecting/verifying test lead continuity and maintaining test leads. Assisted in conducting CP system surveys for clients in the water, wastewater, and oil & gas industries.
- **Daniel Gallardo** – Corrosion Technician, well-versed in computer applications, holding OQ certification for CP system testing, conducting annual CP surveys, inspecting/verifying test lead continuity and maintaining test leads. Assisted in conducting CP system surveys for clients in the water, wastewater, and oil & gas industries.
- **Christie Curran** – Administrative manager, well-versed in computer applications, in charge administrative support including daily paperwork, reports, permitting, training/compliance, and budgeting.

Following is a breakdown of pertinent staff and company licensing/certifications related to the scope of work. A detailed breakdown of all staff/company licensing, qualifications, certifications, education, etc. can be found in the resumes enclosed in Appendix A of this SOQ.

- Professional Engineering License (Civil) – California (Siamak Azimie)
- Professional Engineering License (Metallurgical) – Alberta, Canada (Omidreza Moghbeli)
- NACE/AMPP Cathodic Protection Technologist (Omidreza Moghbeli)
- NACE/AMPP Cathodic Protection Technician (Ian Budner & Carlos Pacheco)
- NACE/AMPP Cathodic Protection Tester (Sebastian Borucki)
- NACE/AMPP Coatings Inspection Level 1 (Sebastian Borucki)
- Operator Qualifications through OQSG & Veriforce (all field staff)
- OSHA 10-hour Safety Training (all staff)

California Traffic Control Inc. will be utilized as a subconsultant for traffic control services, if necessary. They are certified with the State of California Contractors License Board as a licensed Construction Zone Traffic Control Contractor (C31 License No. 958371).

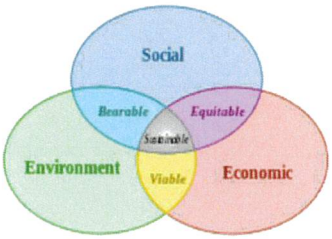
Ucorr has included brief resumes of all key personnel that will be involved in the As-Needed Corrosion Engineering and Cathodic Protection Consulting Services Project in Appendix A. All resumes demonstrate the qualifications and experience related to the subject project and highlight each team member's education, licenses, certifications, publications, patents, training, relevant work experience, and specific responsibilities for the services described. Complete, detailed resumes can be provided upon request.

Ucorr is always working to improve its QA/QC programs and safety programs through collective experience with a variety of clients and work environments. By creating dynamic and constantly improving programs, Ucorr ensures that its services are provided in a very timely and high-quality manner. Ucorr always ensures its services are provided in the highest manner of safety for our clients and staff while eliminating all negative impacts that the services may have on the environment. Ucorr completely believes in the principals of sustainable development and is fully committed to design, maintain, and construct sustainable services within the range of our activities.

Ucorr will firmly adhere to the following initiatives to improve quality in all aspects of the project:

- **Our firm is a member of Veriforce and ISNetworld compliance management systems for PHMSA/DOT-regulated drug, alcohol, background check, safety, and Operator Qualification (OQ) programs.**
- All equipment will be calibrated in accordance with the manufacturer's standards and calibration records maintained/updated.
- All project personnel are technically certified through NACE and/or OQ programs, which are described in detail in the "Project Team" section of this proposal. Additionally, one of Ucorr's key personnel is a certified OQ evaluator for Veriforce.
- Project budget and schedule will be monitored daily to ensure task orders are completed on-time and on-budget.
- Staff meetings, client meetings will be held bi-weekly to discuss the possible difficulties and improve the quality of all deliverables and monthly reports.
- Periodic progress reports/invoices will be submitted detailing work performed, project concerns, schedule impacts, and anticipated work as-needed.
- Key personnel will attend meetings as-needed.
- QA/QC documentation will be provided for all major deliverables to ensure the highest quality.
- Verification of subconsultant adherence to company/District safety/quality policies as well as validity of subconsultant licenses, certifications, safety programs, necessary OQ's, and safety ratings (Experience Modification Rate [EMR] & Total Recordable Incidence Rate [TRIR]).

Ucorr completely believes in the principals of sustainable development and is fully committed to design, maintain, and construct sustainable services within the range of our activities.



Integral elements of sustainability are research and innovation activities. A telling example is the European environmental research and innovation policy. It aims at defining and implementing a transformative agenda to greening the economy and the society as a whole so to make them sustainable. Research and innovation in Europe are financially supported by the programme Horizon 2020, which is also open to participation worldwide.

Ucorr internally executed the following list of health, safety, and environmental programs which all staff are trained on and strictly adhere to:

- Safety Manual
- Access to Employee Medical and Exposure Records
- Assured Equipment Grounding Conductor
- Bloodborne Pathogens
- Cold Weather Safety/Cold Stress

- Confined Space/Permit Required Confined Space
- Disciplinary Program
- Drug & Alcohol
- Electrical Safety Awareness
- Emergency Action Plan
- Fall Protection
- Fatigue Management
- Fire Protection/Extinguishers
- First Aid
- Fit for Duty
- General Waste Management
- Hand & Power Tools
- Hazard Communication
- Heat Illness Prevention
- Hydrogen Sulfide H2S
- Incident Investigation and Reporting
- Injury Illness Prevention
- Injury Illness Recordkeeping
- Ladder Safety
- Lockout Tagout
- Noise Exposure/Hearing Conservation
- Operator Qualification
- Personal Protective Equipment (PPE) Assessments
- Respiratory Protection
- Risk Assessment
- Safe Return to Work
- Scaffolds
- Stop Work Authority
- Trenching/Shoring/Excavations

The above-listed safety programs will be provided to SGVMWD's safety department if required/upon request.

Ucorr's complete Quality Control/Quality Assurance Plan including details regarding subcontractor management is enclosed as Appendix B.

In general, our company policy regarding subcontractor management, if required, is to execute a subcontractor agreement with subcontractors chosen by Ucorr including mandatory adherence to all of Ucorr's safety and quality policies.

The safety rating and qualifications of our personnel are certified and audited by ISNetworld and Veriforce. Staff drug and alcohol testing and background checks are certified/audited by DISA and National Compliance Management System (NCMS).

Our team's extensive and wide-ranging experience has created a highly synergistic team capable of providing the highest quality of engineering services and recommendations, design services, GIS data integration, project management, corrosion monitoring, construction/construction management, as well as field inspections/surveys for SGVMWD.

Detailed project experience and references for 11 relevant projects worked on within the past five years are enclosed in Appendix C. All detailed project experiences are similar to the nature of this solicitation and include references demonstrating our key personnel's competence to perform the subject services. Each of the detailed project examples include client contact information, description of work/services provided, contract amount, project dates, location of work, and key personnel and their responsibilities, and references.

The following table lists the general client, timeline, and reference information for all detailed project experience provided in Appendix C.

Client	Project Timeline	Reference Information		
		Name	Phone	Email
City of San Clemente	December 2018 to Present	Michael Fakhar	(949) 340-6640	mfakhar@mbfconsulting.com
Marathon Pipe Line LLC	January 2015 to Present	Mikey Seel	(419) 575-8319	MSeel@marathonpetroleum.com
Long Beach Water Department (direct)	May 2017 to May 2020	Valeri Karakanov	(562) 570-2331	Valeri.Karakanov@lbwater.org
Coachella Valley Water District (through EXARO Technologies, Inc.)	September 2022 to August 2023	Hector Dominguez	(650) 777-4324	hd@exarotec.com
World Energy	September 2020 to Present	Mohsen Ahmadi	(562) 748-4681	mahmadi@worldenergy.net
Laguna Beach County Water District	June 2023 to May 2024	Kevin Lussier	(949) 464 3111	klussier@lbcwd.org
Southern California Gas Company and San Diego Gas & Electric.	March 2015 to Present	Charles Gepford	(213) 718-7759	CGepford@socalgas.com
City of Burbank (through TerranearPMC)	October 2015 to Present	Richard Salazar	(818) 861-7253	RSalazar@TerranearPMC.com
Cucamonga Valley Water District	January 2021 to March 2021	Eduardo Espinoza/ Gidti Ludesirishoti	(855) 654-2893	EduardoE@cvwdwater.com GidtiL@cvwdwater.com
Long Beach Water Department and City of Eureka (through GHD, Inc.)	October 2020 to July 2021	Jeff Knauer	(510) 420 3312	jeff.knauer@ghd.com
Olympus Terminals	August 2023 to Present	Justin Avril	(206) 419-6964	justin.avril@olympusterminals.com

RATE SCHEDULE

Below is a fee schedule/rate sheet for each labor/service classification to be utilized for the As-Needed Corrosion Engineering and Cathodic Protection Consulting Services. Labor rates, services rates, subconsultant labor rates, and expense rates listed below shall remain in effect for the duration of the 3-year contract.

Labor Rates		
Classification	**Hourly Rate**	**Notes**
Project Manager, Point of Contact	$165	
Principal Corrosion Engineer	$170	
Senior Engineer	$170	
Corrosion Engineer	$150	
CAD/GIS Technician	$90	
Field Services Manager/Senior Technician	$145	Prevailing wage regulations apply.
Corrosion Technician	$130	Prevailing wage regulations apply.
Project/Administrative Support	$85	
Services Rates		
Classification	**Hourly Rate**	**Notes**
Fully Equipped 2-Man Crew[1]	$275	All remaining services aside from the services listed for 3-Man Crew below.
Fully Equipped 3-Man Crew	$405	Aboveground surveys such as CIS, DCVG, ACVG, PCM, and cell-to-cell.
Expense Rates		
Classification	**Rate**	**Notes**
Mileage	$0.67/mile	2024 IRS rate.
Travel Time Rates	50% of Above Labor Rates	50% of actual travel hours required will be charged for Ucorr personnel. **25 miles/30-minute travel time from Ucorr headquarters to District Administrative Office.**
Miscellaneous	Cost Plus 15%	Miscellaneous expenses requested by SGVMWD such as permitting fees, outside services/expenses, etc.
Subconsultant Labor Rates (California Traffic Control Services Inc.)		
Classification	**Rate**	**Notes**
2-Man Crew Equipped w/ Truck, Arrow Board, & Cones/Signage	$170/hour	*Utilized if traffic control services are required for field inspections, surveys, etc. *California-licensed contractor for traffic control services (C31), License No. 958371.
Engineered Traffic Control Plans	$500/sheet	Engineered/P.E. stamped traffic control plans if required for field inspections/surveys.

1. *A minimum of 2 crew members shall be utilized for all tasks in accordance with company safety rules.*

Additional Notes

- *Ucorr will charge Service/Labor Rates based on actual hours worked.*
- *Labor hours for required travel time will be charged at 50% of actual travel time required.*
- *No additional expenses, besides the expenses listed in the table above, will be charged such as vehicles, equipment, per diems, internal printing & postage, lodging, etc.*
- *Any subconsultant expenses and miscellaneous expenses/outside professional services requested by SGVMWD will be charged at cost plus 15%.*
- *All services will be provided on a time and materials basis, not-to-exceed the proposed rates above.*
- *Prevailing wage rates apply to all field service labor categories.*
- *Ucorr reserves the right to increase labor and service rates by a maximum of 15% at the end of the original 3-year agreement term if the inflation rate influences the wages, services, and materials or if the State of California increases the prevailing wage labor rates for field services.*

IAN BUDNER, B.SC. – POINT -OF-CONTACT, PROJECT MANAGER

EDUCATION

- B.Sc. Civil Engineer, California State Polytechnic University – Pomona, 2010

PROFESSIONAL AFFILIATIONS

- NACE International

PROFESSIONAL REGISTRATIONS, CERTIFICATIONS, & PATENTS

- Eligible for P.E. (Civil), completed/passed federal General Civil exams.
- NACE Cathodic Protection Technician 2011 (CP Level 2)
- Embedded AC Mitigation System (US Patent #9774105)
- Modified Rectangular Wave Polarization Control System (US Patent Publication #20220397459)

ADDITIONAL COURSES

- First Aid, AED, and CPR
- NACE Cathodic Protection Technician 2011 (CP Level 2)
- NCCER, OQSG, and Veriforce Operator Qualification Programs
- OSCA Refinery Safety Orientation (RSO)
- OSHA 30-hour Construction Safety Training
- Permit Required Confined Space
- Pipeline and Hazardous Materials Safety Administration (PHMSA) Supervisor Training
- Veriforce Certified Covered Task Field Evaluator

RELEVANT WORK EXPERIENCE

- **Universal Corrosion Services, LLC (Ucorr) | Manager - Operations | Rancho Cucamonga, CA | Feb. 2014 to Present**
  - City of San Clemente | San Clemente, California; Project manager and point-of-contact, in charge of data processing & analysis, cathodic protection/corrosion control geodatabases creation, report writing, and facilities map preparation & organization for all the City's CP system facilities for their reclaimed water systems, domestic/potable water systems, reservoirs, pump stations, and pier. Designed CP system improvement/repair plans.
  - Laguna Beach County Water District | Various Cities, California; Project manager and point-of-contact, in charge of data processing & analysis, cathodic protection/corrosion control geodatabases creation, report writing, and facilities map preparation & organization for all the City's CP system facilities for their water systems, including various pipelines and tanks. Designed CP system improvement/ repair plans.
  - Long Beach Water Department (though GHD Inc.) | Long Beach, California; Project manager for a comprehensive continuity and interference study on a 1000-ft stretch of main water pipeline that included various run of close interval potential surveys (CIPS), Pipeline current mapping (PCM), interrupted potential measurements on test pipeline test stations and pipeline laterals, coordination with foreign, nearby pipeline owners for interference studies.
  - Long Beach Water Department | Long Beach, California; Protective Coating Specification Review and Update.
  - Long Beach Water Department | Long Beach, California; Phase IV cathodic protection system field investigation, design, and installation. Principal engineer reviewing all data analysis and CP system design work.
  - Eastern Municipal Water District | Perris, California; Performed field evaluation of existing water pipeline including test station survey, soil resistivity measurements, and provided corrosion monitoring system design based on field evaluation.
  - Long Beach Water Department through Paso Robles Tank, Inc. | Long Beach, California; Performed sacrificial (passive) CP system improvement material procurement and installation for approximately 30 water storage reservoirs.
- **HDR Engineering, Inc. (HDR|Schiff) | Junior Corrosion Engineer/Project Manager | Claremont, CA | Feb. 2011 to Feb. 2014**
  - Calleguas Municipal Water District | CP Condition Assessment and Troubleshooting Survey, Thousand Oaks, California; Performed field survey (pipe to soil potential, continuity testing, Closed Interval Potential Survey (CIPS), electrical isolation testing, and review of existing crossings, analyzed data and provided reports.
  - Eastern Municipal Water District | CP System Evaluation, Perris, California; Complete CP system evaluation including electrical continuity testing, CIS, potential surveys, electrical isolation testing, and development of recommendations for CP system remediation efforts.
  - Oxy Long Beach, Inc. | Corrosion Protection System Evaluation, Port of Long Beach, California; Complete CP system evaluation including continuity, current requirement, and stray current interference testing. Developed a plan for CP system rehabilitation and improvements for the oil gathering /water injection pipeline systems at the Port of Long Beach.
- **Schiff Associates | Field Engineer | Claremont, CA | June 2011 to Feb. 2011**
  - Otay Water District | Cathodic Protection System Survey, San Diego, California; Complete cathodic protection evaluation/test station field survey of over 80 pipelines and CP evaluations of 29 reservoirs. Completed all data entry, analysis, and GIS integration.

** This CV is presented in a 1-page format for the purposes of this SOQ. Detailed work experience will be presented to SGVMWD upon request.*

OMIDREZA MOGHBELI, M.SC., P.ENG. – PRINCIPAL CORROSION ENGINEER

EDUCATION

- M.Sc. Metallurgical Engineering (Corrosion and Material Protection), Azad University of Tehran, Science & Research Centre, 1999
- B.Sc. Metallurgical Engineering (Foundry), Azad University of Karaj, 1996

PROFESSIONAL REGISTRATIONS, CERTIFICATIONS, & PATENTS

- Member of APEGGA (The Association of Professional Engineers, Geologists, and Geophysicists of Alberta, Canada) – Metallurgy License No. 82943
- NACE Cathodic Protection Technologist 2008 (CP Level 3)
- Holds Nine Registered Patents Related to Corrosion Control & Cathodic Protection

ADDITIONAL COURSES

- NACE, NCCER, and Veriforce Operator Qualification Programs
- Pipeline and Hazardous Materials Safety Administration (PHMSA) Supervisor Training
- First Aid, AED, and CPR
- OSHA 10-hour Construction Safety Training
- Permit Required Confined Space
- Welding Inspection with Ultrasonic – Level 1

RELEVANT WORK EXPERIENCE

- **Universal Corrosion Services, LLC | Principal Engineer | Rancho Cucamonga, CA | Feb. 2014 to Present**
  - City of San Clemente | San Clemente, California; Technical lead for data analysis, design calculations/drawings and installation. Review all deliverables packages including design efforts, budgetary cost estimates, prioritized mitigation recommendations, and comprehensive survey reports.
  - Laguna Beach County Water District | Various Cities, California; Technical lead for data analysis. Review all deliverables packages including budgetary cost estimates, prioritized mitigation recommendations, and comprehensive survey reports.
  - Long Beach Water Department | Long Beach, California; Protective Coating Specification Review and Update.
  - Long Beach Water Department (though GHD Inc.) | Long Beach, California; Technical lead for a comprehensive continuity and interference study on a 1000-ft stretch of main water pipeline. Developed a testing strategy to accurately pinpoint multiple discontinuities between test stations and provided final interference analysis results interpretation.
  - Southern California Gas/Sempra Energy | Multiple Locations, California; Internal/external corrosion monitoring data analysis and reporting for ER probes, UT probes, and CP coupons probes installed on various regulated gas pipelines and facilities throughout southern California.
  - TerranearPMC | Burbank, California; Impressed Current CP system evaluation and design improvements.
  - Eastern Municipal Water District | Perris, California; Performed field evaluation of existing water pipeline including test station survey, soil resistivity measurements, and provided corrosion monitoring system design based on field evaluation.
- **HDR Engineering, Inc. (HDR|Schiff) | Manager – Engineering Services | Claremont, CA | Aug. 2011 to Nov. 2013**
  - Eastern Municipal Water District | Provided as needed Metallurgical/Corrosion Engineering Services, Failure Analysis, CP System Evaluation. Provided supervision on all corrosion monitoring and Cathodic Protection surveys.
- **Corrpro Companies | Senior Engineer | Santa Fe Springs, CA | Mar. 2011 to Aug. 2011**
  - Inland Empire Utilities Agency | East Recycled Water Pipeline Corrosion Assessment, Rancho Cucamonga; Corrosion test station survey to assess the need for cathodic protection systems.
- **Schiff Associates | Senior Corrosion Engineer/Special Operations Division Manager | Claremont, CA |Aug. 2009 to Nov. 2010**
  - Inland Empire Utilities Agency | Chino, California; Inline corrosion inspection for Carbon Canyon water treatment center.
- **Worley Parsons | Integrity Engineer | Calgary, Alberta, Canada | May 2006 to June 2009**
  - Albian Sands Energy, Inc. | Expansion 1 Project – EPCM, Alberta, Canada; Performed cathodic protection design, coating selection, and wrote specifications for intersite/underground pipelines. Designed internal and external cathodic protection systems for all storage tanks, process vessels, and intersite pipelines.
- **Alberta Corrosion Technologies, Inc. | President/Project Manager | Calgary, Alberta, Canada | Oct. 2003 to June 2006**
  - Zang Setizan Shargh Eng. Co. (ZSS) | Tehran, Iran; Corrosion survey and monitoring equipment procurement through agency agreements. Train and certify client's personnel with survey techniques and data interpretation.
- **Zang Setizan Shargh Eng. Co./Plarck Sanat Ltd. | CEO, Engineer/President, Engineer | Tehran, Iran | Aug. 1996 to Aug. 2003**
  - Lar Consultant Engineers | Arak Water Pipeline, Arak, Iran; Site survey, design and material procurement for cathodic protection for the NPS 36 Arak water pipeline (125 km) in central Iran. Project Manager, cathodic protection design review and final approval, procurement and managing the installation.

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SIAMAK AZIMIE, M.SC., P.E. – SENIOR ENGINEER & QA/QC ENGINEER

EDUCATION

- B.Sc. Civil Engineering, University of Utah, Salt Lake City, 1981
- Utah Technical College, Salt Lake City, 1976

PROFESSIONAL REGISTRATIONS & CERTIFICATIONS

- Professional Engineer, Civil – California (CR48772)
- Construction Claims and Disputes
- Public Contracting in California
- Beyond Management Program Training
- Principal of Supervision and Management

PROFESSIONAL AFFILIATIONS

- Southern California Cathodic Protection Committee (SCCP)
- American Water Works Association (AWWA) Ad-Hoc Committee

RELEVANT WORK EXPERIENCE

- **Universal Corrosion Services, LLC | Senior Civil Engineer & QA/QC Engineer| Rancho Cucamonga, CA | 2015 to Present**
  - Assisted with review/approval of cathodic protection system designs and reports.
  - Assisted with review of data quality and integrity.
  - Assisted with review all deliverables packages including, budgetary cost estimates, prioritized mitigation recommendations, and comprehensive survey reports.
  - City of San Clemente | San Clemente, California; Assisted with review/approval of system improvement designs and repairs plans.
  - Paramount Pipeline LLC (through World Energy) | Reviewed/approved corrosion monitoring system improvements designs
  - Olympus Terminals LLC | Long Beach; Reviewed/approved corrosion monitoring system improvements designs
  - Irwindale, California | Performed integrity assessment/analysis of structural steel components and utility piping in chemical processing factory utilizing 3D structure light and UT technology. Provided recommendations for remedial efforts based on integrity analysis.
  - Kennedy/Jenks Consultants | Perris, California; Performed site assessment and soil resistivity analysis of soils for proposed CML&C water pipeline. Reviewed/approved corrosion monitoring system design for proposed water pipeline.
  - Marathon Petroleum | Southern California | Performed QA/QC review of cathodic/corrosion protection design drawings, details, and specifications for offshore structures, storage tanks, and pipelines.
- **Eastern Municipal Water District | Civil Engineer | Perris, CA | 1988 to 2012**
  - Working as project engineer/manager and the leader of District's general construction activities. Involved in developing District's corrosion control program and seismic retrofit of all facilities. Defined scope of work, scheduling, and implementation of project design and construction. Design of water pumping stations, sewer lift stations, and potable water reservoirs.
  - Ellis Avenue Corrosion Control Phase II | Corrosion control of existing Ellis Avenue Pipeline
  - Cawston Avenue Pipeline Corrosion Control Project | Corrosion control of existing Cawston Avenue 24-inch pipeline.
  - Golden Triangle 45-inch Pipeline Corrosion Control | Provide corrosion control for existing pipeline.
  - Rancho Temecula Transmission Pipeline | Design/Project Engineer & Construction Administrator for installation of 18,000ft of 36-inch CML&C class 250 pipe with all appurtenances from District's Rancho California R.W.R.F. to intersection of Elm Street & Adams Ave.
  - HVRWRF Second Expansion | Overall structural design and preparation of construction plans & specifications.
  - Reservoir Maintenance (1998 to 1999) | Interior recoating and additional improvements for four tanks.
  - Cactus Pump Station | Design and construction of major pump station at Cactus Avenue, north of I-215 as an additional supply of MWD water into EMWD boundary.
- **City of Ontario | Principal Engineer | Ontario, CA | 2003 to 2005**
  - Plan checking of residential, commercial, and industrial development.
  - Review and calculations of structural portions of District's various treatment plants.
- **Boyle Engineering | Senior Civil Engineer | 1987 to 1988**
  - Worked on water infrastructures in new developments.
  - Designed and modified existing facilities to comply with the latest engineering codes.

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SEBASTIAN BORUCKI – FIELD SERVICES MANAGER, SENIOR TECHNICIAN

PROFESSIONAL CERTIFICATIONS

- NACE Coatings Inspector 2011 (CIP-1) No. 35496
- NACE Cathodic Protection Tester 2010

PROFESSIONAL AFFILIATIONS & PATENTS

- Modified Rectangular Wave Polarization Control System (US Patent Publication #20220397459)
- Automated Tank Cathodic Protection Monitoring System, (US Patent #10018864)

ADDITIONAL COURSES

- BAC Pin Brazing
- First Aid, AED, and CPR
- NACE Cathodic Protection Tester 2010
- NACE Coatings Inspector 2011 (CIP Level 1)
- NACE, NCCER, OQSG, and Veriforce Operator Qualification Programs
- OSCA Refinery Safety Orientation (RSO)
- OSHA 30-hour Construction Safety Training
- Permit Required Confined Space

RELEVANT WORK EXPERIENCE

- **Universal Corrosion Services, LLC (Ucorr) | Manager – Field Services | Rancho Cucamonga, CA | Sep. 2014 to Present**
  - City of San Clemente | San Clemente, California; In charge of all field activities including inspection/documentation, potential surveys, continuity survey, PCM survey, stray current studies, and improvements/repairs installation for the City's reclaimed water systems, domestic/potable water systems, reservoirs, pump stations, and pier.
  - Laguna Beach County Water District | Various Cities, California; In charge of all field activities including inspection/ documentation, potential surveys, continuity survey, PCM survey, stray current studies, interference investigations, and improvements/repairs installation for the district's water system pipelines and tanks.
  - Long Beach Water Department (though GHD Inc.) | Long Beach, California; In charge of field activities for a comprehensive continuity and interference study of a main water pipeline that included various run of close interval potential surveys (CIPS), Pipeline current mapping (PCM), interrupted potential measurements on test pipeline test stations and pipeline laterals.
  - Long Beach Water Department | Long Beach, California; Phase IV cathodic protection system field investigation and construction support.
  - Tesoro Logistics | Martinez, California; Performed Close Interval Potential Survey (CIPS) and complete cathodic protection system evaluation on multiple product lines in the Amorco Terminal and Amorco Dock.
  - Southern California Gas/Sempra Energy | Multiple Locations, California; Internal/external corrosion monitoring data collection for ER probes, UT probes, and CP coupons probes installed on various regulated gas pipelines and facilities throughout southern California.
  - California Resources Corporation | Long Beach, California; Performed complete DOT-regulated CP system evaluation survey including CIS, DCVG, pipeline current mapping, depth of cover, test station survey, and rectifier survey for numerous oil, gas, and water pipelines.
  - Long Beach Water Department through Paso Robles Tank, Inc. | Long Beach, California; Performed sacrificial (passive) CP system improvement material procurement and installation for approximately 30 water storage reservoirs.
- **HDR Engineering, Inc. (HDR|Schiff) | Corrosion Technician/Coatings Inspector | Claremont, CA | Feb. 2011 to Sep. 2014**
  - City of Huntington Beach | Annual surveys of buried water pipelines, Huntington Beach, California; Performed field surveys including pipe-to-soil potentials, electrical continuity testing, On/Off surveys, insulated flange testing, rectifier testing and adjustments, and data analysis.
  - Eastern Municipal Water District | CP System Evaluation, Perris, California; Complete CP system evaluation including electrical continuity testing, CIS, potential surveys, and electrical isolation testing.
  - Frank Coluccio Construction (City of Honolulu) | Cathodic Protection System Troubleshooting and Rehabilitation, Honolulu, Hawaii; CP system installation including test stations, anodes, CAD welded and pin brazed connections, rectifiers and junction boxes, and insulating flange kits. Troubleshooting and survey of existing and new CP systems.
- **Schiff Associates | Corrosion Technician/Coatings Inspector | Claremont, CA | Nov. 2009 to Feb. 2011**
  - Eastern Municipal Water District | Cathodic Protection System Evaluation & Improvements/Construction Management, City of Perris, California; Potential survey, current requirement testing, electrical continuity testing, soil resistivity testing, rectifier troubleshooting, and pipeline discontinuity repairs.
  - Otay Water District | Cathodic Protection System Survey, San Diego, California; Test station survey of over 80 pipelines and CP evaluation of 29 reservoirs.

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CARLOS PACHECO, B.SC. – CORROSION ENGINEER

EDUCATION

- B.Sc. Chemical and Materials Engineering, California State Polytechnic University – Pomona, 2019

PROFESSIONAL AFFILIATIONS/REGISTRATIONS

- NACE Cathodic Protection Technician (CP-2)

ADDITIONAL COURSES

- OQSG, and Veriforce Operator Qualification Programs
- OSCA Refinery Safety Orientation (RSO)
- OSHA 10-hour Construction Safety Training
- Permit Required Confined Space

RELEVANT WORK EXPERIENCE

- **Universal Corrosion Services, LLC (Ucorr) | Corrosion Engineer| Rancho Cucamonga, CA | Feb. 2018 to Present**
  - City of San Clemente | San Clemente, California; Prepared cathodic protection/corrosion control geodatabases, performed cathodic protection field survey and data tabulation/analysis, preparation of monitoring program maps for all the City's CP system facilities for their reclaimed water systems, domestic/potable water systems, reservoirs, pump stations, and pier. Helped develop and draft CP system improvement/repair plans.
  - City of San Clemente | San Clemente, California; Prepared cathodic protection/corrosion control geodatabases, performed corrosion/cathodic protection surveys and investigations data tabulation/analysis, preparation of map for all the District's CP system facilities for their water system pipelines and tanks. Assisted with analysis of stray current and interference studies.
  - Coachella Valley Water Department through Exaro Technologies | Various Cities, California; Performed pipeline continuity, underwater structure-to-electrolyte measurements, other CP field survey data, and data tabulation/analysis.
  - Long Beach Water District | Long Beach, California; Phase IV cathodic protection system field investigation, soil resistivity measurement and test station measurements data tabulation/analysis for multiple steel and ductile iron water pipelines.
  - Long Beach Water Department (though GHD Inc.) | Long Beach, California; Data collection, tabulation and analysis for a comprehensive continuity and interference study of a main water pipeline that included various run of close interval potential surveys (CIPS), Pipeline current mapping (PCM), interrupted potential measurements on test pipeline test stations and pipeline laterals.
  - Cucamonga Valley Water District | Rancho Cucamonga, California; Performed analysis of conditions of stainless steel weir plates that had experience deterioration. Developed recommendations of material selection options for replacement of weir plate material.
  - Marathon Pipeline | Various Cities, Southern California; Performed CIPS and DCVG data collection and tabulated, analyzed, and prepared CIS reports for various DOT regulated oil pipelines of varying diameters utilizing Impressed Current Cathodic Protection (ICCP) systems.
  - Eastern Municipal Water District | Multiple Locations, California; Perform tabulation, analysis and report preparation for CP system evaluations, test station surveys, interference studies, and electrical isolation/continuity testing for multiple water/recycled water pipelines. Conducted pipe-to-soil potential measurements to determine the structural integrity of current anodes and to ensure that CP systems are working properly during and after construction.
  - Southern California Gas/Sempra Energy | Multiple Locations, California; Internal/external corrosion monitoring data analysis and reporting for ER probes, UT probes, and CP coupons probes installed on various regulated gas pipelines and facilities throughout southern California.
  - Andeavor Logistics | Long Beach, California: Cathodic Protection Survey and Improvement design for multiple land-side and marine-side structures.
  - Tesoro Logistics | Carson/Stockton California; Complete cathodic protection system evaluation on multiple tanks in the Carson and Stockton Terminals.
  - TerranearPMC | Burbank, California; Impressed Current Cathodic Protection (ICCP) system evaluation for well casings and installation of ICCP system improvements.
  - Marathon Pipeline Annual CIS| CIS Reports, Long Beach, California; Tabulated, analyzed, and prepared reports for CIS data obtained from various Marathon pipelines to make recommendations based on NACE criterion for CP
- **CAL POLY POMONA | Researcher| Rancho Cucamonga, CA | Feb. 2014 to 2021**
  - CME Department | Electrochemical evaluation of corrosion properties of metallic-alloys; Performed polarization tests of metallic-alloys in electrolytic solution to evaluate corrosion properties, metallurgically prepared metal samples, performed data extraction, calculation and analysis, performed surface analysis using various types of microscopy.

ROBERT MORENO – CORROSION TECHNICIAN

EDUCATION

- Associate of Science (2021) & Electrician Certification (2023), San Joaquin Valley College – Visalia, CA

PROFESSIONAL CERTIFICATIONS

- OSHA 10-Hour Construction Safety Training
- Veriforce and OQSG Operator Qualification Program

RELEVANT WORK EXPERIENCE

- **Universal Corrosion Services, LLC (Ucorr) | Corrosion Technician | Rancho Cucamonga, CA | Sep. 2023 to Present**
  - City of San Clemente | San Clemente, California; Assisted with all field activities including inspection/documentation, potential surveys, continuity survey, PCM survey, stray current studies, and improvements/repairs installation for the City's reclaimed water systems, domestic/potable water systems, reservoirs, pump stations, and pier.
  - Laguna Beach County Water District | Various Cities, California; Assisted with field activities including inspection, potential surveys, continuity survey, PCM survey, stray current studies, interference investigations, and improvements/repairs installation for the district's water system pipelines and tanks.
  - Southern California Gas/Sempra Energy | Multiple Locations, California; Assisted with internal/external corrosion monitoring data collection for ER probes, UT probes, and CP coupons probes installed on various regulated gas pipelines and facilities throughout southern California.
  - TerranearPMC | Burbank, California; Impressed Current Cathodic Protection (ICCP) system evaluation for well casings and installation of ICCP system improvements.
  - Paramount Pipeline (through World Energy) | Various Cities, Southern California; Performed close interval potential surveys (CIPS), pipeline current mapping (PCM), annual test station structure-to-electrolyte potential measurements, and Cathodic Protection system improvements installation.
  - Marathon Pipeline | Various Cities, Southern California; Performed CIPS, DCVG, and Test Station data collection for DOT regulated oil pipelines of varying diameters utilizing Impressed Current Cathodic Protection (ICCP) systems.
  - World Energy | Various Cities, Southern California; Assisted with CIPS, DCVG, and test station data collection for DOT regulated oil pipelines of varying diameters utilizing (ICCP) systems. Assisted with repairs, improvements, and installation efforts for existing and new ICCP systems.

DOMINIK BORUCKI – CORROSION TECHNICIAN

EDUCATION

- Kinesiology Degree in Progress – University of Saint Francis, Indiana

PROFESSIONAL CERTIFICATIONS

- OSHA 10-Hour Construction Safety Training
- Veriforce and OQSG Operator Qualification Program

RELEVANT WORK EXPERIENCE

- **Universal Corrosion Services, LLC (Ucorr) | Corrosion Technician | Rancho Cucamonga, CA | Nov. 2020 to Present**
  - City of San Clemente | San Clemente, California; Assisted with all field activities including inspection/documentation and corrosion surveys on Impressed Current Cathodic Protection (ICCP) systems and galvanic CP systems for the City's reclaimed water systems, domestic/potable water systems, reservoirs, pump stations, and pier.
  - Coachella Valley Water District through EXARO Technologies | Various Cities, Southern California; Field testing including pipeline continuity testing, structure-to-electrolyte, and structure lead integrity testing.
  - Long Beach Water Department (though GHD Inc.) | Long Beach, California; Data collection for a comprehensive continuity and interference study of a main water pipeline that included various run of close interval potential surveys (CIPS), Pipeline current mapping (PCM), interrupted potential measurements on test pipeline test stations and pipeline laterals.
  - TerranearPMC | Burbank, California; Assisted with Impressed Current Cathodic Protection (ICCP) system evaluation data collection for well casings.
  - Marathon Pipeline | Various Cities, Southern California; Assisted with CIPS, DCVG, and Test Station data collection for DOT regulated oil pipelines of varying diameters utilizing Impressed Current Cathodic Protection (ICCP) systems.
  - World Energy (Paramount Pipeline) | Various Cities, Southern California; Assisted with close interval potential surveys (CIPS), pipeline current mapping (PCM), annual test station structure-to-electrolyte potential measurements, and Cathodic Protection system improvements installation.

DANIEL GALLARDO – CORROSION TECHNICIAN

EDUCATION

- B.Sc. Architecture (In Progress), California State Polytechnic University – Pomona, CA

PROFESSIONAL CERTIFICATIONS

- OSHA 10-Hour Construction Safety Training
- Veriforce and OQSG Operator Qualification Program

RELEVANT WORK EXPERIENCE

- **Universal Corrosion Services, LLC (Ucorr) | Corrosion Technician | Rancho Cucamonga, CA | July 2024 to Present**
  - City of San Clemente | San Clemente, California; Assisted with all field activities including inspection/documentation and corrosion surveys on Impressed Current Cathodic Protection (ICCP) systems and galvanic CP systems for the City's reclaimed water systems, domestic/potable water systems, reservoirs, pump stations, and pier.
  - Marathon Pipeline | Various Cities, Southern California; Performed CIPS, DCVG, and Test Station data collection for DOT regulated oil pipelines of varying diameters utilizing Impressed Current Cathodic Protection (ICCP) systems.

CHRISTIE CURRAN – ADMINISTRATIVE MANAGER

EDUCATION

- B.Sc. Social Science, California Polytechnic State University – San Luis Obispo, 2007
- M.Sc. Education, National University 2015

PROFESSIONAL CERTIFICATIONS/CREDENTIALS

- BTSA through Orange County Department of Education
- Single Subject Teaching Credential through National University

RELEVANT WORK EXPERIENCE

- **Universal Corrosion Services, LLC (Ucorr) | Administrative Manager | Rancho Cucamonga, CA | Oct. 2021 to Present**
  - Office Administrative Manager; Provided project support and in charge of all administrative and accounting duties including preparing invoices, managing AP/AR accounts with clients and vendors for material procurement tasks, compliance and safety requirements, scheduling, and maintaining payroll/certified payroll records for various clients in various cities, including:
    - Coachella Valley Water District (through Exaro Technologies) | Various Cities, Southern California
    - City of San Clemente | San Clemente, California
    - Laguna Beach County Water District | Various Cities, Southern California
    - Southern California Gas | Various Cities, Southern California
    - Earth Systems | Various Cities, Southern California
    - San Bernardino International Airport Authority | San Bernardino, California
    - Ducommun Aerostructures | Orange, California
    - TerranearPMC | Burbank, California
    - Arvin-Edison Water District | Arvin, California
    - Air Products and Chemicals, Inc. | Various Cities, Southern California
    - Marathon Pipe Line LLC | Various Cities, Southern California
    - World Energy | Various Cities, Southern California
- **Lorbeer Middle School | Educator/PBIS Group Manager | Diamond Bar, CA | to Aug. 2017 to Oct. 2021**
  - Teacher Teaching Specialist (TTS); Designed, implemented, and managed various school-wide support system structures for diverse student population.
  - Positive Behavior Intervention & Support (PBIS) Coach; Implemented school wide positive behavior system for students.
  - AVID Team Member
- **Masuda Middle School | Supervisor/Educator | Fountain Valley, CA | Sep. 2014 to Jul. 2017**
  - Tutoring Supervisor
  - Taught social studies and honors English language arts
- **St. Angela Merici Parish School | Educator/PBIS Group Manager | Brea, CA | Aug. 2011 to Jun. 2014**
  - Middle School Level Coordinator
  - Green Team Club Moderator
- **Placentia Yorba Lind Unified School District | Educator | Yorba Linda, CA | Sep. 2009 to Jun. 2011**
  - Student teacher and substitute teacher in English language arts and math.

APPENDIX B

QUALITY CONTROL/QUALITY ASSURANCE

PLAN

REVISION	DATE	ORIGINATOR	REVIEWER	APPROVER
A	May 23, 2016	Ian Budner Manager - Operations	Omidreza Moghbeli Principal Engineer	Sebastian Borucki Manager - Field Services
B	May 27, 2016			
C	October 27, 2021			
D	October 20, 2023			

I. INTRODUCTION

The following quality control guidelines have been developed for Universal Corrosion Services, LLC (Ucorr) Quality Control/Quality Assurance Program. This Quality Control Plan is divided into two sections: Quality Assurance (QA) and Quality Control (QC). Ucorr's owners/managers are responsible for the implementation and management of these QA and QC programs.

This QC Plan identifies the staff assigned to the project and describes their roles in the quality process. This QC Plan includes a description of the quality control steps and quality assurance review that will be completed by Ucorr management. This review addresses internal management controls regarding staffing issues, schedule requirements, projects logistics, and accounting procedures. The QC Plan dictates the involvement of management in ensuring that the QC review is being performed and documented.

A. Scope

The scope of this QC Plan is for all Ucorr personnel. All work products from all projects will conform to requirements of this QC Plan.

This QC plan is organized to provide all Ucorr personnel with quick access to the information they need for the quality assurance and quality control of Ucorr projects.

Although this QC Plan is designed to be a comprehensive guide to quality assurance and quality control, no handbook can anticipate and address every possible QA/QC issue that will arise in a project. Personnel should refer to the Project Managers for additional information.

B. Purpose

This Plan is developed to meet the following expectations:

- Meet client's requirements for the project.
- Provide uniform and accurate data from field measurements using the applicable, calibrated equipment, reports, plans, letters, etc. and other work products to the client or other external users of the information.
- Provide uniform and accurate reports, plans, data analysis, calculations, design information etc. for use by internal team members.
- Ensure that work products provided to the client meet accepted standards of practice including regulatory, codes, standards and agency policies and accuracy to meet the client's and Ucorr's requirements.
- Provide an audit trail of the Quality Assurance and Quality Control process described in this Plan.

C. Definitions

This Plan defines Quality Control as those quality related activities associated with the creation of project deliverables. Quality control is used to verify that deliverables are of acceptable quality and that they are complete and correct. Examples of quality control activities include deliverable peer reviews and the testing process.

This Plan defines Quality Assurance as the process used to create the deliverables, and can be performed by a manager, client, or even a third-party reviewer. Examples of quality assurance include process checklists and project audits.

II. ROLES AND RESPONSIBILITIES

A. Introduction

This section outlines the Roles and Responsibilities for the Project Management and the Quality Assurance and Quality Control Process.

Fundamentally, Project Managers lead the team members, assembled from the resources provided, to match the specific requirements of each project. Sub-consultants are incorporated directly into design teams through the Project Manager, if required based on the project needs. Each team member is responsible and accountable for compliance with scope of work requirements and technical quality of their deliverables. Additionally, each team member shall be responsible for coordinating interface information with their fellow team members to ensure a fully integrated deliverable is developed.

B. Project Managers

Project Managers serve as the primary point of contact with the customer. The Project Managers are selected based on their experience and expertise in certain project areas. Their primary responsibilities are:

- Providing direct "single-source" liaison with the client
- Responsible for planning and preparing project guides
- Implementing and monitoring assigned purchase orders
- Assigning team members
- Communicating expectations to and managing the project team
- Assuring quality is maintained
- Assuring that all instruments/equipment being utilized is in acceptable condition and calibrated
- Proactively managing the schedule and budgets
- Resolve any design and programming issues
- Maintain customer satisfaction

C. Project Team Members

The Project Team Members consist of senior discipline leaders, junior discipline professionals, specialty consultants, sub-contractors, field technicians, project engineers, and supporting technical and administrative staff. They are individually and team-wise responsible for the overall quality of the project. It is the responsibility of the Project Team Members to create the product in conformance with the project requirements and that the calculations, dimensions or information are accurate to the extent possible for the project phase. The Project Team members shall verify, before creating the work product, that the information used in its creation is complete or accurate as identified in the project requirements or to the extent known or developed. The Project Team Members shall contact the Project Manager to obtain missing information. The Project Manager shall arbitrate any disagreements.

During project execution, their primary responsibilities are:

- Provide necessary project input
- Participate in project discussions and reviews
- Provide technical guidance
- Manage cost for their assigned tasks
- Complete necessary field works, if required

Subcontractors

The sub-contractors are professionals with specialties required by the Project Manager to provide a full range of capabilities based on the project needs. They fully function as an integral part of the team and work under the direction of the Project Manager and assigned Project Team Members. During design execution their primary responsibilities are:

- Provide necessary services based on their areas of expertise
- Participate in project discussions and reviews, if required
- Provide technical guidance

D. Vehicles, Machinery, and Instruments

Ucorr's Project Manager or Project Engineers are responsible to make sure all vehicles, machinery, and measurement instruments are in good, working condition and calibrated. Any non-conformance will be reported to Ucorr management team for cost approvals and rectification.

Ucorr keeps records of:

- Measurement calibration dates
- Vehicle/machinery service requirements

E. Independent Technical Review (ITR) Team

The Independent Technical Review Team members consist of senior level personnel and management. The team members have not been involved in the design development and provide a "cold team" review of the design. Their responsibilities are:

- Provide an independent technical review of required project aspects
- Provide technical guidance
- Assist Project Manager in coordinating any required changes

This Plan defines Quality Control as those quality related activities associated with the creation of project deliverables. Quality control is used to verify that deliverables are of acceptable quality and that they are complete and correct.

III. QUALITY CONTROL

A. Introduction

Quality Control ensures the project is progressing as outlined in the task scope of work and is within budget and schedule. Quality Control starts with task assignments to an appropriate and qualified staff, continues through the preparation and submittal of deliverables, and includes team reviews. Two separate instruments of Quality Control will be implemented on the project: On-going Project Quality Control and Scheduled Milestone Quality Control.

B. Ongoing Project Quality Control

On-going Project Quality Control will occur through the management and oversight of the project as it progresses through the project tasks.

a. Project Manager Oversight

Each task will have on-going QC completed by the Project Manager who will provide oversight and review of the technical work efforts to staff to ensure that the appropriate data, assumptions, and methodologies are being used to produce accurate results. This review will be conducted on a weekly basis.

b. Monthly Team Meetings

For **long-term projects**, the regular project team meetings are held on all projects with representation from all involved team members (in-house and subcontractor). Under the leadership of the Project Manager, the project team reviews the project's status, schedules, resource utilizations, coordination items and work yet to be completed. On a monthly basis, documents will be coordinated and checklists used to review the level of completion and thoroughness of investigations, studies and designs with respect to all applicable quality, regulatory and design code requirements.

C. Scheduled Milestone Quality Control

Scheduled Milestone Quality Control will occur at designated submittals during the project, if the size/duration of the project requires such Quality Control. These scheduled Quality Control events are intended to provide staged checks on the assumptions, analyses, conclusions, and future direction of the project.

a. Independent Technical Team Reviews

The Scheduled Milestone Quality Control will be conducted by an Independent Technical Review Team; a qualified group of individuals not affiliated with the development of the project.

Formal coordination sessions are scheduled at the end of each major milestone. Independent Technical Review teams are assembled with equally qualified engineers and engineers who have not been working on that particular task. Plans/Drawings and reports

are reviewed by these independent technical review teams. Action is taken under the management of the Program/Task Manager if necessary.

b. Quality Control Reviews

The attached QC Review Form (see Appendix A) will be used for the Scheduled Milestone reviews, if required, planned prior to the submittal of the preliminary and final task deliverables. The QC reviewer lists the tasks being reviewed and their comments. The Project Manager will then coordinate with the team members to respond to the reviewer's comments and make any necessary changes. These actions are then documented on the QC Review Form. The completed QC form is included in the deliverables to the client. The Project Manager will then provide QC review of the deliverable prior to submittal to the client, if required.

c. Error Resolution

Although not often, errors and mistakes do occur in the quality control process and the key aspects of error resolution are to address the situation quickly, do not continue with the task until it is clear that the error has been resolved, and to make sure the error or mistake does not happen ever again. Any error or deviation from the quality control process is documented immediately. This documentation is then immediately forwarded to the Project Manager for further documentation and corrective action. All non-conformances and errors shall be resolved before continuing with the task, unless the PM gives permission otherwise. Error notices, and other pertinent information, are documented and attained to prevent the error from occurring again in the future.

IV. QUALITY ASSURANCE

A. Introduction

Quality Assurance includes those processes employed to assure that Quality Control activities are being accomplished in accordance with planned activities and that those Quality Control activities are effective in producing a product that meets the desired end quality. This Plan defines Quality Assurance as the process used to create the deliverables, and can be performed by a manager, client, or even a third-party reviewer.

B. Project Control Guide

For large projects, or projects with additional client requirements, a Project Control Guide is prepared by the Project Manager. It is a management guide for the entire project life. It identifies team players, including client representatives, along with their assigned responsibilities. Each Project Manager prepares and maintains a Project Guide for each task that is reviewed and approved by the Project Manager and other management. The Project Guide contains key project information regarding project administration, project communications, protocols, scope of work budget, schedule, and quality control. Using guidance from the QA/QC Program, the quality control section of the Project Guide details how, when, and by whom quality control activities will be executed. The Project Guide identifies the project objectives, activities, constraints and guidelines. The Project Guide is updated during the project as changes occur, and used

throughout the life of the project. Team members, (including client representatives) are identified, along with their assigned responsibilities.

C. Quality Assurance Plan

Ucorr implements a comprehensive Quality Assurance Plan for required projects to guarantee an end product meeting Client's requirements and to ensure consistency with the goals of the facility and end usage. The Quality Assurance Plan includes many aspects of the project and project management processes, such as design control, coordination, staffing, definition and use of standard project and administrative procedures, definition of deliverable standards for each issue milestone, and specific quality control reviews. The following briefly summarize the key aspects of the QAP.

a. Communication

Developing and implementing a comprehensive communication plan is essential to the success of the project. Key elements of this plan include development and distribution of the Project Instructions Manual, implementing a data management system, regular status reviews, and the project deliverables.

b. Schedule Management

A detailed schedule will be constructed for all phases of the project. The initial schedule will include more detail on the early phases of the project and later activities will be scheduled as the project moves forward.

c. Budget Management

A detailed project budget will be constructed at the beginning of the project. Separate budgets will be managed for each project phase, which will be identified in the Client Request for Proposal.

d. Change Management

Changes to the project plan (budget and/or schedule) are expected as the project moves forward and these aspects become more certain. Key aspects of the successful management of these changes include, thorough understanding of project scope by all members of the project team, established and readily accessible means of identifying and recording potential changes, timely and accurate quantification of impacts by the change, and timely modification of the budget and schedule.

D. Cost Control

Ucorr's concern for meeting a project's budgetary requirements is reflected in the cost control procedures and support systems which are established and employed as a standard management and design practice throughout the course of a project

Ucorr will prepare detailed cost estimates identifying specific project task costs. Cost estimates will be prepared using Microsoft Excel. For large projects, Ucorr utilizes Microsoft Project. Ucorr's

estimators and project engineers will develop the cost models that will be used to evaluate the project to ensure that cost-effective and value-derived deliverables are provided to the clients.

Excel will be used to prepare estimates from the conceptual level to bid-ready construction documents with varying labor rates, equipment costs, material costs, etc. This process keeps all team members current with the impact of specific project decisions on the overall project cost. Keeping projected cost/manpower estimates updated is the key to facilitating decisions regarding project scope, materials, and configuration and to keep the project within budget.

Ongoing cost estimating development is necessary to keep projects within budget. This process begins with an agreed upon project scope and the client budget during the initial project phases, and continues throughout all phases of the project. Project Engineers/Team Members, in conjunction with Project Managers, will develop component costs for their portion of the project and integrate the costs into a total project package. The cost packages will then be reviewed by all project participants to consider such factors as initial and life cycle costs, constructability, field logistics, and procurement logistics. This component cost model allows Ucorr to develop a deliverable that will appropriately balance the client's capital expenditure with potential long term maintenance costs.

E. Quality Assurance Audits

Quality Assurance audits are a very important aspect of the QA process. QA audits will be performed on all required projects to assure conformance with the QC procedures. All contractors or sub-contractors / sub-consultants are subject to QA audits. QA audits will be scheduled and performed by Ucorr's designated project managers, if required. Data record printout for timeliness of review, appropriateness of review personnel, and completeness of review information shall be used as a check of adherence to the plan.

APPENDIX A: QUALITY CONTROL REVIEW FORM

QUALITY CONTROL REVIEW FORM

Client:		Date Transmitted:	
Project:		Review Deadline:	
Project No:		Actual Review Date:	
Project Mgr:			
QC Reviewer:		Allocated Hours:	
Document Reviewed:		Actual Hours:	

Project Type/Phase:

Personnel Involved in Review:

Comments:

Comment Response:

Signatures:

QC Reviewer	Date
Project Manager	Date - Response to Comments
QC Reviewer	Date – Resolution Accepted

Instructions:

1. Project Manager fills out QC Review form and transmits to assigned QC Reviewer together with document to be reviewed.
2. After review, QC Reviewer returns reviewed document and completed QC Review form to Project Manager with comments.
3. Project Manager is responsible for reviewing comments, making appropriate changes or notations, and informing QC Reviewer of changes made.
4. QC Reviewer completes form upon resolution of comments.
5. QC Review documentation maintained in project files.

NOTE: ATTACH ADDITIONAL PAGES IF NEEDED

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
City of San Clemente	2019-2025 Annual Cathodic Protection System Testing and Evaluation, Rectifier Upgrades, CP System Design Improvements, & CP System Maintenance/Repairs	San Clemente, CA
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Michael Fakhar	(949) 340-6640 / mfakhar@mbfconsulting.com	380 Avenida Pico, Bldg. N San Clemente, CA 92672
CONTACT TITLE	**CONTACT PROJECT RESPONSIBILITY**	
Project Manager	Oversees all corrosion/cathodic protection-related projects for the City of San Clemente.	
TOTAL COSTS (TO DATE)	**START DATE**	**COMPLETION DATE**
$356,000	December, 2018	Ongoing
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager overseeing all aspects of the project and point of contact for the client. In charge of data analysis and report preparation.	
Siamak Azimie	Provided QA/QC for data analysis, report preparation, and improvement designs.	
Omidreza Moghbeli	Technical lead for data analysis and conclusions as well as improvements and repairs design.	
Carlos Pacheco	Data tabulation and analysis, report preparation, improvement and design drafting.	
Sebastian Borucki	Field foreman, including data collection and repairs/construction efforts.	
Robert Moreno	Data collection, CP System testing, and repairs/construction.	
Dominik Borucki	Data collection/CP system testing.	
Daniel Gallardo	Data collection/CP system testing.	
Nazila Zohadi	Administrative support.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Corrosion Consulting Services, Design services, Field Investigations & Surveys, Repair & Maintenance Services, Construction Support		
DESCRIPTION OF SERVICES		
Completed 3-year annual cathodic protection system testing and evaluation contract with second 3-year contract in progress which included test station locating, inspecting, and surveying including photo-documentation, AC/DC interrupted pipe-to-soil potentials, and submeter GPS coordinates on various sewer, water, and wastewater pipelines, reservoirs, pump stations, and a pier protected by a combination of impressed current and sacrificial cathodic protection system. Pipeline diameters range between 8" and 42", pipeline materials assessed include various classes of ductile iron and steel with recinforced concrete coatings, polyethylene wrap coatings, and fusion bonded epoxy coatings. Performed a close interval potential survey (CIPS), direct current voltage gradient (DCVG) survey, and pipeline current mapping (PCM) survey to assess the existing cathodic protection system, protective coatings, stray current interference and continuity study. Prepared a comprehensive integrity analysis of all facility data including test station, rectifiers, reservoir & pump station test points with submeter GPS. Provided designs for urgent repairs needed due to degraded rectifiers/CP systems and continuity issues included sacrificial and impressed current CP System designs for various reclaimed water pipelines and the pier. Procured and installed necessary material for urgent repairs including rectifier upgrades and continuity repairs. Provided prioritized recommendations to address indications encountered from all survey data and to improve the quality of protection on all the city's facilities. Generate annual geodatabase files to integrate all facility/CP system data into the City's comprehensive GIS program.		

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
Long Beach Water Department (Utilities)	Engineering Consultant Services for the Cathodic Protection Improvement of Water & Recycled Water Systems, Phase 4 and Coating Specification Review	Long Beach, California
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Valeri Karakanov	(562) 570-2331 / Valeri.Karakanov@lbwater.org	1800 E. Wardlow Road Long Beach, CA 90807
CONTACT TITLE	**CONTACT PROJECT RESPONSIBILITY**	
Senior Civil Engineer	Oversees construction projects	
TOTAL COSTS	**START DATE**	**COMPLETION DATE**
$65,000	May, 2017	March, 2020
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Omidreza Moghbeli	Project manager, client manager, design preparation. QA/QC, data, report, design review, and specification review/recommendations.	
Siamak Azimie	Design review, construction support, and cost estimate preparation.	
Ian Budner	Field data analysis, design calculations, design specification/drawing preparation and review of specifications.	
Carlos Pacheco	Field data tabulation, design drawings/drafting.	
Sebastian Borucki	Field data collection and construction cost estimating.	
Nazila Zohadi	Administrative support.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Corrosion Consulting Services, Design Services, Field Investigations & Surveys, Construction Management		
DESCRIPTION OF SERVICES		
Performed assessment of existing corrosion monitoring system for several water/recycled water pipelines including test station survey (pipe-to-soil potentials), photo-documentation, collecting GPS coordinates of all existing CP system facilities, current requirement testing, and soil resistivity measurements. Prepared a preliminary CP system improvements design report including all data analysis to serve as the basis of CP system design. Completed design calculations based on field survey data and prepared design drawings and specifications for CP system improvements. Prepared preliminary construction cost estimate for installation of CP system to implement in a construction bid public bid. Provided construction management/bid assistance during the construction phase. Reviewed various Department coating specifications including Epoxy Protection Coating Systems, Epoxy Linings and Coatings, and Painting and Coating. Provided comments and recommended revisions for improvement of coating specifications.		

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
Coachella Valley Water District through EXARO Technologies Corporation	Coachella Valley Water District – Cathodic Protection System Testing & Improvements Project	Various Cities, Southern California
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Hector Dominguez	(650) 777-4324 / hd@exarotec.com	1831 Bayshore Hwy. Burlingame, CA 94010
CONTACT TITLE	**CONTACT PROJECT RESPONSIBILITY**	
President	Project management for all engineering/construction projects regarding corrosion control/cathodic protection.	
TOTAL COSTS	**START DATE**	**COMPLETION DATE**
$114,000	September, 2022	Ongoing
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager overseeing all aspects of the project and point of contact for the client. In charge of data analysis and report preparation.	
Omidreza Moghbeli	Provide QA/QC for data analysis and report preparation.	
Carlos Pacheco	Data tabulation and analysis and report preparation.	
Sebastian Borucki	In charge of all field activities, including data collection and repairs.	
Robert Moreno	Data collection/field surveys.	
Dominik Borucki	Data collection/field surveys.	
Christie Curran	Administrative support.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Corrosion Consulting Services, Field Investigations & Surveys		
DESCRIPTION OF SERVICES		
Cathodic protection improvements testing and evaluation on various Coachella Valley Water district facilities, including water pipelines, stormwater channels, canal structures, and sheet piling. Testing included native and interrupted structure-to-electrolyte potential readings at all facility test points and test stations, utilizing portable current interrupters where necessary, CP system current source output and performance testing, and continuity & interference testing for pipelines utilizing circulating current method, interrupted potential readings and pipeline mapping current (PCM) method. Prepare a comprehensive report including results, findings, and prioritized recommendations to address indications encountered from all survey data.		

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
World Energy (Paramount Pipeline)	Annual Cathodic Protection Surveys, Over-the-Line Surveys, & Line 3 CP Improvements Design and Installation	Various Cities, Southern California
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Mohsen Ahmadi	(562) 577 1413 / mahmadi@worldenergy.net	14700 Downey Ave. Paramount, CA 90723
CONTACT TITLE	**CONTACT PROJECT RESPONSIBILITY**	
Refinery Strategy Advisor	Oversees all projects related to company assets including refinery facilities and pipelines.	
TOTAL COSTS (TO DATE)	**START DATE**	**COMPLETION DATE**
$1,170,000	September, 2020	Ongoing
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager overseeing all aspects of the project and point of contact for the client. In charge of data analysis, report preparation, improvements designs and drawings.	
Siamak Azimie	Provide QA/QC for improvement designs and drawings.	
Omidreza Moghbeli	Technical lead for data analysis, report preparation, design calculations and design drawings.	
Carlos Pacheco	Data tabulation and analysis. Assist with report preparation. Designed and drafted CP improvements.	
Sebastian Borucki	In charge of all field activities, including data collection and repairs.	
Robert Moreno	Assisted with all field activities, including data collection and repairs.	
Dominik Borucki	Assisted with all field activities, including data collection and repairs.	
Christie Curran	Administrative support.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Corrosion Consulting Services, Design Services, Construction/Construction Support Services, Field Investigations & Surveys		
DESCRIPTION OF SERVICES		
Cathodic protection system testing and evaluation on various reservoirs and pipelines spanning over various cities. Generated a comprehensive facility list complete with inspection photographs and submeter GPS coordinates for all reservoirs test points, test stations, rectifiers, and other facility structures. Testing included native and interrupted structure-to-electrolyte potential readings at all facility test points and test stations, utilizing portable current interrupters where necessary, CP system current sources output and performance, and continuity & interference testing for pipelines utilizing circulating current method, interrupted potential readings and pipeline mapping current (PCM) method. Performed combined close interval potential survey (CIPS) and direct current voltage gradient (DCVG) on multiple product pipelines. Prepare a comprehensive report including results, findings, and prioritized recommendations to address indications encountered from all survey data. Designed and drafted improvements for high priority deficiencies encountered during survey activities. Scheduled to install improvements designed. Assisted with obtaining city/construction permits, and performed DigAlert markings/notifications for anode installation drilling and test hole drilling for over-the-line surveys.		

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
City of Burbank through TerranearPMC	Water Well Casing/Pipeline Impressed Current Cathodic Protection System Evaluation, Design Improvements, and Installations	Burbank, California
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Richard Salazar	(818) 861-7253 / RSalazar@TerranearPMC.com	3200 W. Monterey Avenue Burbank, CA 91505
CONTACT TITLE	**CONTACT RESPONSIBILITY**	
General Manager	Oversees all cathodic protection, corrosion, and integrity-related operations and maintenance for the western region.	
TOTAL COSTS (TO DATE)	**START DATE**	**COMPLETION DATE**
$242,000	October, 2015	Ongoing
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager/client manager overseeing the project. Reviewed design documents and assisted with construction efforts. Completed design calculations and reviewed design drawings/documents for water well casings and associated well piping.	
Reza Moghbeli	Provided data analysis, report preparation, and design services.	
Siamak Azimie	Provided review and QA/QC for design deliverables and field testing/commissioning reports.	
Carlos Pacheco	Assisted with data collection and performed data analysis/report preparation. Design drafting.	
Sebastian Borucki	Field services manager in charge of field logistics/construction management. Material procurement and construction efforts.	
Robert Moreno	Field Services and data collection.	
Dominik Borucki	Field Services and data collection.	
Christie Curran	Administrative services, and safety plans/programs.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Design Services, Construction & Commissioning Services, Corrosion Consulting Services, Field Investigations & Surveys		
DESCRIPTION OF SERVICES		
Performed initial cathodic protection system evaluations of seven water well casings and their associated piping including groundbed resistance testing, baseline structure-to-soil potential testing, on and instant-off structure-to-soil potential testing, and rectifier/anode output measurements. Developed a CP system evaluation report with prioritized recommendations for each of the well casing locations. Developed budgetary cost estimates for future monitoring and improvements of the existing CP systems. Prepared CP system design improvements including design calculations, drawings, and documents for two of the seven water well locations. Assisted the client in obtaining necessary dig-alerts and permits prior to commencing construction activities. Installed CP system improvements for multiple well locations and conducted subsequent testing/adjustments to the newly installed CP systems. Providing continuous bi-annual CP system testing, evaluation, and rectifier adjustments. In process of installing semi-deep impressed current anode groundbeds at one well casing location. Design package already submitted/approved and permitting process in progress.		

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
Marathon Pipe Line LLC	Annual CP System Evaluation and Close Interval Potential Survey/Data Integration for West Coast Pipelines, Berth 121, Amorco Terminal, and Other Fueling Terminals/Tank Farms Cathodic Protection System Evaluation, Design Improvements, & Construction/Construction Management, and MIC Analysis	Various Cities, Southern California, Washington State, and Martinez Refinery, California
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Mikey Seel	(419) 575-8319 / MSeel@marathonpetroleum.com	6 Centerpointe Drive, Bldg. #6, Ste. 500 La Palma, CA 90623
CONTACT TITLE	**CONTACT RESPONSIBILITY**	
Project Engineer	Project engineer overseeing western region cathodic protection projects including CIS/DCVG survey projects and CP system improvements projects.	
TOTAL COST (TO DATE)	**START DATE**	**COMPLETION DATE**
$3,400,000	January, 2015	Ongoing
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager and client manager overseeing all aspects of the project. Performed data analysis and report preparation. Assisted in review of all data analysis and CP system design improvement drawings/documents and preparation of design calculations and design drawings. Attended all client meetings throughout all phases of the projects.	
Omidreza Moghbeli	Technical lead for all data analysis, report preparation, and design work. Attended all client meetings throughout all phases of the projects.	
Siamak Azimie	Provided QA/QC for reports and CP system designs.	
Carlos Pacheco	Performed data tabulation and analysis. Assisted with design calculations. Drafted CP system design improvement drawings/documents.	
Sebastian Borucki	Field services/construction manager in charge of field logistics and data collection. Attended client meetings to discuss design submittals, field services, material procurement, and construction logistics.	
Robert Moreno	Assisted with field surveys, data collection, test hole drilling for over-the-line surveys.	
Daniel Gallardo	Assisted with data collection.	
Dominik Borucki	Assisted with data collection.	
Christie Curran	Coordination of project budgeting and client meetings as well as administrative project support.	

TYPE OF SERVICES PROVIDED

Engineering Services, Corrosion Consulting Services, Field Investigations & Surveys, Construction & Commissioning Services

DESCRIPTION OF SERVICES

Conducted External Corrosion Direct Assessment surveys including Close-Interval Potential Surveys (CIPS), Direct Current Voltage Gradient (DCVG) and Pipeline Current Mapping (PCM) surveys along several oil, gas, and water lines on the West Coast as well as CIPS around the perimeter of several storage tanks to assess the levels of CP for the steel tank bottoms. Collected AC and DC on/instant-off potentials measurements including sub-meter GPS coordinates at all test stations, casings, risers, and insulated flanges and collected outputs at all rectifiers. Performed soil resistivity testing utilizing the Wenner 4-Pin Method. Additionally, performed a complete CP system evaluation for the Berth 121 Tanker Terminal dock support structures as well as land-based structures. Performed data analysis, generated CIS/current mapping charts with GPS overlays, tabulated test station data, and provided a report included all findings and recommendations for their pipeline systems and reservoirs and system design improvements for the Amorco Terminal, Berth 121 Tanker Terminal, and Terminal 2. Managed and completed CP system design improvements based on field observations and all field assessment data described above. Completed several rounds of design submittals including preparations of design documents and drawings and held meetings to discuss/incorporate the client's review comments through each design phase. Assisted with obtaining all necessary permits, one-call utility alerts, and all other necessary notifications. Prepared all material submittals for approved CP system materials required for construction and procured all necessary materials for construction. Performed CP system surveys, designs, construction, commissioning, a follow-up survey work for multiple fueling terminals and tank farms throughout California on both impressed current and sacrificial CP systems. Performed microbiologically induced corrosion analysis on dozens of crude oil, fuel, product, water, and wastewater pipelines.

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
Laguna Beach County Water District	LBCWD 2023 Annual Cathodic Protection System Survey and Aufdenkamp Transmission Electrical Continuity and Interference Investigation	Various Cities in Orange County, California
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Kevin Lussier	(949) 464 3111 / klussier@lbcwd.org	306 Third Street Laguna Beach, CA 92651
CONTACT TITLE	**CONTACT PROJECT RESPONSIBILITY**	
Manager of Operations	Oversees all engineering/construction projects.	
TOTAL COSTS	**START DATE**	**COMPLETION DATE**
2023 Annual Survey: $54,000 ATM Investigation: $24,500	June, 2023 and September, 2023	September, 2023 and May, 2024
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager overseeing all aspects of the project. In charge of data analysis and report preparation.	
Omidreza Moghbeli	Provided QA/QC for data analysis and report preparation.	
Carlos Pacheco	Data tabulation, analysis, and mapping.	
Sebastian Borucki	In charge of field data collection.	
Robert Moreno	Field testing & data collection.	
Dominik Borucki	Field testing & data collection.	
Christie Curran	Administrative support.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Corrosion Consulting Services, Field Investigations & Surveys, Cost Estimates & Improvements Recommendations		
DESCRIPTION OF SERVICES		
Performed a comprehensive cathodic protection survey on the District's subject pipelines and tanks including a 36" concrete cylinder steel water transmission main, various above grade welded steel water storage tanks/reservoirs, a 24"/27" cement mortar lined & coated steel water supply pipeline, and various 8" and 12" water pipelines routing between pressure reducing stations and reservoirs . Collected interrupted potential measurements to assess the performance of existing sacrificial and impressed current cathodic protection systems. Performed interference and electrical continuity studies on a water main. Performed close interval potential survey (CIPS), direct current voltage gradient (DCVG), and pipeline current mapping (PCM) surveys under different conditions to examine the influence of the installed CP system as well as nearby foreign structures and their corresponding CP systems. PCM was also performed to identify current pick up/drop off locations as well as to pin-point pipeline electrical discontinuities. Pinpointed locations of interference for mitigative efforts. Provided tabulated results and analysis as well as prioritized recommendations and budgetary cost estimate for mitigation efforts. Generated submeter CP system maps of all facilities, test points, anodes, rectifiers, etc.		

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
Long Beach Water Department and City of Eureka through GHD Inc.	LBWD Golden Ave Stray Current Project and Eureka South Interceptor Electrical Continuity Investigation Project	Long Beach, CA & Eureka, CA
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Jeff Knauer	(510) 420 3312 / jeff.knauer@ghd.com	6001 Shellmound Street, Suite 850 Emeryville, CA 94608
CONTACT TITLE	**CONTACT PROJECT RESPONSIBILITY**	
Project Engineer	Oversees all engineering/construction projects.	
TOTAL COSTS	**START DATE**	**COMPLETION DATE**
Long Beach Water Department: $45,560 City of Eureka: $28,197	October, 2020 and July, 2021	December, 2020 and July, 2021
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager overseeing all aspects of the project. In charge of data analysis and report preparation.	
Omidreza Moghbeli	Provided QA/QC for data analysis and report preparation.	
Carlos Pacheco	Field data collection, data tabulation and analysis.	
Sebastian Borucki	In charge of field data collection.	
Dominik Borucki	Field testing & data collection.	
Nazila Zohadi	Administrative support.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Corrosion Consulting Services, Field Investigations & Surveys		
DESCRIPTION OF SERVICES		
Performed interference and electrical continuity studies on an 8" ductile iron water main in Long Beach, CA. Collected interrupted potential measurements to assess the performance of existing cathodic protection systems. Performed close interval potential survey (CIPS), direct current voltage gradient (DCVG), and pipeline current mapping (PCM) surveys under different conditions to examine the influence of the installed CP system as well as nearby foreign structures and their corresponding CP systems. PCM was also performed to identify current pick up/drop off locations as well as to pin-point pipeline electrical discontinuities. Pinpointed locations of interference for mitigative efforts. Soil samples were collected for laboratory resistivity/chemical analysis. Submeter GPS was collected during all field activities. Provided tabulated results and analysis as well as prioritized recommendations and budgetary cost estimate for mitigation efforts. Perform electrical continuity testing/investigation of multiple parallel iron force main/interceptor pipelines with polyethylene encasement ranging between 18" and 36" diameter. Various continuity testing techniques employed such as circulating current (linear resistance testing), cell-to-cell surveys, CIS/DCVG surveys, interrupted potential measurements utilizing portable current sources, pipeline current mapping/pipeline locating.		

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
Southern California Gas Company & San Diego Gas & Electric (Sempra Utilities)	As-Needed Cathodic Protection System Evaluation and Internal/External Corrosion Assessment Services for Distribution/Transmission Pipeline Systems	Various Locations Throughout Southern California
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Charles Gepford	(213) 718-7759 / CGepford@socalgas.com	555 West 5th St. Los Angeles, CA 90013
CONTACT TITLE	**CONTACT PROJECT RESPONSIBILITY**	
Charles Gepford – Team Lead-Cathodic Protection Sam Jacobson – Internal Corrosion P.M. Kevin White – Corrosion Integrity Team Lead	Oversee all activities related to internal corrosion, cathodic protection, and transmission pipeline integrity.	
TOTAL COSTS (TO DATE)	**START DATE**	**COMPLETION DATE**
$1,170,000	March, 2015	Ongoing
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager overseeing all aspects of the project. In charge of data analysis and report preparation and was responsible as the client manager.	
Omidreza Moghbeli	Provide QA/QC for data analysis and reporting.	
Carlos Pacheco	Data tabulation/analysis and report preparation.	
Sebastian Borucki	In change of all field activities/data collection.	
Robert Moreno	Assisted with field activities/data collection.	
Dominik Borucki	Assisted with field activities/data collection.	
Christie Curran	Administrative support.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Corrosion Consulting Services, Field Investigations & Surveys		
DESCRIPTION OF SERVICES		
Performing complete assessment of internal/external corrosion monitoring ER probes, UT probes, Field Signature Monitoring (FSM) probes at hundreds of monitoring locations installed on gas pipeline systems throughout Southern California. Performed cathodic protection system evaluations including on/instant-off AC/DC pipe-to-soil potential measurements for pipelines and CP coupon installations throughout southern California. Collected sub-meter GPS information at all monitoring locations. Updating GPS/corrosion monitoring database on a quarterly basis and submitting DOT-compliance reports and a biannual basis. Completed various over-the-line surveys including combined CIS/DCVG and PCM. Perform complete data analysis of all monitoring and cathodic protection locations including prioritized recommendations for CP system improvements and monitoring improvements. Developing internal corrosion/external corrosion monitoring specifications.		

APPENDIX C: DETAILED PROJECT EXPERIENCE & REFERENCES

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
Cucamonga Valley Water District	LMWTP Weir Plate Replacement Project – Professional Metallurgical Consulting Services	Rancho Cucamonga, California
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Eduardo Espinoza Gidti Ludesirishoti	(855) 654-2893 / EduardoE@cvwdwater.com (855) 654-2893 / GidtiL@cvwdwater.com	10440 Ashford Street Rancho Cucamonga, CA 91730
CONTACT TITLE	**CONTACT RESPONSIBILITY**	
Project Engineer	Responsible for overseeing/managing integrity/infrastructure maintenance projects.	
TOTAL COSTS	**START DATE**	**COMPLETION DATE**
$4,000	January, 2021	March 2021
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager/client manager/point-of-contact overseeing the project. Reviewed final deliverables.	
Reza Moghbeli	Provided assessment of existing material, material selection recommendations, and QA/QC for data analysis and report preparation.	
Carlos Pacheco	Assisted with data collection and performed data analysis/report preparation.	
Sebastian Borucki	Field services manager in charge of field services/site assessment.	
Nazila Zohadi	Administrative services.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Material Assessment & Selection Services, Design Services, Corrosion Consulting Services, Field Investigations & Surveys		
DESCRIPTION OF SERVICES		
Performed visual inspection, positive material identification utilized XRF technology of existing 316 stainless steel weir plates isntalled at inlets of flocculation basins at a District water treatment plant to assess degragadtion/corrosion mechanisms. Provided recommendations for replacement materials/hardware to minimize corrosion/deterioration based on water chemical analysis, location, and flow conditions. Provided extensive analysis/recommendations for metallic/non-metallic materials to be utilized for replacements including austenitic stainless steels, duplex stainless steels, compositive fiberglass reinforced polymers and polymers.		

PROJECT OWNER	PROJECT TITLE	PROJECT LOCATION
Olympus Terminals	Water Well Casing/Pipeline Impressed Current Cathodic Protection System Evaluation, Design Improvements, and Installations	Various Cities, Southern California
CONTACT NAME	**CONTACT TELEPHONE NUMBER / EMAIL ADDRESS**	**CONTACT ADDRESS**
Justin Avril	(206) 419-6964 / justin.avril@olympusterminals.com	2365 E Sepulveda Blvd. Long Beach, CA 90810
CONTACT TITLE	**CONTACT RESPONSIBILITY**	
Director HSEC & Projects	Oversees all cathodic protection, corrosion, and integrity-related operations and maintenance.	
TOTAL COSTS (TO DATE)	**START DATE**	**COMPLETION DATE**
$145,000	September, 2023	Ongoing
KEY PERSONNEL	**KEY PERSONNEL RESPONSIBILITIES**	
Ian Budner	Project manager/client manager overseeing the project. Reviewed design documents and assisted with construction efforts. Completed design calculations and reviewed design drawings/documents for water well casings and associated well piping.	
Reza Moghbeli	Provided QA/QC for data analysis, report preparation, and design.	
Siamak Azimie	Reviewed survey reports and design packages for CP system improvements.	
Carlos Pacheco	Assisted with data collection and performed data analysis/report preparation. Design drafting.	
Sebastian Borucki	Field services manager in charge of field logistics/construction management. Material procurement and construction efforts.	
Robert Moreno	Field Services and data collection.	
Dominik Borucki	Field Services and data collection.	
Christie Curran	Administrative services, and safety plans/programs.	
TYPE OF SERVICES PROVIDED		
Engineering Services, Design Services, Construction & Commissioning Services, Corrosion Consulting Services, Field Investigations & Surveys		
DESCRIPTION OF SERVICES		
Perform annual cathodic protection survey project for multiple water and product pipelines, aboveground product storage tanks, and dock pipelines at the Port of Long Beach. Annual survey assessment including inspection/measurement of impressed current rectifiers, sacrificial/impressed current anode output measurements, electrical continuity investigation to determine which pipeline systems are electrical continuous with each other utilizing electromagnetic pipeline current mapping and location techniques as well as interrupted potential measurements, interrupted test station potential measurements, depolarized (native) potential measurements. Measured functionality of electrical isolation devices and outputs/condition of bonds. Performed foreign CP system influence study through coordination with 12+ foreign operators to determine which foreign CP system influence the Olympus pipelines/facilities. Performed internal visual inspection of cut/removed piping sections and assessment of internal coatings/linings. Completed anode groundbed replacement/improvement design package and are in permitting process to perform installation of anode groundbed improvements. Provided analysis of internal corrosion weight loss coupon data/reports.		

Memorandum

To: San Gabriel Valley Municipal Water District Board of Directors

Cc: Darin Kasamoto, General Manager

From: Evelyn Reyes, External Affairs Manager

Date: August 5, 2024

Subject: External Affairs Report

Rebates:

	Rain Barrel	Washing Machines	High-Efficiency Toilets	Waterless Urinals	Smart Controllers	Sprinkler Nozzles	Soil Sensor	Flow Meter Monitor
	$35	$85	$40	$150	Up to $80	$2 – Min. 30	Up to $80	Up to $100
Monthly Total	16	1	1	0	0	0	0	1
FY 23/24 Total	89	49	49	0	13	0	0	8

Irrigation Direct Install Program:

Assessed Properties	1
Waiting Install	0
Total Installed	1

External Affairs meetings/events attended:

- SGVMWD AAPI Media Event
- SGV Water Association Legislative Meeting
- PWAG CET Committee Meeting
- Azusa Concert in the Park
- DWR Water Education Meeting
- Azusa City Council – presentation
- Monterey Park Treatment Plant Dedication
- Meeting with Monterey Park Library
- City of Alhambra National Night Out

Legislative:

Upcoming legislative deadlines:

- August 5 – Legislature returns from Summer recess
- August 31 – Conclusion of the legislative session
- September 30 – Governor's deadline to act on bills
- November 5 – General Election

Below is a summary and status of bills that the District was monitoring or had a stance on during the 2024 Legislative Session.

Bill/Author	Summary	Status
AB 460 (Bauer-Kahan)	Would enhance fees and penalties for illegal diversions of water	Sen. Appropriations Committee
AB 1337 (Wicks)	Would authorize the SWRCB to issue a curtailment order for any diversion under any water year type	Failed passage
AB 1567 (Garcia)	Would place a $15.995 B resources and climate resilience bond on the March 2024 primary election ballot	Failed passage
AB 1798 (Papan)	Would require CalTrans (w/SWRCB) to develop an environmental review process to prevent 6PPD and 6PPD-quinone from entering salmon and steelhead trout-bearing surface waters	Failed passage
AB 2409 (Papan)	Would require OPR to create and maintain a permitting accountability transparency website (dashboard)	Failed passage
SB 366 (Caballero)	Would require DWR to develop long-term water supply planning targets	Assm. Appropriations Committee
SB 867 (Allen)	Places a $10 B climate resilience bond on the November 5, 2024 General Election ballot	Chapter 83, Statutes of 2024
SB 1390 (Caballero)	Would clarify the statutory framework for diversion of flood flows for groundwater recharge	Assm. Appropriations Committee
SB 1330 (Archuleta)	Implements solutions to ensure feasibility with all Urban Water Use Objectives while allowing water suppliers adequate time to plan and prepare without unseen burdens placed on ratepayers.	Assm. Appropriations Committee

A REGULAR MEETING OF
THE MAIN SAN GABRIEL BASIN WATERMASTER
725 NORTH AZUSA AVENUE, AZUSA, CALIFORNIA
AUGUST 7, 2024 AT 2:30 O'CLOCK P.M.

	Agenda	**Action/Notes**
1.	CALL TO ORDER	
2.	PLEDGE OF ALLEGIANCE	
3.	ROLL CALL OF WATERMASTER MEMBERS	
4.	ADOPTION OF AGENDA [1]	
5.	TIME RESERVED FOR PUBLIC COMMENT	
6.	ITEMS REMOVED FROM CONSENT CALENDAR [1]	
7.	CONSENT CALENDAR [1] All items on Consent Calendar may be approved with single action.	
	a) Minutes of a Regular Meeting of Watermaster held July 3, 2024	
	b) Lists of Demands	
	c) Financial Statements, July 2024	
	d) Authorization to attend Association of California Water Agencies Fall Conference, December 3- 5, 2024, in Palm Desert	
8.	A RESOLUTION OF THE MAIN SAN GABRIEL BASIN WATERMASTER ACCEPTING RESIGNATIONS AND NOMINATING SUCCESSORS OF THE CO-TRUSTEES AND MEMBERS OF THE ADMINISTRATIVE COMMITTEE OF THE GOVERNMENTAL EXECUTIVE RETIREMENT PLAN (Resolution No. 08-24-323) [1]	
9.	A RESOLUTION OF THE MAIN SAN GABRIEL BASIN WATERMASTER APPROVING AND ADOPTING RETIRED ANNUITANTS [1]	
	a) Chief Administrative Officer (Resolution No. 08-24-324)	
	b) Controller (Resolution No. 08-24-325)	
10.	REQUEST TO ACCEPT LATE LEASE [1]	
	a) Temporary transfer or lease of 500.00 acre-feet of Carryover Right from Golden State Water Company – San Dimas to Golden State Water Company – San Gabriel for FY 2023-24	
	b) Temporary transfer or lease of 850.00 acre-feet of Production Right from IBY, LLC to Azusa Valley Water Company for FY 2023-24	
11.	ATTORNEY'S REPORT [2]	
12.	ENGINEER'S REPORT [2]	

13. EXECUTIVE OFFICER'S REPORT [2]

14. REPORT FROM RESPONSIBLE AGENCIES [2]

15. REPORT FROM LOS ANGELES COUNTY [2]

16. OUTSIDE COMMITTEE LIAISON REPORTS [2]

17. INFORMATION ITEMS [2]

    a) Temporary assignment or lease of 600.00 acre-feet of Production Right from Covina Irrigating Company to Suburban Water Systems for FY 2023-24

    b) Temporary assignment or lease of 1,024.00 acre-feet of Production Right from County of Los Angeles to San Gabriel Valley Water Company for FY 2023-24

    c) Temporary transfer or lease of 43.36 acre-feet of Production Right from Vulcan Materials Company to City of Azusa for FY 2024-25

    d) Change of Designee for Martin Marietta Southern California Aggregates, LLC to Ted Koerner

    e) Transmittal of San Gabriel Valley Municipal Water District monthly report for June 2024

18. COMMENTS FROM WATERMASTER MEMBERS [2]

19. FUTURE AGENDA ITEMS [1]

    a) Consideration of Extension Agreement for City of El Monte for Producer Cyclic Storage

    b) Public Hearing on September 4, 2024 Regarding Requests for Waivers of Assessments

        i) La Puente Valley County Water District – Puente Valley Operable Unit Intermediate Zone Treatment Facility

        ii) San Gabriel Valley Water Company – B6 Treatment Facility

20. CLOSED SESSION [1]

    a) Executive Officer Performance Evaluation

21. ADJOURNMENT

LEGEND

[1] INDICATES ACTION ANTICIPATED BY WATERMASTER ON THIS ITEM
[2] INDICATES INFORMATION ITEM - NO WATERMASTER ACTION ANTICIPATED

Chair Lynda Noriega Presiding

Memorandum

To: San Gabriel Valley Municipal Water District Board of Directors

From: Darin Kasamoto General Manager

Date: August 1, 2024

Subject: General Manager's Report

1. SWP UPDATE

The Delta Conveyance Project (DCP) Public Draft EIR Comment period has ended. The EIR was certified by DWR on December 18, 2023. There are now ten law suits that have been filed.

DWR will be looking for funding commitments from contractors to keep the DCP planning process going beyond 2025. The district will be asked to consider this once more information is available most likely at September meeting. Due to CEQA lawsuit things are currently on hold for future funding commitments, SWC legal will make recommendations on how to proceed soon.

The State Water Project allocation for 2024 was increased to 40%. Given the 40% allocation SGVMWD will satisfy 100% of its obligations through 2024. We anticipate delivering all of our 2023 and 2024 SWP allocation by the end of this calendar year.

2. MAIN SAN GABRIEL BASIN UPDATE

As of July 26, the Key Well is at 241.2 feet which is 1.7 foot higher than the reading on June 28, 2024 due to imported water deliveries. The historic low is 169.4 feet.

3. GRANT PROGRAM UPDATES

The District, through Steve Bucknam and Hazen and Sawyer is continuously monitoring grant programs which could help fund District and city projects.

The District has applied for a USBR grant to help fund a turf replacement program. The grant would require a 50% match from the District.

The USBR has approved the Districts feasibility study for Monterey Park/Central Basin recycled water connection. This makes the project eligible for potential USBR grant funding. We will follow up with Monterey Park and Central Basin to develop next steps in the process.

4. MANAGEMENT ISSUES

The Letter of Intent for the Regional Recycled Water Project has been approved by all parties. I have had a follow-up with MWD on next steps, and they want to look into use of SGVMWD existing infrastructure to add flexibility to the project. We have sent all of information requested by MWD for them to begin this analysis. The preliminary analysis performed by MWD indicates that it is physically possible to use our pipeline to get water to the treatment plant in La Verne. Stetson Engineers has prepared a white paper on pros and cons of allowing use of district facilities. MWD will provide an update on the project at the August Board Meeting.

RFQ for corrosion engineering services was sent to 5 firms, we have two firms that submitted qualifications. A recommendation to select a Corrosion Engineering firm will be discussed at the August meeting.

February 2024

Strategic Planning Workshop Results - Chronological

SAN GABRIEL VALLEY
MUNICIPAL
WATER DISTRICT
AZUSA | SIERRA MADRE | MONTEREY PARK | ALHAMBRA

Strategic Planning Objectives

- Develop Action Plans
  - Short-term (2024); Long-term (2025+)
- Develop Solutions if Possible
- Identify "Process" or "Steps" toward Solutions
- Review and Update Action Plans Regularly

SAN GABRIEL VALLEY
MUNICIPAL
WATER DISTRICT
AZUSA | SIERRA MADRE | MONTEREY PARK | ALHAMBRA

Mission Statement:

"The San Gabriel Valley Municipal Water District provides reliable supplemental water for the communities of Alhambra, Azusa, Monterey Park and Sierra Madre in a cost-effective and environmentally responsible manner."

Vision Statement:

"A leader in water resource management, the San Gabriel Valley Municipal Water District will provide a diversified and reliable supplemental water supply for the benefit of the communities we serve."

Action Plan (2024 - Q1/Q2)

OPERATIONS AND INFRASTRUCTURE

- Schedule tours of District and County facilities for Board Members as background for Pipeline Rehabilitation program and consideration of *Pure Water Southern California* program (Board/Staff). Completed tour with legislative members, 2 District directors attended tour, and a third joined for luncheon. Future tours will be added.
- Complete Schedule 1 "Pilot" and assess results. Xylem is finalizing report estimated completion 8/2024
- Develop preliminary timeline for Schedules 2-6 of Pipeline Rehabilitation Project. This will be done once corrosion engineer is onboard
- Identify "Corrosion Engineer" to review/input into Schedules 1-6 Cost Estimates and to protect the Pipeline in the future. RFQ was sent out on July 1, award date will be Aug. 12
    - Identify financial consultant to assist with Replacement Cost Analysis. Not started

Action Plan (2024 - Q1/Q2)

CURRENT AND FUTURE REVENUE

- Consensus was achieved to maintain the current property rate of $.03 per $100 assessed value for the short-term. August Board Meeting
- Consensus was achieved to adopt a $240 per AF water rate for member cities in April 2024 as that level keeps the District "in the black" and was the forecasted rate provided to member cities a year ago. Completed
- The General Manager was requested to provide a forecasted water rate for 2025 in April 2024 (utilizing average rate increases over 10 years), and to also provide a longer-term, three-year forecast (qualifying those forecasts by noting sensitivity to energy costs, etc.). There is unanimous concern among Board members that cost increases are becoming so common/certain that water rate increases should reflect and anticipate those increases short/long-term. Completed
- The General Manager will provide the Board with information about sources of emergency funds, such as *Federal Emergency Management Agency* (FEMA) and the *Ibank*, that would supplement the use of reserves in the event of a catastrophic event. Completed
- The General Manager and Assistant General Manager will research and share with the Board what SGVMWD insurance covers if there is a catastrophic event or pipeline failure. Completed
- Consensus was achieved that consulting costs, and potentially employee costs, related to financial, engineering, operations, and legal matters will increase in conjunction with Pipeline Rehabilitation and review/analysis of the *Pure Water Southern California Project* (PWSC). The District must budget for such costs. Completed
- The General Manager was requested to get an update from MWD about the *Pure Water Southern California* Project as it has been nearly a year since MWD signaled its potential interest in utilizing SGVMWD facilities. MWD will provide update at August meeting

Action Plan (2024 - Q1/Q2)

CURRENT AND FUTURE REVENUE

- Consensus exists that the long-term nature of several looming projects and potential cost increases may impact needed staffing levels and staffing expertise (due to both volume and nature of the work, and potential staff retirements). A suggestion to consider a "Chief Financial Officer" was discussed but not acted upon and may be revisited at an undisclosed future date.
- The District will offer a "Cost Workshop" (in-person or virtual) annually to member cities to further explain rate and cost factors. Not started, will have as part of a future board meeting

Action Plan (2024 - Q1/Q2)

MEMBER CITY RELATIONS

- Efforts should increase to meet regularly with the Mayor, City Council members, City Manager and Public Works/Water Utility staff in each member city. External Affairs staff will assist Board members in preparing and offering a brief, annual "State of the District" presentation to each of the District's member cities during May/Water Awareness Month, with that presentation also available to school boards, chambers of commerce, and other community/non-profit organizations. Ongoing
- The District will continue to attend and present updates at City Council meetings (e.g. "State of the City" meetings), support important community events, and provide information about water issues and conservation. Ongoing
- The District will offer tours of important District and San Gabriel Basin water facilities to both City Council members and key City staff to foster greater understanding of the District's water supply role. Ongoing, met with Monterey Park City Manager and staff in May, the District made presentation at City of Azusa Utilities Board Meeting in July
- The District will increase its messaging related to water costs and infrastructure to complement its strong messaging about conservation. Ongoing
- Consensus was achieved to develop a written policy that articulates how the District may provide financial support in the form of grants and loans to Member Cities. The External Affairs Manager and District Counsel will draft a "policy" to share with Member Cities to help clarify and guide the process of District financial support. completed
- The Board will address Monterey Park's request of a $10 million loan for new meter reading equipment. completed

Action Plan (2024 - Q1/Q2)

WATER SUPPLY SOLUTIONS - IMPORTED

- Consensus was achieved that the District, along with other State Water Contractors, supports the *Delta Conveyance Project*. In line with that support, the District awaits decisions by key players such as Metropolitan Water District, which is conducting its own cost/benefit analysis of the Project, and the Department of Water Resources, which is expected to request "bridge/gap funding" for the Project between March and June of this year. At that time, the Board will convene and discuss the District's future role and support of the Project. A presentation by State Water Project Inc. outreach consultants was made at the July board meeting. Following this presentation the District will consider continuation of funding for planning and engineering funding beginning in January 2026. This action should occur at the September meeting.
- While banking water is very expensive, the Board expressed interest in following and possibly participating in potential new "water banking" opportunities in both northern California and the Main San Gabriel Basin. The Dudley Ridge banking agreement is in place, but the District has yet to bank water in that manner. The Board also wants to track spreading grounds opportunities in the Main San Gabriel Basin being pursued by Watermaster such as the use of local pits and quarries to help get water in the ground. Spreading ground capacity may reach its limit if *Pure Water Southern California* proceeds and produces 65,000 AF/year. Ongoing
- Continually explore strategies to improve ability to get both imported and local water sources "into the ground" by reducing over-capacity and congestion/bottlenecks within the delivery system; participate with DWR on SWP bottleneck improvements. Ongoing

Action Plan (2024 - Q1/Q2)

WATER SUPPLY SOLUTIONS – LOCAL

- The General Manager should follow-up regularly with MWD about its interest in involving SGVMWD infrastructure in the *Pure Water Southern California (PWSC)* Project and update the Board. MWD is scheduled to provide update at the August Board Meeting
- The District should request a presentation from MWD to the Board about PWSC at an upcoming Board meeting. August meeting
- Arrange a presentation from Stetson to the Board about its analysis of the PWSC Project for SGVMWD. Completed
- Arrange tours of PWSC for SGVMWD Board and Staff. Ongoing, some Directors and staff have attended recent tours
- Decide which consulting resources would be needed and when to evaluate the MWD proposal for SGVMWD in the PWSC Project – financial consultant, engineering consultant, negotiating consultant, etc. Will begin, if necessary, after we receive update from MWD in August
- While banking water is very expensive, the Board expressed interest in following and possibly participating in potential new "water banking" opportunities in both northern California and the Main San Gabriel Basin. The Dudley Ridge banking agreement is in place, but the District has yet to bank water in that manner. The Board also wants to track spreading grounds opportunities in the Main San Gabriel Basin being pursued by Watermaster such as the use of local pits and quarries to help get water in the ground. Spreading ground capacity may reach its limit if *Pure Water Southern California* proceeds and produces 65,000 AF/year. Met with Watermaster, Upper District, Three Valleys in May to discuss potential opportunities with abandoned gravel pits, also possible use of Santa Fe Dam to increase recharge efforts. Will continue to monitor and participate in these activities.

Action Plan (2024 - Q1/Q2)

WATER SUPPLY SOLUTIONS – LOCAL

- The General Manager should follow-up with Sean Igoe and Frank Heldman in Monterey Park regarding the status of interest in and funding for the recycled water project that would potentially serve Monterey Park and Alhambra. Not started due to current uncertainty of Central Basin staff
- The General Manager should follow-up with Central Basin to see if the opportunity for a recycled water project is still feasible. Not started due to staff issues at Central Basin
- The District should pursue future grant funding opportunities through Federal and State grant programs. Applied for Bureau of Reclamation grant for turf rebate program
- Continually explore strategies to improve ability to get both imported and local water sources "into the ground" by reducing over-capacity and congestion/bottlenecks within the delivery system; participate with DWR on SWP bottleneck improvements. Ongoing, participate in East Branch enlargement work groups, also participate in subsidence remedies work groups

Action Plan (2024 - Q1/Q2)

EXTERNAL AFFAIRS

- Increase and blend in messaging about costs, water scarcity and infrastructure to all audiences. Ongoing
- Research potential new rebate items for inclusion in the rebate program. Completed research, nothing to recommend at this time. Will continue to monitor
- Pursue grant from Bureau of Reclamation for 50% matching grant for turf replacement conservation programs. Applied
- Obtain update from California Advocates and Dennis Albiani about potential November 2024 Water Bond and communicate to Board. If on the ballot, develop communications plan to provide information, not advocacy, about the Bond. Discussed during April legislative trip, will be brought to the board in September
- The District should determine its future role within the Water Forum Partner group and consider leading efforts to determine go/no go on smaller, targeted Water Forum events throughout the year. Will discuss at next partners meeting
- Funds contributed by 2020 Water Forum sponsors remain in District accounts. The use or return of the funds should be determined as soon as possible. Will discuss at next partners meeting
- Staff should finalize, distribute and regularly update a 12-month outreach calendar for the Board. Distributed at June Board meeting, will be updated as needed
- The District should participate in a February 2024 tour for legislators in conjunction with the Assembly Water, Parks and Wildlife Committee. Completed
- The District should plan and conduct tours periodically during the year for local elected officials and community leaders. Ongoing, District participated in tour with Upper District and local legislators in March, future events will be planned
- Staff should draft budget and external affairs/outreach plan for 2024-2025 fiscal year and present to Board. Completed

Action Plan (2024 – Q3/Q4)

MEMBER CITY RELATIONS

- The District will continue to attend and present updates at City Council meetings (e.g. "State of the City" meetings), support important community events, and provide information about water issues and conservation. Ongoing
- The District will offer tours of important District and San Gabriel Basin water facilities to both City Council members and key City staff to foster greater understanding of the District's water supply role. Ongoing, had several council members at Asian Media briefing in July
- The District will increase its messaging related to water costs and infrastructure to complement its strong messaging about conservation. Ongoing, messaging will be included in Annual Report

Action Plan (2024 – Q3/Q4)

WATER SUPPLY SOLUTIONS - IMPORTED

- Consensus was achieved that the District, along with other State Water Contractors, supports the *Delta Conveyance Project*. In line with that support, the District awaits decisions by key players such as Metropolitan Water District, which is conducting its own cost/benefit analysis of the Project, and the Department of Water Resources, which is expected to request "bridge/gap funding" for the Project between March and June of this year. At that time, the Board will convene and discuss the District's future role and support of the Project. Will be discussed at September board meeting
- While banking water is very expensive, the Board expressed interest in following and possibly participating in potential new "water banking" opportunities in both northern California and the Main San Gabriel Basin. The Dudley Ridge banking agreement is in place, but the District has yet to bank water in that manner. The Board also wants to track spreading grounds opportunities in the Main San Gabriel Basin being pursued by Watermaster such as the use of local pits and quarries to help get water in the ground. Spreading ground capacity may reach its limit if *Pure Water Southern California* proceeds and produces 65,000 AF/year. Met with Watermaster, Upper District, and Three valleys to explore potential expansion of recharge opportunities in the basin, will update on any progress
- Continually explore strategies to improve ability to get both imported and local water sources "into the ground" by reducing over-capacity and congestion/bottlenecks within the delivery system; participate with DWR on SWP bottleneck improvements. East Branch Enlargement and subsidence issues are biggest items. Will continue to participate in these workgroups

Action Plan (2024 – Q3/Q4)

WATER SUPPLY SOLUTIONS – LOCAL

- The General Manager should follow-up regularly with MWD about its interest in involving SGVMWD infrastructure in the *Pure Water Southern California (PWSC)* Project and update the Board. August Board meeting will be first discussion with MWD
- Develop a firmer timeline about which consulting resources would be needed and when to evaluate the MWD proposal for SGVMWD in the PWSC Project – financial consultant, engineering consultant, negotiating consultant, etc. Waiting for clarification from MWD on their intentions
- If the *Pure Water Southern California* project remains viable, and once relevant studies are completed, the Board needs to reach consensus on the District's role in the Project and develop a comprehensive communications plan to inform member cities and other key stakeholders about the District's potential involvement in the Project. Not started
- While banking water is very expensive, the Board expressed interest in following and possibly participating in potential new "water banking" opportunities in both northern California and the Main San Gabriel Basin. The Dudley Ridge banking agreement is in place, but the District has yet to bank water in that manner. The Board also wants to track spreading grounds opportunities in the Main San Gabriel Basin being pursued by Watermaster such as the use of local pits and quarries to help get water in the ground. Spreading ground capacity may reach its limit if *Pure Water Southern California* proceeds and produces 65,000 AF/year. ongoing
- Continually explore strategies to improve ability to get both imported and local water sources "into the ground" by reducing over-capacity and congestion/bottlenecks within the delivery system; participate with DWR on SWP bottleneck improvements. ongoing
- The District should pursue future grant funding opportunities through Federal and State grant programs. Will continue to monitor for grant opportunities

Action Plan (2024 – Q3/Q4)

EXTERNAL AFFAIRS

- Increase and blend in messaging about costs, water scarcity and infrastructure to all audiences. ongoing
- Research potential new rebate items for inclusion in the rebate program. Completed research nothing to recommend at this time
- If funded, implement grant from Bureau of Reclamation for 50% matching grant for turf replacement conservation programs. Have not received status of grant application
- If Water Bond is on November 2024 ballot, develop communications plan to provide information, not advocacy, about the Bond. Will discuss at September meeting
- The District should determine its future role within the Water Forum Partner group and lead efforts to determine go/no go on smaller, targeted events throughout the year. Will discuss at future partners meeting
- Staff should regularly update a 12-month outreach calendar for the Board. Ongoing
- The District should plan and conduct tours periodically during the year for local elected officials and community leaders. onging

Memorandum

To: San Gabriel Valley Municipal Water District Board of Directors

From: Steve Kiggins, Assistant General Manager

Cc: Darin Kasamoto, General Manager

Date: August 7, 2024

Subject: Assistant General Manager's Report

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1. July 2024 deliveries: 3,402 AF to SGVMWD cyclic storage, including 1,037 AF to Covina Irrigating Company on behalf of Three Valleys Municipal Water District. The last of the 2023 Carryover water was delivered on August 4th. Table A Allocation CY 2024: 40% / 11,520 AF.

2. Total deliveries to cyclic storage CY 2024: 14,060 AF. Cyclic storage balance as of June 30, 2024: 2,570.52 AF. The amount of water banked on behalf of Dudley Ridge Water District is 14,209 AF.

3. Water delivery forecast: The pipeline's 55 CFS capacity will be maximized for the remainder of the calendar year. The balance of 2024's Table A Allocation should be delivered around mid-November.

5. Project Updates:

   A. DCAP SCH I PIPELINE CONTINUITY BONDING, CORROSION ASSESSMENT VALIDATION, AND CATHODIC SYSTEM DESIGN: Construction is complete, and the pipeline is in service. The updated Failure Risk Evaluation and Repair Prioritization Report is expected soon. T.E. Roberts has ordered replacement "SGVMWD" manhole covers and rings to replace District stock used during construction.

   B. HYDROELECTRIC FACILITY 24" BUTTERFLY VALVE REPLACEMENT: The valve is installed, and paving was completed on July 28th. The District purchased a replacement relay-controlled Auma valve actuator (Delivered 3/6/24). The contractor installed the actuator, but the electrician and Auma factory representative could not get it to function correctly. District staff is in the process of tracing and verifying all conductors before the Auma representative returns.

   C. STANDBY GENERATOR REPLACEMENT PROJECT: A Request for Proposals has been issued. The bid proposal due date was extended to August 15th. A contract award recommendation is expected for the September Board meeting.

6. Assistant General Manager meetings and activities:

   A. Attended Chinese-Language Media Briefing in Monterey Park

   B. Generator Replacement Project Prebid job walk

   C. Met with Verizon Business representatives and SoCal SCADA Solutions for SCADA private network options due to the discontinuation of existing wired network technology

   D. Attended Groundwater Replenishment Coordinating Group meeting (Teams)

   E. Attended webinars: "Digital Twins for Emergency Management" and "Water Sector Cyber Resiliency"

   F. Attended the Monterey Park Centralized Groundwater Treatment System (CGTS) Ribbon-Cutting Ceremony

   G. Attended The Main San Gabriel Basin Watermaster meeting

   H. Weekly DWR / SWC Operations Update meetings (Teams)