



Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

Notice and Agenda of a Regular Meeting of the Board of Directors

Tuesday, October 15, 2019 at 6:00 p.m.

- I. **CALL TO ORDER** - Pledge of Allegiance
- II. **ROLL CALL**
- III. **PUBLIC COMMENTS** - At this time, members of the public may address the Board of Directors on matters within its jurisdiction. To provide comments on specific agenda items, please complete a speaker's request form and provide the completed form to the Board Secretary prior to the board meeting.
- IV. **CONSENT CALENDAR** - All consent calendar matters are routine and will be acted upon in one motion. There will be no discussion of these items unless board members, administrative staff, or members of the public request specific items to be discussed and/or removed prior to the vote for approval.
 - A. Minutes of Meetings
 - 1. Regular Board Meeting - October 1, 2019
 - 2. Board Workshop - October 8, 2019
 - B. Administrative Items
 - 1. Ratify General Expenses for August 2019
 - 2. Ratify General Expenses for September 2019
- V. **STAFF REPORT**
- VI. **DISCUSSION ITEMS**
 - A. Ratification of Professional Services Contract and Related Equipment for Monitoring Groundwater Levels at the Wilson Creek Basin and Oak Glen Creek Basin [[Director Memorandum No. 19-111 - Page 23 of 76](#)]
RECOMMENDED ACTION: That the Board ratify the Professional Services Contract with Geoscience for a sum not to exceed \$15,686.
 - B. Consideration of Cyber Liability Insurance Proposal from Alliant [[Director Memorandum No. 19-112 - Page 28 of 76](#)]
RECOMMENDED ACTION: That the Board authorize the General Manager to execute the necessary contracts with Alliant Insurance Services for cyber liability insurance.

Any person who requires accommodation to participate in this meeting should contact the District office at (909) 797-5117, at least 48 hours prior to the meeting to request a disability-related modification or accommodation.

Materials that are provided to the Board of Directors after the meeting packet is compiled and distributed will be made available for public review during normal business hours at the District office located at 12770 Second Street, Yucaipa. Meeting materials are also available on the District's website at www.yvwd.dst.ca.us

- C. Consideration of a Workers' Compensation Insurance Policy [[Director Memorandum No. 19-113 - Page 46 of 76](#)]
 RECOMMENDED ACTION: That the Board authorize the General Manager to execute the necessary contracts with Redwood F&C Berkshire Hathaway for workers' compensation insurance.
- D. Authorization to Solicit Bids for the Replacement of the Drinking Water Reservoir R16.6 - Calimesa [[Director Memorandum No. 19-114 - Page 49 of 76](#)]
 RECOMMENDED ACTION: That the Board authorize the General Manager to solicit bids for the replacement of the Drinking Water Reservoir R-16.6.
- E. Consideration of Resolution No. 2019-20 Approving the Notice of Exemption for the Replacement of Drinking Water Reservoir R-16.6 [[Director Memorandum No. 19-115 - Page 52 of 76](#)]
 RECOMMENDED ACTION: That the Board adopt Resolution No. 2019-20.
- F. Authorization to Purchase Temporary Portable Tanks for Use During the Replacement of Drinking Water Reservoir R-16.6 [[Director Memorandum No. 19-116 - Page 55 of 76](#)]
 RECOMMENDED ACTION: That the Board authorize the General Manager to purchase temporary portable tanks for use during the replacement of Drinking Water Reservoir R-16.6.
- G. Status Report on the Geotechnical Investigation for the Artificial Groundwater Recharge Project in the Beaumont Groundwater Basin [[Director Memorandum No. 19-117 - Page 57 of 76](#)]
 RECOMMENDED ACTION: Pending
- H. Authorization to Construct a Dais, Desk and Podium in the Boardroom [[Director Memorandum No. 19-118 - Page 62 of 76](#)]
 RECOMMENDED ACTION: That the Board authorize the General Manager to execute the proposal with Doc's Woodshop for a sum not to exceed \$15,628.

VII. BOARD REPORTS & DIRECTOR COMMENTS

VIII. ANNOUNCEMENTS

- A. October 29, 2019 at 4:00 p.m. - Board Workshop
- B. November 5, 2019 at 6:00 p.m. - Board Meeting
- C. November 12, 2019 at 4:00 p.m. - Board Workshop
- D. November 19, 2019 at 6:00 p.m. - Board Meeting
- E. November 26, 2019 at 4:00 p.m. - Board Workshop
- F. December 3, 2019 at 6:00 p.m. - Board Meeting
- G. December 10, 2019 at 4:00 p.m. - Board Workshop
- H. December 17, 2019 at 6:00 p.m. - Board Meeting
- I. **December 31, 2019 at 4:00 p.m. - Board Workshop - Cancelled**
- J. **January 7, 2020 at 6:00 p.m. - Board Meeting - Cancelled**
- K. January 14, 2020 at 4:00 p.m. - Board Workshop
- L. January 21, 2020 at 6:00 p.m. - Board Meeting
- M. January 28, 2020 at 4:00 p.m. - Board Workshop

IX. Closed Session

- A. Conference with Legal Counsel - Anticipated Litigation (Government Code 54956.9) - Two Cases

X. ADJOURNMENT

Consent Calendar



Yucaipa Valley Water District

MINUTES OF A REGULAR BOARD MEETING

October 1, 2019 at 6:00 P.M.

Directors Present:

Chris Mann, President
Bruce Granlund, Vice President
Jay Bogh, Director
Lonni Granlund, Director
Joyce McIntire, Director

Staff Present:

Jennifer Ares, Water Resource Manager
Allison Edmisten, Chief Financial Officer
Kathryn Hallberg, Implementation Manager
Matthew Porras, Implementation Manager
Frank Scalfani, Intern
John Wrobel, Operations Manager

Directors Absent:

None

Consulting Staff Present:

David Wysocki, Legal Counsel

Registered Guests and Others Present:

Harvey Cohen, Customer

CALL TO ORDER

The regular meeting of the Board of Directors of the Yucaipa Valley Water District was called to order by Chris Mann at 6:00 p.m. at the Administrative Office Building, 12770 Second Street, Yucaipa, California.

FLAG SALUTE

Director Chris Mann led the pledge of allegiance.

ROLL CALL

The roll was called with Director Jay Bogh, Director Bruce Granlund, Director Lonni Granlund, Director Chris Mann, and Director Joyce McIntire present.

PUBLIC COMMENTS

Customer Harvey Cohen discussed his concerns regarding the boil water notice sent to customers on the North Bench on Saturday, September 28, 2019.

CONSENT CALENDAR

Director Lonni Granlund moved to approve the consent calendar and Director Bruce Granlund seconded the motion.

A. Minutes of Meetings

1. Regular Board Meeting - September 17, 2019
2. Board Workshop - September 24, 2019

The motion was approved by the following vote:

Director Jay Bogh - Yes
Director Bruce Granlund - Yes
Director Lonni Granlund - Yes

Director Chris Mann - Yes
Director Joyce McIntire - Yes

STAFF REPORT

Chief Financial Officer Allison Edmisten discussed the following items:

- The meeting material included the distribution of a letter from the United States Environmental Protection Agency to California Governor Gavin Newsom.
- An article was distributed about Lake Mission Viejo that operates a recycled water treatment processes similar to the District.
- The Beaumont Basin Watermaster will be meeting on Wednesday, October 2, 2019.

DISCUSSION ITEMS:

DM 19-108

CONSIDERATION OF
CHANGE ORDER NO. 1
AND FILING OF A
NOTICE OF
COMPLETION FOR THE
CONSTRUCTION OF
WILDWOOD CANYON
ROAD SEWER PIPELINE
– YUCAIPA

Implementation Manager Matthew Porras discussed Change Order No. 1 and Filing of a Notice of Completion for the Wildwood Canyon Road Sewer Pipeline Project.

Director Lonni Granlund moved that the Board authorize the General Manager to execute Change Order No.1 and file the Notice of Completion for the Wildwood Canyon Road Sewer Pipeline Project.

Director Bruce Granlund seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Yes
Director Bruce Granlund - Yes
Director Lonni Granlund - Yes
Director Chris Mann - Yes
Director Joyce McIntire - Yes

DM 19-109

CONSIDERATION OF
RESOLUTION NO. 2019-
19 ADOPTING THE
STANDARD
SPECIFICATIONS FOR
THE DESIGN AND
PROCESSING,
FURNISHING OF
MATERIAL, AND
CONSTRUCTION OF

Implementation Manager Matthew Porras discussed Resolution No. 2019-19 Adopting the Standard Specifications for the Design and Processing, Furnishing of Material, and Construction of Drinking Water, Recycled Water and Sewer Facilities.

Director Jay Bogh moved that the Board adopt Resolution No. 2019-19.

Director Bruce Granlund seconded the motion.

The motion was approved by the following vote:

DRINKING WATER,
RECYCLED WATER AND
SEWER FACILITIES

Director Jay Bogh - Yes
Director Bruce Granlund - Yes
Director Lonni Granlund - Yes
Director Chris Mann - Yes
Director Joyce McIntire - Yes

DM 19-110

APPOINTMENT OF AN
AD HOC COMMITTEE
FOR POLICY
COLLABORATION AND
RESOLUTION OF
INSTITUTIONAL
CONSTRAINTS
BETWEEN SAN
BERNARDINO VALLEY
MUNICIPAL WATER
DISTRICT, SAN
GORGONIO PASS
WATER AGENCY, AND
THE YUCAIPA VALLEY
WATER DISTRICT

Chief Financial Officer Allison Edmisten discussed the appointment of an Ad Hoc Committee for the purpose of policy collaboration and resolution of institutional constraints between the San Bernardino Valley Municipal Water District, San Gorgonio Pass Water Agency, and the Yucaipa Valley Water District.

Director Bruce Granlund moved that Director Chris Mann and Director Lonni Granlund be appointed to the Ad Hoc Committee for Policy Collaboration and Resolution of Institutional Constraints between San Bernardino Valley Municipal Water District, San Gorgonio Pass Water Agency, and the Yucaipa Valley Water District.

Director Joyce McIntire seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Yes
Director Bruce Granlund - Yes
Director Lonni Granlund - Yes
Director Chris Mann - Yes
Director Joyce McIntire - Yes

BOARD REPORTS AND
DIRECTOR COMMENTS

Director Bruce Granlund, Director Lonni Granlund, Director Chris Mann, and Director Joyce McIntire reported on the San Bernardino Valley Municipal Water District, San Gorgonio Pass Water Agency, and the Yucaipa Valley Water District joint meeting held on September 25, 2019.

Director Bruce Granlund, Director Lonni Granlund, and Director Joyce McIntire reported on the State of the City Luncheon for the City of Calimesa held on September 19, 2019.

ANNOUNCEMENTS

Director Chris Mann called attention to the announcements listed on the agenda.

CLOSED SESSION

Director Jay Bogh, Director Bruce Granlund, Director Lonni Granlund, Director Chris Mann, and Director Joyce McIntire were present in closed session with Legal Counsel David

Wysocki, and Chief Financial Officer Allison Edmisten to discuss the following item.

B. Conference with Legal Counsel - Anticipated Litigation
(Government Code 54956.9) - Two Cases

After reconvening out of closed session, Legal Counsel David Wysocki reported that direction was provided to the General Manager and that there were no other reportable actions taken.

ADJOURNMENT

The meeting was adjourned at 6:20 p.m.

Respectfully submitted,

Joseph B. Zoba, Secretary

(Seal)

MINUTES OF A BOARD WORKSHOP

October 8, 2019 at 4:00 P.M.

Directors Present:

Chris Mann, President
Bruce Granlund, Vice President
Lonni Granlund, Director
Joyce McIntire, Director

Staff Present:

Jennifer Ares, Water Resource Manager
Madeline Blua, Water Resource Specialist
Allison Edmisten, Chief Financial Officer
Chelsie Fogus, Engineering Technician I
Ashley Gibson, Regulatory Compliance Manager
Kathryn Hallberg, Implementation Manager
Dustin Hochreiter, Senior Engineering Technician
Mike Kostelecky, Operations Manager
Tim Mackamul, Operations Manager
Matt Porras, Implementation Manager
Mike Rivera, Public Works Supervisor
John Wrobel, Public Works Manager
Joseph Zoba, General Manager

Directors Absent:

Jay Bogh, Director

Consulting Staff Present:

David Wysocki, Legal Counsel

Guests and Others Present:

Paul Kielhold, San Bernardino Valley Municipal Water District
John Ohanian, Oak Valley Partners
Leonard Stephenson, San Gorgonio Pass Water Agency

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- I. Call to Order - 4:00 p.m. - The workshop of the Board of Directors of the Yucaipa Valley Water District was called to order by Chris Mann at 4:00 p.m. at the Administrative Office Building, 12770 Second Street, Yucaipa, California.
 - II. Public Comments
None
 - III. Staff Report - General Manager Joseph Zoba presented information on the following topics:
 - Conceptual drawings of the proposed dais were briefly discussed. The drawings and cost information will be presented at the board meeting scheduled for October 15, 2019.
 - A meeting of the San Bernardino Valley Municipal Water District Advisory Commission on Water Policy will be held on October 10, 2019 at 6:30 pm.
 - The Yucaipa Valley Water District has scheduled a Community Meeting for Wednesday, October 16, 2019 at 6:00 pm to discuss various water issues.
 - IV. Presentation
 - A. Overview of the America's Water Infrastructure Act - Risk Assessments and Emergency Response Plans [Workshop Memorandum No. 19-209] - General

Manager Joseph Zoba provided an overview of the Water Infrastructure Act requirements.

V. Operational Updates

- A. Status Report on the Installation of Replacement Lamps for the Ultraviolet Disinfection Process at the Wochholz Regional Water Recycling Facility [Workshop Memorandum No. 19-210] - Operations Manager Tim Mackamul provided a status report of the UV lamp replacement at the Wochholz Regional Water Recycling Facility.
- B. Overview of Professional Services Contract for Equipping Wells with Piezometers and Data Logging Equipment [Workshop Memorandum No. 19-211] - Water Resource Manager Jennifer Ares provided information about the installation of groundwater monitoring equipment in the Wilson Creek Spreading Basin and the Oak Glen Creek Spreading Basin.

VI. Capital Improvement Projects

- A. Status Report on the Improvements to the Primary Clarifiers at the Wochholz Regional Water Recycling Facility [Workshop Memorandum No. 19-212] - Operations Manager Tim Mackamul provided information about the coating and equipment upgrades for the primary clarifiers.
- B. Authorization to Solicit Bids for the Replacement of the Drinking Water Reservoir R-16.6 - Calimesa [Workshop Memorandum No. 19-213] - Implementation Manager Matt Porras provided information about the plans to replace Drinking Water Reservoir R-16.6.
- C. Status Report on the Geotechnical Investigation for the Artificial Groundwater Recharge Project in the Beaumont Groundwater Basin [Workshop Memorandum No. 19-214] - General Manager Joseph Zoba provided information about the geological study for artificial groundwater recharge in the Calimesa area.

VII. Administrative Issues

- A. Overview of Cyber Liability Insurance for the Yucaipa Valley Water District [Workshop Memorandum No. 19-215] - Implementation Manager Kathryn Hallberg provided a proposal for cyber liability insurance.
- B. Review of the Workers' Compensation Insurance Policy for 2019-2020 [Workshop Memorandum No. 19-216] - Implementation Manager Kathryn Hallberg provided a proposal for workers' compensation insurance.
- C. Overview of the Draft Financial Rate Model for the Drinking Water, Sewer, and Recycled Water Enterprises [Workshop Memorandum No. 19-217] - General Manager Joseph Zoba reviewed a proposed schedule for the implementation of the Comprehensive Financial Rate Model.
- D. Discussion Regarding the Conversion from a Weekly Utility Billing Workflow to a Monthly Utility Billing Workflow [Workshop Memorandum No. 19-218] - Chief Financial Officer Allison Edmisten discussed the consolidation of the current weekly utility billing workflow to a single monthly process.
- E. Review of Cost Accounting Methodology for the Yucaipa Valley Regional Brineline – Mountain View Power Plant [Workshop Memorandum No. 19-219] - Chief Financial Officer Allison Edmisten and Public Works Manager John Wrobel provided a summary of the billing methodology for the Mountain View Power Plant.

VIII. Director Comments

None

IX. Announcements - The future meetings were referenced on the workshop agenda.

X. Closed Session

None

XI. Adjournment - The meeting was adjourned at 5:20 p.m.

Respectfully submitted,

Joseph B. Zoba, Secretary

Check Register - August 2019

Check Date	Check Number	Payee	Amount
08/01/2019	35175	California State Disbursement Unit	\$ 697.37
08/01/2019	35176	IBEW Local #1436	\$ 580.00
08/01/2019	35177	Wage Works	\$ 1,340.00
08/01/2019	35178	Aflac	\$ 3,019.68
08/01/2019	35179	Blue Shield of California	\$ 3,662.00
08/01/2019	35180	Nippon Life Insurance	\$ 2,795.33
08/01/2019	35181	Standard Dental Insurance Co	\$ 1,552.24
08/01/2019	35182	Standard Insurance	\$ 294.20
08/01/2019	35183	Western Dental Services Inc	\$ 502.32
08/07/2019	35184	ADS, LLC	\$ 4,275.00
08/07/2019	35185	Airgas, Inc.	\$ 628.71
08/07/2019	35186	AmeriGas Propane LP	\$ 64.64
08/07/2019	35187	Ameripride Uniform Services	\$ 553.33
08/07/2019	35188	Ameripride Uniform Services	\$ 1,839.09
08/07/2019	35189	Applied Industrial Technologies	\$ 449.82
08/07/2019	35190	Aqua-Metric Sales Company	\$ 265,051.54
08/07/2019	35191	Brenntag Pacific, Inc	\$ 9,670.76
08/07/2019	35192	California Municipal Treasurers Associat	\$ 95.00
08/07/2019	35193	California Water Environment Association	\$ 192.00
08/07/2019	35194	Clinical Laboratory of San Bernardino	\$ 5,298.00
08/07/2019	35195	Cole-Parmer	\$ 1,015.96
08/07/2019	35196	Computerized Embroidery Company, Inc.	\$ 12,411.18
08/07/2019	35197	Coverall North America, Inc.	\$ 1,331.00
08/07/2019	35198	Evoqua Water Technologies LLC	\$ 1,188.66
08/07/2019	35199	Fastenal Company	\$ 83.12
08/07/2019	35200	First American Data Tree, LLC	\$ 50.00
08/07/2019	35201	FMB Truck Outfitters, Inc.	\$ 280.10
08/07/2019	35202	Frontier Communications	\$ 341.91
08/07/2019	35203	Grainger	\$ 7,190.00
08/07/2019	35204	Hasa, Inc.	\$ 11,216.23
08/07/2019	35205	Home Depot U.S.A. Inc	\$ 461.48
08/07/2019	35206	House Of Quality, Parts Plus	\$ 16.09
08/07/2019	35207	Houston & Harris PCS, Inc.	\$ 3,600.00
08/07/2019	35208	Inland Water Works Supply Co.	\$ 310.32
08/07/2019	35209	J.L. Wingert Co.	\$ 3,766.55
08/07/2019	35210	John F. Simister	\$ 818.91
08/07/2019	35211	JW D'Angelo Co.	\$ 15,741.84
08/07/2019	35212	Kenneth Carnes	\$ 4,174.24
08/07/2019	35213	Konica Minolta Business Solutions	\$ 693.47
08/07/2019	35214	Lawrence Roll Up Doors, Inc.	\$ 2,591.19
08/07/2019	35215	Lowe's Companies, Inc.	\$ 1,036.60
08/07/2019	35216	Matthew M. Barlow	\$ 629.49
08/07/2019	35217	MCP Industries	\$ 694.34
08/07/2019	35218	Neenah Foundry Company	\$ 1,677.50

Check Register - August 2019

Check Date	Check Number	Payee	Amount
08/07/2019	35219	NetComp Technologies, Inc.	\$ 3,950.00
08/07/2019	35220	Novozymes Biologicals, Inc.	\$ 1,850.00
08/07/2019	35221	Nuckles Oil Company, Inc.	\$ 4,273.18
08/07/2019	35222	Pro-Pipe & Supply, Inc.	\$ 77.22
08/07/2019	35223	Q Versa, LLC	\$ 698.22
08/07/2019	35224	Q Versa, LLC	\$ 6,011.53
08/07/2019	35225	Quinn Company	\$ 1,843.94
08/07/2019	35226	Ralph C. Casas	\$ 92.45
08/07/2019	35227	Red Alert Special Couriers	\$ 344.26
08/07/2019	35228	Redlands Employment Services	\$ 2,300.77
08/07/2019	35229	Redline	\$ 12,040.39
08/07/2019	35230	SCCI, Inc.	\$ 350.00
08/07/2019	35231	South Coast A.Q.M.D.	\$ 4,418.63
08/07/2019	35232	Southern CA Emergency Medicine, Inc.	\$ 150.00
08/07/2019	35233	Terminix Commercial	\$ 582.00
08/07/2019	35234	The Gas Company	\$ 55.40
08/07/2019	35235	U.S. Telepacific Corp	\$ 2,571.01
08/07/2019	35236	United Rentals Inc.	\$ 1,120.34
08/07/2019	35237	WageWorks, Inc.	\$ 186.50
08/07/2019	35238	Wells Fargo Bank-Corporate Trust Service	\$ 1,745,648.28
08/07/2019	35239	Western Oilfields Supply Company	\$ 705.14
08/07/2019	35240	Yucaipa Disposal, Inc.	\$ 1,496.32
08/07/2019	35241	Yucaipa Disposal, Inc.	\$ 427.52
08/07/2019	35242	AWWA CA-NV (Rancho Cucamonga)	\$ 435.00
08/07/2019	35243	Berkshire Hathaway Homestate Companies	\$ 11,065.66
08/07/2019	35244	Dennis Neff	\$ 649.35
08/07/2019	35245	Joan Cadiz	\$ 886.89
08/07/2019	35246	Joe DeSalliers	\$ 604.67
08/07/2019	35247	Peggy Little	\$ 649.21
08/07/2019	35248	Robert Wall	\$ 649.35
08/07/2019	35249	Rodd Greene	\$ 610.01
08/07/2019	35250	Yucaipa Urgent Care Center	\$ 217.20
08/12/2019	35251	American Melt Blown & Filtration Inc.	\$ 3,250.00
08/12/2019	35252	Ameripride Uniform Services	\$ 1,179.58
08/12/2019	35253	Association of San Bernardino County Spe	\$ 102.00
08/12/2019	35254	Cal's Towing	\$ 75.00
08/12/2019	35255	Computerized Embroidery Company, Inc.	\$ 408.91
08/12/2019	35256	Corelogic, Inc.	\$ 330.00
08/12/2019	35257	Crown Ace Hardware - Yucaipa	\$ 638.51
08/12/2019	35258	Evoqua Water Technologies LLC	\$ 1,064.50
08/12/2019	35259	Fastenal Company	\$ 1,332.52
08/12/2019	35260	G&G Environmental Compliance, Inc	\$ 7,758.47
08/12/2019	35261	House Of Quality, Parts Plus	\$ 150.94
08/12/2019	35262	Houston & Harris PCS, Inc.	\$ 1,800.00

Check Register - August 2019

Check Date	Check Number	Payee	Amount
08/12/2019	35263	Inland Water Works Supply Co.	\$ 3,357.66
08/12/2019	35264	JW D'Angelo Co.	\$ 4,163.91
08/12/2019	35265	Nuckles Oil Company, Inc.	\$ 2,771.20
08/12/2019	35266	Pacific Coast Landscape & Design, Inc.	\$ 6,325.00
08/12/2019	35267	Redline	\$ 3,008.41
08/12/2019	35268	Riverside Winnelson Company	\$ 120.79
08/12/2019	35269	Separation Processes, Inc.	\$ 5,141.50
08/12/2019	35270	SILLERS, CJ	\$ 106.61
08/12/2019	35271	Star Fleet Filtration, Inc.	\$ 2,262.91
08/12/2019	35272	Sturdivan Emergency Management Consultin	\$ 4,500.00
08/12/2019	35273	Uline, Inc.	\$ 1,192.50
08/12/2019	35274	Underground Service Alert Of So. CA	\$ 472.00
08/12/2019	35275	US Bank	\$ 6,493.10
08/12/2019	35276	Watertrax USA Inc.	\$ 1,166.67
08/19/2019	35277	David L. Wysocki	\$ 2,212.50
08/19/2019	35278	Delta Partners, LLC	\$ 7,500.00
08/19/2019	35279	Dudek & Associates, Inc	\$ 29,808.82
08/19/2019	35280	ECORP Consulting, Inc.	\$ 6,735.75
08/19/2019	35281	Geoscience Support Services, Inc.	\$ 24,665.00
08/19/2019	35282	One Stop Landscape Supply Inc	\$ 23,153.00
08/19/2019	35283	Separation Processes, Inc.	\$ 14,503.50
08/19/2019	35284	Ameripride Uniform Services	\$ 1,181.37
08/19/2019	35285	Aqua-Metric Sales Company	\$ 29,170.62
08/19/2019	35286	AT&T Mobility	\$ 2,460.86
08/19/2019	35287	B.R. Frost Company Inc.	\$ 5,740.00
08/19/2019	35288	Burgeson's Heating & Air Cond. Inc	\$ 1,270.00
08/19/2019	35289	California Water Environment Association	\$ 576.00
08/19/2019	35290	Calmat Company	\$ 5,369.03
08/19/2019	35291	Central Communications	\$ 439.21
08/19/2019	35292	Dudek & Associates, Inc	\$ 1,235.18
08/19/2019	35293	ePower Network, Inc.	\$ 2,427.10
08/19/2019	35294	Evans-Hydro Inc.	\$ 6,042.73
08/19/2019	35295	Evoqua Water Technologies LLC	\$ 936.97
08/19/2019	35296	Hasa, Inc.	\$ 3,871.25
08/19/2019	35297	House Of Quality, Parts Plus	\$ 9.92
08/19/2019	35298	Inland Water Works Supply Co.	\$ 405.68
08/19/2019	35299	JB Paving & Engineering, Inc.	\$ 18,344.00
08/19/2019	35300	JW D'Angelo Co.	\$ 8,662.15
08/19/2019	35301	Myers & Sons Hi-Way Safety Inc.	\$ 144.39
08/19/2019	35302	NetComp Technologies, Inc.	\$ 433.37
08/19/2019	35303	Nuckles Oil Company, Inc.	\$ 2,916.75
08/19/2019	35304	Paxxo, Inc.	\$ 123.65
08/19/2019	35305	Polydyne Inc.	\$ 3,462.86
08/19/2019	35306	Pro-Pipe & Supply, Inc.	\$ 84.49

Check Register - August 2019

Check Date	Check Number	Payee	Amount
08/19/2019	35307	Redlands Employment Services	\$ 1,160.64
08/19/2019	35308	Spectrum Business	\$ 3,668.00
08/19/2019	35309	Time Warner Cable	\$ 281.54
08/19/2019	35310	Westrux International, Inc.	\$ 383.19
08/19/2019	35311	Yucaipa Valley Water District	\$ 25.08
08/19/2019	35312	Yucaipa Valley Water District	\$ 43,895.67
08/19/2019	35313	Aflac	\$ 3,019.68
08/19/2019	35314	California State Disbursement Unit	\$ 697.37
08/19/2019	35315	Wage Works Inc.	\$ 1,340.00
08/26/2019	35316	ADS, LLC	\$ 4,275.00
08/26/2019	35317	All American Sewer Tools	\$ 1,819.74
08/26/2019	35318	Ameripride Uniform Services	\$ 1,212.13
08/26/2019	35319	Brenntag Pacific, Inc	\$ 19,575.02
08/26/2019	35320	C & B Crushing, Inc.	\$ 60.00
08/26/2019	35321	Center Electric Services, Inc.	\$ 17,611.62
08/26/2019	35322	Cortech Engineering	\$ 6,037.81
08/26/2019	35323	Donald Kent Stone	\$ 540.00
08/26/2019	35324	Evoqua Water Technologies LLC	\$ 1,144.14
08/26/2019	35325	Frontier Communications	\$ 158.12
08/26/2019	35326	Home Depot U.S.A. Inc	\$ 139.28
08/26/2019	35327	InfoSend, Inc.	\$ 5,198.81
08/26/2019	35328	Inland Water Works Supply Co.	\$ 1,132.82
08/26/2019	35329	J.L. Wingert Co.	\$ 443.30
08/26/2019	35330	JB Paving & Engineering, Inc.	\$ 12,950.00
08/26/2019	35331	John F. Simister	\$ 351.04
08/26/2019	35332	JW D'Angelo Co.	\$ 28,055.40
08/26/2019	35333	Krieger & Stewart	\$ 70,098.88
08/26/2019	35334	LUZ Investment Corp.	\$ 450.00
08/26/2019	35335	Multi-State Salinity Coalition	\$ 2,000.00
08/26/2019	35336	Neopost USA Inc.	\$ 15.83
08/26/2019	35337	NetComp Technologies, Inc.	\$ 3,500.00
08/26/2019	35338	Nuckles Oil Company, Inc.	\$ 3,090.20
08/26/2019	35339	Pro-Pipe & Supply, Inc.	\$ 265.18
08/26/2019	35340	Q Versa, LLC	\$ 12,270.00
08/26/2019	35341	Quinn Company	\$ 6,227.53
08/26/2019	35342	Red Alert Special Couriers	\$ 688.52
08/26/2019	35343	Redlands Employment Services	\$ 2,067.20
08/26/2019	35344	San Bdno. Valley Muni. Water Dist.	\$ 96,816.94
08/26/2019	35345	San Gorgonio Pass Water Agency	\$ 19,610.85
08/26/2019	35346	SB CNTY-Fire Protection District	\$ 3,227.00
08/26/2019	35347	SCE Rosemead	\$ 268,837.83
08/26/2019	35348	SEVERSON CO. INC	\$ 1,217.32
08/26/2019	35349	SF CC Intermediate Holdings Inc.	\$ 281.96
08/26/2019	35350	Spectrum Business	\$ 2,649.00

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Check Date	Check Number	Payee	Amount
08/26/2019	35351	State Water Resources Control Board	\$ 2,923,668.75
08/26/2019	35352	Sunstate Equipment Co., LLC	\$ 131.27
08/26/2019	35353	Terracon Consultants, Inc.	\$ 17,637.50
08/26/2019	35354	Dennis Neff	\$ 649.35
08/26/2019	35355	Joan Cadiz	\$ 886.89
08/26/2019	35356	Joe DeSalliers	\$ 604.67
08/26/2019	35357	Peggy Little	\$ 649.21
08/26/2019	35358	Robert Wall	\$ 649.35
08/26/2019	35359	Rodd Greene	\$ 610.01
08/26/2019	35360	CA State Disbursement Unit	\$ 697.37
08/26/2019	35361	WageWorks, Inc.	\$ 1,340.00
			\$ 6,039,914.50
08/02/2019	electronic pmt	IRS - PAYROLL TAXES	\$ 56,390.40
08/02/2019	electronic pmt	CA-EDD	\$ 9,818.68
08/02/2019	electronic pmt	CA-PERS Supplemental Income 457 Plan	\$ 24,078.84
08/02/2019	electronic pmt	CalPERS - HEALTH	\$ 92,031.87
08/02/2019	electronic pmt	VOYA-457	\$ 3,453.60
08/02/2019	electronic pmt	Public Employees' Retirement System	\$ 30,942.89
08/16/2019	electronic pmt	IRS - PAYROLL TAXES	\$ 56,106.28
08/16/2019	electronic pmt	CA-EDD	\$ 9,643.81
08/16/2019	electronic pmt	CA-PERS Supplemental Income 457 Plan	\$ 25,509.42
08/16/2019	electronic pmt	VOYA-457	\$ 3,453.60
08/16/2019	electronic pmt	Public Employees' Retirement System	\$ 30,569.20
08/29/2019	electronic pmt	IRS - PAYROLL TAXES	\$ 56,190.44
08/29/2019	electronic pmt	CA-EDD	\$ 9,912.74
08/29/2019	electronic pmt	CA-PERS Supplemental Income 457 Plan	\$ 21,435.57
08/29/2019	electronic pmt	VOYA-457	\$ 3,317.76
08/29/2019	electronic pmt	Public Employees' Retirement System	\$ 30,746.81
			\$ 463,601.91

Check Register - September 2019

Check Date	Check Number	Payee	Amount
09/03/2019	35362	Agriserve Pest Control	\$ 953.00
09/03/2019	35363	Ameripride Uniform Services	\$ 1,222.87
09/03/2019	35364	Aqua-Metric Sales Company	\$ 2,304.07
09/03/2019	35365	Brenntag Pacific, Inc	\$ 22,431.07
09/03/2019	35366	C & B Crushing, Inc.	\$ 240.00
09/03/2019	35367	California Water Environment Association	\$ 380.00
09/03/2019	35368	Calimesa Chamber Of Commerce	\$ 105.00
09/03/2019	35369	Fastenal Company	\$ 264.47
09/03/2019	35370	Fedex	\$ 29.90
09/03/2019	35371	Hasa, Inc.	\$ 7,601.18
09/03/2019	35372	House Of Quality, Parts Plus	\$ 11.58
09/03/2019	35373	Houston & Harris PCS, Inc.	\$ 3,600.00
09/03/2019	35374	Inland Water Works Supply Co.	\$ 14,713.25
09/03/2019	35375	JB Paving & Engineering, Inc.	\$ 22,890.00
09/03/2019	35376	JW D'Angelo Co.	\$ 2,826.66
09/03/2019	35377	MBC Applied Environmental Sciences	\$ 1,350.00
09/03/2019	35378	NetComp Technologies, Inc.	\$ 2,396.50
09/03/2019	35379	Nuckles Oil Company, Inc.	\$ 3,084.30
09/03/2019	35380	Optics Planet, Inc.	\$ 449.32
09/03/2019	35381	Pall Corporation	\$ 17,430.64
09/03/2019	35382	Q Versa, LLC	\$ 4,882.59
09/03/2019	35383	Ralph C. Casas	\$ 82.50
09/03/2019	35384	Safeguard Business Systems Inc	\$ 1,191.18
09/03/2019	35385	San Bdn. Valley Muni. Water Dist.	\$ 5,520.21
09/03/2019	35386	Sturdivan Emergency Management Consultin	\$ 2,000.00
09/03/2019	35387	The Gas Company	\$ 52.19
09/03/2019	35388	Victor James Valenti	\$ 3,346.44
09/03/2019	35389	Blue Shield of CA	\$ 3,703.40
09/03/2019	35390	Nippon Life Insurance	\$ 2,869.05
09/03/2019	35391	Standard Dental Insurance Co.	\$ 1,552.24
09/03/2019	35392	Standard Insurance Vision	\$ 264.80
09/03/2019	35393	Western Dental Services Inc.	\$ 251.16
09/09/2019	35394	Ameripride Uniform Services	\$ 995.45
09/09/2019	35395	AutoZone Stores LLC	\$ 9.70
09/09/2019	35396	Baldy View Chapter	\$ 150.00
09/09/2019	35397	BofA Credit Card	\$ 11,240.51
09/09/2019	35398	Calimesa Chamber Of Commerce	\$ 35.00
09/09/2019	35399	Cart Guy LLC	\$ 780.65
09/09/2019	35400	Clark Pest Control	\$ 230.00
09/09/2019	35401	Clinical Laboratory of San Bernardino	\$ 11,019.50
09/09/2019	35402	Commercial Solar Guy	\$ 1,000.00
09/09/2019	35403	Coverall North America, Inc.	\$ 1,331.00
09/09/2019	35404	Crown Ace Hardware - Yucaipa	\$ 265.12
09/09/2019	35405	First American Data Tree, LLC	\$ 50.00

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Check Date	Check Number	Payee	Amount
09/09/2019	35406	Fuel Equipment Services, Inc.	\$ 892.31
09/09/2019	35407	G&G Environmental Compliance, Inc	\$ 4,729.82
09/09/2019	35408	Grainger	\$ 189.40
09/09/2019	35409	Hach Company	\$ 2,416.73
09/09/2019	35410	Hemet Valley Tool Inc.	\$ 821.08
09/09/2019	35411	House Of Quality, Parts Plus	\$ 1.41
09/09/2019	35412	JB Paving & Engineering, Inc.	\$ 78,240.00
09/09/2019	35413	JB Paving & Engineering, Inc.	\$ 5,426.00
09/09/2019	35414	Luke's Transmission Inc.	\$ 423.40
09/09/2019	35415	NCL Of Wisconsin Inc	\$ 1,531.24
09/09/2019	35416	NetComp Technologies, Inc.	\$ 2,100.00
09/09/2019	35417	Nuckles Oil Company, Inc.	\$ 4,740.85
09/09/2019	35418	Pacific Coast Landscape & Design, Inc.	\$ 6,875.00
09/09/2019	35419	Pro-Pipe & Supply, Inc.	\$ 45.47
09/09/2019	35420	Q Versa, LLC	\$ 4,650.00
09/09/2019	35421	Quinn Company	\$ 5,701.71
09/09/2019	35422	Redlands Employment Services	\$ 1,230.52
09/09/2019	35423	SB CNTY-Solid Waste Mgmt Div	\$ 80.89
09/09/2019	35424	SCCI, Inc.	\$ 350.00
09/09/2019	35425	Sinclair Rock and Sand Inc.	\$ 8,750.00
09/09/2019	35426	Southwest Toyotalift:DBA	\$ 11,829.88
09/09/2019	35427	State Water Resources Control Board	\$ 1,856.00
09/09/2019	35428	The Counseling Team International	\$ 300.00
09/09/2019	35429	Timothy F. Moore	\$ 512.18
09/09/2019	35430	Tri County Pump Company	\$ 23,351.35
09/09/2019	35431	Underground Service Alert Of So. CA	\$ 336.70
09/09/2019	35432	US Bank	\$ 7,565.01
09/09/2019	35433	Water Systems Optimization Inc.	\$ 2,500.00
09/09/2019	35434	Yucaipa Disposal, Inc.	\$ 1,923.84
09/09/2019	35435	Matthew Garner	\$ 1,617.51
09/09/2019	35436	Grener Maple 2, LLC - VOID	\$ -
09/09/2019	35437	Crown Ace Hardware - Yucaipa	\$ 559.63
09/09/2019	35438	Green Maple 2, LLC	\$ 12,595.59
09/16/2019	35439	Borden Excavating, Inc.	\$ 387,621.85
09/16/2019	35440	David L. Wysocki	\$ 3,375.00
09/16/2019	35441	Delta Partners, LLC	\$ 7,500.00
09/16/2019	35442	ECORP Consulting, Inc.	\$ 2,818.75
09/16/2019	35443	Geoscience Support Services, Inc.	\$ 39,587.82
09/16/2019	35444	One Stop Landscape Supply Inc	\$ 23,340.50
09/16/2019	35445	Separation Processes, Inc.	\$ 17,775.50
09/16/2019	35446	VTD, Vavrinek, Trine, Day & CO., LLP	\$ 1,500.00
09/16/2019	35447	Borden Excavating, Inc.	\$ 20,401.15
09/16/2019	35448	CA State Disbursement Unit	\$ 743.52
09/16/2019	35449	IBEW Local #1436	\$ 580.00

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Check Date	Check Number	Payee	Amount
09/16/2019	35450	WageWorks, Inc.	\$ 1,340.00
09/16/2019	35451	All American Sewer Tools	\$ 2,809.98
09/16/2019	35452	Ameripride Uniform Services	\$ 1,162.60
09/16/2019	35453	Armorcast Products Company	\$ 18,831.47
09/16/2019	35454	Assoc. SB Cty Special Districts	\$ 102.00
09/16/2019	35455	Best Home Center	\$ 35.73
09/16/2019	35456	Brenntag Pacific, Inc	\$ 7,146.19
09/16/2019	35457	Caselle, Inc.	\$ 3,075.00
09/16/2019	35458	Center Electric Services, Inc.	\$ 7,912.32
09/16/2019	35459	Corelogic, Inc.	\$ 330.00
09/16/2019	35460	DBA:Koritas Tires Inc.	\$ 1,873.40
09/16/2019	35461	DR Horton	\$ 123,175.65
09/16/2019	35462	Eco Pro Environmental Services, Inc.	\$ 85.00
09/16/2019	35463	Evoqua Water Technologies LLC	\$ 2,001.47
09/16/2019	35464	Fastenal Company	\$ 724.08
09/16/2019	35465	Fedex	\$ 44.07
09/16/2019	35466	Grainger	\$ 1,104.13
09/16/2019	35467	Hach Company	\$ 594.61
09/16/2019	35468	Harrington Ind. Plastic, LLC	\$ 284.88
09/16/2019	35469	HD Supply Facilities Maintenance Ltd.	\$ 529.77
09/16/2019	35470	Houston & Harris PCS, Inc.	\$ 5,400.00
09/16/2019	35471	Inland Water Works Supply Co.	\$ 66,715.69
09/16/2019	35472	Integrity Hose and Fittings	\$ 62.50
09/16/2019	35473	John F. Simister	\$ 740.48
09/16/2019	35474	Konica Minolta Business Solutions	\$ 1,294.22
09/16/2019	35475	Larry Jacinto Farming, Inc.	\$ 420.00
09/16/2019	35476	MBC Applied Environmental Sciences	\$ 2,700.00
09/16/2019	35477	Micro Motion, Inc.	\$ 2,692.56
09/16/2019	35478	Nuckles Oil Company, Inc.	\$ 4,873.08
09/16/2019	35479	Pro-Pipe & Supply, Inc.	\$ 86.38
09/16/2019	35480	Redlands Employment Services	\$ 1,130.48
09/16/2019	35481	Separation Processes, Inc.	\$ 4,102.00
09/16/2019	35482	Spectrum Business	\$ 1,834.00
09/16/2019	35483	Time Warner Cable	\$ 281.54
09/16/2019	35484	Yucaipa Disposal, Inc.	\$ 2,312.55
09/16/2019	35485	Yucaipa Valley Water District	\$ 41,570.81
09/16/2019	35486	Lennar Homes	\$ 174,340.92
09/16/2019	35487	Meritage Homes,MLC Holdings Inc	\$ 81,485.43
09/17/2019	35488	WageWorks, Inc.	\$ 373.00
09/23/2019	35489	Yucaipa Disposal, Inc.	\$ 1,496.32
09/23/2019	35490	Ameripride Uniform Services	\$ 1,162.60
09/23/2019	35491	Arrow Staffing	\$ 1,076.26
09/23/2019	35492	AT&T Mobility	\$ 2,613.06
09/23/2019	35493	Bay Alarm Company	\$ 5,353.59

Check Register - September 2019

Check Date	Check Number	Payee	Amount
09/23/2019	35494	BofA Credit Card	\$ 3,647.30
09/23/2019	35495	Brenntag Pacific, Inc	\$ 2,091.85
09/23/2019	35496	C & B Crushing, Inc.	\$ 320.00
09/23/2019	35497	California Water Environment Association	\$ 192.00
09/23/2019	35498	Calmat Company	\$ 2,605.79
09/23/2019	35499	Caselle, Inc.	\$ 14,006.00
09/23/2019	35500	Center Electric Services, Inc.	\$ 3,532.99
09/23/2019	35501	Central Communications	\$ 485.89
09/23/2019	35502	Evoqua Water Technologies LLC	\$ 288.95
09/23/2019	35503	GEI Consultants, Inc.	\$ 3,268.00
09/23/2019	35504	Granicus, LLC	\$ 2,879.25
09/23/2019	35505	Hasa, Inc.	\$ 7,695.10
09/23/2019	35506	HD Supply Facilities Maintenance Ltd.	\$ 2,498.23
09/23/2019	35507	Hudco, Inc.	\$ 582.17
09/23/2019	35508	Inland Water Works Supply Co.	\$ 13,925.92
09/23/2019	35509	JW D'Angelo Co.	\$ 6,303.38
09/23/2019	35510	Lee, Karen	\$ 423.97
09/23/2019	35511	Nalco Company	\$ 10,328.10
09/23/2019	35512	NetComp Technologies, Inc.	\$ 2,600.00
09/23/2019	35513	Nuckles Oil Company, Inc.	\$ 3,107.89
09/23/2019	35514	Odyssey Power Corporation	\$ 2,655.00
09/23/2019	35515	Pacific Coast Landscape & Design, Inc.	\$ 825.00
09/23/2019	35516	Polydyne Inc.	\$ 3,462.86
09/23/2019	35517	Q Versa, LLC	\$ 255.00
09/23/2019	35518	Quinn Company	\$ 1,636.64
09/23/2019	35519	Ralph C. Casas	\$ 92.45
09/23/2019	35520	Red Alert Special Couriers	\$ 344.26
09/23/2019	35521	San Bernardino Valley Water Conservation	\$ 5,556.00
09/23/2019	35522	Spectrum Business	\$ 1,834.00
09/23/2019	35523	UPS Store#1504/ Mail Boxes Etc.	\$ 55.48
09/23/2019	35524	US Bank	\$ 10,024.12
09/23/2019	35525	Victor James Valenti	\$ 2,406.25
09/25/2019	35526	Dennis Neff	\$ 649.35
09/25/2019	35527	Joan Cadiz	\$ 886.89
09/25/2019	35528	Joe DeSalliers	\$ 604.67
09/25/2019	35529	Peggy Little	\$ 649.21
09/25/2019	35530	Robert Wall	\$ 649.35
09/25/2019	35531	Rodd Greene	\$ 610.01
09/25/2019	35532	Aflac	\$ 3,019.68
09/25/2019	35533	CA State Disbursement Unit	\$ 743.52
09/25/2019	35534	WageWorks, Inc.	\$ 1,340.00
			\$ 1,552,856.45
09/13/2019	electronic pmt	IRS - PAYROLL TAXES	\$ 57,456.89

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Check Date	Check Number	Payee	Amount
	electronic pmt	CA-EDD	\$ 9,831.16
	electronic pmt	Payroll Direct Deposit	\$ 148,234.26
	electronic pmt	CA-PERS Supplemental Income 457 Plan	\$ 27,171.09
	electronic pmt	CalPERS - HEALTH	\$ 92,184.49
	electronic pmt	VOYA-457	\$ 5,479.86
	electronic pmt	Public Employees' Retirement System	\$ 30,511.10
09/27/2019	electronic pmt	IRS - PAYROLL TAXES	\$ 56,640.10
	electronic pmt	CA-EDD	\$ 9,835.84
	electronic pmt	Payroll Direct Deposit	\$ 146,664.57
	electronic pmt	CA-PERS Supplemental Income 457 Plan	\$ 24,491.06
	electronic pmt	VOYA-457	\$ 3,450.57
			<u>\$ 611,950.99</u>

Staff Report



Yucaipa Valley Water District

Discussion Items





Date: October 15, 2019

Prepared By: Jennifer Ares, Water Resource Manager

Subject: Ratification of Professional Services Contract and Related Equipment for Monitoring Groundwater Levels at the Wilson Creek Basin and Oak Glen Creek Basin

Recommendation: That the Board ratify the Professional Services Contract with Geoscience for a sum not to exceed \$15,686.

Yucaipa Valley Water District has been actively recharging imported water in the Wilson Creek Basins for several years with plans to augment the ratification recharge with recycled water in the near future.

On March 5, 2019, Board of Directors approved [Director Memorandum No. 19-024] the workplan for a tracer study at the Wilson Creek Recharge Basins. Prior to conducting the tracer test it would be beneficial to collect data related to the imported water recharge to determine when the surface water reaches the water table. Collection of this baseline data prior to tracer studies provides us with a better understanding of the seasonal subsurface variations in water movement near the spreading basins. In addition, as basin recharge occurs, the height of the groundwater mound can be determined which will also provide further information about the groundwater aquifer.



Since groundwater recharge activity is currently taking place at Wilson Creek and Oak Glen Basins, it is advantageous to install monitoring equipment at both locations. Geoscience will assist District staff with the water level and conductivity transducer installation. This will also give District staff a training opportunity of transducer installation, allowing for future installation and data collection to be performed by District staff members.

Financial Impact

This contract will be paid from the Water Fund, Professional Services budget [G/L Account #02-506-54109].

GEOSCIENCE

The First Name in Groundwater

September 10, 2019

Jennifer Ares
Water Resource Manager
Yucaipa Valley Water District
12770 Second Street
Yucaipa, CA 92399

Re: Scope and Cost Estimate to Provide Professional Geohydrologic and Engineering Services Related to Equipping Two Piezometers with Data Logging Equipment and Field Training of Yucaipa Valley Water District Personnel – Recharge Investigation of the Yucaipa Groundwater Basin

Dear Jennifer:

We are pleased to provide Yucaipa Valley Water District (YVWD) with this proposal for geohydrologic services to purchase and install water level and specific conductance data logging equipment in two piezometers (YRP-PZ1 and YRP-PZ2) located adjacent to the Wilson Creek and Oak Glen Recharge Basins in Yucaipa, California. YVWD has requested GEOSCIENCE (GSSI) purchase data loggers and accessory equipment in addition to training YVWD personnel to deploy transducers and navigate equipment software for the purpose of long-term monitoring of water level and specific conductance (EC).

We propose the following tasks:

Scope

Task 1.0 Data Logger Acquisition

GSSI will procure two new data loggers (In-Situ AquaTROLL 200), a barometer, non-vented cables, manufacturer software (Vu-Situ and Win-Situ 5), laptop communication cables and other materials necessary for the equipping of the two 2-inch diameter PVC piezometers, YRP-PZ1 and YRP-PZ-2. If requested by the District, GSSI will purchase a field capable laptop or tablet that meets the minimum system requirements for installation of In-Situ software:

400 MHz Pentium® II processor; 128 MB RAM, 100 MB free disk space; Internet Explorer® 6.01 or higher; Windows® 2000 Professional SP4 or higher, Windows XP Professional SP2 or higher, or Windows Vista SP1 or higher; Windows 7 or higher, CD-ROM drive; serial or USB port

GSSI's staff will install the necessary manufacturer software and drivers on the District's laptop or tablet while on site, prior to data logger installation. Following installation of the software GSSI will train YVWD personnel on proper field techniques for installing and programming the data loggers. The date for the installations will be agreed upon by the District and GSSI. The installations and training are expected to take approximately 3 hours.

Task 2.0 Data Logger Installation and District Staff Training

GSSI will train YVWD personnel to check and calibrate the data logger EC sensor, make proper cable/logger connections, anchor the cables to the piezometers, navigate the manufacturer's software and set up long-term monitoring tests. Parameters to be recorded by the AquaTROLL 200 data loggers:

- Pressure
- Submergence/Depth
- Temperature
- Actual Conductivity
- Specific Conductivity
- Resistivity
- Total Dissolved Solids
- Salinity
- Water Density

Training will include instruction on how to make connections and download data logger water level and EC data using either the Win-Situ software (direct cable connection) or Vu-Situ software (mobile device Bluetooth connection). Instruction will also be given on how to properly record water levels using an electronic wireline water level indicator. In addition to the transducers, a barometer (BaroTROLL) will be programmed and installed at one of the two monitoring locations. Barometric pressure data recorded with this device will be used to barometrically correct water level data recorded by the non-vented AquaTROLL 200 data loggers. GSSI staff will train YVWD personnel to perform this site-specific barometric correction using the Win-Situ software.

GSSI will make recommendations for data logger maintenance and data download frequency. Staff will discuss proper sensor cleaning tools and techniques, transducer battery and memory level checks, and identification of potential issues and data anomalies.

Cost Estimate

The proposed total cost for Tasks 1 and 2 is \$15,686.

Thank you for the opportunity to provide assistance in setting up your monitoring network.

If you have any questions, please contact me at (909) 451-6650

Sincerely,

A handwritten signature in blue ink, appearing to read "Nathan Reynolds", with a long horizontal flourish extending to the right.

Nathan Reynolds, PG
Project Geohydrologist
Encl.

Yucaipa Valley Water District
 Cost Proposal for Installation of Data Loggers and Staff Training

YUCAIPA VALLEY WATER DISTRICT
Cost Estimate for Installation of Two Data Loggers and YVWD Personnel Training

Task Description	Hourly Rate:				Labor	Reimbursable Expenses ¹	Total Cost
	Principal Geohydrologist \$245	Project Geohydrologist \$195	Staff Geohydrologist \$155				
1.0 Data Logger & Accessories Acquisition: Purchase two new data loggers (In-Situ AquatROLL 200), barometer (BaroTROLL), non-vented cables, EC sensor calibration solutions, desiccant, laptop communication cables and well anchoring and protection materials. GSSI staff inspection of transducers and equipment. ²	1	6	4		\$ 2,035	\$ 11,631	\$ 13,666
2.0 Data Logger Installation and District Staff Training: Install Win-Situ software on YVWD laptop or tablet, deploy two data loggers in existing piezometers YRP-PZ1 and YRP-PZ2, check and calibrate EC sensors, program transducer logging tests, and secure wells with vented locking well caps. On-site training of YVWD personnel in the tasks listed above. Train YVWD to install and download data loggers, and maintenance of sensors.	1	2	8		\$ 1,875	\$ 145	\$ 2,020
Total	2	8	12		\$ 3,910	\$ 11,776	\$ 15,686

¹ Reimbursable expenses include mileage, per diem field vehicle usage (\$145/day), data loggers and installation materials, field tablet or laptop, project-specific mailing and reproduction charges.

² Includes cost for a laptop or tablet. If the District prefers to provide a compatible laptop this cost (\$500) can be removed from Reimbursable Expenses in Task 1.0.



Date: October 15, 2019

Prepared By: Kathryn Hallberg, Implementation Manager

Subject: Consideration of a Cyber Liability Insurance Proposal from Alliant

Recommendation: That the Board authorize the General Manager to execute the necessary contracts with Alliant Insurance Services for cyber liability insurance coverage.

As cyber events and computer system failures are increasing throughout the country, the District staff has been researching the benefits of cyber liability insurance. Cyber liability insurance covers financial losses that result from data breaches and other cyber events. A cyber event includes any actual or suspected unauthorized system access, electronic attack or privacy breach, including denial of service attack, cyber terrorism, hacking attack, Trojan horse, phishing attack, man-in-the-middle attack, application-layer attack, compromised key attack, malware infection (including spyware or Ransomware) or computer virus.

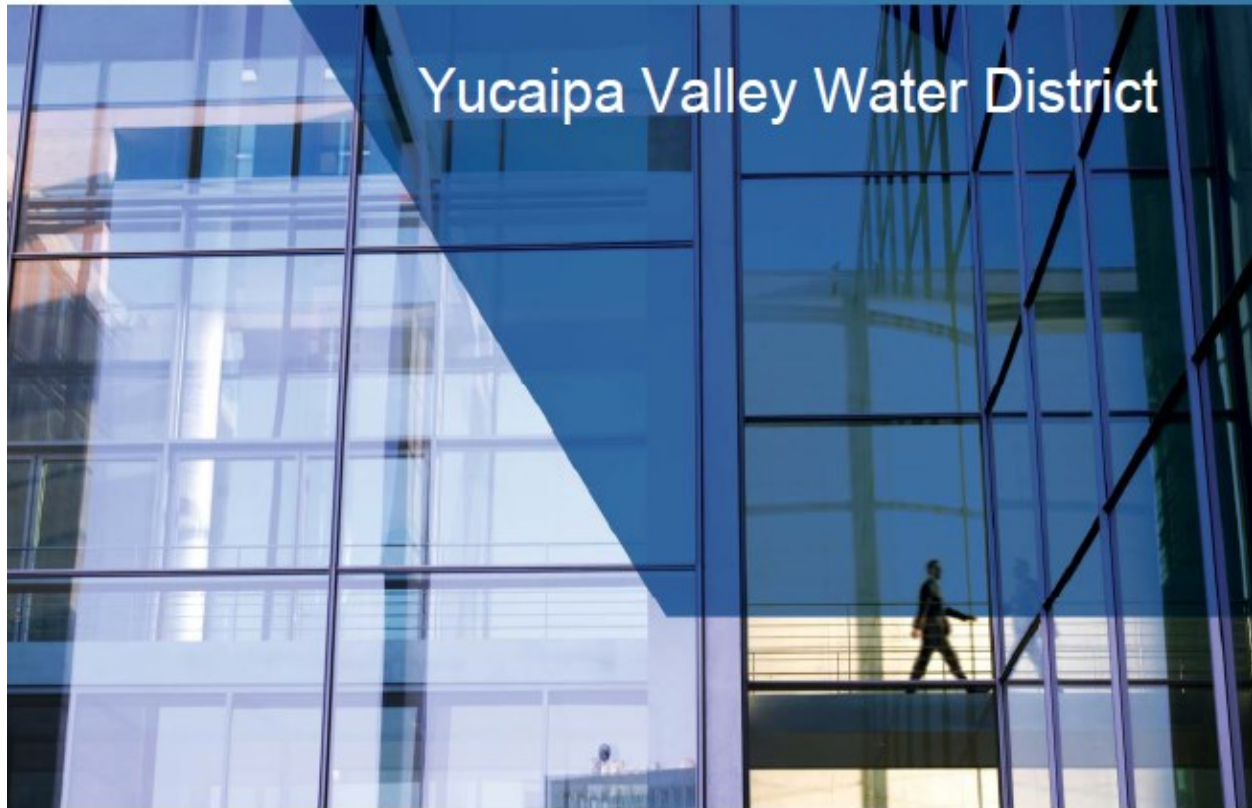
The attached proposal includes both first-party and third-party coverages. First-party coverage applies to losses sustained directly by the District, as in the District's computer system was lost, stolen, or compromised. Third-party coverage covers possible claims against the District by people or businesses whose data has been stolen as a result of the cyber incident or system failure. There are numerous other coverage parts that are associated with a data breach, including notification costs associated with a data breach, incident response, legal and regulatory costs and cyber extortion (ransom).

The time retention or waiting period noted in the proposal relates to business interruption and dependent business interruption claims. In order to trigger the business interruption and dependent business interruption claim, the District must have an interruption to our business operations caused by computer systems downtime arising directly out of a cyber event or system failure lasting longer than 8 hours.

The policy options are \$1,000,000, \$2,000,000 and \$3,000,000 as provided in the proposal. The annual cost for the \$1,000,000 limit is \$4,592.40, for the \$2,000,000 limit is \$6,088.80, and for the \$3,000,000 limit is \$7,069.20. District staff recommends the policy option for \$3,000,000 of coverage for an annual cost of \$7,069.20.

Financial Consideration

This is additional insurance coverage that is not currently included within the District budget. This cost of \$7,069.20 would be shared by the Water, Sewer and Recycled Water funds, Insurance Expenses [G/L Account #xx-506-56001]. If a budget adjustment is needed, it will be brought before the Board at a future meeting.



Yucaipa Valley Water District

2019 – 2020

Cyber Liability Insurance Proposal

Presented on September 18, 2019 by:

Seth Cole, ARM
Senior Vice President

Alliant Insurance Services, Inc.
100 Pine Street, 11th Floor
San Francisco, CA 94111
O 415 403 1400
F 415 402 0773
CA License No. 0C36861

www.alliant.com



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Company Profile

With a history dating back to 1925, Alliant Insurance Services is one of the nation's leading distributors of diversified insurance products and services. Operating through a national network of offices, Alliant offers a comprehensive portfolio of services to clients, including:

- Risk Solutions
- Employee Benefits
 - Strategy
 - Employee Engagement
 - Procurement
 - Analytics
 - Wellness
 - Compliance
 - Benefits Administration
 - Global Workforce
- Industry Solutions
 - Construction
 - Energy and Marine
 - Healthcare
 - Law Firms
 - Public Entity
 - Real Estate
 - Tribal Nations
 - And many other industries
- Co-Brokered Solutions
 - Automotive Specialty
 - Energy Alliance Program
 - Hospital All Risk Property Program
 - Law Firms
 - Parking/Valet
 - Public Entity Property Insurance Program
 - Restaurants/Lodging
 - Tribal Nations
 - Waste Haulers/Recycling
- Business Services
 - Risk Control Consulting
 - Human Resources Consulting
 - Property Valuation

The knowledge that Alliant has gained in its more than eight decades of working with many of the top insurance companies in the world allows us to provide our clients with the guidance and high-quality performance they deserve. Our solution-focused commitment to meeting the unique needs of our clients assures the delivery of the most innovative insurance products, services, and thinking in the industry.

Alliant ranks among the 15 largest insurance brokerage firms in the United States.



Alliant Advantage

	Alliant	Competition
1. Satisfying the insurance needs of business for nearly 90 years	✓	
2. Privately owned and operated.	✓	
3. A full-service insurance agency for all your business, life and health, and personal insurance.	✓	
4. Representing over 40 insurance companies to provide the best and most affordable coverage.	✓	
5. State-licensed support staff.	✓	
6. Dedicated Certificate of Insurance personnel.	✓	
7. Risk management services to help identify hazards and present options.	✓	
8. Workers' compensation insurance claims management at no additional charge.	✓	



Your Service Team

Seth Cole, ARM
Senior Vice President
scole@alliant.com

Phone: 415 4031419

Thary Ou, CLIC
Assistant Account Manager
tou@alliant.com

Phone: 415 403 1433



Named Insured / Additional Named Insureds

Named Insured(s)

Yucaipa Valley Water District

Additional Named Insured(s)

None

NAMED INSURED DISCLOSURE

- The first named insured is granted certain rights and responsibilities that do not apply to other policy named insureds and is designated to act on behalf of all insureds for making policy changes, receiving correspondence, distributing claim proceeds, and making premium payments.
- **Are ALL** entities listed as named insureds? Coverage is not automatically afforded to all entities unless specifically named. Confirm with your producer and service team that all entities to be protected are on the correct policy. Not all entities may be listed on all policies based on coverage line.
- Additional named insured is (1) A person or organization, other than the first named insured, identified as an insured in the policy declarations or an addendum to the policy declarations. (2) A person or organization added to a policy after the policy is written with the status of named insured. This entity would have the same rights and responsibilities as an entity named as an insured in the policy declarations (other than those rights and responsibilities reserved to the first named insured).
- Applies to Professional Liability, Pollution Liability, Directors & Officers Liability, Employment Practices Liability, Fiduciary Liability policies (this list not all inclusive). Check your Policy language for applicability. These policies provide protection to the Named Insured for claims made against it alleging a covered wrongful act. Coverage is not afforded to any other entities (unless specifically added by endorsement or if qualified as a "Subsidiary" pursuant to the policy wording) affiliated by common individual insured ownership or to which indemnification is otherwise contractually owed. If coverage is desired for affiliated entities or for contractual indemnities owed, please contact your Alliant Service Team with a full list of entities for which coverage is requested. With each request, include complete financials and ownership information for submission to the carrier. It should be noted, that the underwriter's acceptance of any proposed amendments to the policy, including expansion of the scope of "Insureds" under the policy could result in a potential diminution of the applicable limits of liability and/or an additional premium charge.



Line of Coverage

Cyber Liability Coverage

INSURANCE COMPANY:

1. Lloyd's of London
2. Argo Group US Inc.
3. HDI Global Specialty SE
4. Fidelis Underwriting Limited

A.M. BEST RATING:

1. A (Excellent), Financial Size Category: XV (\$2 Billion or greater) as of July 10, 2019
2. A (Excellent)
3. A (Excellent), Financial Size Category: XV (\$2 Billion or greater) as of January 11, 2019
4. A+ (Excellent), Financial Size Category: XII (\$1 Billion to \$1.25 Billion) as of August 30, 2019

STANDARD & POOR'S RATING:

1. A+(Strong) as of April 23, 2017
2. A – (Strong)
3. A+(Strong) as of May 18, 2018
4. Not Rated

CALIFORNIA STATUS:

Non - Admitted

POLICY/COVERAGE TERM:

12 Months

Coverage Form:

Cyber Liability - EVO 4.0 – Claims Made

Retroactive Date:

Full Prior Acts

Business Operations:

Water District

Gross Revenue:

\$ 12,562,321

Legal Action:

Worldwide

Territorial Scope:

Worldwide

Reputational Harm Period:

12 Months

Indemnity Period:

12 Months



Cyber Liability Coverage - Continued

Time Retention:	8 Hours
Limits:	
Combined Policy Aggregate Limit	\$ 1,000,000
Cyber Crime	Yes
Media Liability	Yes
Insuring Clauses 1 – 3 are Subject to an Each and Every Claim Limit:	
Insuring Clause 1: Cyber Incident Response (Separate Tower - Mirrors Policy Limit)	
Section A: Incident Response Costs	Full Limits
Section B: Legal and Regulatory Costs	Full Limits
Section C: IT Security and Forensic Costs	Full Limits
Section D: Crisis Communication Costs	Full Limits
Section E: Privacy Breach Management Costs	Full Limits
Section F: Third Party Privacy Breach Management Costs	Full Limits
Section G: Post Breach Remediation Costs	\$ 50,000 subject to a maximum of 10% of all sums we have paid as a direct result of the cyber event
Insuring Clause 2: Cyber Crime	
Section A: Funds Transfer Fraud (Social Engineering)	\$ 250,000
Section B: Theft of Funds Held In Escrow	\$ 250,000
Section C: Theft of Personal Funds	\$ 250,000
Section D: Extortion	Full Limits
Section E: Corporate Identity Theft	\$ 250,000
Section F: Telephone Hacking	\$ 250,000
Section G: Push Payment Fraud	\$ 50,000
Section H: Unauthorized Use of Computer Resources	\$ 250,000
Insuring Clause 3: System Damage and Business Interruption	
Section A: System Damage and Rectification Costs	Full Limits
Section B: Income Loss and Extra Expense	Full Limits
	\$ 1,000,000 sub-limited - in respect of system failure



Cyber Liability Coverage - Continued

Limits – Continued:

Section C: Additional Extra Expense	10% of the Overall Limit - Sub-limited to \$ 100,000 Maximum Sub-limit
Section D: Dependent Business Interruption	Full Limits \$ 1,000,000 sub-limited - in respect of system failure
Section E: Consequential Reputational Harm	Full Limits
Section F: Claim Preparation Costs	\$ 25,000
Section G: Hardware Replacement Costs	Full Limits
Insuring Clauses 4 – 7 are Subject to an Aggregate Limit:	
Insuring Clause 4: Network Security & Privacy Liability	
Section A: Network Security Liability	Full Limits, including costs and expenses
Section B: Privacy Liability	Full Limits, including costs and expenses
Section C: Management Liability	Full Limits, including costs and expenses
Section D: Regulatory Fines	Full Limits, including costs and expenses
Section E: PCI Fines, Penalties and Assessments	Full Limits, including costs and expenses
Insuring Clause 5: Media Liability	
Section A: Defamation	Full Limits, including costs and expenses
Section B: Intellectual Property Rights Infringement	Full Limits, including costs and expenses
Insuring Clause 6: Technology Errors and Omissions	
Technology Errors and Omissions	No Cover Provided
Insuring Clause 7: Court Attendance Costs	
Court Attendance Costs	\$ 100,000 in the aggregate
Deductible:	
	\$ 5,000 each and every claim, including costs and expenses
	\$ 0 Apply to Insuring Clause 1 - Section A; Insuring Clause 1 - Section G; Insuring Clause 3 - Section F; Insuring Clause 7 - Yucaipa Valley District
Defense Inside/Outside the Limit:	
	Inside the Limit



Cyber Liability Coverage - Continued

Who has the Duty to Defend:

Policy Form Exclusions:
(including but not limited to)

Endorsement & Exclusions:
(including but not limited to)

Insurer

- Business interruption liability
- Antitrust
- Associated companies
- Betterment
- Bodily injury and property damage
- Chargebacks
- Core internet infrastructure failure
- Domain name suspension or revocation
- Insolvency
- Known claims and circumstances
- Liquidated damages, service credits and penalty clauses
- Loss of economic value
- Management liability
- Misleading advertising
- Nuclear
- Patent infringement
- Payment card industry related fines, penalties and assessments
- Power and utility failure
- Product IP infringement
- Professional liability
- Property and hardware costs
- Regular hours staff costs
- Sanctions
- Terrorism
- Theft of funds held in escrow
- Uninsurable fines
- Unlawful surveillance
- Unsolicited communications
- War
- Willful or dishonest acts of senior executive officers

- Notice of TRIA



Cyber Liability Coverage - Continued

Total Cost Excluding TRIA:	\$ 4,150.00 Policy Premium \$ 300.00 Service Fee \$ 133.50 CA Surplus Taxes (3%) \$ 8.90 CA Stamping Fee (0.2%) \$ 4,592.40 Total Cost
Total Cost Including TRIA:	\$ 4,150.00 Policy Premium \$ 0.00 TRIA Premium \$ 300.00 Service Fee \$ 133.50 CA Surplus Taxes (3%) \$ 8.90 CA Stamping Fee (0.2%) \$ 4,592.40 Total Cost
Optional Coverages:	Option 2: \$ 2,000,000 Combined Policy Aggregate Limit Total Cost Excluding TRIA: \$ 5,600.00 Policy Premium \$ 300.00 Service Fee \$ 177.00 CA Surplus Taxes (3%) \$ 11.80 CA Stamping Fee (0.2%) \$ 6,088.80 Total Cost Total Cost Including TRIA: \$ 5,600.00 Policy Premium \$ 0.00 TRIA Premium \$ 300.00 Service Fee \$ 177.00 CA Surplus Taxes (3%) \$ 11.80 CA Stamping Fee (0.2%) \$ 6,088.80 Total Cost Option 3: \$ 3,000,000 Combined Policy Aggregate Limit Total Cost Excluding TRIA: \$ 6,550.00 Policy Premium \$ 300.00 Service Fee \$ 205.50 CA Surplus Taxes (3%) \$ 13.70 CA Stamping Fee (0.2%) \$ 7,069.20 Total Cost



Cyber Liability Coverage - Continued

Optional Coverages - Continued:

Total Cost Including TRIA:	
\$ 6,550.00	Policy Premium
\$ 0.00	TRIA Premium
\$ 300.00	Service Fee
\$ 205.50	CA Surplus Taxes (3%)
\$ 13.70	CA Stamping Fee (0.2%)
\$ 7,069.20	Total Cost

Minimum Earned Premium:

Not Applicable

Quote Valid Until:

October 11, 2019

Policy Auditable:

Not Auditable

Binding Conditions:

- A written request to bind coverage
- All Surplus Lines Taxes/Fees are Fully Eamed
- Signed TRIA
- For Surplus Lines filing: Complete the CA tax form (included in hyperlink)

See Disclaimer Page for Important Notices and Acknowledgement



Disclosures

This proposal of insurance is provided as a matter of convenience and information only. All information included in this proposal, including but not limited to personal and real property values, locations, operations, products, data, automobile schedules, financial data and loss experience, is based on facts and representations supplied to Alliant Insurance Services, Inc. by you. This proposal does not reflect any independent study or investigation by Alliant Insurance Services, Inc. or its agents and employees.

Please be advised that this proposal is also expressly conditioned on there being no material change in the risk between the date of this proposal and the inception date of the proposed policy (including the occurrence of any claim or notice of circumstances that may give rise to a claim under any policy which the policy being proposed is a renewal or replacement). In the event of such change of risk, the insurer may, at its sole discretion, modify, or withdraw this proposal, whether or not this offer has already been accepted.

This proposal is not confirmation of insurance and does not add to, extend, amend, change, or alter any coverage in any actual policy of insurance you may have. All existing policy terms, conditions, exclusions, and limitations apply. For specific information regarding your insurance coverage, please refer to the policy itself. Alliant Insurance Services, Inc. will not be liable for any claims arising from or related to information included in or omitted from this proposal of insurance.

Alliant embraces a policy of transparency with respect to its compensation from insurance transactions. Details on our compensation policy, including the types of income that Alliant may earn on a placement, are available on our website at www.alliant.com. For a copy of our policy or for any inquiries regarding compensation issues pertaining to your account you may also contact us at: Alliant Insurance Services, Inc., Attention: General Counsel, 701 B Street, 6th Floor, San Diego, CA 92101.

Analyzing insurers' over-all performance and financial strength is a task that requires specialized skills and in-depth technical understanding of all aspects of insurance company finances and operations. Insurance brokerages such as Alliant Insurance typically rely upon rating agencies for this type of market analysis. Both A.M. Best and Standard and Poor's have been industry leaders in this area for many decades, utilizing a combination of quantitative and qualitative analysis of the information available in formulating their ratings.

A.M. Best has an extensive database of nearly 6,000 Life/Health, Property Casualty and International companies. You can visit them at www.ambest.com. For additional information regarding insurer financial strength ratings visit Standard and Poor's website at www.standardandpoors.com.

Our goal is to procure insurance for you with underwriters possessing the financial strength to perform. Alliant does not, however, guarantee the solvency of any underwriters with which insurance or reinsurance is placed and maintains no responsibility for any loss or damage arising from the financial failure or insolvency of any insurer. We encourage you to review the publicly available information collected to enable you to make an informed decision to accept or reject a particular underwriter. To learn more about companies doing business in your state, visit the Department of Insurance website for that state.



NY Regulation 194

Alliant Insurance Services, Inc. is an insurance producer licensed by the State of New York. Insurance producers are authorized by their license to confer with insurance purchasers about the benefits, terms and conditions of insurance contracts; to offer advice concerning the substantive benefits of particular insurance contracts; to sell insurance; and to obtain insurance for purchasers. The role of the producer in any particular transaction typically involves one or more of these activities.

Compensation will be paid to the producer, based on the insurance contract the producer sells. Depending on the insurer(s) and insurance contract(s) the purchaser selects, compensation will be paid by the insurer(s) selling the insurance contract or by another third party. Such compensation may vary depending on a number of factors, including the insurance contract(s) and the insurer(s) the purchaser selects. In some cases, other factors such as the volume of business a producer provides to an insurer or the profitability of insurance contracts a producer provides to an insurer also may affect compensation.

The insurance purchaser may obtain information about compensation expected to be received by the producer based in whole or in part on the sale of insurance to the purchaser, and (if applicable) compensation expected to be received based in whole or in part on any alternative quotes presented to the purchaser by the producer, by requesting such information from the producer.

Other Disclosures / Disclaimers

FATCA:

The Foreign Account Tax Compliance Act (FATCA) requires the notification of certain financial accounts to the United States Internal Revenue Service. Alliant does not provide tax advice so please contact your tax consultant for your obligation regarding FATCA.

Claims Reporting:

Your policy will come with specific claim reporting requirements. Please make sure you understand these obligations. Contact your Alliant Service Team with any questions.

Claims Made Policy:

This claims-made policy contains a requirement stating that this policy applies only to any claim first made against the Insured and reported to the insurer during the policy period or applicable extended reporting period. Claims must be submitted to the insurer during the policy period, or applicable extended reporting period, as required pursuant to the Claims/Loss Notification Clause within the policy in order for coverage to apply. Late reporting or failure to report pursuant to the policy's requirements could result in a disclaimer of coverage by the insurer.

NRRA:

The Non-Admitted and Reinsurance Reform Act (NRRA) went into effect on July 21, 2011. Accordingly, surplus lines tax rates and regulations are subject to change which could result in an increase or decrease of the total surplus lines taxes and/or fees owed on this placement. If a change is required, we will promptly notify you. Any additional taxes and/or fees must be promptly remitted to Alliant Insurance Services, Inc.



Other Disclosures / Disclaimers - Continued

Changes and Developments

It is important that we be advised of any changes in your operations, which may have a bearing on the validity and/or adequacy of your insurance. The types of changes that concern us include, but are not limited to, those listed below:

- Changes in any operations such as expansion to another states, new products, or new applications of existing products.
- Travel to any state not previously disclosed.
- Mergers and/or acquisition of new companies and any change in business ownership, including percentages.
- Any newly assumed contractual liability, granting of indemnities or hold harmless agreements.
- Any changes in existing premises including vacancy, whether temporary or permanent, alterations, demolition, etc. Also, any new premises either purchased, constructed or occupied
- Circumstances which may require an increased liability insurance limit.
- Any changes in fire or theft protection such as the installation of or disconnection of sprinkler systems, burglar alarms, etc. This includes any alterations to the system.
- Immediate notification of any changes to a scheduled of equipment, property, vehicles, electronic data processing, etc.
- Property of yours that is in transit, unless previously discussed and/or currently insured.

Certificates / Evidence of Insurance

A certificate is issued as a matter of information only and confers no rights upon the certificate holder. The certificate does not affirmatively or negatively amend, extend or alter the coverage afforded by a policy. Nor does it constitute a contract between the issuing insurer(s), authorized representative, producer or certificate holder.

You may have signed contracts, leases or other agreements requiring you to provide this evidence. In those agreements, you may assume obligations and/or liability for others (Indemnification, Hold Harmless) and some of the obligations that are not covered by insurance. We recommend that you and your legal counsel review these documents.

In addition to providing a certificate of insurance, you may be required to name your client or customer on your policy as an additional insured. This is only possible with permission of the insurance company, added by endorsement and, in some cases, an additional premium.

By naming the certificate holder as additional insured, there are consequences to your risks and insurance policy including:

- Your policy limits are now shared with other entities; their claims involvement may reduce or exhaust your aggregate limit.
- Your policy may provide higher limits than required by contract; your full limits can be exposed to the additional insured.
- There may be conflicts in defense when your insurer has to defend both you and the additional insured.

See Request to Bind Coverage page for acknowledgment of all disclaimers and disclosures.



Optional Coverages

The following represents a list of insurance coverages that are not included in this proposal, but are optional and may be available with further underwriting information.

Note some of these coverages may be included with limitations or insured elsewhere. This is a partial listing as you may have additional risks not contemplated here or are unique to your organization.

- Crime / Fidelity Insurance
- Directors & Officers Liability
- Earthquake Insurance
- Employed Lawyers
- Employment Practices Liability
- Event Cancellation
- Fiduciary Liability
- Fireworks Liability
- Flood Insurance
- Foreign Insurance
- Garage Keepers Liability
- Kidnap & Ransom
- Law Enforcement Liability
- Media and Publishers Liability
- Medical Malpractice Liability
- Pollution Liability
- Owned/Non-Owned Aircraft
- Owned Watercraft
- Special Events Liability
- Student Accident
- Volunteer Accidental Death & Dismemberment (AD&D)
- Workers' Compensation
- Workplace Violence

Glossary of Insurance Terms

Below are a couple of links to assist you in understanding the insurance terms you may find within your insurance coverages:

<http://insurancecommunityuniversity.com/UniversityResources/InsuranceGlossaryFREE.aspx>

<http://www.ambest.com/resource/glossary.html>

<http://www.irmi.com/online/insurance-glossary/default.aspx>



Request to Bind Coverage

Yucaipa Valley Water District

We have reviewed the proposal and agree to the terms and conditions of the coverages presented. We are requesting coverage to be bound as outlined by coverage line below:

Coverage Line	Bind Coverage for:
Cyber Liability	
• Option 1 - \$1,000,000 Limit	<input type="checkbox"/>
• Option 2 - \$2,000,000 Limit	<input type="checkbox"/>
• Option 3 - \$3,000,000 Limit	<input type="checkbox"/>

This Authorization to Bind Coverage also acknowledges receipt and review of all disclaimers and disclosures, including exposures used to develop insurance terms, contained within this proposal.

Signature of Authorized Insurance Representative	Date
Title	
Printed / Typed Name	

This proposal does not constitute a binder of insurance. Binding is subject to final carrier approval. *The actual terms and conditions of the policy will prevail.*



Date: October 15, 2019

Prepared By: Kathryn Hallberg, Implementation Manager

Subject: Consideration of a Workers' Compensation Insurance Policy

Recommendation: That the Board authorize the General Manager to execute the necessary contracts with Redwood F&C Berkshire Hathaway for workers' compensation insurance.

Yucaipa Valley Water District currently has a workers' compensation insurance policy with EPIC Brokers with insurance coverage provided by Berkshire and Hathaway.

The District has investigated and requested a variety of quotes. The attached spreadsheet details the quotes received. Redwood F&C Berkshire Hathaway submitted a quote for \$146,922 and has the strongest AM Best Rating of A++XV, which is the highest rating given and has more than sufficient financial capacity to provide the necessary policy limits.

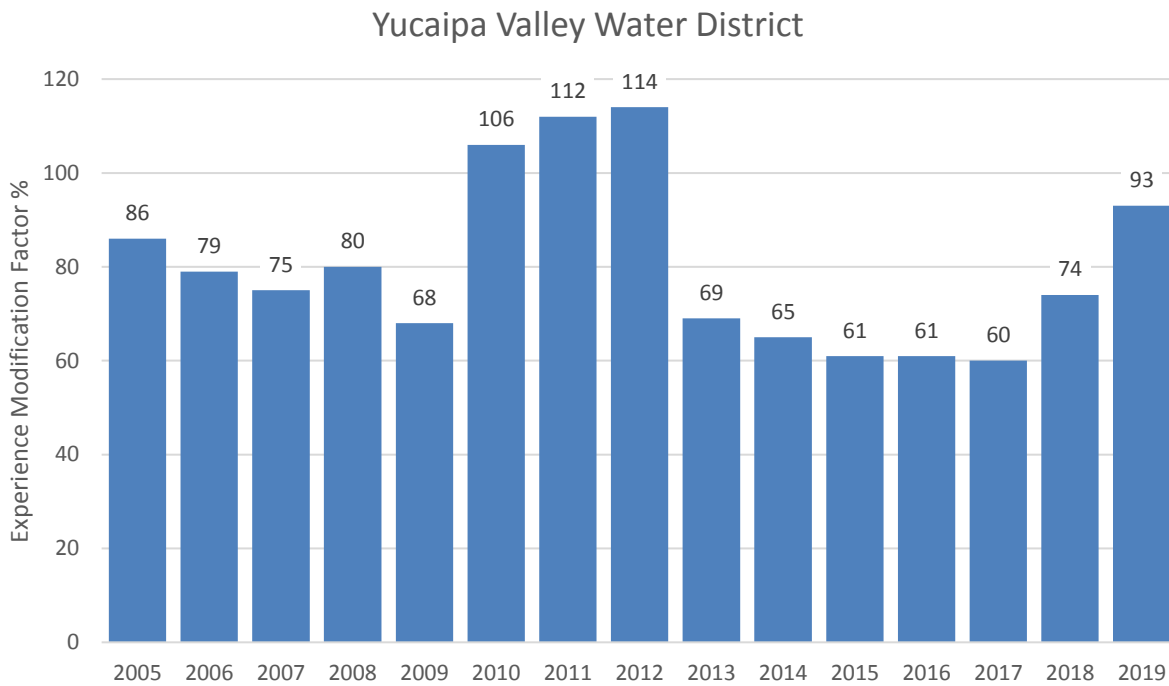
Cal Mutual JPRIMA's provided a premium quote of \$144,582 with a rating of A XII; while the quote is less than Redwood F&C Berkshire Hathaway it requires a 3-year commitment without a guarantee of price locking the premium in the following years.

The Experience Modification percentage increased from 74% in the 2018-19 policy to 93% in the 2019-20 policy. This was due to an increased amount for claims and actual losses from \$13,907 for 2018-19 to \$117,301 for 2019-20. This does not reflect the District safety record; the District maintains a good safety record that has allowed the broker to obtain multiple competitive quotes. Also taken into consideration for the 2019-20 quote is a payroll increase of 9.2% from the 2018-19 policy from standard salary increases and the recruitment of additional employees.

Policy Period	Claims	Actual Losses	%/Claim
11/01/2017 – 10/31/2018	44044440	\$105,093	18.337%
	44038586	\$9,178	6.358%
	UNDER \$2,001	\$3,030	1.165%
11/01/2016 - 10/31/2017	44031580	\$5,985	4.530%
	44032050	\$5,831	4.414%
	UNDER \$2,001	\$2,091	1.583%
11/01/2015 - 10/31/2016	UNDER \$2,001	\$2,982	2.257%
11/01/2014 - 10/31/2015	UNDER \$2,001	\$2,377	1.799%
	Loss-Free Experience Modification		56.962%
	Calculated Experience Modification		93.246%

The table details the actual losses for the last four years that effect the Experience Modification Factor.

The chart below provides the historical Experience Modification Factor percentages from 2005 to 2018.



Staff recommends that the Board selects Redwood F&C Berkshire Hathaway due to the proposal cost, long-term working relationship, and a solid financial rating of A++XV.

Financial Consideration

Funding for the insurance was included in the fiscal year 2019-20 budget and will be split between the Water, Sewer and Recycled Water Funds, Workers Compensation account [G/L Account 50019].



**YUCAIPA VALLEY WATER DISTRICT
Workers Compensation Renewal Comparison**

			10/31/18 to 10/31/19			10/31/19 to 10/31/20			10/31/19 to 5/01/20 (Short-Term)		
			Redwood F&C (BHHC)			Redwood F&C (BHHC)			Short-Term Payroll Used Cal Mutual JPRIMA The Zenith		
AM Best Rating			A ++ XV			A ++ XV			A XII		
State	Class Code	Description	Estimated Payroll	Base Rate	Net Rate	Estimated Payroll	Base Rate	Net Rate	Estimated Payroll	Base Rate	Net Rate
CA	7520	Waterworks Ops	\$3,349,402	6.51	2.71	\$2,816,047	5.83	3.06	\$1,411,881	4.32	3.01
CA	7580	Sanitation	\$666,604	7.35	3.06	\$1,684,198	6.10	3.21	\$844,406	4.52	3.15
CA	8810	Clerical – NOC	\$1,410,313	0.71	0.30	\$1,467,439	0.83	0.44	\$735,730	0.46	0.43
CA	8742	Salespersons-O/S	\$465,206	0.92	0.38	\$470,357	0.61	0.32	\$235,823	0.61	0.32
		Experience Modification Factor	74%			93%			93%		
		Total Annual Payroll	\$5,891,525			\$6,438,041			\$6,438,041		
		Total Short Term Payroll							\$3,227,840		
		* Short Term Premium							\$72,719		
		* Estimated Annual Premium	\$117,066			\$146,922			\$144,582		

*Premium Does Not Include State Taxes and Fees

MARKET RESPONSE

- Redwood/BHHC - Incumbent, Quote \$146,922
- JPRIMA/Zenith - Quotes \$144,582 Annual / \$72,719 Short-Term
- State Fund - Indication \$230k - \$282k
- Liberty - Quote \$199,042
- Atlas General - submitted
- Star Stone - submitted
- Hartford - submitted
- ICW - submitted
- Amtrust - Declined
- Arrowhead - Declined
- Chubb - Declined
- Comp West - Declined
- Employers - Declined
- Everest - Declined, minimum premium \$500k
- Pacific Comp - Declined
- Preferred - Declined
- Protective - Declined
- Republic Indemnity - Declined
- Travelers, Declined



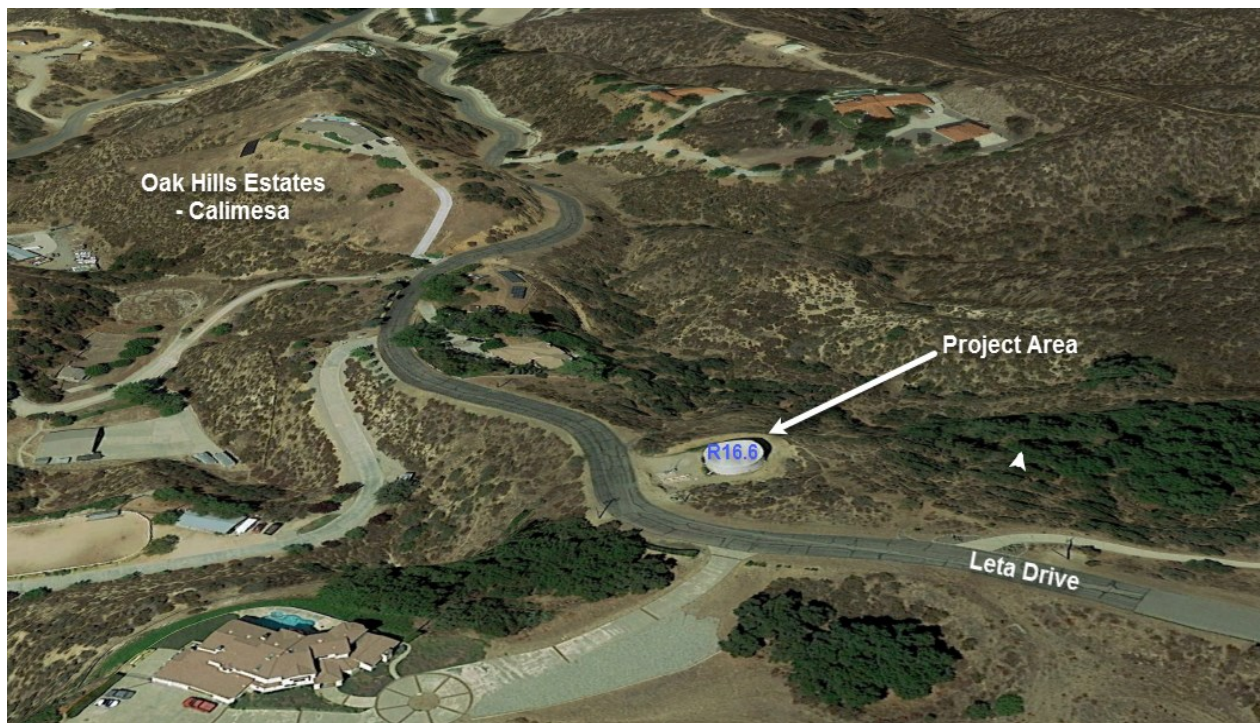
Date: October 15, 2019

Prepared By: Matthew Porras, Implementation Manager

Subject: Authorization to Solicit Bids for the Replacement of the Drinking Water Reservoir R16.6 - Calimesa

Recommendation: That the Board authorize the General Manager to solicit bids for the replacement of the Drinking Water Reservoir R-16.6.

The District owns and operates a drinking water storage facility [Asset ID: PW-R-13016.6] that was initially constructed in the early 1980's when the Oak Hills Estates residential area was developed. The R-16.6 reservoir serves drinking water to the 16.6 pressure zone within the residential area.



In the past few years of the reservoir's almost 40-year life, District staff has been observing and monitoring the deteriorating condition. Most recently, numerous leaks on the exterior walls of the tank have developed and have signaled the end of this assets useful life. The replacement of this tank is recommended before the condition becomes more severe.

District staff is planning the replacement of the steel bolted tank in the same location. Traditional options of tank construction include bolted steel, welded steel, or reinforced concrete. Some

advantages of the bolted steel tanks are the relatively short manufacturing time, construction time, and overall cost. In addition, the individual panels of a bolted steel tank are constructed off site and their protective coating is applied off site resulting in a reduced on site fabrication and construction effort. The lifespan of a bolted steel tank is typically 40 years.

The new tank will comply with current seismic requirements with a concrete ring wall that will provide the tank a solid foundation and secure bolt down installation. Our current tank (pictured below) is 24 feet tall and 37 feet in diameter with approximately 195,000 gallons of useable capacity. Without extensive grading, the new tank can be increased in size to 32 feet tall and 47 feet wide. The additional height of the new tank would provide the freeboard needed to comply with updated construction standards and the additional width would provide the usable capacity of approximately 298,000 gallons, an increase of over 100,000 gallon capacity.

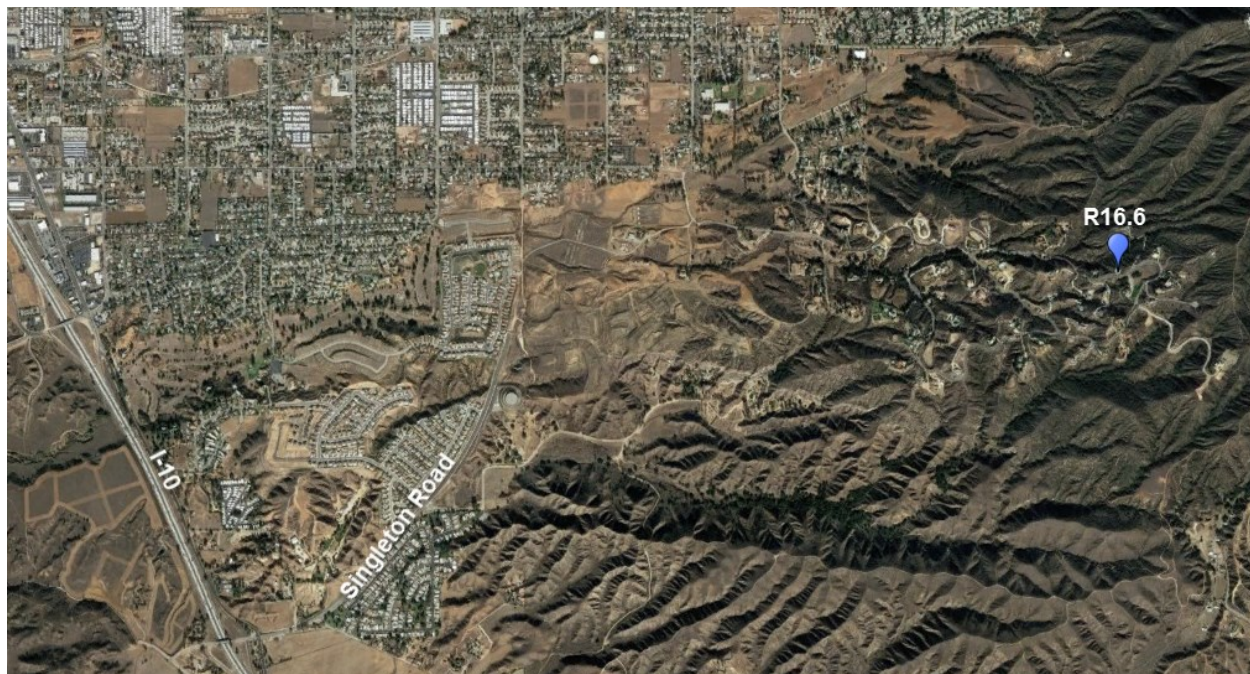


The proposed project would require a temporary storage solution during the demolition and construction of the new tank. If the District staff receives authorization to proceed with this project at the October 15, 2019 board meeting, a new tank can be operational by June 2020. With the deteriorating condition of the existing tank, the timing of the installation of the temporary tank system should be considered a priority.

A temporary tank solution will need to be established before the demolition of the existing tank and preferably installed in the near future. Options for the temporary tank include either purchasing or renting the portable water tank(s) as well as the type and size of the temporary tank(s).

A geotechnical report will need to be completed to ensure the proposed tank is designed and constructed appropriately as well as processing the necessary environmental documents.

Therefore, the District staff is requesting the authorization to solicit bids for the replacement of drinking water reservoir R16.6 with the construction contract to include the demolition of the existing tank, the design and engineering of the new tank, furnishing, installing, and testing the new tank and the required onsite piping. A proposed construction schedule will be required for all bidders to provide the opportunity to evaluate the cost and timeframe as lead times vary from tank manufactures.



Financial Consideration:

District staff estimates this project could cost between \$400,000-\$600,000 and will be paid for by the Water Fund, Infrastructure Reserves [G/L Account #02-000-10311]. This project was included in the CIP budget estimated for fiscal year 2021-22 but as a result of the urgency will be moved to the current fiscal year. An engineer's estimate will be included in the group of bids for your consideration.



Date: October 15, 2019

Prepared By: Matthew Porras, Implementation Manager
Jennifer Ares, Water Resource Manager

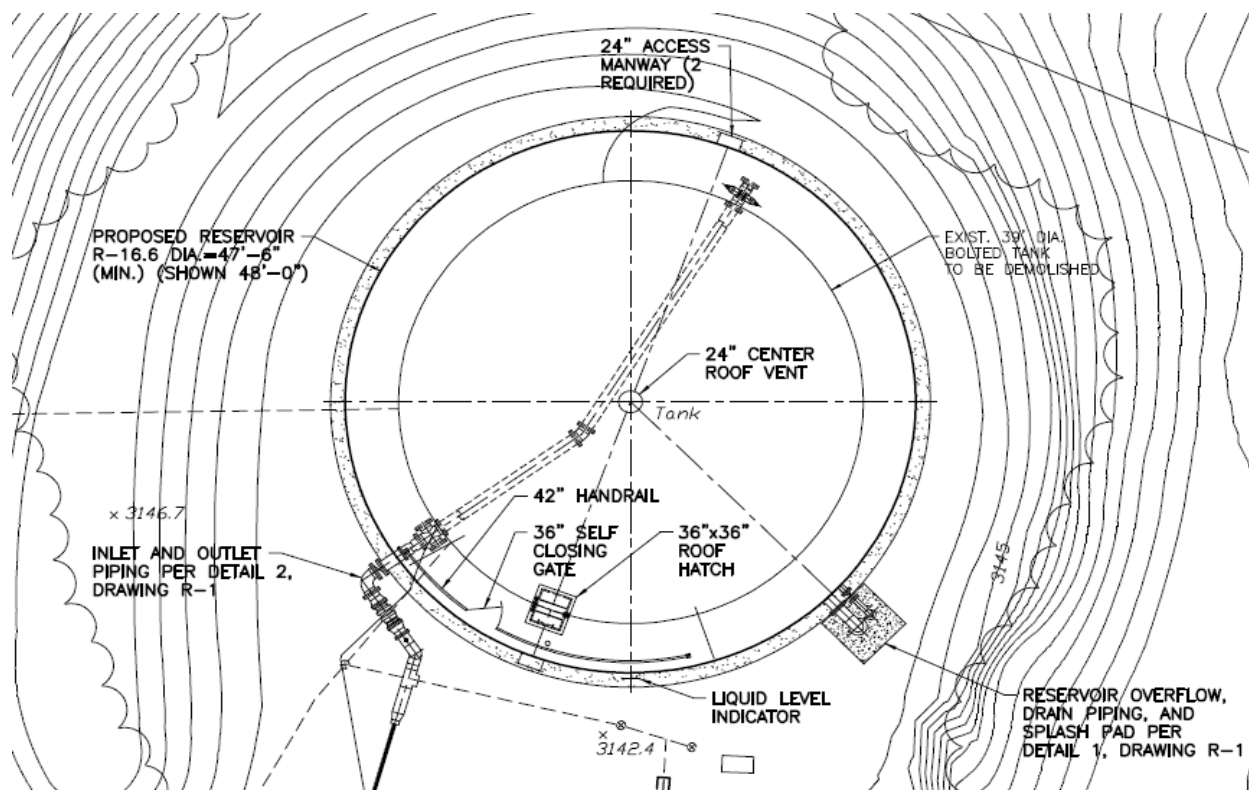
Subject: Consideration of Resolution No. 2019-20 Approving the Notice of Exemption for the Replacement of Drinking Water Reservoir R-16.6

Recommendation: That the Board adopt Resolution No. 2019-20.

The District owns and operates a drinking water storage facility in Calimesa [Asset ID: PW-R-13016.6]. The tank was initially put into service in the early 1980's when the Oak Hills Estates residential area was developed. The PW-R-13016.6 (R-16.6) reservoir serves drinking water to the 16.6 pressure zone within the residential area.



The project will consist of removal of the existing drinking water reservoir (bolted steel tank) and installing a new tank within the same location and footprint. The existing tank has a diameter of 38 feet, with a height of 24 feet. The replacement tank will measure 47 feet in diameter, 32 feet tall. The center point of the new tank will align with the existing tank, increasing the circumference by 4.5 feet. See the figure below.



In the past few years of the reservoir's approximate 40-year life, District staff has been observing and monitoring the deteriorating condition. Most recently, numerous leaks on the exterior walls of the tank have developed and have signaled the end of this asset's useful life.

The proposed project would require a temporary storage solution and onsite booster to supply water demands during the demolition and construction of the new tank. The temporary tank solution will need to be established, prior to the demolition of the existing tank.

A Notice of Determination has been prepared for consideration by the Yucaipa Valley Water District Board of Directors. The determination for this project will be submitted as a Notice of Exemption (NOE). The NOE determination is based on the California Environmental Quality Act (CEQA), Article 19, Categorical Exemption Section 15302 Replacement or Reconstruction. The new tank will replace the existing tank with no major grading requirements to accommodate for the larger size of the new tank. The new tank will require a concrete ring wall foundation as well as connections to on-site piping. The CEQA documentation and Board action must then be issued to the Department of Drinking Water for direct review.

Resolution No. 2019-20 is attached for Board consideration.

Financial Impact

There is no financial impact associated with the adoption of this resolution.

RESOLUTION NO. 2019-20**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
YUCAIPA VALLEY WATER DISTRICT APPROVING THE NOTICE OF EXEMPTION
FOR THE REPLACEMENT OF DRINKING WATER RESERVOIR R-16.6**

WHEREAS, the Yucaipa Valley Water District (the "District") is a public agency of the State of California organized and existing pursuant to the provisions of the County Water District Law of this State (Section 30000, et seq. of the Water Code); and

WHEREAS, the District is responsible for the maintenance of water and wastewater facilities within the District's service area; and

WHEREAS, the District has completed a design for the replacement of Reservoir 16.6 recognizing the need to upgrade aging infrastructure. The reservoir replacement will take place at the same location as the existing reservoir.

NOW, THEREFORE, the Board of Directors of the Yucaipa Valley Water District hereby RESOLVE, DETERMINE, and ORDER as follows:

1. The Board of Directors hereby finds that approval of the Project is not subject to environmental review under the California Environmental Quality Act (CEQA), Public Resources Code §21000 et seq. and the State CEQA Guidelines, California. Article 5, 15062 Notice of Exemption.
2. The replacement of Reservoir 16.6 is classified as Article 19, Categorical Exemption, 15302. Replacement or Reconstruction, (c) Replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity.
3. The Board of Directors hereby directs District staff to file a Notice of Exemption for the project within five working days of approval of the 16.6 Reservoir Replacement Project.
3. The Board of Directors hereby approves the Reservoir 16.6 Replacement Project and directs the General Manager to file the Notice of Exemption with the County of Riverside and the Office of Planning and Research.

PASSED, APPROVED and ADOPTED this 15th day of October 2019.

YUCAIPA VALLEY WATER DISTRICT

Chris Mann, President Board of Directors

ATTEST:

Joseph B. Zoba, General Manager



Date: October 15, 2019

Prepared By: Matthew Porras, Implementation Manager

Subject: Authorization to Purchase Temporary Portable Tanks for Use During the Replacement of Drinking Water Reservoir R-16.6

Recommendation: That the Board authorize the General Manager to purchase temporary portable tanks for use during the replacement of Drinking Water Reservoir R-16.6.

The proposed replacement of the Drinking Water Reservoir R-16.6 will require a temporary storage solution during the demolition and construction of the new tank. Options for the temporary tank include either purchasing or renting the portable water tank(s) as well as the type and size of the temporary tank(s).

The three most feasible options for temporary storage include a portable poly roto-molded vertical tanks, permanently installed vertical steel tanks, and portable steel horizontal tanks. The table below provides a comparison of the tank options considered by District staff.

	Portable Poly Vertical	Portable Steel Horizontal	Permanent Steel Bolted
Rental (8 Months)	\$25,105	\$43,906	N/A
Purchase	\$22,900	\$103,000	\$55,000
Rental Payback Period	7 Months	18 Months	N/A

District staff recommends the purchase of two portable poly vertical tanks, which would provide 31,000 gallons of storage capacity. The portable tanks would be able to be used in the future for various uses.

Financial Impact

The purchase of the tanks will be paid from the Water Fund, Infrastructure Reserves [G/L Account # 02-000-10311] and will be an asset of the District.



Plastic-Mart
 685 John B Sias Memorial Pkwy Ste 330
 Edgcliff Village, Texas 76134
 info@plastic-mart.com

Sales Quote

Quote # PM016267-Q
 Quote Date: 10/09/2019 Expires: 11/08/2019

Tel: (866) 310-2556 Fax:

To: Matt Porras
 12770 2nd Street
 Yucaipa, California, 92399-0000
 P: 909-499-5637

Ship to: Matt Porras
 12770 2nd Street
 Yucaipa, California, 92399-0000
 P: 909-499-5637

Sales Rep: **Andrew Sancillo** | 682-255-4023 | andrew@plastic-mart.com

Qty	Item	Description	Unit Price	Row Total
2	N 44814	15500 Gallon Norwesco Plastic Potable Water Storage Tank	\$10,000.00	\$20,000.00
			Subtotal:	\$20,000.00
			Freight:	\$1,550.00
			Tax:	\$1,550.00
			Total:	\$22,900.00

Freight Carrier: Manufacturer



Date: October 15, 2019

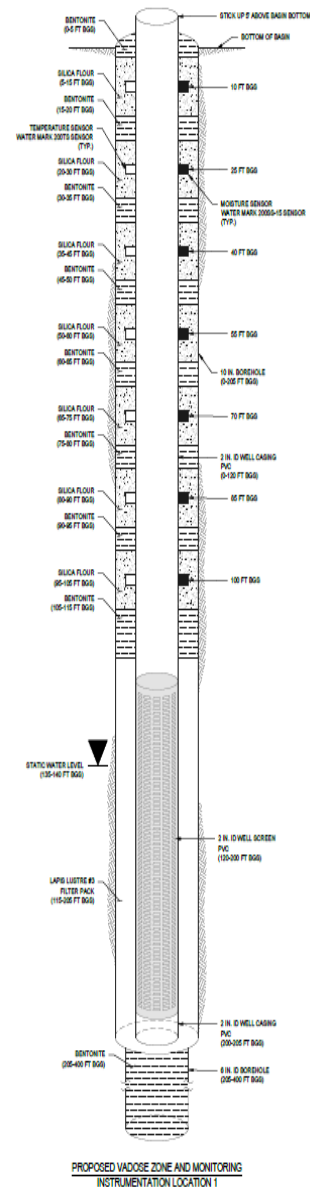
Prepared By: Joseph Zoba, General Manager

Subject: Status Report on the Geotechnical Investigation for the Artificial Groundwater Recharge Project in the Beaumont Groundwater Basin

Recommendation: Pending.

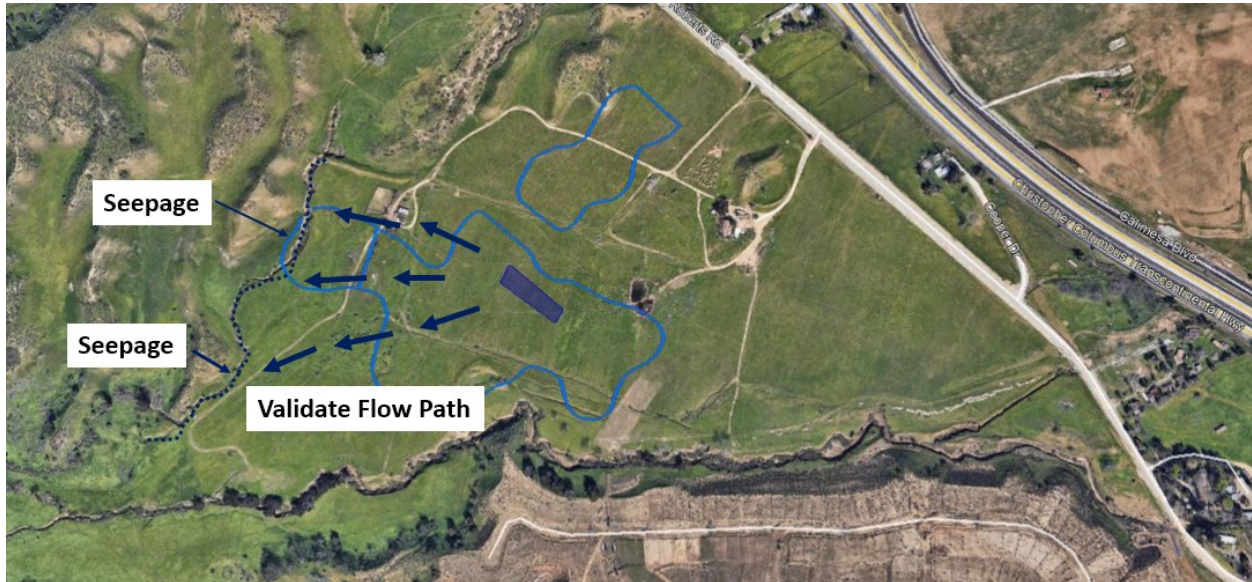
On November 6, 2018, the Board of Directors authorized the General Manager to execute a contract with Geoscience to investigate the long-term infiltration rates in the western portion of the Beaumont Basin.

The District staff coordinated the construction of a 300 foot long and 75 feet wide recharge test basin. The testing utilized special instrumentation designed to measure changes in moisture and temperature at various depths at two separate locations to measure the rate of surface water infiltration into the groundwater.



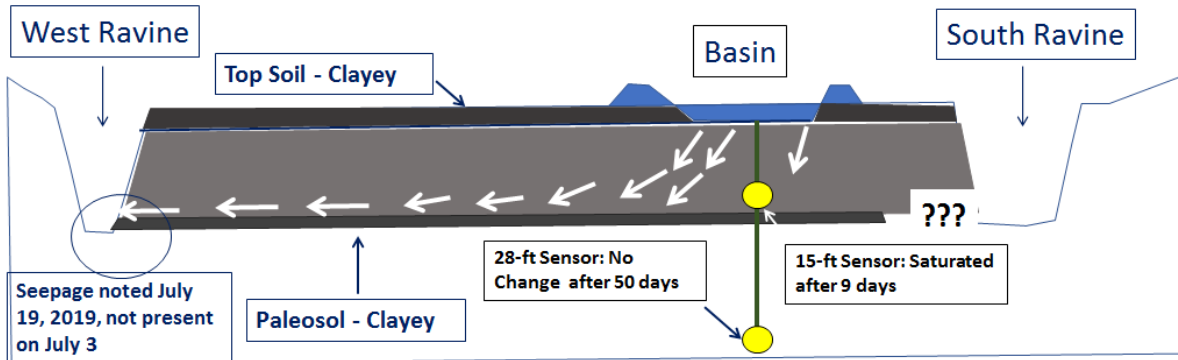
On April 20, 2019, the initial test was stopped to re-evaluate the project due to slow infiltration. The District staff drained the basin, tested the soils in the basin, and removed additional soil from the basin to reach a more permeable layer of soil. Following the modifications to the basin, the District staff and Geoscience restarted the infiltration investigation.

Based on the results of this initial phase of the study, the infiltration testing showed the movement of groundwater in a westerly direction instead of traveling vertically to reach the groundwater basin.



The following illustration shows how it is possible for the recharge water to move laterally instead of vertically to the groundwater basin.

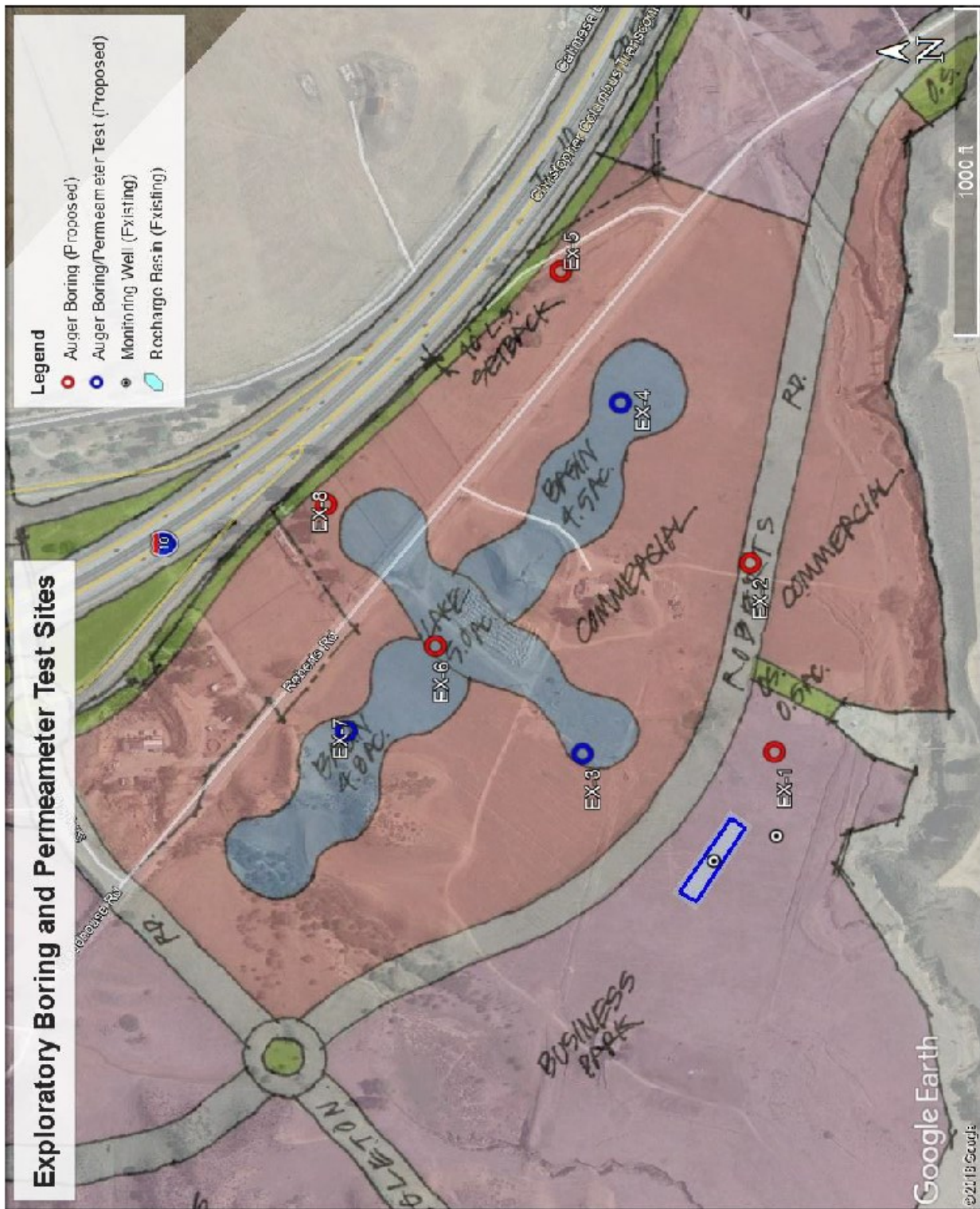
Hydrogeologic Conceptual Model Shallow Zone



As a result of the initial testing, the District staff requested a proposal from Geoscience to conduct additional geological testing in the easterly portion of the groundwater basin. On September 3, 2019, the Board of Directors authorized Geoscience to proceed with additional tasks to further evaluate the long-term infiltration rates in the westerly portion of the Beaumont Basin [Director Memorandum No. 19-097].

The additional scientific study was developed to: (1) conduct additional exploratory drilling and testing; (2) perform additional infiltration testing; (3) prepare a groundwater model that will be used to support the recharge of recycled water at this location.

The Board of Directors requested that regular updates are provided to determine whether or not to continue with the proposed project. The District staff will add agenda items to future workshops and board meetings in order to provide weekly updates on the status of the project.









Date: October 15, 2019

Prepared By: Matthew Porras, Implementation Manager

Subject: Authorization to Construct a Dais, Desk and Podium in the Boardroom

Recommendation: That the Board authorize the General Manager to execute the proposal with Doc's Woodshop for a sum not to exceed \$15,628.

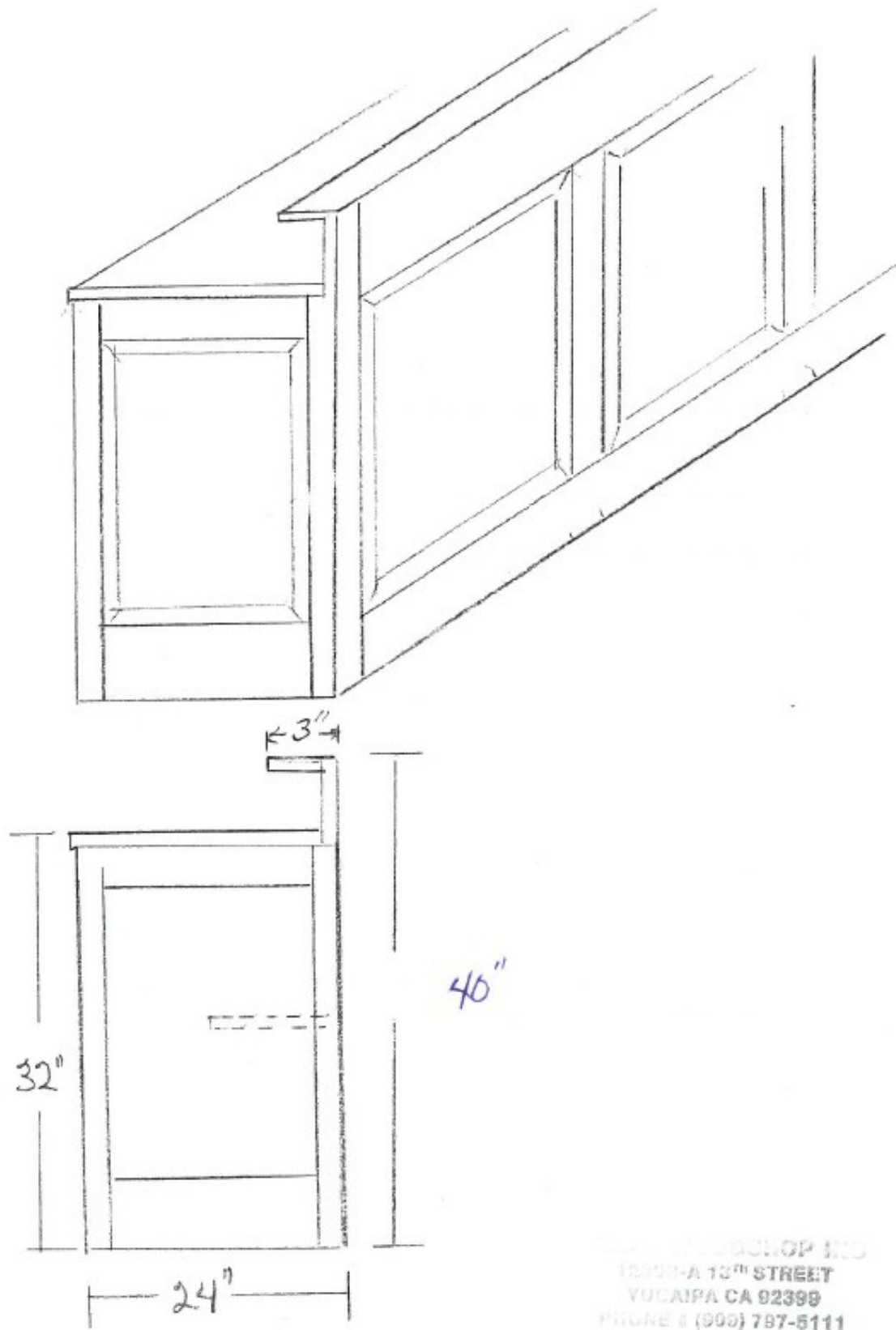
District staff is pursuing a design and construction of a new dais for the boardroom at the District office. Due to other priorities, the boardroom has been outfitted with portable folding tables with cloth covers in place of a permanent dais for the past several years.

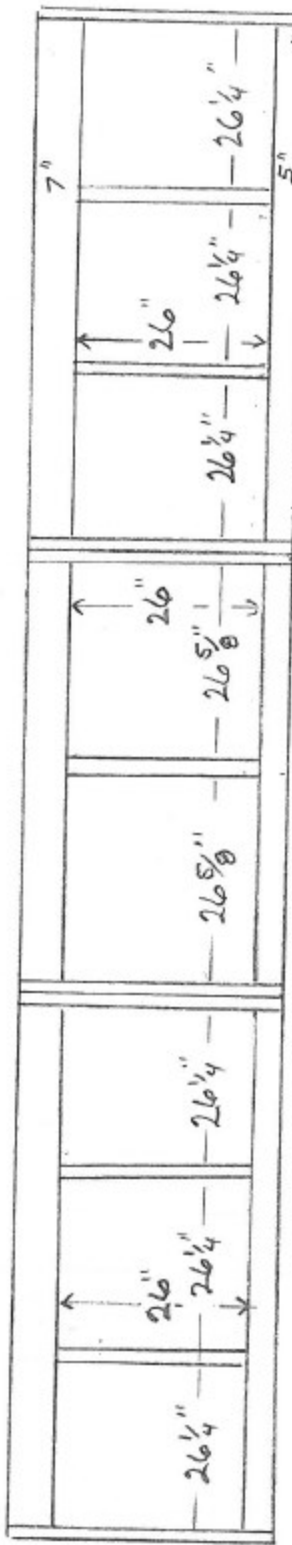


The proposed dais, desk and podium will match the color scheme of the existing furniture and include an arched design that is concave towards the audience. This will allow the allow board members to better interact during deliberations at workshops and board meetings.

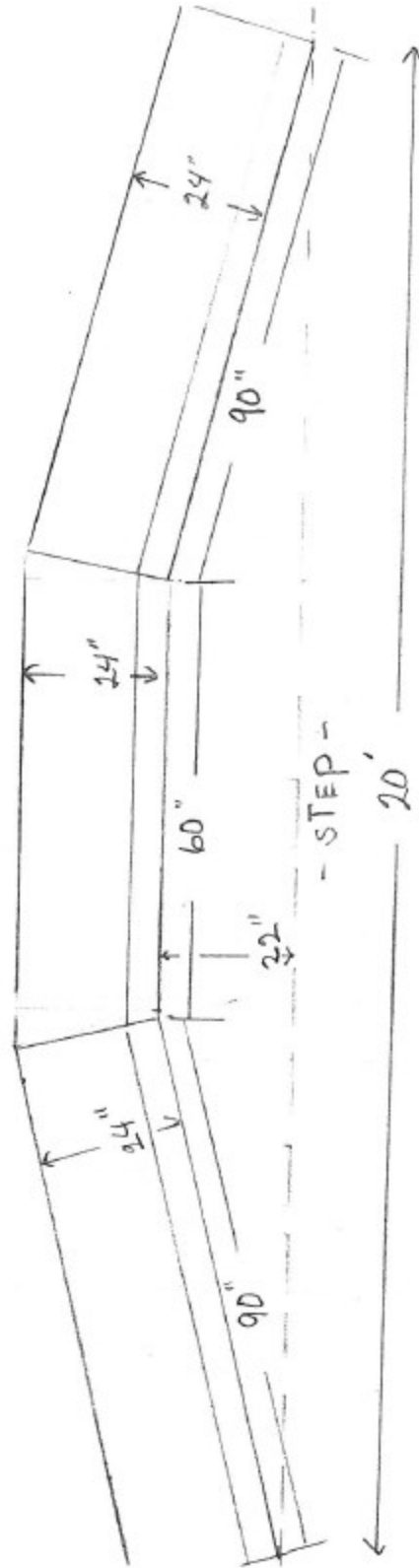
Financial Impact

This project cost will be paid by the Water Fund, R&M Structures [G/L Account # 02-506-51003]. The costs from this G/L account are shared via a budgetary transfer later in the fiscal year with the Sewer Fund.

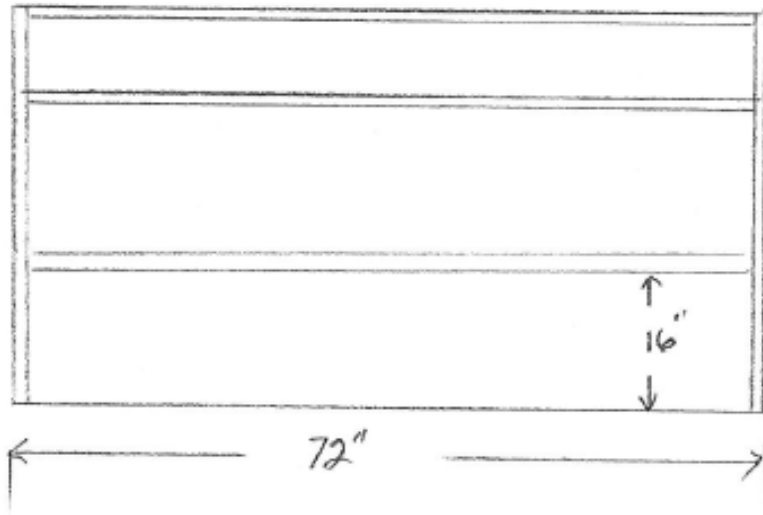




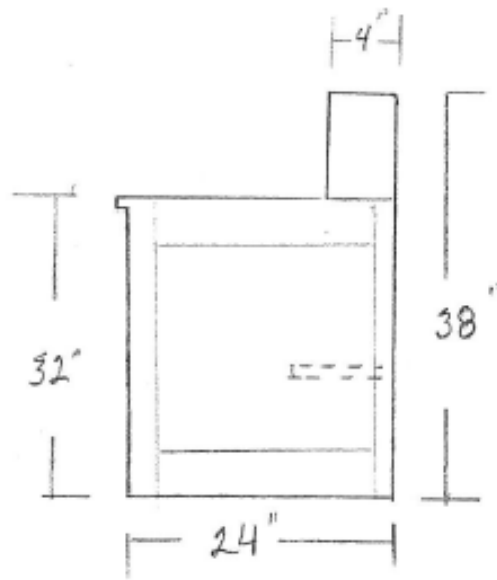
ALL STIALS 2 1/2"

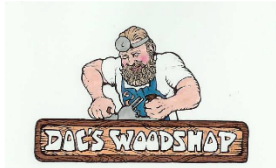


DOC'S WOODSHOP INC
 12398-A 13TH STREET
 YUCAIPA CA 92399
 PHONE # (909) 797-5111



WOODS WOODSHOP INC
12358-A 12TH STREET
YUCAIPA CA 92399
PHONE F (909) 797-5111





Doc's Woodshop
 12398-A 13th Street
 Yucaipa, CA 92399
 Phone # (909) 797-5111
 Fax # (909) 797-1751
 E-mail Docs.woodshop@yahoo.com

Proposal

Date	Estimate
9/23/2019	1219

Contractor License # 720427

Bill To
Yucaipa Valley Water District 12770 Second Street Yucaipa, CA 92399 (909)790-3300

Ship To
Board Room

Upon acceptance of this proposal there will be a minimum of 30 working days required to complete the fabrication of the fixtures. Should there be a modification or addition a change order will be issued and the contract price shall be adjusted accordingly and 30 days will begin from the date of the change order. Before the job will be started this proposal must be signed and agreed upon by both parties.

Qty	Item	Description	Cost	Total
1	Desk	Boardroom Podium Desk 240" x 38" x 24"	3,700.00	3,700.00T
1	PLM	20' Paint Labor & Materials	1,800.00	1,800.00
1	CT	Solid Surface Counter Top Aspen Color	3,972.00	3,972.00T
1	Desk	Side Desk 72" x 38" x 24"	1,110.00	1,110.00T
1	PLM	Paint Labor & Materials	460.00	460.00
1	CT	Solid Surface Counter Top	912.00	912.00T
1	PF	Podium 30" x 41-1/2"-45-1/2" x 15"	642.00	642.00T
1	DI	Delivery & Installation	2,230.00	2,230.00
		Sales Tax	7.75%	801.04

This estimate when accepted by both parties constitutes a contract.

Total	\$15,627.04
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Signature _____ Date _____ Signature _____ Date _____

Board Reports



Yucaipa Valley Water District

Director Comments



Yucaipa Valley Water District



FACTS ABOUT THE YUCAIPA VALLEY WATER DISTRICT

Service Area Size: 40 square miles (sphere of influence is 68 square miles)

Elevation Change: 3,140 foot elevation change (from 2,044 to 5,184 feet)

Number of Employees: 5 elected board members
72 full time employees

FY 2019-20 Operating Budget: Water Division - \$14,455,500
Sewer Division - \$12,217,712
Recycled Water Division - \$1,301,447

Number of Services: 13,794 drinking water connections serving 19,243 units
14,104 sewer connections serving 22,774 units
111 recycled water connections serving 460 units

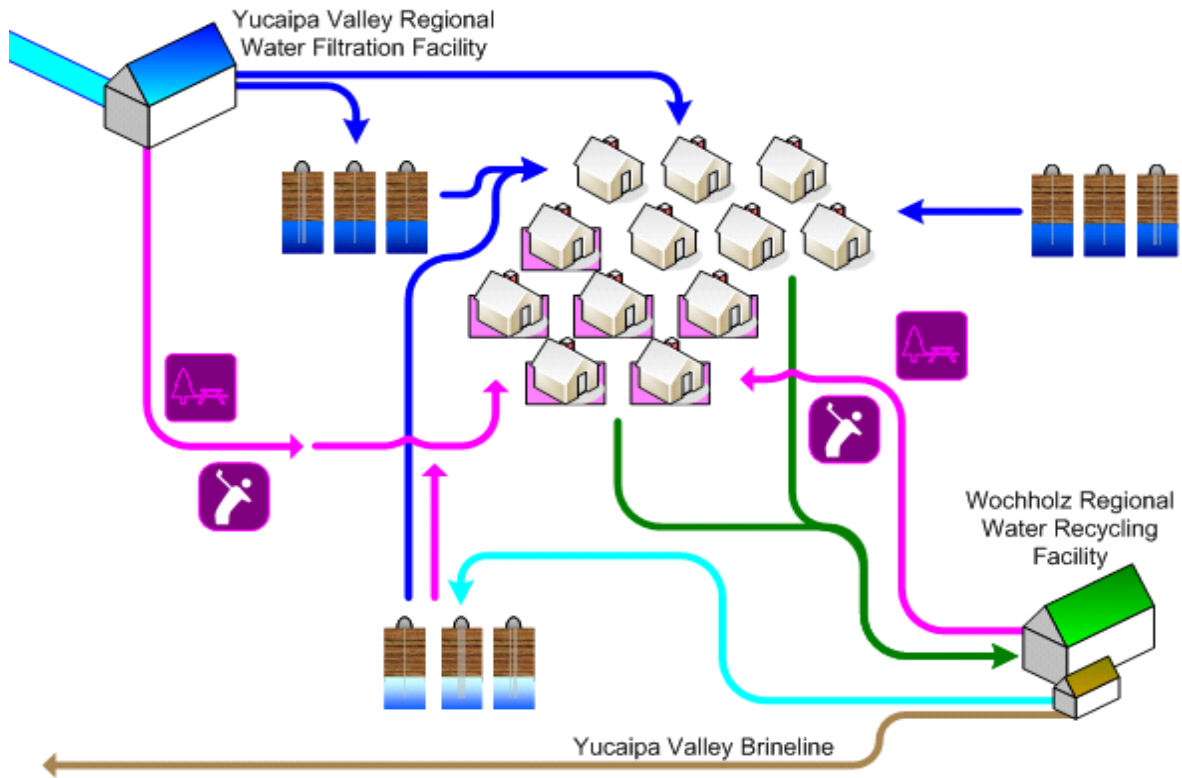
Water System: 223 miles of drinking water pipelines
2,033 fire hydrants
27 reservoirs - 34 million gallons of storage capacity
18 pressure zones
2.958 billion gallon annual drinking water demand
Two water filtration facilities:
- 1 mgd at Oak Glen Surface Water Filtration Facility
- 12 mgd at Yucaipa Valley Regional Water Filtration Facility

Sewer System: 8.0 million gallon treatment capacity - current flow at 3.5 mgd
213 miles of sewer mainlines
4,504 sewer manholes
5 sewer lift stations
1.27 billion gallons of recycled water produced per year

Recycled Water: 22 miles of recycled water pipelines
5 reservoirs - 12 million gallons of storage
0.681 billion gallon annual recycled water demand

Brine Disposal: 2.2 million gallon desalination facility at sewer treatment plant
1.756 million gallons of Inland Empire Brine Line capacity
0.595 million gallons of treatment capacity in Orange County

Sustainability Plan: A Strategic Plan for a Sustainable Future: The Integration and Preservation of Resources, adopted on August 20, 2008.



Typical Rates, Fees and Charges:

- Drinking Water Commodity Charge:

1,000 gallons to 15,000 gallons	\$1.429 per each 1,000 gallons
16,000 gallons to 60,000 gallons	\$1.919 per each 1,000 gallons
61,000 gallons to 100,000 gallons	\$2.099 per each 1,000 gallons
101,000 gallons or more	\$2.429 per each 1,000 gallons

- Recycled Water Commodity Charge:

1,000 gallons or more	\$1.425 per each 1,000 gallons
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- Water Meter Service Charge (Drinking Water or Recycled Water):

5/8" x 3/4" Water Meter	\$14.00 per month
1" Water Meter	\$23.38 per month
1-1/2" Water Meter	\$46.62 per month

- Sewer Collection and Treatment Charge:

Typical Residential Charge	\$42.43 per month
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State Water Contractors: San Bernardino Valley Municipal Water District
San Gorgonio Pass Water Agency



	San Bernardino Valley Municipal Water District	San Gorgonio Pass Water Agency
Service Area Size	353 square miles	222 square miles
Table "A" Water Entitlement	102,600 acre feet	17,300 acre feet
Imported Water Rate	\$125.80 / acre foot	\$399 / acre foot
Tax Rates for FY 2019-20	\$0.1425 per \$100	\$0.1775 per \$100
Number of Board Members	Five (5)	Seven (7)
Operating Budget FY 2019-20	\$58,372,000	\$9,551,000

Imported Water Charges (Pass-through State Water Project Charge)

- San Bernardino Valley Municipal Water District - Customers in San Bernardino County or City of Yucaipa pay a pass-through amount of \$0.270 per 1,000 gallons.
- San Gorgonio Pass Water Agency - Customers in Riverside County or City of Calimesa pay a pass-through amount of \$0.660 per 1,000 gallons. A proposed rate change to \$0.857 per 1,000 gallons is pending future consideration by YVWD.





GLOSSARY OF COMMONLY USED TERMS

Every profession has specialized terms which generally evolve to facilitate communication between individuals. The routine use of these terms tends to exclude those who are unfamiliar with the particular specialized language of the group. Sometimes jargon can create communication cause difficulties where professionals in related fields use different terms for the same phenomena.

Below are commonly used water terms and abbreviations with commonly used definitions. If there is any discrepancy in definitions, the District's Regulations Governing Water Service is the final and binding definition.

Acre Foot of Water - The volume of water (325,850 gallons, or 43,560 cubic feet) that would cover an area of one acre to a depth of 1 foot.

Activated-Sludge Process - A secondary biological wastewater treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen and consume dissolved nutrients in the wastewater.

Annual Water Quality Report - The document is prepared annually and provides information on water quality, constituents in the water, compliance with drinking water standards and educational material on tap water. It is also referred to as a Consumer Confidence Report (CCR).

Aquifer - The natural underground area with layers of porous, water-bearing materials (sand, gravel) capable of yielding a supply of water; see Groundwater basin.

Backflow - The reversal of water's normal direction of flow. When water passes through a water meter into a home or business it should not reverse flow back into the water mainline.

Best Management Practices (BMPs) - Methods or techniques found to be the most effective and practical means in achieving an objective. Often used in the context of water conservation.

Biochemical Oxygen Demand (BOD) - The amount of oxygen used when organic matter undergoes decomposition by microorganisms. Testing for BOD is done to assess the amount of organic matter in water.

Biosolids - Biosolids are nutrient rich organic and highly treated solid materials produced by the wastewater treatment process. This high-quality product can be recycled as a soil amendment on farmland or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth.

Capital Improvement Program (CIP) - Projects for repair, rehabilitation, and replacement of assets. Also includes treatment improvements, additional capacity, and projects for the support facilities.

Certificate of Participation (COP) – A type of financing where an investor purchases a share of the lease revenues of a program rather than the bond being secured by those revenues.

Coliform Bacteria - A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere used as indicators of sewage pollution. E. coli are the most common bacteria in wastewater.

Collections System - In wastewater, it is the system of typically underground pipes that receive and convey sanitary wastewater or storm water.

Conjunctive Use - The coordinated management of surface water and groundwater supplies to maximize the yield of the overall water resource. Active conjunctive use uses artificial recharge, where surface water is intentionally percolated or injected into aquifers for later use. Passive conjunctive use is to simply rely on surface water in wet years and use groundwater in dry years.

Consumer Confidence Report (CCR) - see Annual Water Quality Report.

Contaminants of Potential Concern (CPC) - Pharmaceuticals, hormones, and other organic wastewater contaminants.

Cross-Connection - The actual or potential connection between a potable water supply and a non-potable source, where it is possible for a contaminant to enter the drinking water supply.

Disinfection by-Products (DBPs) - The category of compounds formed when disinfectants in water systems react with natural organic matter present in the source water supplies. Different disinfectants produce different types or amounts of disinfection byproducts. Disinfection byproducts for which regulations have been established have been identified in drinking water, including trihalomethanes, haloacetic acids, bromate, and chlorite

Drought - a period of below average rainfall causing water supply shortages.

Fire Flow - The ability to have a sufficient quantity of water available to the distribution system to be delivered through fire hydrants or private fire sprinkler systems.

Gallons per Capita per Day (GPCD) - A measurement of the average number of gallons of water use by the number of people served each day in a water system. The calculation is made by dividing the total gallons of water used each day by the total number of people using the water system.

Groundwater Basin - An underground body of water or aquifer defined by physical boundaries.

Groundwater Recharge - The process of placing water in an aquifer. Can be a naturally occurring process or artificially enhanced.

Hard Water - Water having a high concentration of minerals, typically calcium and magnesium ions.

Hydrologic Cycle - The process of evaporation of water into the air and its return to earth in the form of precipitation (rain or snow). This process also includes transpiration from plants, percolation into the ground, groundwater movement, and runoff into rivers, streams, and the ocean; see Water cycle.

Levels of Service (LOS) - Goals to support environmental and public expectations for performance.

Mains, Distribution - A network of pipelines that delivers water (drinking water or recycled water) from transmission mains to residential and commercial properties, usually pipe diameters of 4" to 16".

Mains, Transmission - A system of pipelines that deliver water (drinking water or recycled water) from a source of supply the distribution mains, usually pipe diameters of greater than 16".

Meter - A device capable of measuring, in either gallons or cubic feet, a quantity of water delivered by the District to a service connection.

Overdraft - The pumping of water from a groundwater basin or aquifer in excess of the supply flowing into the basin. This pumping results in a depletion of the groundwater in the basin which has a net effect of lowering the levels of water in the aquifer.

Pipeline - Connected piping that carries water, oil, or other liquids. See Mains, Distribution and Mains, Transmission.

Point of Responsibility, Metered Service - The connection point at the outlet side of a water meter where a landowner's responsibility for all conditions, maintenance, repairs, use and replacement of water service facilities begins, and the District's responsibility ends.

Potable Water - Water that is used for human consumption and regulated by the California Department of Public Health.

Pressure Reducing Valve - A device used to reduce the pressure in a domestic water system when the water pressure exceeds desirable levels.

Pump Station - A drinking water or recycled water facility where pumps are used to push water up to a higher elevation or different location.

Reservoir - A water storage facility where water is stored to be used at a later time for peak demands or emergencies such as fire suppression. Drinking water and recycled water systems will typically use concrete or

steel reservoirs. The State Water Project system considers lakes, such as Shasta Lake and Folsom Lake to be water storage reservoirs.

Runoff - Water that travels downward over the earth's surface due to the force of gravity. It includes water running in streams as well as over land.

Santa Ana River Interceptor (SARI) Line - A regional brine line designed to convey 30 million gallons per day (MGD) of non-reclaimable wastewater from the upper Santa Ana River basin to Orange County Sanitation District for treatment, use and/or disposal.

Secondary treatment - Biological wastewater treatment, particularly the activated-sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.

Service Connection - The water piping system connecting a customer's system with a District water main beginning at the outlet side of the point of responsibility, including all plumbing and equipment located on a parcel required for the District's provision of water service to that parcel.

Sludge - Untreated solid material created by the treatment of wastewater.

Smart Irrigation Controller - A device that automatically adjusts the time and frequency which water is applied to landscaping based on real-time weather such as rainfall, wind, temperature, and humidity.

South Coast Air Quality Management District (SCAQMD) - Regional regulatory agency that develops plans and regulations designed to achieve public health standards by reducing emissions from business and industry.

Special district - A form of local government created by a local community to meet a specific need. Yucaipa Valley Water District is a County Water District formed pursuant to Section 30000 of the California Water Code

Supervisory Control and Data Acquisition (SCADA) - A computerized system which provides the ability to remotely monitor and control water system facilities such as reservoirs, pumps, and other elements of water delivery.

Surface Water - Water found in lakes, streams, rivers, oceans, or reservoirs behind dams. In addition to using groundwater, Yucaipa Valley Water District receives surface water from the Oak Glen area.

Sustainable Groundwater Management Act (SGMA) - Pursuant to legislation signed by Governor Jerry Brown in 2014, the Sustainable Groundwater Management Act requires water agencies to manage groundwater extractions to not cause undesirable results from over production.

Transpiration - The process by which water vapor is released into the atmosphere by living plants.

Trickling filter - A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in wastewater as it trickles over them.

Underground Service Alert (USA) - A free service (<https://www.digalert.org>) that notifies utilities such as water, telephone, cable and sewer companies of pending excavations within the area (dial 8-1-1 at least 2 working days before you dig).

Urban runoff - Water from city streets and domestic properties that carry pollutants into the storm drains, rivers, lakes, and oceans.

Valve - A device that regulates, directs, or controls the flow of water by opening, closing, or partially obstructing various passageways.

Wastewater - Any water that enters the sanitary sewer.

Water Banking - The practice of actively storing or exchanging in-lieu surface water supplies in available groundwater basin storage space for later extraction and use by the storing party or for sale or exchange to a third party. Water may be banked as an independent operation or as part of a conjunctive use program.

Water Cycle - The continuous movement water from the earth's surface to the atmosphere and back again.

Water Pressure - Water pressure is created by the weight and elevation of water and/or generated by pumps that deliver water to customers.

Water Service Line - A water service line is used to deliver water from the Yucaipa Valley Water District's mainline distribution system.

Water table - the upper surface of the zone of saturation of groundwater in an unconfined aquifer.

Water transfer - a transaction, in which a holder of a water right or entitlement voluntarily sells/exchanges to a willing buyer the right to use all or a portion of the water under that water right or entitlement.

Watershed - A watershed is the region or land area that contributes to the drainage or catchment area above a specific point on a stream or river.

Water-Wise House Call - a service which provides a custom evaluation of a customer's indoor and outdoor water use and landscape watering requirements.

Well - a hole drilled into the ground to tap an underground aquifer.

Wetlands - lands which are fully saturated or under water at least part of the year, like seasonal vernal pools or swamps.





COMMONLY USED ABBREVIATIONS

AQMD	Air Quality Management District
BOD	Biochemical Oxygen Demand
CARB	California Air Resources Board
CCTV	Closed Circuit Television
CWA	Clean Water Act
EIR	Environmental Impact Report
EPA	U.S. Environmental Protection Agency
FOG	Fats, Oils, and Grease
GPD	Gallons per day
MGD	Million gallons per day
O & M	Operations and Maintenance
OSHA	Occupational Safety and Health Administration
POTW	Publicly Owned Treatment Works
PPM	Parts per million
RWQCB	Regional Water Quality Control Board
SARI	Santa Ana River Inceptor
SAWPA	Santa Ana Watershed Project Authority
SBVMWD	San Bernardino Valley Municipal Water District
SCADA	Supervisory Control and Data Acquisition system
SGMA	Sustainable Groundwater Management Act
SSMP	Sanitary Sewer Management Plan
SSO	Sanitary Sewer Overflow
SWRCB	State Water Resources Control Board
TDS	Total Dissolved Solids
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
WDR	Waste Discharge Requirements
YVWD	Yucaipa Valley Water District