LAS VIRGENES MUNICIPAL WATER DISTRICT
EST. 1958

Dedicated to Providing High-Quality Water Service in a Cost-Effective and Environmentally Sensitive Manner

OFFICERS

President
**Jay Lewitt**
Director, Division 5

Vice President
**Leonard E. Polan**
Director, Division 4

Secretary
**Charles P. Caspary**
Director, Division 1

Treasurer
**Lynda Lo-Hill**
Director, Division 2

**Lee Renger**
Director, Division 3

**David W. Pedersen, P. E.**
General Manager

**W. Keith Lemieux**
Counsel

HEADQUARTERS
4232 Las Virgenes Road
Calabasas, CA 91302
(818) 251-2100
Fax (818) 251-2109

WESTLAKE
FILTRATION PLANT
(818) 251-2370
Fax (818) 251-2379

TAPIA WATER
RECLAMATION FACILITY
(818) 251-2300
Fax (818) 251-2309

RANCHO LAS VIRGENES
COMPOSTING FACILITY
(818) 251-2340
Fax (818) 251-2349

www.LVMWD.com

MEMBER AGENCY OF THE
METROPOLITAN WATER
DISTRICT
OF SOUTHERN CALIFORNIA

**Glen D. Peterson**
MWD Representative

**THIS MEETING WILL BE CONDUCTED PURSUANT TO THE PROVISIONS OF THE GOVERNOR'S EXECUTIVE ORDER, N-29-20, WHICH SUSPENDS CERTAIN REQUIREMENTS OF THE RALPH M. BROWN ACT TO SUPPORT SOCIAL DISTANCING GUIDELINES ASSOCIATED WITH RESPONSE TO THE CORONAVIRUS (COVID-19) OUTBREAK. BOARD MEMBERS AND STAFF MAY PARTICIPATE IN THE MEETING BY TELECONFERENCE. THE PUBLIC IS STRONGLY ENCOURAGED TO PARTICIPATE ELECTRONICALLY AT** www.lvmwd.com/about-us/board-meeting-videos/board-meeting-speaker-card.

Call and Notice of Special Meeting of the Board of Directors of Las Virgenes Municipal Water District

A Special Meeting of the Board of Directors of Las Virgenes Municipal Water District is hereby called and notice of said Special Meeting is hereby given for **9:00 a.m. on Tuesday, March 24, 2020**, at Las Virgenes Municipal Water District, 4232 Las Virgenes Road, Calabasas, California 91302 to consider the following:

1. Call to Order and Roll Call
2. Special Meeting of March 24, 2020 (Agenda attached)
3. Adjournment

By Order of the Board of Directors
JAY LEWITT, President

David W. Pedersen, P.E.
Deputy Secretary of the Board

c: Each Director

Dated: March 18, 2020

# LAS VIRGENES MUNICIPAL WATER DISTRICT

**4232 Las Virgenes Road, Calabasas, CA 91302**

## AGENDA
## SPECIAL MEETING
## March 24, 2020, 9:00 AM

**THIS MEETING WILL BE CONDUCTED PURSUANT TO THE PROVISIONS OF THE GOVERNOR'S EXECUTIVE ORDER, N-29-20, WHICH SUSPENDS CERTAIN REQUIREMENTS OF THE RALPH M. BROWN ACT TO SUPPORT SOCIAL DISTANCING GUIDELINES ASSOCIATED WITH RESPONSE TO THE CORONAVIRUS (COVID-19) OUTBREAK. BOARD MEMBERS AND STAFF MAY PARTICIPATE IN THE MEETING BY TELECONFERENCE. THE PUBLIC IS STRONGLY ENCOURAGED TO PARTICIPATE ELECTRONICALLY AT** www.lvmwd.com/about-us/board-meeting-videos/board-meeting-speaker-card.

**Members of the public wishing to address the Board of Directors are advised that a statement of Public Comment Protocols is available from the Clerk of the Board. Prior to speaking, each speaker is asked to review these protocols, complete a speakers' card, and hand it to the Clerk of the Board. Speakers will be recognized in the order the cards are received. A live webcast of the meeting will be available at LVMWD.com. Also, a web-based version of the speaker card is available for those who would like to submit written comments electronically or request to make public comment by telephone during the meeting.**

**The Public Comments agenda item is presented to allow the public to address the Board on matters not on the agenda. The public may also present comments on matters on the agenda; speakers for agendized items will be recognized at the time the item is called up for discussion.**

**Materials prepared by the District in connection with the subject matter on the agenda are available for public inspection at 4232 Las Virgenes Road, Calabasas, CA 91302. Materials prepared by the District and distributed to the Board during this meeting are available for public inspection at the meeting or as soon thereafter as possible. Materials presented to the Board by the public will be maintained as part of the records of these proceedings and are available upon request to the Clerk of the Board.**

**PLEDGE OF ALLEGIANCE**

1 **CALL TO ORDER AND ROLL CALL**

2 **APPROVAL OF AGENDA**

3 **PUBLIC COMMENTS**

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

4 **CONSENT CALENDAR**

Matters listed under the Consent Calendar are considered to be routine, non-controversial and normally approved with one motion. If discussion is requested by a member of the Board on any Consent Calendar item, or if a member of the public wishes to comment on an item, that item will be removed from the Consent Calendar for separate action.

A **List of Demands: March 24, 2020 (Pg. 6)**
Receive and File

B **Minutes: Special Meetings of March 3, 2020 and March 4, 2020 (Pg. 54)**
Approve

C **Directors' Per Diem: Febuary 2020 (Pg. 65)**
Ratify

D **Monthly Cash and Investment Report: February 2020 (Pg. 72)**

Receive and file the Monthly Cash and Investment Report for February 2020.

E **ACC Business: Internet Service Contract Renewal (Pg. 83)**

Authorize the General Manager to execute a three-year contract with ACC Business for a monthly rate of $884 to provide external/public internet addresses and a 100 Mbps redundant internet connection and allocate $2,850 to pay the remaining monthly fees until execution of a new contract for a total cost of $34,674.

F **2019 Bioassessment Monitoring Report: Approval of Purchase Order (Pg. 89)**

Authorize the General Manager to approve a purchase order to Aquatic Bioassay Consulting Laboratories, Inc., in the amount of $48,866, for the 2019 Bioassessment Monitoring Report.

G **Temporary Protective Canopy at Westlake Filtration Plant: Purchase Order Amendment (Pg. 150)**

Authorize the General Manager to increase the purchase order to Rolls Scaffolding, Inc., in the amount of $29,565, from $35,300.02 to $64,865.02, for

a temporary protective canopy structure at the Westlake Filtration Plant.

5 **ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS**

A **MWD Representative Report (Pg. 152)**

B **Legislative and Regulatory Updates**

C **Water Supply Conditions Update (Pg. 157)**

6 **TREASURER**

7 **GENERAL MANAGER**

A **Declaration of a State of Emergency Due to Coronavirus (COVID-19) (Pg. 163)**

Pass, approve and adopt proposed Resolution No. 2572, declaring a state of emergency due to the spread of the novel coronavirus (COVID-19) outbreak.

**RESOLUTION NO. 2572**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT DECLARING A STATE OF EMERGENCY DUE TO THE NOVEL CORONAVIRUS (COVID-19) PANDEMIC AND AUTHORIZING ACTIONS TO SUPPORT THE RESPONSE AND RECOVERY EFFORT**

(Reference is hereby made to Resolution No. 2572 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

8 **FINANCE AND ADMINISTRATION**

A **Multi-Site Security Assessment Project: Contract (Pg. 163)**

Authorize the General Manager to execute a professional services agreement with Triad Consulting & System Design Group, LLC, in an amount not to exceed $143,968, for the Multi-Site Security Assessment Project, and appropriate funds in the same amount.

B **Headquarters Boardroom Improvement Project: Award (Pg. 193)**

Authorize the General Manager to execute a contract with AMT Systems, Inc., in an amount not to exceed $164,764, to replace and upgrade the audio-visual equipment; and a contract with Picasso Custom Cabinets, in an amount not to exceed $38,737, for remodeling and replacement of the dais as part of the Headquarters Boardroom Improvement Project.

C **Automatic Meter Reading/Advanced Metering Infrastructure Project Financing: Request for Proposals (Pg. 216)**

Pass, approve and adopt proposed Resolution No. 2571, approving and authorizing the release of a Request for Proposals for the financing of the Automatic Meter Reading/Advanced Metering Infrastructure Project.

**RESOLUTION NO. 2571**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT APPROVING A REQUEST FOR PROPOSALS IN CONNECTION WITH THE FINANCING OF THE ACQUISITION AND INSTALLATION OF AUTOMATIC METER READING/ ADVANCED METERING INFRASTRUCTURE AND OTHER WATER SYSTEM IMPROVEMENTS AND CERTAIN OTHER MATTERS**

(Reference is hereby made to Resolution No. 2571 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

9 **INFORMATION ITEMS**

A **Claim by Ryan Steers (Pg. 226)**

B **Special District Leadership Foundation: District Transparency Certificate of Excellence (Pg. 232)**

10 **NON-ACTION ITEMS**

A **Organization Reports**

B **Director's Reports on Outside Meetings**

C **General Manager Reports**

(1) General Business

(2) Follow-Up Items

D **Director's Comments**

11 **FUTURE AGENDA ITEMS**

12 **PUBLIC COMMENTS**

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

13 **CLOSED SESSION**

14 **OPEN SESSION AND ADJOURNMENT**

Pursuant to Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and applicable federal rules and regulations, requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the Executive Assistant/Clerk of the Board in advance of the meeting to ensure availability of the requested service or accommodation. Notices, agendas, and public documents related to the Board meetings can be made available in appropriate alternative format upon request.

# LAS VIRGENES MUNICIPAL WATER DISTRICT

To: LYNDA LO-HILL, TREASURER

Payments for Board Meeting of : March 24, 2020

Deputy Treasurer has verified that all checks and wire transfers were issued in conformance with LVMWD Administrative Code Section 2-6.203.

Wells Fargo Bank A/C No. 4806-994448

| | | | | |
|---|---|---|---|---|
| Checks Nos. 84421 through 84589 were issued in the total amount of | | | **$** | **1,129,894.71** |
| **Payments through wire transfers as follows:** | | | | |
| 2/28/2020 | Metropolitian Water District | Payment for water deliveries in the month of December 2019 | $ | 1,666,858.02 |
| | | Sub-Total Wires | **$** | **1,666,858.02** |
| | | Total Payments | **$** | **2,796,752.73** |

(Reference is hereby to these demands on file in the District's Check Register and by this reference the same is incorporated herein and made a part hereof.)

# CHECK LISTING FOR BOARD MEETING
# 03/24/20

| Company Name | Company No. | Check No. 84421 thru 84480 03/03/20 Amount | Check No. 84481 thru 84529 03/10/20 Amount | Check No. 84530 thru 84589 03/17/20 Amount | Total |
|---|---|---|---|---|---|
| Potable Water Operations | 101 | 29,858.41 | 33,869.41 | 109,911.57 | 173,639.39 |
| Recycled Water Operations | 102 | 7,125.00 | | 488.36 | 7,613.36 |
| Sanitation Operations | 130 | 234.94 | 2,450.00 | 10,040.67 | 12,725.61 |
| Potable Water Construction | 201 | | | | - |
| Water Conservation Construction | 203 | | | | - |
| Sani- Construction | 230 | | | | - |
| Potable Water Replacement | 301 | 15,993.33 | 806.25 | 7,292.84 | 24,092.42 |
| Reclaimed Water Replace | 302 | | | | - |
| Sanitation Replacement | 330 | 6,604.85 | 1,481.79 | | 8,086.64 |
| Internal Service | 701 | 171,310.29 | 52,068.13 | 105,196.33 | 328,574.75 |
| JPA Operations | 751 | 101,674.04 | 47,626.13 | 162,398.61 | 311,698.78 |
| JPA Construction | 752 | | | | - |
| JPA Replacement | 754 | 10,322.00 | 238,013.91 | 15,127.85 | 263,463.76 |
| | **Total Printed** | **343,122.86** | **376,315.62** | **410,456.23** | **1,129,894.71** |
| **Voided Checks/payment stopped:** | | | | | |
| | **Net Total** | **343,122.86** | **376,315.62** | **410,456.23** | **1,129,894.71** |

# *MWD*

*METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA*
*700 North Alameda Street*
*Los Angeles, CA, 90012-2944*

## INVOICE

**Billed To:**

Las Virgenes Municipal Water District

**Service Address**

4232 Las Virgenes Road
Calabasas, CA 91302

| | |
|---|---|
| December 2019 | Page No. 1 of 1 |
| Mailed: 01/10/2020 | **Due Date: 02/28/2020** |
| Invoice Number: 9941 | Revision: 0 |

**NOTICE**

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "**Good Funds**" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

| DELIVERIES | Volume (AF) |
|---|---|
| Total Water Treated Delivered | 1,448.8 |
| Total Water Untreated Delivered | |

| SALES | Type | Volume (AF) | Rate ($ /AF) | Total ( $ ) |
|---|---|---|---|---|
| Full Service | Tier 1 Supply Rate | 1,448.8 | $209.00 | $302,799.20 |
| | System Access Rate | 1,448.8 | $326.00 | $472,308.80 |
| | Water Stewardship Rate | 1,448.8 | $69.00 | $99,967.20 |
| | System Power Rate | 1,448.8 | $127.00 | $183,997.60 |
| | Treatment Surcharge | 1,448.8 | $319.00 | $462,167.20 |
| | SUBTOTAL | | | $1,521,240.00 |

| OTHER CHARGES AND CREDITS | Rate ($ /AF) | |
|---|---|---|
| Capacity Charge( Payment Schedule: M) | | $32,465.00 |
| Readiness To Serve Charge( Payment Schedule: M) | | $113,153.02 |
| SUBTOTAL | | $145,618.02 |

| ADDITIONAL INFORMATION | Volume (AF) | Tier1 % | Peak Day | Flow (CFS) |
|---|---|---|---|---|
| Capacity Charge | | | 7/26/2016 | 45.3 |
| Purchase Order Firm Delivery To Date (Jan 2015 to Dec 2024) | 96,606.7 | | | |
| Tier 1 Annual Limit (For Current Calendar Year) | 24,359.0 | | | |
| Tier 1 YTD Deliveries (For Current Calendar Year) | 17,815.1 | 73.1 | | |
| Tier 1 Current Month Deliveries | 1,448.8 | | | |
| Purchase Order Commitment (Jan 2015 to Dec 2024) | 162,390.0 | | | |

| | Volume AF | Amount Now Due |
|---|---|---|
| **INVOICE TOTAL** | **1,448.8** | **$1,666,858.02** |

Approved for Payment: Highlighted fields

Doug Anders Date

Approved for Payment:

John Zhao 1/17/20 Date

01/21/2020

PAID
Wired 2/28/20
SC

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 84421 | 03/03/20 | 2317 | ACORN NEWSPAPER | LEGAL AD-ORD 282 ADPTN | PV | 168845 | 001 | 00701 | | 48.00 | M-0892 |
| | | | | Payment Amount | | | | | 48.00 | | |
| 84422 | 03/03/20 | 18652 | ADWESTEAST | 250 T-SHIRTS-CRA TOUR | PV | 168894 | 001 | 00701 | | 2,229.00 | 20-5157 |
| | | | | Payment Amount | | | | | 2,229.00 | | |
| 84423 | 03/03/20 | 20389 | AIRGAS SPECIALTY PRODUCTS | 30,640 GAL HYDROXIDE | PV | 168903 | 001 | 00701 | | 3,019.57 | 131635996 |
| | | Alt Payee 20559 | AIRGAS SPECIALTY PRODUCTS<br>P. O. BOX 934434<br>ATLANTA GA 31193-4434 | | | | | | | | |
| | | | | Payment Amount | | | | | 3,019.57 | | |
| 84424 | 03/03/20 | 2404 | ASTRA INDUSTRIAL SERVICE INC | PARTS-BACKFLO W RPRS | PV | 168868 | 001 | 00101 | | 2,244.37 | 00171515 |
| | | | | Payment Amount | | | | | 2,244.37 | | |
| 84425 | 03/03/20 | 2869 | AT&T | SRV 2/14~3/13 | PV | 168852 | 001 | 00701 | | 211.49 | 4639/021420 |
| | | | | Payment Amount | | | | | 211.49 | | |
| 84426 | 03/03/20 | 2425 | BANK OF AMERICA | VISA CHG-ALMAGUER-JAN'20 | PV | 168785 | 001 | 00701 | | 107.72 | 7112/020720 |
| | | | | VISA CHG-ALMAGUER-JAN'20 | PV | 168785 | 002 | 00701 | | 65.04 | 7112/020720 |
| | | | | VISA CHG-ALMAGUER-JAN'20 | PV | 168785 | 003 | 00701 | | 499.00 | 7112/020720 |
| | | | | VISA CHG-ARENAS-JAN'20 | PV | 168786 | 001 | 00701 | | 24.53- | 9030/020720 |
| | | | | VISA CHG-ARENAS-JAN'20 | PV | 168786 | 002 | 00701 | | 66.51 | 9030/020720 |
| | | | | VISA CHG-BAIRD-JAN'20 | PV | 168787 | 001 | 00701 | | 142.96 | 7536/020720 |
| | | | | VISA CHG-BAIRD-JAN | PV | 168787 | 002 | 00701 | | 36.10 | 7536/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | '20 | | | | | | |
| | | | | VISA CHG-BAIRD-JAN '20 | PV | 168787 | 003 | 00701 | 43.78 | 7536/020720 |
| | | | | VISA CHG-BAIRD-JAN '20 | PV | 168787 | 004 | 00701 | 41.20 | 7536/020720 |
| | | | | VISA CHG-BOSSON-JA N'20 | PV | 168788 | 001 | 00701 | 199.00 | 6167/020720 |
| | | | | VISA CHG-BOSSON-JA N'20 | PV | 168788 | 002 | 00701 | 199.00 | 6167/020720 |
| | | | | VISA CHG-BOSSON-JA N'20 | PV | 168788 | 003 | 00701 | 199.00 | 6167/020720 |
| | | | | VISA CHG-BOSSON-JA N'20 | PV | 168788 | 004 | 00701 | 149.00 | 6167/020720 |
| | | | | VISA CHG-BOSSON-JA N'20 | PV | 168788 | 005 | 00701 | 1,498.96 | 6167/020720 |
| | | | | VISA CHG-BOCKELMAN -JAN'20 | PV | 168789 | 001 | 00701 | 233.98 | 8102/020720 |
| | | | | VISA CHG-BOCKELMAN -JAN'20 | PV | 168789 | 002 | 00701 | 164.34 | 8102/020720 |
| | | | | VISA CHG-BOCKELMAN -JAN'20 | PV | 168789 | 003 | 00701 | 79.15 | 8102/020720 |
| | | | | VISA CHG-BOCKELMAN -JAN'20 | PV | 168789 | 004 | 00701 | 793.92 | 8102/020720 |
| | | | | VISA CHG-BOCKELMAN -JAN'20 | PV | 168789 | 005 | 00701 | 550.00 | 8102/020720 |
| | | | | VISA CHG-BOCKELMAN -JAN'20 | PV | 168789 | 006 | 00701 | 97.19 | 8102/020720 |
| | | | | VISA | PV | 168789 | 007 | 00701 | 184.64 | 8102/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CHG-BOCKELMAN -JAN'20 | | | | | | |
| | | | | VISA CHG-BUCHANAN-JAN'20 | PV | 168790 | 001 | 00751 | 771.93 | 6771/020720 |
| | | | | VISA CHG-BUCHANAN-JAN'20 | PV | 168790 | 002 | 00751 | 225.00 | 6771/020720 |
| | | | | VISA CHG-BUCHANAN-JAN'20 | PV | 168790 | 003 | 00751 | 48.93 | 6771/020720 |
| | | | | VISA CHG-CASPARY-JAN'20 | PV | 168791 | 001 | 00701 | 231.96 | 7651/020720 |
| | | | | VISA CHG-CASPARY-JAN'20 | PV | 168791 | 002 | 00701 | 167.96 | 7651/020720 |
| | | | | VISA CHG-CASPARY-JAN'20 | PV | 168791 | 003 | 00701 | 167.96 | 7651/020720 |
| | | | | VISA CHG-CASPARY-JAN'20 | PV | 168791 | 004 | 00701 | 725.00 | 7651/020720 |
| | | | | VISA CHG-CLARK-JAN'20 | PV | 168792 | 001 | 00701 | 818.81 | 6377/020720 |
| | | | | VISA CHG-GARMAN-JAN'20 | PV | 168793 | 001 | 00101 | 944.85 | 3954/020720 |
| | | | | VISA CHG-GARMAN-JAN'20 | PV | 168793 | 002 | 00101 | 100.44 | 3954/020720 |
| | | | | VISA CHG-GUZMAN-JAN'20 | PV | 168794 | 001 | 00701 | 50.00 | 6935/020720 |
| | | | | VISA CHG-GUZMAN-JAN'20 | PV | 168794 | 002 | 00701 | 112.41 | 6935/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 001 | 00701 | 63.88 | 5151/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 002 | 00701 | 49.05 | 5151/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 003 | 00701 | 48.00 | 5151/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 004 | 00701 | 101.32 | 5151/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 005 | 00701 | 9.84 | 5151/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 006 | 00701 | 252.56 | 5151/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 007 | 00701 | 1,049.98 | 5151/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 008 | 00701 | 441.48 | 5151/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 009 | 00701 | 42.85 | 5151/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 010 | 00701 | 21.20 | 5151/020720 |
| | | | | VISA CHG-GIL-JAN'20 | PV | 168795 | 011 | 00701 | 903.88 | 5151/020720 |
| | | | | VISA CHG-JACKSON-JAN'20 | PV | 168796 | 001 | 00101 | 93.14 | 7431/020720 |
| | | | | VISA CHG-JACKSON-JAN'20 | PV | 168796 | 002 | 00101 | 301.13 | 7431/020720 |
| | | | | VISA CHG-JACKSON-JAN'20 | PV | 168796 | 003 | 00101 | 143.58 | 7431/020720 |
| | | | | VISA CHG-SCHLAGETE | PV | 168797 | 001 | 00701 | 862.96 | 0050/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| . . . Payment . . . Number | Date | Address Number | Name | Payment Stub Message | . . . Document . . . Ty | Number | Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | R-JAN'20 | | | | | | |
| | | | | VISA CHG-JONES-JAN '20 | PV | 168798 | 001 | 00101 | 298.92 | 3713/020720 |
| | | | | VISA CHG-JONES-JAN '20 | PV | 168798 | 002 | 00101 | 36.46 | 3713/020720 |
| | | | | VISA CHG-JONES-JAN '20 | PV | 168798 | 003 | 00101 | 126.80 | 3713/020720 |
| | | | | VISA CHG-JONES-JAN '20 | PV | 168798 | 004 | 00101 | 228.49 | 3713/020720 |
| | | | | VISA CHG-JONES-JAN '20 | PV | 168798 | 005 | 00101 | 164.34 | 3713/020720 |
| | | | | VISA CHG-JONES-JAN '20 | PV | 168798 | 006 | 00101 | 49.18 | 3713/020720 |
| | | | | VISA CHG-JOHNSON-J AN'20 | PV | 168799 | 001 | 00701 | 39.01 | 7572/020720 |
| | | | | VISA CHG-KORKOSZ-J AN'20 | PV | 168800 | 001 | 00701 | 862.96 | 0544/020720 |
| | | | | VISA CHG-KORKOSZ-J AN'20 | PV | 168800 | 002 | 00701 | 60.00 | 0544/020720 |
| | | | | VISA CHG-LEWITT-JA N'20 | PV | 168801 | 001 | 00701 | 568.00 | 1175/020720 |
| | | | | VISA CHG-LEWITT-JA N'20 | PV | 168801 | 002 | 00701 | 290.00 | 1175/020720 |
| | | | | VISA CHG-LEWITT-JA N'20 | PV | 168801 | 003 | 00701 | 695.00 | 1175/020720 |
| | | | | VISA CHG-LEWITT-JA N'20 | PV | 168801 | 004 | 00701 | 625.00 | 1175/020720 |
| | | | | VISA | PV | 168801 | 005 | 00701 | 725.00 | 1175/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CHG-LEWITT-JA N'20 | | | | | | |
| | | | | VISA CHG-LO-HILL-J AN'20 | PV | 168802 | 001 | 00701 | 710.00 | 4758/020720 |
| | | | | VISA CHG-LO-HILL-J AN'20 | PV | 168802 | 002 | 00701 | 591.95 | 4758/020720 |
| | | | | VISA CHG-LO-HILL-J AN'20 | PV | 168802 | 003 | 00701 | 695.00 | 4758/020720 |
| | | | | VISA CHG-MCDERMOTT -JAN'20 | PV | 168803 | 001 | 00701 | 75.00 | 1975/020720 |
| | | | | VISA CHG-MCDERMOTT -JAN'20 | PV | 168803 | 002 | 00701 | 299.00 | 1975/020720 |
| | | | | VISA CHG-MCDERMOTT -JAN'20 | PV | 168803 | 003 | 00701 | 412.97 | 1975/020720 |
| | | | | VISA CHG-MCDERMOTT -JAN'20 | PV | 168803 | 004 | 00701 | 540.00 | 1975/020720 |
| | | | | VISA CHG-MCDERMOTT -JAN'20 | PV | 168803 | 005 | 00701 | 56.73 | 1975/020720 |
| | | | | VISA CHG-MCNUTT-JA N'20 | PV | 168804 | 001 | 00701 | 35.00 | 6549/020720 |
| | | | | VISA CHG-MCNUTT-JA N'20 | PV | 168804 | 002 | 00701 | 294.55 | 6549/020720 |
| | | | | VISA CHG-MCNUTT-JA N'20 | PV | 168804 | 003 | 00701 | 275.00 | 6549/020720 |
| | | | | VISA CHG-MCNUTT-JA N'20 | PV | 168804 | 004 | 00701 | 47.17 | 6549/020720 |
| | | | | VISA CHG-MCNUTT-JA N'20 | PV | 168804 | 005 | 00701 | 10.00 | 6549/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VISA CHG-MCNUTT-JAN'20 | PV | 168804 | 006 | 00701 | 106.90 | 6549/020720 |
| | | | | VISA CHG-MEREDITH-JAN'20 | PV | 168805 | 001 | 00751 | 46.28 | 5953/020720 |
| | | | | VISA CHG-MEREDITH-JAN'20 | PV | 168805 | 002 | 00751 | 250.00 | 5953/020720 |
| | | | | VISA CHG-MEREDITH-JAN'20 | PV | 168805 | 003 | 00751 | 494.55 | 5953/020720 |
| | | | | VISA CHG-MEREDITH-JAN'20 | PV | 168805 | 004 | 00751 | 140.17 | 5953/020720 |
| | | | | VISA CHG-MEREDITH-JAN'20 | PV | 168805 | 005 | 00751 | 92.13 | 5953/020720 |
| | | | | VISA CHG-NKWENJI-JAN'20 | PV | 168806 | 001 | 00701 | 96.00 | 3801/020720 |
| | | | | VISA CHG-NKWENJI-JAN'20 | PV | 168806 | 002 | 00701 | 52.45 | 3801/020720 |
| | | | | VISA CHG-NKWENJI-JAN'20 | PV | 168806 | 003 | 00701 | 390.00 | 3801/020720 |
| | | | | VISA CHG-NKWENJI-JAN'20 | PV | 168806 | 004 | 00701 | 40.00 | 3801/020720 |
| | | | | VISA CHG-PANIAGUA-JAN'20 | PV | 168807 | 001 | 00701 | 1,291.92 | 5458/020720 |
| | | | | VISA CHG-PANIAGUA-JAN'20 | PV | 168807 | 002 | 00701 | 162.36 | 5458/020720 |
| | | | | VISA CHG-PANIAGUA-JAN'20 | PV | 168807 | 003 | 00701 | 222.13 | 5458/020720 |
| | | | | VISA CHG-PANIAGUA- | PV | 168807 | 004 | 00701 | 50.00 | 5458/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | JAN'20 | | | | | | |
| | | | | VISA CHG-PATTERSON -JAN'20 | PV | 168808 | 001 | 00701 | 68.05 | 6347/020720 |
| | | | | VISA CHG-PATTERSON -JAN'20 | PV | 168808 | 002 | 00701 | 180.74 | 6347/020720 |
| | | | | VISA CHG-PATTERSON -JAN'20 | PV | 168808 | 003 | 00701 | 32.50 | 6347/020720 |
| | | | | VISA CHG-PATTERSON -JAN'20 | PV | 168808 | 004 | 00701 | 110.00 | 6347/020720 |
| | | | | VISA CHG-PATTERSON -JAN'20 | PV | 168808 | 005 | 00701 | 425.00 | 6347/020720 |
| | | | | VISA CHG-PEDERSEN- JAN'20 | PV | 168809 | 001 | 00701 | 431.04 | 4118/020720 |
| | | | | VISA CHG-PEDERSEN- JAN'20 | PV | 168809 | 002 | 00701 | 497.02 | 4118/020720 |
| | | | | VISA CHG-PEDERSEN- JAN'20 | PV | 168809 | 003 | 00701 | 471.32 | 4118/020720 |
| | | | | VISA CHG-PEDERSEN- JAN'20 | PV | 168809 | 004 | 00701 | 31.58 | 4118/020720 |
| | | | | VISA CHG-PEDERSEN- JAN'20 | PV | 168809 | 005 | 00701 | 31.58 | 4118/020720 |
| | | | | VISA CHG-PEDERSEN- JAN'20 | PV | 168809 | 006 | 00701 | 719.11 | 4118/020720 |
| | | | | VISA CHG-PEDERSEN- JAN'20 | PV | 168809 | 007 | 00701 | 28.25 | 4118/020720 |
| | | | | VISA CHG-PEDERSEN- JAN'20 | PV | 168809 | 008 | 00701 | 51.68 | 4118/020720 |
| | | | | VISA | PV | 168809 | 009 | 00701 | 725.00 | 4118/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| . . . Payment . . . Number | Date | Address Number | Name | Payment Stub Message | . . . Document . . . Ty | Number | Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CHG-PEDERSEN-JAN'20 | | | | | | |
| | | | | VISA CHG-RENGER-JAN'20 | PV | 168810 | 001 | 00701 | 689.61 | 6305/020720 |
| | | | | VISA CHG-ROBINS-JAN'20 | PV | 168811 | 001 | 00751 | 425.93 | 8913/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 001 | 00701 | 765.30 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 002 | 00701 | 336.13 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 003 | 00701 | 425.00 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 004 | 00701 | 1,146.24 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 005 | 00701 | 250.00 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 006 | 00701 | 130.00 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 007 | 00701 | 275.00 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 008 | 00701 | 85.00 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 009 | 00701 | 143.96 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 010 | 00701 | 975.00 | 6442/020720 |
| | | | | VISA CHG-SACCARECCIA-JAN'20 | PV | 168812 | 011 | 00701 | 975.00 | 6442/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VISA CHG-SONGER-JAN'20 | PV | 168813 | 001 | 00701 | 4.99 | 1326/020720 |
| | | | | VISA CHG-SONGER-JAN'20 | PV | 168813 | 002 | 00701 | 5.57 | 1326/020720 |
| | | | | VISA CHG-SONGER-JAN'20 | PV | 168813 | 003 | 00701 | 70.52 | 1326/020720 |
| | | | | VISA CHG-SONGER-JAN'20 | PV | 168813 | 004 | 00701 | 312.00 | 1326/020720 |
| | | | | VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 001 | 00701 | 56.33 | 0615/020720 |
| | | | | VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 002 | 00701 | 139.66 | 0615/020720 |
| | | | | VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 003 | 00701 | 61.94 | 0615/020720 |
| | | | | VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 004 | 00701 | 148.92 | 0615/020720 |
| | | | | VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 005 | 00701 | 73.50 | 0615/020720 |
| | | | | VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 006 | 00701 | 14.72 | 0615/020720 |
| | | | | VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 007 | 00701 | 130.92 | 0615/020720 |
| | | | | VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 008 | 00701 | 36.57 | 0615/020720 |
| | | | | VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 009 | 00701 | 16.11 | 0615/020720 |
| | | | | VISA CHG-TRIPLETT- | PV | 168814 | 010 | 00701 | 36.75 | 0615/020720 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | JAN'20 VISA CHG-TRIPLETT-JAN'20 | PV | 168814 | 011 | 00701 | 561.69 | 0615/020720 |
| | | | | VISA CHG-VARBEL-JAN'20 | PV | 168815 | 001 | 00751 | 780.74 | 6703/020720 |
| | | | | VISA CHG-VARBEL-JAN'20 | PV | 168815 | 002 | 00751 | 72.14 | 6703/020720 |
| | | | | VISA CHG-VOLLMAR-JAN'20 | PV | 168816 | 001 | 00101 | 27.90 | 0751/020720 |
| | | | | VISA CHG-VOLLMAR-JAN'20 | PV | 168816 | 002 | 00101 | 26.28 | 0751/020720 |
| | | | | VISA CHG-VOLLMAR-JAN'20 | PV | 168816 | 003 | 00101 | 29.53 | 0751/020720 |
| | | | | VISA CHG-WINK-JAN'20 | PV | 168817 | 001 | 00751 | 37.29 | 8239/020720 |
| | | | | VISA CHG-WINK-JAN'20 | PV | 168817 | 002 | 00751 | 36.00 | 8239/020720 |
| | | | | Payment Amount | | | | | 39,427.59 | |
| 84427 | 03/03/20 | 18071 | BLUE DIAMOND MATERIALS | 3.93 TN AC 3/8 FINE | PV | 168908 | 001 | 00701 | 276.57 | 1766629 |
| | | | | Payment Amount | | | | | 276.57 | |
| 84428 | 03/03/20 | 18080 | BOOT BARN INC. | SFTY F/WEAR-RJ/JW | PV | 168846 | 001 | 00701 | 445.88 | INV00036719 |
| | | | | Payment Amount | | | | | 445.88 | |
| 84429 | 03/03/20 | 21381 | URSULA BOSSON | MLG-INTRVW PNL 2/11/20 | PV | 168830 | 001 | 00701 | 30.25 | 021820 |
| | | | | Payment Amount | | | | | 30.25 | |
| 84430 | 03/03/20 | 19134 | GRETCHEN BULLOCK | EXP-CAPPO CONF 2/16~21 | PV | 168827 | 001 | 00701 | 343.26 | 022120 |
| | | | | Payment Amount | | | | | 343.26 | |
| 84431 | 03/03/20 | 18739 | CALIFORNIA HAZARDOUS SERVICES, | FEB'20 SITE VISIT | PV | 168906 | 001 | 00701 | 105.00 | 65414 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | INC. | | | | | | | |
| | | | | Payment Amount | | | | | 105.00 | |
| 84432 | 03/03/20 | 20655 | CANNON CORPORATION | P/E 1/31 J BRIDGER PIPELN | PV | 168888 | 001 | 00701 | 266.00 | 71489 |
| | | | | Payment Amount | | | | | 266.00 | |
| 84433 | 03/03/20 | 19122 | CENTER-LINE CONCRETE CUTTING COMPANY | GRIND CONCRTTRIP HAZARDS | PV | 168866 | 001 | 00751 | 2,490.00 | 14251 |
| | | | | Payment Amount | | | | | 2,490.00 | |
| 84434 | 03/03/20 | 19270 | COMMUNICATION S RELAY, LLC | MAR'20 SITE RENT-CASTRO | PV | 168893 | 001 | 00101 | 983.74 | 58066 |
| | | | | Payment Amount | | | | | 983.74 | |
| 84435 | 03/03/20 | 6966 | CS-AMSCO | FILLER FLANGE | PV | 168865 | 001 | 00751 | 127.03 | 15518 |
| | | | | Payment Amount | | | | | 127.03 | |
| 84436 | 03/03/20 | 16364 | D&H WATER SYSTEMS INC. | PARTS-BLUE WHITE PMPS | PV | 168857 | 001 | 00751 | 142.91 | I 2020-0131 |
| | | | | Payment Amount | | | | | 142.91 | |
| 84437 | 03/03/20 | 15438 | ALBERT DEGENDORFER | RFND BAL-CLOSED A/C | PV | 168820 | 001 | 00101 | 80.96 | 015313 |
| | | | | Payment Amount | | | | | 80.96 | |
| 84438 | 03/03/20 | 7257 | DIRECTV, INC. | 10 ADD'TL TV/LATE CHG | PV | 168854 | 001 | 00751 | 74.25 | 37171633216 |
| | | | | LATE FEE | PV | 168855 | 001 | 00101 | 4.25 | 37175663295 |
| | | | | Payment Amount | | | | | 78.50 | |
| 84439 | 03/03/20 | 21502 | MICHAEL DUTRA | RFND BAL-CLOSED A/C | PV | 168821 | 001 | 00101 | 352.24 | 009001 |
| | | | | Payment Amount | | | | | 352.24 | |
| 84440 | 03/03/20 | 14723 | EMPLOYMENT DEVELOPMENT DEPARTMENT | LBRD DATA RPT-2019 CAFR | PV | 168844 | 001 | 00701 | 165.00 | LMI-07285 |
| | | | | Payment Amount | | | | | 165.00 | |
| 84441 | 03/03/20 | 2654 | FAMCON PIPE | CLA-VAL PARTS | PV | 168916 | 001 | 00701 | 78,639.94 | S100020932.00 1 |
| | | | | Payment Amount | | | | | 78,639.94 | |
| 84442 | 03/03/20 | 6770 | G.I. INDUSTRIES | 2/1~2/15 SHOP BLDG | PV | 168856 | 001 | 00701 | 576.06 | 2933479-0283-6 |
| | | | | 2/1~2/15 | PV | 168914 | 001 | 00701 | 552.37 | 2532652-0283- |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | TAPIA RAGS | | | | | | |
| | | | | DISP | | | | | | 3 |
| | | Alt Payee | 6771 | G.I. INDUSTRIES | | | | | | |
| | | | | P. O. BOX 541065 | | | | | | |
| | | | | LOS ANGELES CA 90054-1065 | | | | | | |
| | | | | Payment Amount | | | | | 1,128.43 | |
| 84443 | 03/03/20 | 19648 | ABRAHAM GOHARI | RFND BAL-CLOSED A/C | PV | 168819 | 001 | 00101 | 49.11 | 1100358 |
| | | | | Payment Amount | | | | | 49.11 | |
| 84444 | 03/03/20 | 20168 | JOSEPHINE GUZMAN | MLG-CCAS WRKSHP 2/11/20 | PV | 168829 | 001 | 00701 | 82.69 | 021120 |
| | | | | Payment Amount | | | | | 82.69 | |
| 84445 | 03/03/20 | 21503 | JAMES HAMILTON | RFND BAL-CLOSED A/C | PV | 168822 | 001 | 00101 | 80.31 | 045654 |
| | | | | Payment Amount | | | | | 80.31 | |
| 84446 | 03/03/20 | 17447 | KONECRANES INC. | QTRLY CRANE/HOIST INSP | PV | 168907 | 001 | 00701 | 853.75 | 154256127 |
| | | | | QTRLY CRANE/HOIST INSP | PV | 168907 | 002 | 00701 | 1,500.00 | 154256127 |
| | | | | QTRLY CRANE/HOIST INSP | PV | 168907 | 004 | 00701 | 450.00 | 154256127 |
| | | | | QTRLY CRANE/HOIST INSP | PV | 168907 | 005 | 00701 | 125.00 | 154256127 |
| | | | | Payment Amount | | | | | 2,928.75 | |
| 84447 | 03/03/20 | 7790 | KRONOS | 4/1/20~3/31/2 1 WRKFC SUPT | PV | 168899 | 001 | 00701 | 13,844.31 | 11561860 |
| | | | | Payment Amount | | | | | 13,844.31 | |
| 84448 | 03/03/20 | 2611 | LA DWP | GERMAIN TEMP MTR 1/23~2/18 | PV | 168849 | 001 | 00101 | 627.80 | 952169/022020 |
| | | | | RECTIFIER 1/16~2/18 | PV | 168850 | 001 | 00101 | 42.20 | 503850/021820 |
| | | | | TWN LKS P/S 1/15~2/19 | PV | 168851 | 001 | 00101 | 8,942.04 | 875698/021920 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Payment Amount | | | | | 9,612.04 | |
| 84449 | 03/03/20 | 3352 | LAS VIRGENES MUNICIPAL WATER DISTRICT | PWP/DEMO 1/16~2/11 | PV | 168831 | 001 | 00751 | 912.66 | 2620/021920 |
| | | | | HQ BLDG#8 1/16~2/11 | PV | 168832 | 001 | 00701 | 322.18 | 2647/021920 |
| | | | | FIRE PRTCN#8 1/16~2/11 | PV | 168833 | 001 | 00701 | 7.50 | 2650/021920 |
| | | | | FIRE PTRCN#7 1/16~2/11 | PV | 168834 | 001 | 00701 | 7.50 | 2654/021920 |
| | | | | BLDG#2 1/16~2/11 | PV | 168835 | 001 | 00701 | 363.20 | 2658/021920 |
| | | | | BLDG#7 1/16~2/11 | PV | 168836 | 001 | 00701 | 824.88 | 2656/021920 |
| | | | | RLV FARM 1/16~2/11 | PV | 168837 | 001 | 00751 | 171.80 | 2080/021920 |
| | | | | JED SMTH P/S 1/13~2/10 | PV | 168838 | 001 | 00101 | 54.97 | 0254/021920 |
| | | | | L/S#2 1/9~2/13 | PV | 168839 | 001 | 00130 | 54.97 | 0570/021920 |
| | | | | L/S#1 1/9~2/13 | PV | 168840 | 001 | 00130 | 54.97 | 1775/021920 |
| | | | | TAPIA 1/16~2/11 | PV | 168841 | 001 | 00751 | 452.09 | 1760/021920 |
| | | | | RLV 1/16~2/11 | PV | 168842 | 001 | 00751 | 458.81 | 2090/021920 |
| | | | | Payment Amount | | | | | 3,685.53 | |
| 84450 | 03/03/20 | 15749 | LAWRENCE ROLL-UP DOORS, INC. | RPR MAINT YD GATE | PV | 168864 | 001 | 00701 | 623.65 | 2057675 |
| | | | | Payment Amount | | | | | 623.65 | |
| 84451 | 03/03/20 | 21493 | LLOYDS PLUMBING, INC. | EXCAVATION-MO RRSN P/S | PV | 168905 | 001 | 00701 | 11,440.00 | 17706679 |
| | | | | Payment Amount | | | | | 11,440.00 | |
| 84452 | 03/03/20 | 21489 | LUSARDI CONSTRUCTION | RFND BAL-CLOSED A/C | PV | 168818 | 001 | 00101 | 604.86 | 9999777-07787 2 |
| | | | | Payment Amount | | | | | 604.86 | |
| 84453 | 03/03/20 | 2814 | MCMASTER-CARR SUPPLY CO | PVC FITTINGS | PV | 168863 | 001 | 00101 | 232.91 | 32195909 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Alt Payee | 3197 MC MASTER-CARR<br>P. O. BOX 7690<br>CHICAGO IL 60680-7690 | | | | | | | | |
| | | | | Payment Amount | | | | | | 232.91 | |
| 84454 | 03/03/20 | 20949 | WILLIAM J. MCDERMOTT | MLG-WTR HEARG 2/11/20 | PV | 168828 | 001 | 00701 | | 24.67 | 022120 |
| | | | | Payment Amount | | | | | | 24.67 | |
| 84455 | 03/03/20 | 21504 | SHALYNDA MCKENZIE | RFND BAL-CLOSED A/C | PV | 168823 | 001 | 00101 | | 107.29 | 076189 |
| | | | | Payment Amount | | | | | | 107.29 | |
| 84456 | 03/03/20 | 21264 | MICHAEL BAKER INTERNATIONAL , INC. | P/E/ 1/31 GENSETS-PW P/S | PV | 168891 | 001 | 00701 | | 15,727.33 | 1074616 |
| | | | | Payment Amount | | | | | | 15,727.33 | |
| 84457 | 03/03/20 | 21134 | NEW EARTH USA, LLC | DISP BIOSOLIDS-JAN '20 | PV | 168898 | 001 | 00701 | | 27,811.51 | 015 |
| | | | | Payment Amount | | | | | | 27,811.51 | |
| 84458 | 03/03/20 | 20728 | OLIVAREZ MADRUGA LEMIEUX & O'NEILL | LEGAL SERV-JAN'20 | PV | 168887 | 001 | 00701 | | 9,841.75 | 140/JAN'20 |
| | | | | LEGAL SERV-JAN'20 | PV | 168887 | 003 | 00701 | | 8,187.50 | 140/JAN'20 |
| | | | | Payment Amount | | | | | | 18,029.25 | |
| 84459 | 03/03/20 | 20891 | PAGEFREEZER SOFTWARE, INC. | DATA EXPORT-WEBSIT E | PV | 168897 | 001 | 00701 | | 1,436.40 | INV-7258 |
| | | | | Payment Amount | | | | | | 1,436.40 | |
| 84460 | 03/03/20 | 17860 | SHERRI PANIAGUA | EXP-CALPELRA MTG 2/21 | PV | 168826 | 001 | 00701 | | 45.55 | 022120 |
| | | | | Payment Amount | | | | | | 45.55 | |
| 84461 | 03/03/20 | 18891 | DAVID W. PEDERSEN | MEAL-UWI CONF 2/19~2/20/20 | PV | 168911 | 001 | 00701 | | 42.65 | 022020 |
| | | | | BUS FARE-WTR MTG 2/11 | PV | 168912 | 001 | 00701 | | 2.25 | 021120 |
| | | | | Payment Amount | | | | | | 44.90 | |
| 84462 | 03/03/20 | 8484 | PRAXAIR DISTRIBUTION, INC | WELDING SUPPLIES | PV | 168867 | 001 | 00751 | | 302.07 | 94852831 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Alt Payee | 8898 PRAXAIR DISTRIBUTION INC.<br>DEPT. LA 21511<br>PASADENA CA 91185-1511 | | | | | | | | |
| | | | | Payment Amount | | | | | 302.07 | | |
| 84463 | 03/03/20 | 2585 | PURETEC | 2/1~4/30 DI RENTAL | PV | 168902 | 001 | 00701 | | 265.77 | 1777197 |
| | | | | Payment Amount | | | | | 265.77 | | |
| 84464 | 03/03/20 | 18505 | RAFTELIS FINANCIAL CONSULTANTS, INC. | P/E 1/31 RATE STUDY | PV | 168890 | 001 | 00701 | | 557.66 | 14190 |
| | | | | Payment Amount | | | | | 557.66 | | |
| 84465 | 03/03/20 | 21505 | JUSTINO RIANO | RFND BAL-CLOSED A/C | PV | 168824 | 001 | 00101 | | 939.58 | 082799 |
| | | | | Payment Amount | | | | | 939.58 | | |
| 84466 | 03/03/20 | 20656 | ANGELA SACCARECCIA | LUNCH W/STAFF@CVWD 2/12 | PV | 168843 | 001 | 00701 | | 52.98 | 2070012 |
| | | | | Payment Amount | | | | | 52.98 | | |
| 84467 | 03/03/20 | 20898 | SDI PRESENCE LLC | P/E 1/31-ERP CONST SRV | PV | 168889 | 001 | 00701 | | 6,604.85 | 4159 |
| | | Alt Payee | 20936 SDI PRESENCE LLC<br>29290 NETWORK PLACE<br>CHICAGO IL 60673-1292 | | | | | | | | |
| | | | | Payment Amount | | | | | 6,604.85 | | |
| 84468 | 03/03/20 | 6279 | SOUTHERN CALIFORNIA EDISON | PUMP TEST SRV 1/15/20 | PV | 168869 | 001 | 00101 | | 3,550.00 | 7501126102 |
| | | | | Payment Amount | | | | | 3,550.00 | | |
| 84469 | 03/03/20 | 2957 | SOUTHERN CALIFORNIA EDISON | RLV CMPST 1/24~2/24 | PV | 168913 | 001 | 00751 | | 18,162.18 | 5165-46/02262 0 |
| | | | | Payment Amount | | | | | 18,162.18 | | |
| 84470 | 03/03/20 | 2958 | SOUTHERN CALIFORNIA GAS CO | CONDUIT 1/21~2/19 | PV | 168853 | 001 | 00101 | | 14.30 | 8400/022420 |
| | | | | Payment Amount | | | | | 14.30 | | |
| 84471 | 03/03/20 | 16034 | TASC | FSA FEES 4/1~6/30/20 | PV | 168848 | 001 | 00701 | | 884.25 | IN1713537 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Payment Amount | | | | | 884.25 | |
| 84472 | 03/03/20 | 12149 | THATCHER CO. OF CALIFORNIA | 3,993 GAL BISULFITE | PV | 168900 | 001 | 00701 | 5,869.57 | 272635 |
| | | | | 11.0073 TN SULFATE | PV | 168901 | 001 | 00701 | 3,863.56 | 272745 |
| | | | | Payment Amount | | | | | 9,733.13 | |
| 84473 | 03/03/20 | 20935 | US METRO GROUP, INC. | JANTRL SRV-JAN'20 | PV | 168909 | 001 | 00701 | 8,771.00 | 101023 |
| | | | | JANTRL SRV-JAN'20 | PV | 168909 | 003 | 00701 | 2,468.27 | 101023 |
| | | | | JANTRL SRV-JAN'20 | PV | 168909 | 005 | 00701 | 202.46 | 101023 |
| | | | | JANTRL SRV-FEB'20 | PV | 168910 | 001 | 00701 | 8,771.00 | 101317 |
| | | | | JANTRL SRV-FEB'20 | PV | 168910 | 003 | 00701 | 2,468.27 | 101317 |
| | | | | JANTRL SRV-FEB'20 | PV | 168910 | 005 | 00701 | 202.46 | 101317 |
| | | | | Payment Amount | | | | | 22,883.46 | |
| 84474 | 03/03/20 | 21196 | VERNE'S PLUMBING, INC. | BKFLOW TST 9/1~11/6/19 | PV | 168895 | 001 | 00701 | 3,040.00 | 5823614 |
| | | | | BKFLOW TST 9/1~11/6/19 | PV | 168895 | 002 | 00701 | 7,125.00 | 5823614 |
| | | | | Payment Amount | | | | | 10,165.00 | |
| 84475 | 03/03/20 | 3035 | VWR SCIENTIFIC | POTASSIUM SULFATE | PV | 168858 | 001 | 00701 | 200.54 | 8089198659 |
| | | | | CULT TUBES | PV | 168859 | 001 | 00701 | 332.79 | 8088937171 |
| | | | | CR-#808887954 5-DAMAGED | PD | 168860 | 001 | 00701 | 332.79- | 8088925489 |
| | | | | TUBES/FLTRS/SYRINGE | PV | 168861 | 001 | 00701 | 1,000.91 | 8088879545 |
| | | | | IMHOFF CONE | PV | 168862 | 001 | 00701 | 271.84 | 8088770810 |
| | Alt Payee | 3216 | VWR INTERNATIONAL, INC<br>P. O. BOX 640169<br>PITTSBURGH PA 15264-0169 | | | | | | | |
| | | | | Payment Amount | | | | | 1,473.29 | |
| 84476 | 03/03/20 | 16914 | WECK LABORATORIES, INC. | TAPIA EFFLNT-9L0309 8 | PV | 168870 | 001 | 00701 | 318.24 | W0A0726-LV |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WLK-9L17073 | PV | 168871 | 001 | 00701 | 41.38 | W0A1078-LV |
| | | | | WLK RES-9K26023 | PV | 168872 | 001 | 00701 | 56.24 | W0A1077-LV |
| | | | | TAPIA GRNDWTR-0A071 18 | PV | 168873 | 001 | 00701 | 7.43 | W0A1568-LV |
| | | | | ASBESTOS-0A07 120 | PV | 168874 | 001 | 00701 | 160.00 | W0A1849-LV |
| | | | | MALIBU CRK-9L03096 | PV | 168875 | 001 | 00701 | 3,466.73 | W0A2036-LV |
| | | | | DIAZIONON-0A1 6079 | PV | 168876 | 001 | 00701 | 1,018.40 | W0A2232-LV |
| | | | | MALIBU CRK-0A09043 | PV | 168877 | 001 | 00701 | 444.08 | W0A2470-LV |
| | | | | DIONIZED WTR-0A07116 | PV | 168878 | 001 | 00701 | 71.10 | W0B0137-LV |
| | | | | WLK-0A16080 | PV | 168879 | 001 | 00701 | 41.38 | W0B0135-LV |
| | | | | TAPIA EFFLNT-0A0904 1 | PV | 168880 | 001 | 00701 | 590.37 | W0B0407-LV |
| | | | | TAPIA INFLNT-0B0412 1 | PV | 168882 | 001 | 00701 | 106.08 | W0B1147-LV |
| | | | | TAPIA EFFLNT-0B0411 9 | PV | 168883 | 001 | 00701 | 127.30 | W0B1107-LV |
| | | | | TAPIA EFFLNT-0B0412 0 | PV | 168884 | 001 | 00701 | 372.37 | W0B1244-LV |
| | | | | TAPIA GRNDWTR-0B041 18 | PV | 168885 | 001 | 00701 | 76.39 | W0B1321-LV |
| | | | | DIONIZED WTR-0B04117 | PV | 168886 | 001 | 00701 | 26.52 | W0B0501-LV |
| | | | | Payment Amount | | | | 6,924.01 | | |
| 84477 | 03/03/20 | 20712 | WOODARD & CURRAN INC. | P/E 12/27-BRINE MGMT STDY | PV | 168896 | 001 | 00701 | 10,322.00 | 172798 |
| | | | | Payment Amount | | | | 10,322.00 | | |
| 84478 | 03/03/20 | 8510 | WORK BOOT WAREHOUSE | SFTY F/WEAR-RS | PV | 168847 | 001 | 00701 | 225.00 | 2-63180 |

Batch Number - 278462

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Payment Amount | | | | | 225.00 | |
| 84479 | 03/03/20 | 21506 | MARTIK YEGHISHIAN | RFND BAL-CLOSED A/C | PV | 168825 | 001 | 00101 | 93.79 | 082263 |
| | | | | Payment Amount | | | | | 93.79 | |
| 84480 | 03/03/20 | 6248 | ZENNER PERFORMANCE METERS, INC. | METERS | PV | 168915 | 001 | 00701 | 10,722.75 | 0050882-N |
| | | Alt Payee | 19000 | ZENNER PERFORMANCE METER INC.<br>15280 ADDISON RD. #100<br>ADDISON TX 75001 | | | | | | |
| | | | | Payment Amount | | | | | 10,722.75 | |
| | | | | Total Amount of Payments Written | | | | | 343,122.86 | |
| | | | | Total Number of Payments Written | | | 60 | | | |

Batch Number - 278574

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| 84481 | 03/10/20 | 18965 | ePOWER NETWORK, INC. | BATTERIES-RLV | PV | 168936 | 001 | 00701 | 3,433.82 | 27789 |
| | | | | BATTERIES-WLK | PV | 168937 | 001 | 00701 | 2,535.76 | 28213 |
| | | | | Payment Amount | | | | | 5,969.58 | |
| 84482 | 03/10/20 | 16224 | ASBURY ENVIRONMENTAL SERVICES | USED PAINT DISPOSAL | PV | 168986 | 001 | 00101 | 926.31 | I500-00527697 |
| | | | | Payment Amount | | | | | 926.31 | |
| 84483 | 03/10/20 | 5625 | ASSOC. OF WATER AGENCIES OF VENTURA CO | 3 REG-WTRWS BKFST 2/19 | PV | 168957 | 001 | 00701 | 75.00 | 06-12446 |
| | | | | Payment Amount | | | | | 75.00 | |
| 84484 | 03/10/20 | 21106 | ASTOUND GROUP | PWP VSTR EXP SIGN | PV | 168920 | 001 | 00701 | 51,267.98 | UAG113599 |
| | | | | Payment Amount | | | | | 51,267.98 | |
| 84485 | 03/10/20 | 2869 | AT&T | SRV 2/20~3/19 | PV | 168962 | 001 | 00101 | 211.49 | 2150/022020 |
| | | | | SRV 2/23~3/22 | PV | 168963 | 001 | 00101 | 280.20 | 7426/022320 |
| | | | | SRV 2/23~3/22 | PV | 168964 | 001 | 00101 | 288.72 | 2430/022320 |
| | | | | Payment Amount | | | | | 780.41 | |
| 84486 | 03/10/20 | 8319 | BAC TEE SYSTEMS, INC. | BASEPLATES/CV RS-BIOFLTRS | PV | 169037 | 001 | 00701 | 137,936.55 | 338-001 |
| | | | | Payment Amount | | | | | 137,936.55 | |
| 84487 | 03/10/20 | 18107 | CAROLLO ENGINEERING, INC | P/E 1/31-PURE WTR DEMO | PV | 168923 | 001 | 00701 | 25,744.28 | 0184669 |
| | | | | Payment Amount | | | | | 25,744.28 | |
| 84488 | 03/10/20 | 4586 | CONSOLIDATED ELECTRICAL DISTRIBUTORS | ELECTRICAL PANEL | PV | 168934 | 001 | 00701 | 149.30 | 9009-404501 |
| | | | | Payment Amount | | | | | 149.30 | |
| 84489 | 03/10/20 | 20643 | CSI SERVICES, INC. | COATING INSPEC 1/16 & 17 | PV | 168925 | 001 | 00701 | 2,280.00 | 9619 |
| | | | | Payment Amount | | | | | 2,280.00 | |
| 84490 | 03/10/20 | 18933 | DAVIS WHOLESALE ELECTRIC, INC. | 400 AMP SWITCH | PV | 168974 | 001 | 00101 | 821.58 | 1021-441879 |
| | | | | Payment Amount | | | | | 821.58 | |
| 84491 | 03/10/20 | 2605 | DELTA PACIFIC | BTTRY & HAND | PV | 168971 | 001 | 00701 | 498.01 | 5455 |

Batch Number - 278574

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | INDUSTRIES | CLEANERS | | | | | | |
| | | | | Payment Amount | | | | | 498.01 | |
| 84492 | 03/10/20 | 19033 | DENOVO VENTURES, LLC | APR'20 DIST RCVRY | PV | 169046 | 001 | 00701 | 4,938.00 | 65511 |
| | | | | Payment Amount | | | | | 4,938.00 | |
| 84493 | 03/10/20 | 2638 | ENVIRONMENTAL RESOURCE ASSOC | STANDARDS | PV | 168973 | 001 | 00701 | 137.11 | 927063 |
| | | | | Payment Amount | | | | | 137.11 | |
| 84494 | 03/10/20 | 2655 | FERGUSON ENTERPRISES | PACKING FOR VALVES | PV | 168965 | 001 | 00101 | 598.15 | 070675 |
| | | Alt Payee 3207 | FERGUSON ENTERPRISES, INC. #1083<br>P. O. BOX 740827<br>LOS ANGELES CA 90074-0827 | | | | | | | |
| | | | | Payment Amount | | | | | 598.15 | |
| 84495 | 03/10/20 | 21055 | FIRESTONE COMPLETE AUTO CARE BRIDGESTONE | 4 TIRES/ALIGN-# 892 | PV | 169043 | 001 | 00701 | 857.16 | 191870 |
| | | | | TPMS SENSORS-#324 | PV | 169044 | 001 | 00701 | 354.64 | 191998 |
| | | Alt Payee 21088 | FIRESTONE COMPLETE AUTO CARE<br>1100 E. THOUSAND OAKS BLVD.<br>THOUSAND OAKS CA 91362-2815 | | | | | | | |
| | | | | Payment Amount | | | | | 1,211.80 | |
| 84496 | 03/10/20 | 6770 | G.I. INDUSTRIES | 3/20 DISP-WLK | PV | 169039 | 001 | 00701 | 339.65 | 2482597-0283-0 |
| | | | | 3/20 DISP-HQ & SHOP | PV | 169047 | 001 | 00701 | 1,099.89 | 2933561-0283-1 |
| | | | | 3/20 DISP-RLV | PV | 169048 | 001 | 00751 | 96.64 | 2933559-0283-5 |
| | | | | 3/20 DISP-RLV FARM | PV | 169049 | 001 | 00751 | 96.64 | 2933560-0283-3 |
| | | Alt Payee 6771 | G.I. INDUSTRIES<br>P. O. BOX 541065<br>LOS ANGELES CA 90054-1065 | | | | | | | |
| | | | | Payment Amount | | | | | 1,632.82 | |
| 84497 | 03/10/20 | 2701 | GRAINGER, INC. | ELECTRIC ENCLOSURE | PV | 168943 | 001 | 00701 | 56.08 | 9424508498 |
| | | | | HEX NUTS | PV | 168944 | 001 | 00701 | 133.04 | 9433294585 |

Batch Number - 278574

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HEX CAP SCREW | PV | 168945 | 001 | 00701 | 269.38 | 9436571831 |
| | | | | ENCLOSURE | PV | 168946 | 001 | 00701 | 761.94 | 9436571849 |
| | | | | SILVER TAPE | PV | 168947 | 001 | 00701 | 311.74 | 9437120067 |
| | | | | LABEL | PV | 168948 | 001 | 00701 | 189.32 | 9440518109 |
| | | | | CARTRIDGES | | | | | | |
| | | | | TRANSFORMER | PV | 168949 | 001 | 00701 | 121.48 | 9439778391 |
| | | | | CABLE TIES | PV | 168950 | 001 | 00701 | 230.49 | 9440685460 |
| | | | | ELECTRIC | PV | 168951 | 001 | 00701 | 151.77 | 9440790690 |
| | | | | STRIKE | | | | | | |
| | | | | WEDGE ANCHOR | PV | 168952 | 001 | 00701 | 112.34 | 9440696723 |
| | | | | DUSTER & EXTN | PV | 168953 | 001 | 00701 | 59.61 | 9444561527 |
| | | | | POLE | | | | | | |
| | | Alt Payee | 5453 GRAINGER, INC.<br>DEPT 805178142<br>PALATINE IL 60038-0001 | | | | | | | |
| | | | | Payment Amount | | | | | 2,397.19 | |
| 84498 | 03/10/20 | 9646 | GRAYBAR ELECTRIC CO. | ANALOG OUTPUT CARD | PV | 168966 | 001 | 00101 | 597.05 | 9314658050 |
| | | | | CR-WRRTY REPLCMNT-#9314658050 | PD | 168967 | 001 | 00101 | 583.86- | 9314618783 |
| | | | | Payment Amount | | | | | 13.19 | |
| 84499 | 03/10/20 | 2705 | HACH COMPANY | LAB SUPPLIES | PV | 168938 | 001 | 00701 | 85.68 | 11841035 |
| | | | | CR RTN-#11498402 | PD | 168982 | 001 | 00101 | 1,579.00- | 2174959 |
| | | | | SC200 CONTROLLER | PV | 168983 | 001 | 00101 | 2,523.27 | 11799704 |
| | | Alt Payee | 6442 HACH COMPANY<br>2207 COLLECTIONS CENTER DR<br>CHICAGO IL 60693 | | | | | | | |
| | | | | Payment Amount | | | | | 1,029.95 | |
| 84500 | 03/10/20 | 7421 | HAMNER, JEWELL AND ASSOCIATES | P/E 2/15 EMGCY GNRTRS | PV | 168924 | 001 | 00701 | 806.25 | 200039 |
| | | | | Payment Amount | | | | | 806.25 | |
| 84501 | 03/10/20 | 4525 | HARRINGTON INDUSTRIAL PLASTICS INC. | SOCKET INSERTS | PV | 168987 | 001 | 00751 | 264.62 | 005C8065 |
| | | Alt Payee | 7132 HARRINGTON INDUSTRIAL PLASTICS LLC<br>P. O. BOX 5128 | | | | | | | |

Batch Number - 278574

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | CHINO CA 91708-5128 | | | | | | | |
| | | | | Payment Amount | | | | | 264.62 | |
| 84502 | 03/10/20 | 2727 | IDEXX LABORATORIES | COLILERT/TRAY S/ENTERO | PV | 168988 | 001 | 00701 | 1,688.60 | 3060017384 |
| | | Alt Payee | 6447 IDEXX LABORATORIES<br>P. O. BOX 101327<br>ATLANTA GA 30392-1327 | | | | | | | |
| | | | | Payment Amount | | | | | 1,688.60 | |
| 84503 | 03/10/20 | 10102 | INFOSEND INC. | 12/4~12/31/19 BILL/PMT MLNG | PV | 169030 | 001 | 00701 | 10,569.78 | 165003 |
| | | | | STATEMENT BACKERS | PV | 169031 | 001 | 00701 | 147.68 | 165505 |
| | | | | REMINDER BACKERS | PV | 169032 | 001 | 00701 | 144.33 | 165507 |
| | | | | #10 ENVELOPES | PV | 169033 | 001 | 00701 | 104.24 | 165508 |
| | | | | 1/6~1/23 BILL/PMT MLNG | PV | 169034 | 001 | 00701 | 5,850.45 | 166264 |
| | | | | 1/29~1/30 BILL/PMT MLNG | PV | 169036 | 001 | 00701 | 1,869.67 | 166894 |
| | | | | Payment Amount | | | | | 18,686.15 | |
| 84504 | 03/10/20 | 16543 | INTERNATIONAL INSTITUTE OF MUNI CLERKS | APP FEE-MMC DSGNTN/JG | PV | 168956 | 001 | 00701 | 350.00 | MMC/DSGNTN |
| | | | | Payment Amount | | | | | 350.00 | |
| 84505 | 03/10/20 | 2611 | LA DWP | RECTIFIER 1/27~2/27 | PV | 168959 | 001 | 00101 | 42.20 | 851260/022720 |
| | | | | Payment Amount | | | | | 42.20 | |
| 84506 | 03/10/20 | 3038 | LARRY WALKER & ASSOC | P/E 1/31 TAPIA CHL STDY | PV | 168922 | 001 | 00701 | 399.00 | 00532.02-22 |
| | | | | Payment Amount | | | | | 399.00 | |
| 84507 | 03/10/20 | 21475 | MB HANRAHAN | PMT#3 PW DEMO MURAL | PV | 168919 | 001 | 00701 | 4,500.00 | LVMWD203 |
| | | | | Payment Amount | | | | | 4,500.00 | |
| 84508 | 03/10/20 | 2814 | MCMASTER-CARR SUPPLY CO | LOW PRESSURE GAUGES | PV | 168975 | 001 | 00751 | 681.53 | 34767972 |
| | | | | HEX NUTS | PV | 168976 | 001 | 00751 | 504.54 | 34913737 |
| | | | | KEYED SHAFT | PV | 168977 | 001 | 00751 | 46.11 | 30919299 |
| | | | | DOOR/HINGE HOLDERS | PV | 168978 | 001 | 00701 | 79.52 | 34895089 |

Batch Number - 278574

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Ty | Document Number | Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PVC FITTINGS | PV | 168979 | 001 | 00101 | 173.06 | 34897660 |
| | | | | COUPLINGS | PV | 168980 | 001 | 00101 | 101.57 | 34941106 |
| | | | | NIPPLES | PV | 168981 | 001 | 00101 | 37.99 | 35235370 |
| | | | | MTRLS-CONFND SPACE/VAN | PV | 169050 | 001 | 00701 | 747.63 | 35670769 |
| | | Alt Payee | 3197 MC MASTER-CARR<br>P. O. BOX 7690<br>CHICAGO IL 60680-7690 | | | | | | | |
| | | | | Payment Amount | | | | | 2,371.95 | |
| 84509 | 03/10/20 | 3755 | MICROWEST SOFTWARE SYSTEMS, INC. | AAMS ANL SPRT 1/1~12/31/20 | PV | 168921 | 001 | 00701 | 13,995.00 | 26091 |
| | | | | Payment Amount | | | | | 13,995.00 | |
| 84510 | 03/10/20 | 14322 | MILES CHEMICAL COMPANY, INC | 8.62 TN FERRIC CHLORIDE | PV | 168927 | 001 | 00701 | 5,257.47 | 585873 |
| | | | | Payment Amount | | | | | 5,257.47 | |
| 84511 | 03/10/20 | 20890 | MONTROSE AIR QUALITY SERVICES, LLC | SRV SCAQMD AER@RLV | PV | 168955 | 001 | 00751 | 1,300.00 | INV1217173 |
| | | | | Payment Amount | | | | | 1,300.00 | |
| 84512 | 03/10/20 | 2842 | NAPA AUTO PARTS | COMMERCIAL BTTRY | PV | 168972 | 001 | 00751 | 631.54 | 4206-931544 |
| | | | | Payment Amount | | | | | 631.54 | |
| 84513 | 03/10/20 | 2846 | NATIONAL PLANT SERVICES INC | CLEAN WET WELL-EL CANON | PV | 169045 | 001 | 00701 | 2,450.00 | 15462 |
| | | | | Payment Amount | | | | | 2,450.00 | |
| 84514 | 03/10/20 | 16372 | OLIN CORPORATION - CHLOR ALKALI | 4,836 GAL HYPOCHLORITE | PV | 168928 | 001 | 00701 | 4,073.48 | 2792899 |
| | | | | 4,992 GAL HYPOCHLORITE | PV | 168929 | 001 | 00701 | 4,204.89 | 2794799 |
| | | | | 4,500 GAL HYPOCHLORITE | PV | 168930 | 001 | 00701 | 3,790.46 | 2796511 |
| | | | | 4,830 GAL HYPOCHLORITE | PV | 169040 | 001 | 00701 | 4,068.43 | 2797527 |
| | | Alt Payee | 16373 OLIN CORPORATION - CHLOR ALKALI<br>P.O. BOX 402766<br>ATLANTA GA 30384-2766 | | | | | | | |

Batch Number - 278574

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Payment Amount | | | | | 16,137.26 | |
| 84515 | 03/10/20 | 3110 | GLEN PETERSON | MWD FEE-FEB'20 | PV | 168918 | 001 | 00701 | 2,200.00 | 15 |
| | | | | Payment Amount | | | | | 2,200.00 | |
| 84516 | 03/10/20 | 8484 | PRAXAIR DISTRIBUTION, INC | CYLNDR RENT 1/20~2/20 | PV | 168991 | 001 | 00101 | 203.67 | 95026217 |
| | | Alt Payee 8898 | PRAXAIR DISTRIBUTION INC.<br>DEPT. LA 21511<br>PASADENA CA 91185-1511 | | | | | | | |
| | | | | Payment Amount | | | | | 203.67 | |
| 84517 | 03/10/20 | 2957 | SOUTHERN CALIFORNIA EDISON | RLV CMPST-DL 1/24~2/24/20 | PV | 168958 | 001 | 00751 | 222.48 | 3293-30/02262 0 |
| | | | | Payment Amount | | | | | 222.48 | |
| 84518 | 03/10/20 | 3789 | T & T TRUCK & CRANE SERVICE | CRANE SRV-TAPIA | PV | 168942 | 001 | 00701 | 1,397.50 | 0145548-IN |
| | | | | Payment Amount | | | | | 1,397.50 | |
| 84519 | 03/10/20 | 4529 | TALLEY COMMUNICATIONS | SCADA ANTENNAS | PV | 168985 | 001 | 00101 | 377.22 | 10355971 |
| | | | | Payment Amount | | | | | 377.22 | |
| 84520 | 03/10/20 | 21428 | TERRA FORM, INC. | RTN RLS-PWP DEMO GARDEN | PV | 168954 | 001 | 00754 | 18,565.10 | 10638/RTN RLS |
| | | | | Payment Amount | | | | | 18,565.10 | |
| 84521 | 03/10/20 | 20971 | THOUSAND OAKS PLUMBING INC. | CLEAR TOILET-BLDG 8 | PV | 168969 | 001 | 00101 | 160.00 | 20787586 |
| | | | | Payment Amount | | | | | 160.00 | |
| 84522 | 03/10/20 | 9505 | TIRE MAN AGOURA | RPR TIRE-VEH#325 | PV | 168970 | 001 | 00701 | 25.00 | 2086042 |
| | | | | Payment Amount | | | | | 25.00 | |
| 84523 | 03/10/20 | 21510 | TRAINING CONNECTION LLC | REG-ADOBE TRNG 4/6~10-SB | PV | 168968 | 001 | 00701 | 1,845.00 | 20242 |
| | | | | Payment Amount | | | | | 1,845.00 | |
| 84524 | 03/10/20 | 21252 | TYLER TECHNOLOGIES, INC. | ERP IMPLTN 2/3~2/17 | PV | 168926 | 001 | 00701 | 1,481.79 | 045-293747 |
| | | | | TYLER CONNECT-2020 | PV | 168961 | 001 | 00701 | 975.00 | 045-293411 |

Batch Number - 278574

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Payment Amount | | | | 2,456.79 | | |
| 84525 | 03/10/20 | 2436 | VINCE BARNES AUTOMOTIVE | TUNE-UP/SRV-V EH#892 | PV | 168939 | 001 | 00701 | 472.81 | 024425 |
| | | | | ENG OIL LINES/SRV-#90 7 | PV | 168940 | 001 | 00701 | 451.37 | 024427 |
| | | | | SERP BELT/SRV-VEH# 326 | PV | 168941 | 001 | 00701 | 260.69 | 024428 |
| | | | | Payment Amount | | | | 1,184.87 | | |
| 84526 | 03/10/20 | 19585 | W. LITTEN INC. | SPRYFLD 2/10~2/14 | PV | 168931 | 001 | 00701 | 5,207.36 | 20006 |
| | | | | SPRYFLD 2/17~2/21 | PV | 168932 | 001 | 00701 | 5,301.77 | 20008 |
| | | | | TRAIL MAINT 2/13 | PV | 168933 | 001 | 00701 | 153.29 | 20007 |
| | | | | SPRYFLD 2/24~2/27 | PV | 169041 | 001 | 00701 | 5,053.29 | 20009 |
| | | | | SPRAY POISON OAK-TAPIA | PV | 169042 | 001 | 00701 | 504.36 | 20010 |
| | | | | Payment Amount | | | | 16,220.07 | | |
| 84527 | 03/10/20 | 3025 | WATER & SANITATION SRV./VENTURA COUNTY | PCH WTR 1/14~2/18 | PV | 168960 | 001 | 00101 | 21,766.70 | 1955972 |
| | | | | Payment Amount | | | | 21,766.70 | | |
| 84528 | 03/10/20 | 3047 | WESCO DISTRIBUTION, INC. | WIRE | PV | 168935 | 001 | 00701 | 558.80 | 974300 |
| | | Alt Payee | 6443 | WESCO DISTRIBUTION, INC<br>PO BOX 31001-0465<br>PASADENA CA 91110-0465 | | | | | | |
| | | | | Payment Amount | | | | 558.80 | | |
| 84529 | 03/10/20 | 6248 | ZENNER PERFORMANCE METERS, INC. | COMPOUND METER-CANWOOD | PV | 169051 | 001 | 00701 | 1,845.17 | 0051334-IN |
| | | Alt Payee | 19000 | ZENNER PERFORMANCE METER INC.<br>15280 ADDISON RD. #100<br>ADDISON TX 75001 | | | | | | |
| | | | | Payment Amount | | | | 1,845.17 | | |

Batch Number - 278574

Bank Account - 00146807 Cash-General

| . . . Payment . . . Number | Date | Address Number | Name | Payment Stub Message | . . . Document . . . Ty | Number | Key Itm | Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total Amount of Payments Written | | | | | 376,315.62 | |
| | | | | Total Number of Payments Written | | | 49 | | | |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| 84530 | 03/17/20 | 19071 | A BEE MAN | BEE RMVL-COLD CYN RD | PV | 169067 | 001 | 00701 | 165.00 | 22285 |
| | | | | BEE REMVL-LIVEOAK | PV | 169068 | 001 | 00701 | 165.00 | 22286 |
| | | | | BEE REMVL-RAMBLA PAC | PV | 169069 | 001 | 00701 | 165.00 | 22287 |
| | | | | BEE REMVL-DIANA CT | PV | 169070 | 001 | 00701 | 165.00 | 22639 |
| | | | | BEE REMVL-DARDENN E | PV | 169071 | 001 | 00701 | 125.00 | 22664 |
| | | | | BEE REMVL-QUAIL RUN | PV | 169072 | 001 | 00701 | 145.00 | 22692 |
| | | | | BEE REMVL-JANLOR DR | PV | 169073 | 001 | 00701 | 165.00 | 22814 |
| | | | | Payment Amount | | | | | 1,095.00 | |
| 84531 | 03/17/20 | 8680 | ADS, LLC | FEB'20 FLOW MNTG | PV | 169027 | 001 | 00701 | 745.00 | 22085.22-0220 |
| | | | | FEB'20 FLOW MNTG | PV | 169027 | 002 | 00701 | 2,235.00 | 22085.22-0220 |
| | | | | Payment Amount | | | | | 2,980.00 | |
| 84532 | 03/17/20 | 18652 | ADWESTEAST | (400) SS SPORTS BOTTLES | PV | 169012 | 001 | 00701 | 2,245.75 | 20-5158 |
| | | | | Payment Amount | | | | | 2,245.75 | |
| 84533 | 03/17/20 | 19263 | AFFORDABLE TABLES AND CHAIRS LLC | RNTLS-EE EVENT 8/21/19 | PV | 169097 | 001 | 00701 | 545.00 | 1392 |
| | | | | Payment Amount | | | | | 545.00 | |
| 84534 | 03/17/20 | 19993 | ALEXANDER'S CONTRACT SERVICES, INC. | MTR READS 1/27~2/21 | PV | 169029 | 001 | 00701 | 20,078.05 | 102691 |
| | | | | Payment Amount | | | | | 20,078.05 | |
| 84535 | 03/17/20 | 17817 | FRANK ALMAGUER | MLG-LEADERSHP TRNG 2/10~12 | PV | 169094 | 001 | 00701 | 59.86 | 021220 |
| | | | | Payment Amount | | | | | 59.86 | |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| 84536 | 03/17/20 | 9631 | AT&T LONG DISTANCE | LONG DIST 2/1~3/1/20 | PV | 169065 | 001 | 00701 | .38 | 806368136/030 420 |
| | | | | LONG DIST 2/1~3/1/20 | PV | 169065 | 002 | 00701 | .13 | 806368136/030 420 |
| | | | | LONG DIST 2/1~3/1/20 | PV | 169065 | 003 | 00701 | 8.03 | 806368136/030 420 |
| | | | | LONG DIST 2/1~3/1/20 | PV | 169065 | 004 | 00701 | .85 | 806368136/030 420 |
| | | | | Payment Amount | | | | | 9.39 | |
| 84537 | 03/17/20 | 16253 | AT&T MOBILITY | WIRELESS SRV 2/4~3/3 | PV | 169133 | 001 | 00701 | 260.04 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 002 | 00701 | 43.23 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 003 | 00701 | 27.02 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 004 | 00701 | 327.23 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 005 | 00701 | 34.77 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 006 | 00701 | 56.46 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 007 | 00701 | 86.46 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 008 | 00701 | 27.29 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 009 | 00701 | 72.95 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 010 | 00701 | 170.74 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 011 | 00701 | 30.39 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 012 | 00701 | 70.98 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 013 | 00701 | 478.65 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 014 | 00701 | 27.02 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 015 | 00701 | 43.23 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 016 | 00701 | 210.19 | 9332/030320 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 017 | 00701 | 72.13 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 018 | 00701 | 70.65 | 9332/030320 |
| | | | | WIRELESS SRV 2/4~3/3 | PV | 169133 | 019 | 00701 | 118.30- | 9332/030320 |
| | | | | Payment Amount | | | | | 1,991.13 | |
| 84538 | 03/17/20 | 7770 | AUTOMATIONDIRECT.COM | SWITCHES & CONTACTS | PV | 169009 | 001 | 00751 | 1,716.96 | 10751449 |
| | | | | PUSHBUTTONS | PV | 169010 | 001 | 00751 | 1,182.60 | 10754920 |
| | | | | Payment Amount | | | | | 2,899.56 | |
| 84539 | 03/17/20 | 19893 | STEVEN BAIRD | MLG/PKG-ACWA MTG 2/13/20 | PV | 169128 | 001 | 00701 | 42.72 | 012320 |
| | | | | Payment Amount | | | | | 42.72 | |
| 84540 | 03/17/20 | 20491 | BEST BEST & KRIEGER LLP | P/E 1/31 FED LBBY | PV | 169022 | 001 | 00701 | 7,500.00 | 870760 |
| | | | | P/E 1/31 ST LBBY | PV | 169023 | 001 | 00701 | 5,000.00 | 870761 |
| | | | | Payment Amount | | | | | 12,500.00 | |
| 84541 | 03/17/20 | 21392 | BLUESPACE INTERIORS | CS-NOISE CANCL GLASS | PV | 169014 | 001 | 00701 | 6,468.78 | I-01723623 |
| | | | | Payment Amount | | | | | 6,468.78 | |
| 84542 | 03/17/20 | 21426 | BRIGHTVIEW LANDSCAPE SERVICES, INC | LNDSCP SRV-FEB'20 | PV | 169015 | 001 | 00701 | 3,149.67 | 6697458 |
| | | | | LNDSCP SRV-FEB'20 | PV | 169015 | 002 | 00701 | 5,473.08 | 6697458 |
| | | | | LNDSCP SRV-FEB'20 | PV | 169015 | 004 | 00701 | 4,482.67 | 6697458 |
| | | | | LNDSCP SRV-FEB'20 | PV | 169015 | 006 | 00701 | 1,090.00 | 6697458 |
| | | | | Payment Amount | | | | | 14,195.42 | |
| 84543 | 03/17/20 | 21515 | CALIFORNIA ASSOC OF MUTUAL WATER CO. | CALMUTUALS MBRSHP 2020 | PV | 169091 | 001 | 00701 | 500.00 | 01102 |
| | | | | Payment Amount | | | | | 500.00 | |
| 84544 | 03/17/20 | 2964 | CA DEPARTMENT OF TAX&FEE ADMINISTRATION | SALES/USE TAXES-FEB'20 | PV | 169090 | 001 | 00701 | 2,441.00 | 097-817885/02 2920 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Payment Amount | | | | | 2,441.00 | |
| 84545 | 03/17/20 | 21514 | CHARTER SPECTRUM | CLAIM-FAIRVW M-BRK DEC19 | PV | 169088 | 001 | 00101 | 27,543.28 | 122719/CLAIM |
| | | | | Payment Amount | | | | | 27,543.28 | |
| 84546 | 03/17/20 | 16821 | CLEAN SWEEP SUPPLY CO., INC | TOWELS | PV | 169120 | 001 | 00701 | 723.19 | 577788 |
| | | | | TISSUE & TRASH LINERS | PV | 169121 | 001 | 00701 | 1,528.62 | 577787 |
| | | | | Payment Amount | | | | | 2,251.81 | |
| 84547 | 03/17/20 | 2547 | COUNTY SANITATION DISTRICTS OF LA COUNTY | TAPIA GRIT HAULING-FEB'20 | PV | 169118 | 001 | 00751 | 717.83 | 48892/022920 |
| | | | | Payment Amount | | | | | 717.83 | |
| 84548 | 03/17/20 | 17281 | DOCTOR DIESEL | 2/25 DIESEL MAINT-CAMPUS | PV | 169107 | 001 | 00701 | 605.88 | 20-724 |
| | | | | 2/25 DIESEL MAINT-SEWER SYS | PV | 169107 | 002 | 00701 | 605.88 | 20-724 |
| | | | | 2/25 DIESEL MAINT-TAPIA | PV | 169107 | 003 | 00701 | 1,817.65 | 20-724 |
| | | | | 2/25 DIESEL MAINT-PW SYS | PV | 169107 | 006 | 00701 | 605.89 | 20-724 |
| | | | | Payment Amount | | | | | 3,635.30 | |
| 84549 | 03/17/20 | 2654 | FAMCON PIPE | METER PARTS | PV | 169119 | 001 | 00701 | 3,803.24 | S100022569.001 |
| | | | | Payment Amount | | | | | 3,803.24 | |
| 84550 | 03/17/20 | 21512 | ERAN FATTAL | RFND BAL-CLOSED A/C | PV | 169083 | 001 | 00101 | 88.59 | 077887 |
| | | | | Payment Amount | | | | | 88.59 | |
| 84551 | 03/17/20 | 19397 | FIRST CHOICE SERVICES | 2/20 COFFEE SRV-HQ | PV | 169101 | 001 | 00701 | 148.32 | 371601 |
| | | | | 2/20 COFFEE SRV-OPS | PV | 169102 | 001 | 00701 | 109.40 | 371602 |
| | | | | 2/20 COFFEE SRV-RLV | PV | 169104 | 001 | 00701 | 61.03 | 371603 |
| | | | | 2/20 COFFEE SRV-TAPIA | PV | 169105 | 001 | 00701 | 114.90 | 371604 |
| | | | | Payment Amount | | | | | 433.65 | |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| 84552 | 03/17/20 | 6770 | G.I. INDUSTRIES | 2/16~2/29 SHOP BLDG | PV | 169115 | 001 | 00701 | 807.10 | 2933723-0283-7 |
| | | | | 2/16~2/29 10 YD RLV | PV | 169116 | 001 | 00751 | 302.32 | 2933724-0283-5 |
| | | | | 2/16~2/29 25 YD RLV | PV | 169117 | 001 | 00751 | 359.48 | 2937520-0283-3 |
| | | Alt Payee | 6771 G.I. INDUSTRIES<br>P. O. BOX 541065<br>LOS ANGELES CA 90054-1065 | | | | | | | |
| | | | | Payment Amount | | | | | 1,468.90 | |
| 84553 | 03/17/20 | 7251 | GENERAL PAVEMENT MANAGEMENT | RFND BAL-CLOSED A/C | PV | 169081 | 001 | 00101 | 379.16 | 9999784 |
| | | | | Payment Amount | | | | | 379.16 | |
| 84554 | 03/17/20 | 2705 | HACH COMPANY | CR-#11689803 | PD | 169113 | 001 | 00101 | 171.25- | 2174888 |
| | | | | WATER TESTING EQUIP | PV | 169122 | 001 | 00701 | 691.20 | 11849247 |
| | | Alt Payee | 6442 HACH COMPANY<br>2207 COLLECTIONS CENTER DR<br>CHICAGO IL 60693 | | | | | | | |
| | | | | Payment Amount | | | | | 519.95 | |
| 84555 | 03/17/20 | 18594 | HAROLD BECK & SONS, INC | ACTUATOR COUPLING | PV | 169008 | 001 | 00751 | 1,030.25 | 322519 |
| | | | | Payment Amount | | | | | 1,030.25 | |
| 84556 | 03/17/20 | 4525 | HARRINGTON INDUSTRIAL PLASTICS INC. | WELDER BENCH | PV | 169106 | 001 | 00701 | 10,235.72 | 005C8216 |
| | | Alt Payee | 7132 HARRINGTON INDUSTRIAL PLASTICS LLC<br>P. O. BOX 5128<br>CHINO CA 91708-5128 | | | | | | | |
| | | | | Payment Amount | | | | | 10,235.72 | |
| 84557 | 03/17/20 | 2732 | INDUSTRIAL METAL SUPPLY | MTRLS-VENT DUCTING | PV | 169096 | 001 | 00751 | 640.88 | 580417 |
| | | | | Payment Amount | | | | | 640.88 | |
| 84558 | 03/17/20 | 10102 | INFOSEND INC. | RATE NOTICE POSTCARDS | PV | 169131 | 001 | 00301 | 824.06 | 167647 |
| | | | | Payment Amount | | | | | 824.06 | |
| 84559 | 03/17/20 | 20823 | INVOICE CLOUD INC. | IC TRAN FEE-JAN'20 | PV | 169124 | 001 | 00701 | 4,507.50 | 964-2020_1 |
| | | | | IC TRAN | PV | 169125 | 001 | 00701 | 6,282.00 | 964-2020_2 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | FEE-FEB'20 | | | | | | |
| | | | | Payment Amount | | | | | 10,789.50 | |
| 84560 | 03/17/20 | 6777 | CAL-COAST MACHINERY | JD6320-TRACTO R SRV | PV | 169100 | 001 | 00751 | 649.69 | 605416 |
| | | Alt Payee 7133 | JOHN DEERE FINANCIAL<br>PO BOX 4450<br>CAROL STREAM IL 60197-4450 | | | | | | | |
| | | | | Payment Amount | | | | | 649.69 | |
| 84561 | 03/17/20 | 21516 | KNOWBE4 INC. | SEC AWRNS RNWL 20-21 | PV | 169126 | 001 | 00701 | 2,277.00 | INV84121 |
| | | | | Payment Amount | | | | | 2,277.00 | |
| 84562 | 03/17/20 | 3352 | LAS VIRGENES MUNICIPAL WATER DISTRICT | EQS TNK 1/28~2/26 | PV | 169053 | 001 | 00101 | 103.21 | 0896/030420 |
| | | | | RWPS 1/28~2/26 | PV | 169054 | 001 | 00701 | 318.45 | 2645/030420 |
| | | | | BD#8/RECL 1/28~2/26 | PV | 169055 | 001 | 00701 | 242.10 | 2646/030420 |
| | | | | BD#8/RW 1/28~2/26 | PV | 169056 | 001 | 00701 | 254.27 | 2652/030420 |
| | | | | BD#7/RW 1/28~2/26 | PV | 169057 | 001 | 00701 | 249.66 | 2655/030420 |
| | | | | IND HILLS 1/29~2/27 | PV | 169058 | 001 | 00751 | 33.72 | 0558/030420 |
| | | | | MORRSN P/S 1/29~2/27 | PV | 169059 | 001 | 00751 | 33.72 | 0331/030420 |
| | | | | WLK FLT 1/31~2/27 | PV | 169060 | 001 | 00101 | 171.80 | 0907/030420 |
| | | | | WLK FLT 1/31~2/27 | PV | 169061 | 001 | 00101 | 318.51 | 0909/030420 |
| | | | | Payment Amount | | | | | 1,725.44 | |
| 84563 | 03/17/20 | 8069 | LEFTCHEST | (225) WATER BOTTLES | PV | 169013 | 001 | 00701 | 2,448.81 | LA32720 |
| | | | | Payment Amount | | | | | 2,448.81 | |
| 84564 | 03/17/20 | 19396 | JAY LEWITT | EXP-ACWA DC CONF 2/25~3/3 | PV | 169129 | 001 | 00701 | 992.59 | 030320 |
| | | | | EXP-CASA DC CONF 2/23~24 | PV | 169130 | 001 | 00701 | 1,315.43 | 022420 |
| | | | | Payment Amount | | | | | 2,308.02 | |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| 84565 | 03/17/20 | 19622 | LYNDA LO-HILL | EXP-CASA DC FRM 2/23~24 | PV | 169092 | 001 | 00701 | 38.58 | 022420 |
| | | | | EXP-ACWA DC CONF 2/25~27 | PV | 169093 | 001 | 00701 | 74.03 | 022720 |
| | | | | Payment Amount | | | | | 112.61 | |
| 84566 | 03/17/20 | 6733 | LOS ANGELES COUNTY SHERIFF'S DEPARTMENT | SRV FEE-SMALL CLAIM | PV | 169127 | 001 | 00101 | 40.00 | 200313000866 |
| | | | | Payment Amount | | | | | 40.00 | |
| 84567 | 03/17/20 | 6934 | MANHOLE ADJUSTING CONTRACTORS, INC. | ADJ MANHOLE FRAME/CVR | PV | 169020 | 001 | 00701 | 7,380.00 | 6894 |
| | | | | Payment Amount | | | | | 7,380.00 | |
| 84568 | 03/17/20 | 2835 | MODERN TOOL CO | MFG STEEL STUB SHAFTS | PV | 169076 | 001 | 00751 | 1,702.45 | 59954 |
| | | | | MFG STAINLESS PINS | PV | 169077 | 001 | 00751 | 1,400.75 | 59955 |
| | | | | MFG STAINLESS PLATES | PV | 169078 | 001 | 00751 | 1,247.75 | 60628 |
| | | | | MFG SPLT BRNG SLEEVES | PV | 169079 | 001 | 00751 | 1,475.10 | 60407 |
| | | | | MFG STAINLESS SLEEVES | PV | 169080 | 001 | 00751 | 1,174.48 | 60408 |
| | | | | Payment Amount | | | | | 7,000.53 | |
| 84569 | 03/17/20 | 2365 | MSO TECHNOLOGIES | P/E 1/31-NEW PRCSR-WLFP | PV | 169026 | 001 | 00701 | 11,935.00 | 6448 |
| | | | | P/E 1/31-PLC DSGN/PRGM | PV | 169112 | 001 | 00701 | 1,050.00 | 6447 |
| | | | | Payment Amount | | | | | 12,985.00 | |
| 84570 | 03/17/20 | 20728 | OLIVAREZ MADRUGA LEMIEUX & O'NEILL | LEGAL SRV-FEB'20 | PV | 169108 | 001 | 00701 | 8,253.99 | 140/FEB'20 |
| | | | | LEGAL SRV-FEB'20 | PV | 169108 | 003 | 00701 | 2,337.50 | 140/FEB'20 |
| | | | | Payment Amount | | | | | 10,591.49 | |
| 84571 | 03/17/20 | 13586 | ORACLE AMERICA, INC. | JDE MAINT 11/23/19~2/22 /20 | PV | 169028 | 001 | 00701 | 18,481.13 | 44481007 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Payment Amount | | | | | 18,481.13 | |
| 84572 | 03/17/20 | 20555 | PETTY CASH - MARY CAPPS | CASH EXP-7/30/19~3/3/20 | PV | 169066 | 001 | 00701 | 46.40 | 030920 |
| | | | | CASH EXP-7/30/19~3/3/20 | PV | 169066 | 002 | 00701 | 19.40 | 030920 |
| | | | | CASH EXP-7/30/19~3/3/20 | PV | 169066 | 003 | 00701 | 14.48 | 030920 |
| | | | | CASH EXP-7/30/19~3/3/20 | PV | 169066 | 004 | 00701 | 8.68 | 030920 |
| | | | | CASH EXP-7/30/19~3/3/20 | PV | 169066 | 005 | 00701 | 31.98 | 030920 |
| | | | | CASH EXP-7/30/19~3/3/20 | PV | 169066 | 006 | 00701 | 7.32 | 030920 |
| | | | | CASH EXP-7/30/19~3/3/20 | PV | 169066 | 007 | 00701 | 49.06 | 030920 |
| | | | | CASH EXP-7/30/19~3/3/20 | PV | 169066 | 008 | 00701 | 37.21 | 030920 |
| | | | | CASH EXP-7/30/19~3/3/20 | PV | 169066 | 009 | 00701 | 21.89 | 030920 |
| | | | | Payment Amount | | | | | 236.42 | |
| 84573 | 03/17/20 | 20334 | PRUDENTIAL OVERALL SUPPLY | 2/20 UNFRMS/MATS/TWLS | PV | 168992 | 001 | 00701 | 63.10 | 170974036 |
| | | | | 2/20 UNFRMS/MATS/TWLS | PV | 168992 | 002 | 00701 | 61.87 | 170974036 |
| | | | | 2/20 UNFRMS/MATS/TWLS | PV | 168993 | 001 | 00701 | 63.10 | 170975508 |
| | | | | 2/20 UNFRMS/MATS/TWLS | PV | 168993 | 002 | 00701 | 61.87 | 170975508 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168994 | 001 | 00701 | 63.80 | 170976982 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168994 | 002 | 00701 | 61.87 | 170976982 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168995 | 001 | 00701 | 63.10 | 170978463 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168995 | 002 | 00701 | 61.87 | 170978463 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168996 | 001 | 00701 | 9.60 | 170974031 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168996 | 002 | 00701 | 21.44 | 170974031 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168997 | 001 | 00701 | 9.60 | 170975503 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168997 | 002 | 00701 | 21.44 | 170975503 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168998 | 001 | 00701 | 9.60 | 170976977 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168998 | 002 | 00701 | 21.44 | 170976977 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168999 | 001 | 00701 | 9.60 | 170978458 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 168999 | 002 | 00701 | 21.44 | 170978458 |
| | | | | 2/20 UNFRMS/MATS/T WLS | PV | 169000 | 001 | 00701 | 608.92 | 170974034 |
| | | | | 2/20 UNFRMS/MATS/T | PV | 169001 | 001 | 00701 | 313.64 | 170975506 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169002 | 001 | 00701 | 313.64 | 170976980 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169003 | 001 | 00701 | 313.64 | 170978461 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169004 | 001 | 00701 | 33.60 | 170974035 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169004 | 002 | 00701 | 30.83 | 170974035 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169005 | 001 | 00701 | 33.60 | 170975507 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169005 | 002 | 00701 | 30.83 | 170975507 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169006 | 001 | 00701 | 33.60 | 170976981 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169006 | 002 | 00701 | 30.83 | 170976981 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169007 | 001 | 00701 | 33.60 | 170978462 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | 2/20 | PV | 169007 | 002 | 00701 | 30.83 | 170978462 |
| | | | | UNFRMS/MATS/T | | | | | | |
| | | | | WLS | | | | | | |
| | | | | Payment Amount | | | | 2,432.30 | | |
| 84574 | 03/17/20 | 2905 | RAIN FOR RENT | TEMP | PV | 169095 | 001 | 00101 | 1,027.74 | 1456816 |
| | | | | PIPING-GERMAI | | | | | | |
| | | | | N | | | | | | |
| | | Alt Payee | 3200 | RAIN FOR RENT | | | | | | |
| | | | | FILE 52541 | | | | | | |
| | | | | LOS ANGELES CA 90074-2541 | | | | | | |
| | | | | Payment Amount | | | | 1,027.74 | | |
| 84575 | 03/17/20 | 6766 | SAWYER | 770 GAL | PV | 169109 | 001 | 00701 | 2,074.69 | V151468 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | PETROLEUM | DIESEL | | | | | | |
| | | | | Payment Amount | | | | | 2,074.69 | |
| 84576 | 03/17/20 | 20412 | SHRED-IT USA LLC | FEB'20 DOC SHRDNG | PV | 169111 | 001 | 00701 | 207.36 | 8129262421 |
| | | | | Payment Amount | | | | | 207.36 | |
| 84577 | 03/17/20 | 2956 | SOUTH COAST AIR QUALITY MGMT DIST | ID63250 L/S#1 ICE/CRBN | PV | 169084 | 001 | 00130 | 1,928.97 | 3593281 |
| | | | | ID63250 L/S#1 EMSN 19-20 | PV | 169089 | 001 | 00130 | 136.40 | 3594561 |
| | | | | Payment Amount | | | | | 2,065.37 | |
| 84578 | 03/17/20 | 2957 | SOUTHERN CALIFORNIA EDISON | ENERGY CHGS-FEB'20 | PV | 169021 | 001 | 00101 | 127.49 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 002 | 00101 | 383.81 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 003 | 00101 | 11.10 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 004 | 00101 | 14.58 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 005 | 00101 | 12.62 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 006 | 00101 | 2,557.80 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 007 | 00101 | 6,064.83 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 008 | 00101 | 1,954.18 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 009 | 00101 | 4,661.87 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 010 | 00101 | 10.70 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 011 | 00101 | 166.22 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 012 | 00101 | 3,011.91 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 013 | 00101 | 12,854.71 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 014 | 00101 | 51,418.84 | 2869/030420 |
| | | | | ENERGY | PV | 169021 | 015 | 00101 | 14.04 | 2869/030420 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 016 | 00101 | 737.69 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 017 | 00101 | 648.05 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 018 | 00101 | 5,454.53 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 019 | 00101 | 54.24 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 020 | 00101 | 124.29 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 021 | 00101 | 600.51 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 022 | 00101 | 2,515.59 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 023 | 00101 | 20.30 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 024 | 00101 | 290.69 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 025 | 00101 | 16.10 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 026 | 00101 | 353.77 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 027 | 00101 | 13.80 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 028 | 00101 | 4,886.57 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 029 | 00101 | 1,213.28 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 030 | 00101 | 2,135.22 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 031 | 00101 | 7,924.75 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 032 | 00101 | 1,330.14 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 033 | 00101 | 2,976.62 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 034 | 00101 | 7,426.01 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 035 | 00101 | 4,171.41 | 2869/030420 |
| | | | | CHGS-FEB'20 | | | | | | |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 036 | 00101 | 246.34 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 037 | 00101 | 344.71 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 038 | 00101 | 12.31 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 039 | 00101 | 28.80 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 040 | 00101 | 27.85 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 041 | 00101 | 26.31 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 042 | 00101 | 28.34 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 043 | 00101 | 23.95 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 044 | 00101 | 25.31 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 045 | 00101 | 22.30 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 046 | 00101 | 23.32 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 047 | 00101 | 24.03 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 048 | 00101 | 1,001.05 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 049 | 00101 | 1,007.69 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 050 | 00101 | 943.20 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 051 | 00101 | 1,045.79 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 052 | 00101 | 738.06 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 053 | 00101 | 634.31 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 054 | 00101 | 537.53 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 055 | 00101 | 607.13 | 2869/030420 |
| | | | | ENERGY | PV | 169021 | 056 | 00101 | 814.11 | 2869/030420 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 057 | 00101 | 1,002.71 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 058 | 00101 | 3,203.50 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 059 | 00101 | 10.72 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 060 | 00101 | 10.26 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 061 | 00101 | 9.31 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 062 | 00101 | 10.27 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 063 | 00101 | 9.63 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 064 | 00101 | 10.59 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 065 | 00101 | 9.31 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 066 | 00101 | 10.38 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 067 | 00101 | 11.10 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 068 | 00101 | 15.91 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 069 | 00101 | 15.37 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 070 | 00101 | 14.16 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 071 | 00101 | 15.63 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 072 | 00101 | 13.49 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 073 | 00101 | 14.82 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 074 | 00101 | 13.05 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 075 | 00101 | 14.31 | 2869/030420 |
| | | | | CHGS-FEB'20 ENERGY | PV | 169021 | 076 | 00101 | 15.36 | 2869/030420 |
| | | | | CHGS-FEB'20 | | | | | | |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 077 | 00101 | 13.64 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 078 | 00101 | 74.79 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 079 | 00101 | 14.80 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 080 | 00101 | 698.29 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 081 | 00101 | 6.19 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 082 | 00101 | 6.18 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 083 | 00101 | 482.18 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 084 | 00101 | 22.00 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 085 | 00101 | 21.26 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 086 | 00101 | 19.82 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 087 | 00101 | 21.59 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 088 | 00101 | 18.00 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 089 | 00101 | 19.93 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 090 | 00101 | 17.51 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 091 | 00101 | 19.04 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 092 | 00101 | 20.45 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 093 | 00101 | 371.28 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 094 | 00101 | 1,899.70 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 095 | 00101 | 1,899.70 | 2869/030420 |
| | | | | ENERGY CHGS-FEB'20 | PV | 169021 | 096 | 00101 | 1,327.79 | 2869/030420 |
| | | | | ENERGY | PV | 169021 | 097 | 00101 | 663.89 | 2869/030420 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CHGS-FEB'20 | | | | | | |
| | | | | Payment Amount | | | | | 146,388.61 | |
| 84579 | 03/17/20 | 2957 | SOUTHERN CALIFORNIA EDISON | RW P/S 1/30~3/2/20 NEM | PV | 169087 | 001 | 00751 | 29,278.80 | 4500-42/03072 0 |
| | | | | Payment Amount | | | | | 29,278.80 | |
| 84580 | 03/17/20 | 2958 | SOUTHERN CALIFORNIA GAS CO | JBR P/S 1/31~3/3/20 | PV | 169062 | 001 | 00101 | 15.78 | 1200/030520 |
| | | | | TAPIA 12/4/19~3/4/2 0 | PV | 169063 | 001 | 00751 | 1,648.36 | 4000/030620 |
| | | | | WLK P/S 2/1~3/1/20 | PV | 169064 | 001 | 00101 | 15.44 | 9400/030120 |
| | | | | Payment Amount | | | | | 1,679.58 | |
| 84581 | 03/17/20 | 16271 | SPOK, INC. | PAGER SRV 3/11~4/10 | PV | 169132 | 001 | 00701 | 71.06 | D0143084O |
| | | | | PAGER SRV 3/11~4/10 | PV | 169132 | 002 | 00701 | .49 | D0143084O |
| | | | | PAGER SRV 3/11~4/10 | PV | 169132 | 003 | 00701 | 42.20 | D0143084O |
| | | | | Payment Amount | | | | | 113.75 | |
| 84582 | 03/17/20 | 20648 | STANTEC CONSULTING SERVICES INC. | P/E 1/31 TWRF COMP STDY | PV | 169110 | 001 | 00701 | 14,077.85 | 1625976 |
| | | | | Payment Amount | | | | | 14,077.85 | |
| 84583 | 03/17/20 | 21513 | RYAN STEERS | CLAIM PMT-LNDSCP/FA IRVW | PV | 169086 | 001 | 00101 | 595.00 | 121819/FAIRVI EW |
| | | | | Payment Amount | | | | | 595.00 | |
| 84584 | 03/17/20 | 14479 | STEPHEN'S VIDEO PRODUCTIONS | VIDEO SRV LV MTGS-FEB'20 | PV | 169024 | 001 | 00701 | 1,000.00 | 02-26-20 |
| | | | | VIDEO SRV JPA MTG-FEB'20 | PV | 169025 | 001 | 00701 | 500.00 | 2-27-20 |
| | | | | Payment Amount | | | | | 1,500.00 | |
| 84585 | 03/17/20 | 12149 | THATCHER CO. OF CALIFORNIA | 3,980 GAL BISULFITE | PV | 169016 | 001 | 00701 | 5,851.30 | 273015 |
| | | | | Payment Amount | | | | | 5,851.30 | |
| 84586 | 03/17/20 | 3006 | UNDERGROUND SERVICE ALERT | DIG SAFE PERMIT FEE | PV | 169074 | 001 | 00101 | 372.91 | DSB20190947 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| Payment Number | Payment Date | Address Number | Name | Payment Stub Message | Document Ty | Document Number | Key Itm | Key Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 204 TICKETS-FEB'2 0 | PV | 169075 | 001 | 00101 | 346.60 | 220200419 |
| | | | | Payment Amount | | | | | 719.51 | |
| 84587 | 03/17/20 | 17318 | UNITED EXCAVATION GROUP, INC. | RFND BAL-CLOSED A/C | PV | 169082 | 001 | 00101 | 795.28 | 083104 |
| | | | | Payment Amount | | | | | 795.28 | |
| 84588 | 03/17/20 | 3035 | VWR SCIENTIFIC | GLOVES/EDTA | PV | 169098 | 001 | 00701 | 291.10 | 8089144207 |
| | | | | SODIUM PHOSPHATE | PV | 169099 | 001 | 00701 | 91.40 | 8089142623 |
| | | Alt Payee 3216 | VWR INTERNATIONAL, INC P. O. BOX 640169 PITTSBURGH PA 15264-0169 | | | | | | | |
| | | | | Payment Amount | | | | | 382.50 | |
| 84589 | 03/17/20 | 3067 | XEROX CORPORATION | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 001 | 00701 | 452.19 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 002 | 00701 | 34.05 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 003 | 00701 | 46.19 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 004 | 00701 | 45.25 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 005 | 00701 | 572.17 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 006 | 00701 | 43.07 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 007 | 00701 | 58.45 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 008 | 00701 | .14 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 009 | 00701 | 166.96 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 010 | 00701 | 27.04 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 011 | 00701 | 18.41 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 012 | 00701 | 3.11 | 702375525 |

Batch Number - 278724

Bank Account - 00146807 Cash-General

| . . . Payment . . . Number | Date | Address Number | Name | Payment Stub Message | . . . Document . . . Ty | Number | Key Itm | Co | Amount | Invoice Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 013 | 00701 | 604.89 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 014 | 00701 | 45.54 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 015 | 00701 | 61.79 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 016 | 00701 | 99.97 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 017 | 00701 | 128.35 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 018 | 00701 | 9.66 | 702375525 |
| | | | | 1/20 LEASE-HQ & TAPIA | PV | 169011 | 019 | 00701 | 13.12 | 702375525 |
| | | | | LEASE-2/20 5945-OPS | PV | 169114 | 001 | 00701 | 186.32 | 099678351 |
| | | | | Payment Amount | | | | | 2,616.67 | |
| | | | | Total Amount of Payments Written | | | | | 410,456.23 | |
| | | | | Total Number of Payments Written | | | 60 | | | |

# LAS VIRGENES MUNICIPAL WATER DISTRICT
**4232 Las Virgenes Road, Calabasas CA 91302**

## MINUTES
## SPECIAL MEETING

5:00 PM March 3, 2020

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Ivo Nkwenji.

## 1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Board President Lewitt in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road, Calabasas, CA 91302. Josie Guzman, Clerk of the Board, conducted the roll call.

| | |
|---|---|
| Present: | Directors Charles Caspary, Jay Lewitt, Lynda Lo-Hill, Len Polan, and Lee Renger |
| Absent: | None |
| Staff Present: | David Pedersen, General Manager<br>Joe McDermott, Director of Engineering and External Affairs<br>Ivo Nkwenji, Information Systems Manager<br>John Zhao, Director of Facilities and Operations<br>Josie Guzman, Clerk of the Board<br>Keith Lemieux, District Counsel |

## 2. APPROVAL OF AGENDA

Director Lo-Hill moved to approve the agenda. Motion seconded by Director Renger. Motion carried unanimously.

## 3. PUBLIC COMMENTS

None.

## 4. CONSENT CALENDAR

Director Polan requested that Item 4F be pulled for discussion.

**A List of Demands: March 3, 2020: Receive and file**

**B Minutes Regular Meeting of February 18, 2020: Approve**

**C Monthly Cash and Investment Report: January 2020**

**Receive and fie the Monthly Cash and Investment Report for January 2020.**

**D Annual Supply and Delivery of Ferric Chloride: Renewal**

**Authorize the General Manager to issue a one-year purchase order to Miles Chemical Company, in the amount of $101,825.30, with two one-year renewal options for the supply and delivery of ferric chloride.**

**E Attendance at MWD Board and Committee Meetings: Code Change**

**Pass, approve, and adopt proposed Resolution No. 2570, authorizing payment for attendance at up to three Board and/or Committee meetings monthly of the Metropolitan Water District of Southern California (MWD) by any Board Member not serving as the MWD Representative.**

**RESOLUTION NO. 2570**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT AMENDING RESOLUTION NO. 2468 (ADMINISTRATIVE CODE) AS IT RELATES TO DIRECTORS' COMPENSATION**

**(Reference is hereby made to Resolution No. 2570 on file in the District's Resolution Book and by this reference the same is incorporated herein.)**

**G Jim Bridger Road and Long Valley Road Pipeline Replacements: Approval of Scope Change**

**Authorize the General Manager to execute Scope Change No. 2 to CannonCorp Engineering Consultants, in the amount of $5,798, for the Jim Bridger Pipeline Replacement Project (Phase 2), and appropriate an additional $11,596 to replace the existing, deteriorated pipeline along Long Valley Road, from Lasher Road to Hilltop Road.**

Director Caspary moved to approve Consent Calendar Items 4A, 4B, 4C, 4D, 4E, and 4G. Motion seconded by Director Polan. Motion carried unanimously.

## 4. CONSENT CALENDAR – Separate Action Item

### F Communications Site Lease Agreement at Cordillera Tank: Amendment

**Authorize the General Manager to execute an amendment to Communication Site Lease Agreement with AT&T, Inc., for its wireless facility at Cordillera Tank.**

John Zhao, Director of Facilities and Operations, responded to a question regarding the containment vessel for AT&T's backup emergency generator's diesel fuel storage.

Director Polan moved to approve Item 4F. Motion seconded by Director Caspary. Motion carried unanimously.

## 5. ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

### A Las Virgenes Unified School District Annual Grant Report

Riki Clark, Public Affairs Associate II, provided introductory remarks.

Patti Wilson, fourth grade teacher, provided an oral report of the water curriculum.

Ann Trautmann, fifth grade teacher, provided a PowerPoint presentation.

The Board commended Ms. Clark, Ms. Wilson, and Ms. Trautmann on their efforts to educate the fourth and fifth graders on water-related issues.

### B Update on Willow Incident Adjacent to District Headquarters

Mike McNutt, Public Affairs and Communications Manager, provided an overview of the Willow Incident response, recovery, remediation, and security efforts. He noted that the District would continue to collaborate with the City of Calabasas, Mountains Recreation and Conservation Authority, Las Virgenes Unified School District, Paxton Calabasas, and the Los Angeles County Sheriff's Department. He also noted that the Bark Park reopened on March 2nd, but the trail would remain closed until further notice.

### C Legislative and Regulatory Updates

Joe McDermott, Director of Engineering and External Affairs, presented the report. He noted that the District would be co-sponsoring a bill with the California Municipal Utilities Association: SB 1099 (Dodd), Emergency Backup Generators Critical Facilities Exemption. He also noted that the Association of California Water Agencies (ACWA) was sponsoring a sister bill, AB 2182 (Rubio), Emergency Backup Generators Water and Wastewater Facilities Exemptions, which would eliminate the enforcement capability from local air quality control boards. He stated that amendments were pending on SB 1099 for language that was included in error. He also stated that staff would work with the District's lobbyist, Best Best & Krieger, in identifying bills to support and oppose. He also stated that staff would continue to work with the District's lobbyist for more science-based

legislation on perfluoroalkyl and polyfluoroalkyl substances (PFAS) and funding for water infrastructure projects.

Director Caspary noted that he attended the ACWA State Legislative Committee meeting on February 21st. He noted that ACWA submitted comments on the Governor's Water Resiliency Portfolio and on bills related to Public Safety Power Shutoffs. He also noted that the State Water Resources Control Board reduced the response levels for perfluorooctanoic acid (PFOA) to 10 parts per trillion, and for perfluorooctanesulfonic acid (PFOS) to 40 parts per trillion. He mentioned that the Orange County Water District had to shut down one-third of their wells, and they were urging that the Governor's Climate Resiliency Bond include a funding category to deal with contaminants of emerging concern.

**D Water Supply Conditions Update**

Joe McDermott, Director of Engineering and External Affairs, presented the report.

## 6. TREASURER

Director Lo-Hill stated that the Treasurer's report was in order.

## 7. FACILITIES AND OPERATIONS

None.

## 8. FINANCE AND ADMINISTRATION

**A Proposed Districtwide Organizational Changes**

**Reclassify a Customer Service Programs Supervisor (M87) position to a Management Analyst I/II (M63/M77) position, reclassify a Field Customer Service Representative I/II (Range 32) positon to a Backflow Inspector (Range 59) position, reclassify an Electrician/Instrumentation Technician I/II (Range 51/66) position to an Electrician (Range 56) position, and retitle a Computer Support Specialist (Range 52) positon to a Technology Support Specialist (Range 52) position; and authorize the inclusion of the following organizational changes in the proposed Fiscal Year 2020-22 Two-Year Budget Plan: addition of a 12-month limited-term Customer Service Representative (Range 33) position, reclassification of a Chief Water Treatment Plant Operator (Range 77) position to a Water Treatment Supervisor (Range 87) position, reclassification of a Water Treatment Plant Operator II (Range 64) position to a Senior Water Treatment Operator (Range 70) position, addition of two student Intern positions, reclassification of a Systems Analyst (M88) position to a Principal Technology Analyst (M98) position, addition of a Network and Security Technician (Range 52) position, and retitling of a SCADA Analyst (M85) position to a Network and SCADA Analyst (M85) position.**

General Manager David Pedersen presented the revised report.

Joe McDermott, Director of Engineering and External Affairs, reviewed the proposed organizational changes to the Engineering and External Affairs Department.

A discussion ensued regarding backflow prevention inspection activities and Backflow Inspector certification.

John Zhao, Director of Facilities and Operations, reviewed the proposed organizational changes to the Facilities and Operations Department. He responded to a question regarding the two-year time period to achieve certification as a Treatment Plant Operator III.

Ivo Nkwenji, Information Systems Manager, reviewed the proposed organizational changes to the Information Systems Division.

A discussion ensued regarding notice provided to the District by employees who are planning to retire and the possibility of incentivizing employees to provide more advanced notice. General Manager David Pedersen suggested that this could be discussed at a future meeting.

Director Lo-Hill moved to approve Item 8A. Motion seconded by Director Renger. Motion carried unanimously.

**B Claim by Charter Spectrum**

**Approve the claim by Charter Spectrum, in the amount of $27,543.28, for damages to its facility in the 5000 block of Fairview Place in the City of Agoura Hills.**

John Zhao, Director of Facilities and Operations, presented the report.

Director Polan moved to approve Item 8B. Motion seconded by Director Renger.

Mr. Zhao responded to a question regarding the cause of the main break by stating that the cause was corrosion where the service line connected to the water main and improper coating.

Motion carried unanimously.

## 9. ENGINEERING AND EXTERNAL AFFAIRS

**A Westlake Filter Plant and Torchwood Tank Landscaping Project**

**Award a construction contract to FS Contractors, Inc., in the amount of $187,860, and reject all remaining bids upon receipt of duly executed contract documents for the Westlake Filter Plant and Torchwood Tank Landscaping Project; and appropriate an additional $15,072 to CIP No. 10642, Westlake Filter Plant Landscape Plan Project (Pre-Woolsey Fire).**

Eric Schlageter, Principal Engineer, presented the report.

Director Caspary moved to approve Item 9A. Motion seconded by Director Lo-Hill.

Mr. Schlageter responded to questions regarding the scope of the project.

Motion carried unanimously.

## 10. NON-ACTION ITEMS

### A Organization Reports

None.

### B Director's Reports on Outside Meetings

Director Lo-Hill reported that she attended the California Association of Sanitation Agencies (CASA) and Association of Water Agencies of California (ACWA) Washington D.C. Conferences.

Director Caspary reported that he attended the ACWA State Legislative Committee Meeting. He also reported that he would be attending the Santa Monica Bay Restoration Commission Watershed Advisory Committee Meeting on March 5th to discuss issues raised by the Environmental Protection Agency regarding the work plan and concerns with nutrient contributions from various sources to the Santa Monica Bay.

Board President Lewitt reported that he also attended the CASA and ACWA Washington D.C. Conferences. He noted that a keynote address was presented by Jennifer Mallard, Senior Advisor from the Federal Permitting Improvement Steering Council. He also noted that there was discussion regarding perfluoroalkyl and polyfluoroalkyl substances (PFAS) guidelines and research programs, flushable wipes, and the State Revolving Fund Program.

### C General Manager Reports

(1) General Business

General Manager David Pedersen reminded the Board of the MWD Infrastructure Inspection Trip scheduled on March 4th for a tour of the Eagle Rock Control Center and the Joseph Jensen Treatment Plant. He noted that Mike McNutt, Public Affairs and Communications Manager, would provide presentations regarding Power Safety Power Shutoffs and SB 1099 at the ACWA Legislative Symposium on March 12th. He also noted that the next Board meeting would be held on March 24th, and the Budget/Strategic Planning Workshop would be held on March 30th. He announced that Ursula Bosson was promoted to Customer Service Manager, and Darrell Johnson had assumed his new position of Water Systems Manager.

(2) Follow-Up Items

General Manager David Pedersen noted that the list of follow-up items was provided to the Board.

**D Directors' Comments**

Director Renger noted that PG&E filed Chapter 11 bankruptcy, and Southern California Edison was being more proactive in trimming trees adjacent to power lines. He expressed concern with the increased cost of electricity and the need to pass along increased costs to the District's customers.

Board President Lewitt noted that a handout was provided to the Board with a list of proposed items for the Budget/Strategic Planning Workshop. He asked the Board to review the list and contact the General Manager if they wished to add items.

## 11. FUTURE AGENDA ITEMS

None.

## 12. PUBLIC COMMENTS

None.

## 13. CLOSED SESSION

None.

## 14. OPEN SESSION AND ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **7:09 p.m.**

Jay Lewitt, President
Board of Directors
Las Virgenes Municipal Water District

ATTEST:

Charles Caspary, Secretary
Board of Directors
Las Virgenes Municipal Water District

(SEAL)

# LAS VIRGENES MUNICIPAL WATER DISTRICT

**4232 Las Virgenes Road, Calabasas CA 91302**

## MINUTES
## SPECIAL MEETING

8:00 AM March 4, 2020

## 1. CALL TO ORDER AND ROLL CALL

The Board and District staff assembled at **8:09 a.m.** at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road in Calabasas, CA 91302.

| | |
|---|---|
| Present: | Directors Jay Lewitt, Lynda Lo-Hill, and Lee Renger |
| Absent: | Directors Charles Caspary and Len Polan |
| Staff present: | David Pedersen, General Manager |
| | Joe McDermott, Director of Engineering and External Affairs |
| | John Zhao, Director of Facilities and Operations |
| | Josie Guzman, Clerk of the Board |

## 2. PUBLIC COMMENTS

None.

## 3. TRAVEL BY BUS FOR THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INFRASTRUCTURE TRIP OF THE EAGLE ROCK CONTROL CENTER AND JOSEPH JENSEN TREATMENT PLANT

Following introductory remarks by MWD Tour Manager Jason Rollo, the Board and District staff traveled by bus for the Metropolitan Water District of Southern California Infrastructure Inspection Trip to the following locations:

- Eagle Rock Control Center, 7800 N. Figueroa Street, Los Angeles, CA 90041
- Joseph Jensen Treatment Plant, 13100 Balboa Boulevard, Granada Hills, CA 91344

- Return to Las Virgenes Municipal Water District headquarters, 4232 Las Virgenes Road, Calabasas, CA 91302

No actions were taken by the Board.

## 4. ADJOURNMENT

The special meeting was adjourned at **3:24 p.m.** at Las Virgenes Municipal Water District headquarters, 4232 Las Virgenes Road in Calabasas, CA 91302

Jay Lewitt, President
Board of Directors
Las Virgenes Municipal Water District

ATTEST:

Charles Caspary, Secretary
Board of Directors
Las Virgenes Municipal Water District

(SEAL)

March 2, 2020

To: Payroll

From: David W. Pedersen
General Manager

**RE: Per Diem Request – February 2020**

Attached are the Director statements of attendance for meetings, conferences and miscellaneous functions, which are summarized in the table below. If you have any questions, please contact me. Thank you.

On April 25, 2017, the Board adopted Resolution No. 2513, amending the per diem rate to $220.

| | Director | No. of Meetings | Rate | Total |
|---|---|---|---|---|
| 8014 | Charles Caspary | 5 | $220.00 | $1,100.00 |
| 19447 | Jay Lewitt | 10 | $220.00 | $2,200.00 |
| 21169 | Lynda Lo-Hill | 10 | $220.00 | $2,200.00 |
| 18856 | Leonard Polan | 5 | $220.00 | $1,100.00 |
| 14702 | Lee Renger | 3 | $220.00 | $660.00 |

*LVMWD Code Section 2-2.106(a): "not exceeding a total of ten (10) days in any calendar month"

**LVMWD Code Section 2-2.106(b): MWD director "not exceeding a total of ten (10) additional days in any calendar month."

# LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

To: Clerk of the Board

Director's Name: Charles Caspary

Month of: Feb-20

Division: 1

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

| Date(s) | # of Days Claimed | | | Reimbursible Expenses[2] (Y/N) | Check One | | Event Title |
|---|---|---|---|---|---|---|---|
| | Event | Travel [1] | Total | | MWD | LVMWD | |
| 2/3/2019 | 1 | | 1 | N | | X | LAS VIRGENES - TRIUNFO JPA BOARD MTG. |
| 2/4/2020 | 1 | | 1 | N | | X | Las Virgenes MWD- REGULAR BOARD MEETING |
| 2/18/2020 | 1 | | 1 | N | | X | LAS VIRGENES MWD - REGULAR BOARD MEETING |
| 2/20/2020 | 1 | | 1 | N | | X | SANTA MONICA BAY RESTORATION COMMISSION - Marina DEL Rey |
| 2/21/2020 | 1 | | 1 | Y | | X | ACWA - STATE LEGISLATIVE COMMITTEE - SACTO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | TOTAL | 5 | | | | |

**NOTES**: **1**. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. **2.** Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

Date Submitted: February 28, 2020

Director Signature: Charles Caspary

# LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

To: Josie Guzman

Director's Name: Jay Lewitt

Month of: February

Division: 5

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

| Date(s) | # of Days Claimed | | | Reimbursible Expenses[2] (Y/N) | Check One | | Event Title |
|---|---|---|---|---|---|---|---|
| | Event | Travel [1] | Total | | MWD | LVMWD | |
| 2.3.20 | 1 | | 1 | | | x | JPA Board Meeting |
| 2.4.20 | 1 | | 1 | | | x | LVMWD Board Meeting |
| | | | | | | | |
| 2.8.20 | 1 | | 1 | | | x | quarterly waste water tour |
| 2.18.20 | 1 | | 1 | | | x | LVMWD Board Meeting |
| 2.20.20 | 1 | 1 | 1 | | | x | AWA Thousand Oaks |
| 2.23.20 | 1 | 1 | 1 | | | x | Travel To CASA DC |
| 2.24.20 | 1 | | 1 | | | x | CASA DC |
| 2.25.20 | 1 | | 1 | | | x | ACWA DC |
| 2.26.20 | 1 | | 1 | | | x | ACWA DC |
| 2.27.20 | 1 | | 1 | | | X | ACWA DC |
| | | | | | | | |
| | | | | | | | |
| | | TOTAL | 10 | | | | |

Date Submitted: 2.28.20

JL

Director Signature:

**NOTES**: **1**. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. **2.** Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

# LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

To: Josie Guzman, Clerk of the Board

Director's Name: Lynda Lo-Hill

Month of: February, 2020

Division: 2

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

| Date(s) | # of Days Claimed | | | Reimbursible Expenses[2] (Y/N) | Check One | | Event Title |
|---|---|---|---|---|---|---|---|
| | Event | Travel [1] | Total | | MWD | LVMWD | |
| 2/3/2020 | 1 | | 1 | | | X | JPA Meeting |
| 2/4/2020 | 1 | | 1 | | | X | LVMWD Board Meeting |
| 2/5/2020 | 1 | | 1 | | | X | Treasurer Follow-up Meeting with Auditors Pun Group |
| 2/10/2020 | 1 | | 1 | | | X | MWD Comittee Meetings (Finance/Insurance, Engineering/Operations,Water Planning Stewardship,Personnel/Technology, Communication/Legistlation) |
| 2/18/2020 | 1 | | 1 | | | X | LVMWD Board Meeting |
| 2/20/2020 | 1 | | 0 | | | X | AWAVC Meeting, Thousand Oaks |
| 2/23/2020 | 1 | | 1 | Y | | X | Travel to Washington DC for CASA & ACWA Conference |
| 2/24-2/27 | 4 | | 4 | Y | | X | Washington DC CASA and ACWA Conferences |
| | | | | | | | |
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| | | | | | | | |
| | | TOTAL | 10 | | | | |

Date Submitted: February 29, 2020

Director Signature: *Lynda Lo-Hill submitted by email*

**NOTES**: **1.** Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. **2.** Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

# LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

To: Josie Guzman, Clerk of the Board

Director's Name: Leonard Polan

Month of: Jan-20

Division: #4

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

| Date(s) | # of Days Claimed | | | Reimbursible Expenses[2] (Y/N) | Check One | | Event Title |
|---|---|---|---|---|---|---|---|
| | Event | Travel [1] | Total | | MWD | LVMWD | |
| 2/3/20 | 1 | ---- | 1 | ---- | ---- | Y | JPA Mtg |
| 2/4/20 | 1 | ---- | 1 | ---- | ---- | Y | LVMWD Board Mtg |
| 2/5/20 | 1 | ---- | 1 | Y | ---- | Y | Region 8 Board Mtg |
| 2/18/20 | 1 | ---- | 1 | ---- | ---- | Y | LVMWD Board Mtg |
| 2/20/20 | 1 | ---- | 1 | ---- | ---- | Y | VCAWA Thousan Oaks |
| | | | | | | | |
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| | | TOTAL | 5 | | | | |

Date Submitted: 3/1/20

Director Signature: Leonard E. Polan

**NOTES**: **1**. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. **2.** Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

# LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

To: Josie Guzman, Clerk of the Board

Director's Name: LEE RENGER

Month of: February,2020

Division: 3

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

| Date(s) | # of Days Claimed | | | Reimbursible Expenses[2] (Y/N) | Check One | | Event Title |
|---|---|---|---|---|---|---|---|
| | Event | Travel [1] | Total | | MWD | LVMWD | |
| 2/3/2020 | 1 | | 1 | N | | X | JPA BOARD MEETING |
| 2/4/2020 | 1 | | 1 | N | | X | LVMWD BOARD MEETING |
| 2/18/2020 | 1 | | 1 | N | | X | LVMWD BOARD MEETING |
| | | | | | | | |
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| | | | | | | | |
| | | TOTAL | 3 | | | | |

Date Submitted: 28-Feb-20

Director Signature: Lee Renger

NOTES: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

RECEIVED
MAR 0 2 2020
BY:

172380J

# INVOICE


**Glen Peterson, Director**

***Metropolitan Water District of Southern California***

2936 Triunfo Canyon Rd
Agoura, CA. 91301
email: glenpsop@icloud.com


**DATE:** 03/01/20
**INVOICE #** 15
**FOR:** *Director fees*

**Bill To:**

**Las Virgenes Municipal Water District**

4232 Las Virgenes Canyon Rd
Calabasas, CA. 91302
attn: Josie Guzman, Clerk of the Board
818-251-2100

| Date | Description | fee |
|---|---|---|
| | | |
| 2/4/2020 | Report to LVMWD Board | $220.00 |
| 2/6/2020 | Northern Caucus | $220.00 |
| 2/10/2020 | MWD Committees | $220.00 |
| 2/11/2020 | MWD Board | $220.00 |
| 2/12/2020 | CRBCA Ontario | $220.00 |
| 2/18/2020 | MWD Report to LVMWD Board | $220.00 |
| 2/20/2020 | AWAVC Thousand Oaks | $220.00 |
| 2/24-27/20 | ACWA Washington DC | $660.00 |
| | | |
| | | |
| | **TOTAL** | $2,200.00 |

Make Check payable to Glen Peterson

**Thank you for the opportunity to serve**

Approved for Payment
David W. Pedersen, P.E. 03/02/20

March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

**Subject : Monthly Cash and Investment Report: February 2020**

**SUMMARY:**

During the month of February, the value of the District's investment portfolio decreased from $91,104,577, held on January 31, 2020, to $90,865,377. There were two investments that matured or were called in February; four investments were purchased, increasing the book value to $54,834,054. The value of the District's Local Agency Investment Fund (LAIF) account decreased to $34,982,173.

**RECOMMENDATION(S):**

Receive and file the Monthly Cash and Investment Report for February 2020.

**FISCAL IMPACT:**

No

**ITEM BUDGETED:**

No

**DISCUSSION:**

As of February 29, 2020, the District held $90,865,377, up 3.62% year-over-year. The portfolio was down 0.26% from the previous month's total of $91,104,577. The majority of the funds were held in the District's investment account, which had a February 29th book value of $54,834,054. LAIF held the majority of the remaining funds, in the amount of $34,982,173. A significant portion of the remaining balance was held in a money market account. The annualized yield for the District's investment portfolio was 2.03% in February 2020, down four basis points from January. The annualized yield on the District's LAIF funds was 1.91% in February, down as compared to January's 1.97%. The total yield on the District's accounts was 1.98%, down from 2.21% year-over-year.

Two investments were called or matured during February 2020:

- FNMA agency callable, in the amount of $1,000,000, matured on 02/24/20; YTM 1.30%.
- FHLB agency callable, in the amount of $1,000,000, maturing on 02/28/23 was called on 02/28/20; YTM 2.65%.

The following investments were purchased during February 2020:

- FHLMC agency callable step up in the amount of $1,000,000 maturing on 02/25/25; YTM 1.99%.
- City of Pasadena taxable revenue bond in the amount of $260,000 maturing on 05/01/24 rated AAA; YTM 1.80%.
- FNMA agency callable in the amount of $1,000,000 maturing on 02/26/25; YTM 1.85%.
- California State University revenue bond in the amount of $400,000 maturing on 11/01/24; YTM 1.65%.

The following transactions occurred in the District's LAIF account:

- 02/18/20 – Withdraw in the amount of $350,000.
- 02/26/20 – Withdraw in the amount of $1,550,000.

The District's investments are in compliance with the adopted Investment Policy, and the District has sufficient funds to meet expenditures during the next six months from funds held in LAIF.

Cash Analysis:

Another important aspect of the Monthly Cash and Investment Report is to monitor the District's performance as compared to its adopted Financial Policies. Attachment B shows the District's total cash and investments as of February 29, 2020 and compares the balances to the adopted Financial Policies. As shown for February, funds held by policy in the Potable Water Enterprise were $830,297 below the levels set forth in the District's Financial Policies. The Sanitation Enterprise ha $6.6 million available for capital, and the Recycled Water Enterprise had cash and investments available for capital projects, in the amount of $13.7 million. The Board has assigned $10 million in funds from the Sanitation Enterprise and $5 million in funds from the Recycled Water Enterprise for use on the Pure Water Project Las Virgenes - Triunfo.

**GOALS:**

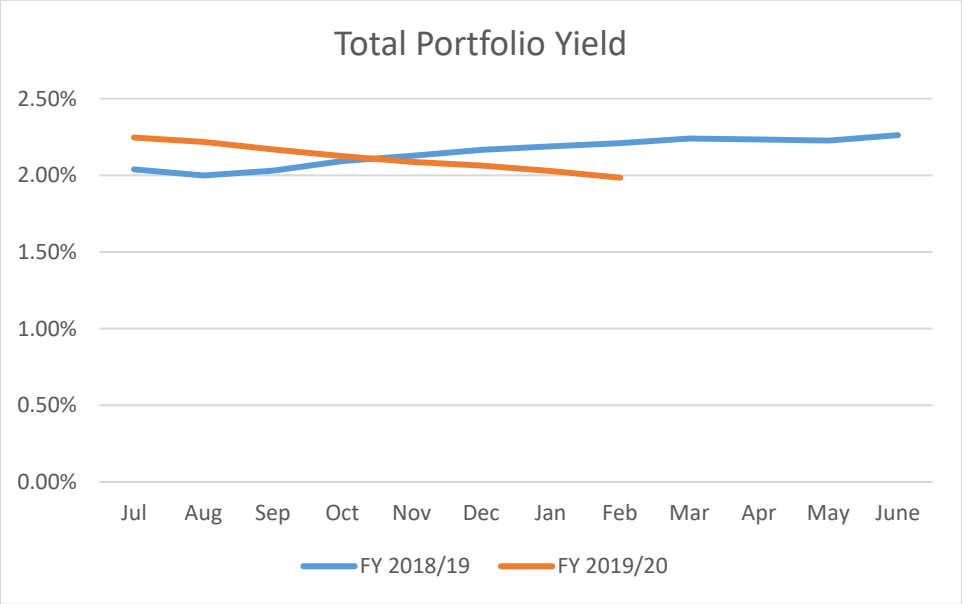
Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Donald Patterson, Director of Finance and Administration

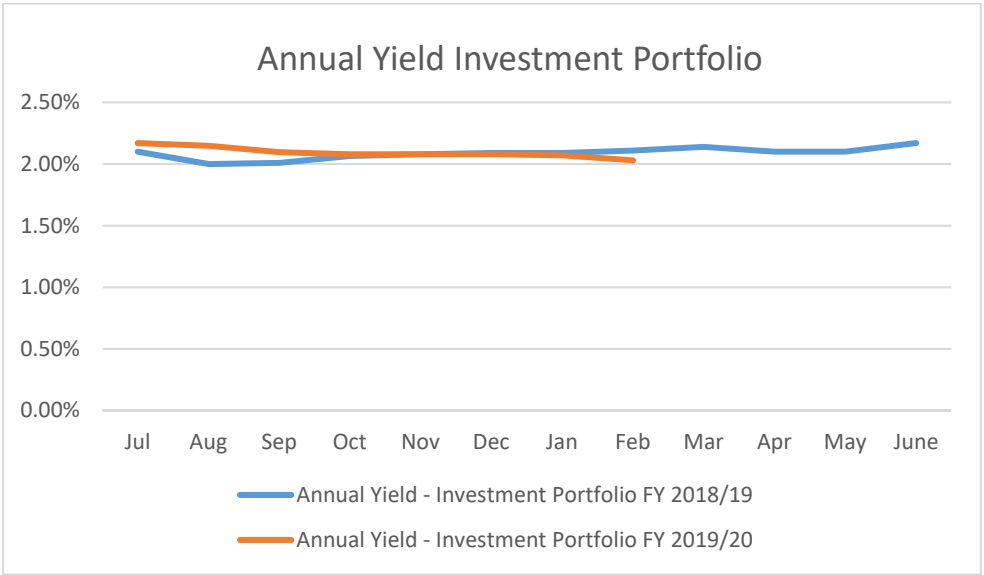
**ATTACHMENTS:**

Charts
Feb 2020 Investment Report
Definitions
Feb 2020 Cash Report

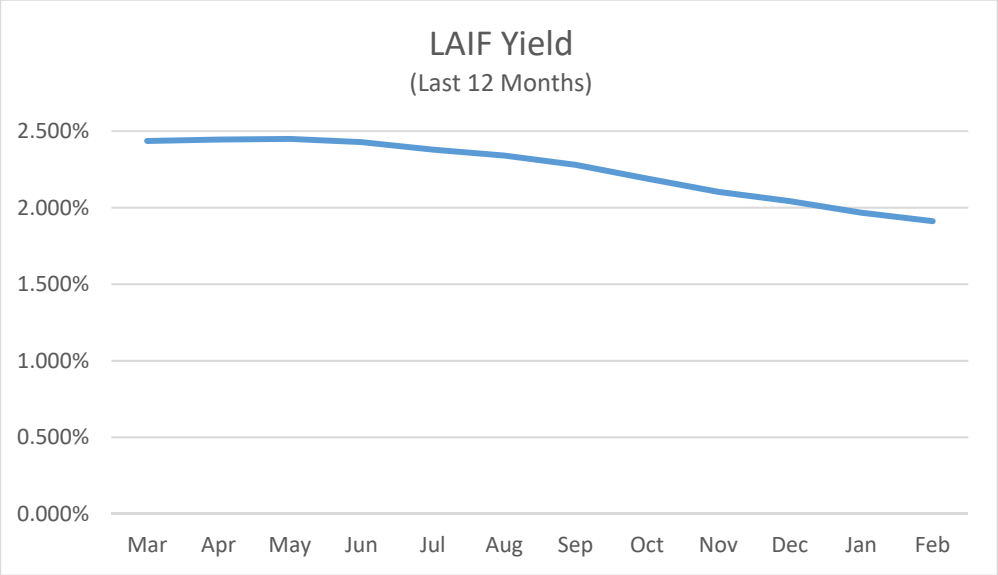
As of February 29, 2020, at Book Value, LAIF held 38.50% of the District's portfolio and the investment portfolio held 60.35% with the majority of the remaining funds held in a money market account. As can be seen in the chart below, the total yield in February 2020 was 1.98%, down five basis point from January and down from 2.21% one year ago.



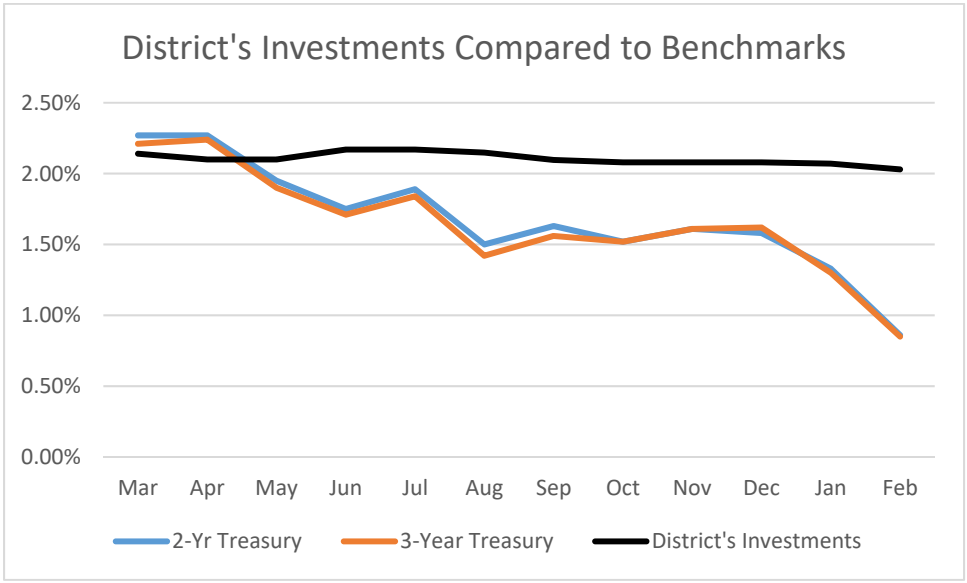

In February, the annualized yield for the District's Investment Portfolio was down four basis points from February at 2.03% and down eight basis points from a year ago. The chart below shows annualized monthly yield of the current fiscal year compared with the same monthly yield over the previous year.



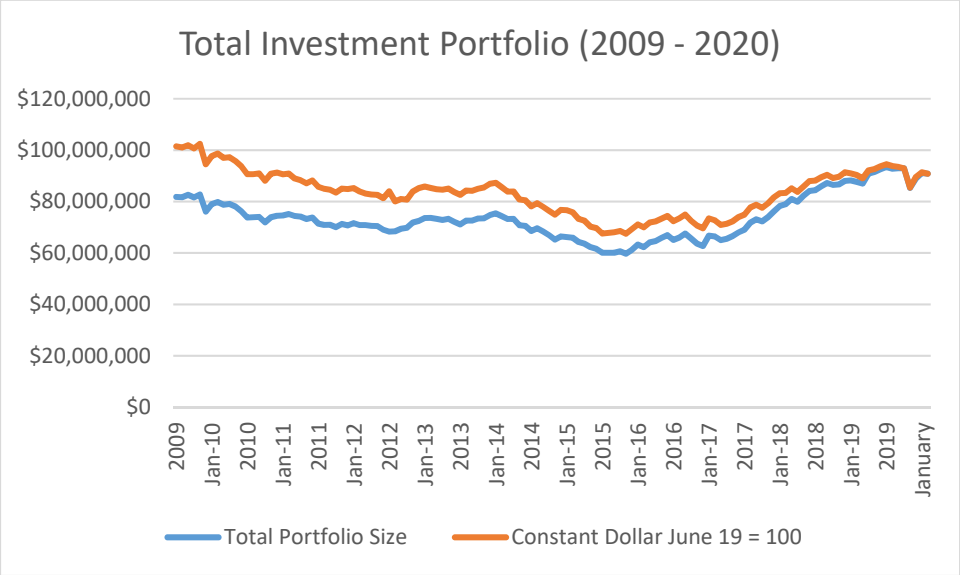
The following chart shows the average annualized LAIF yields over the past twelve months. In February, the LAIF yield was 1.91%, down from January's 1.97% and down from 2.39% a year ago.



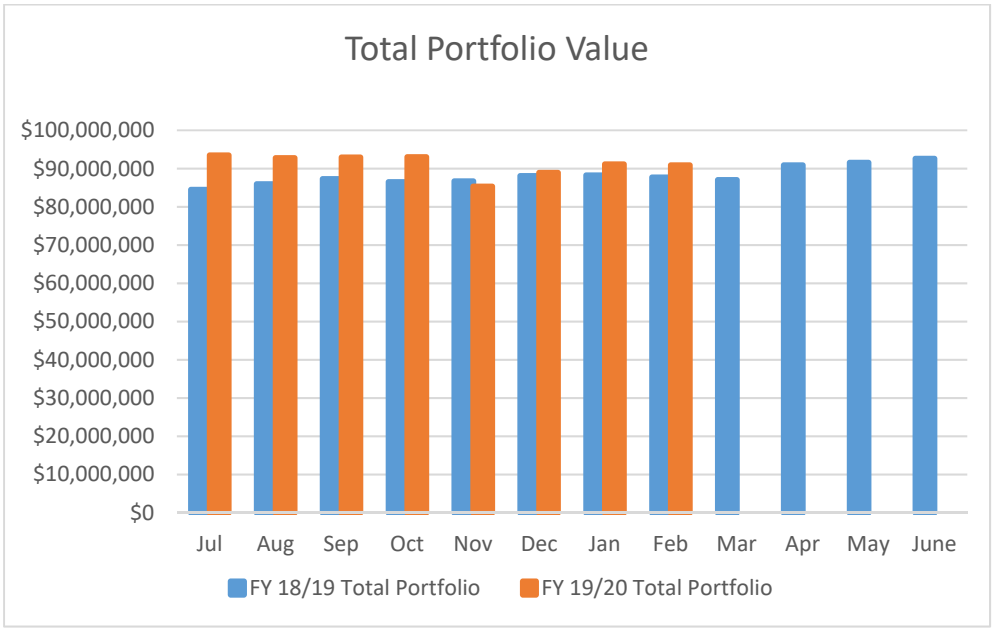

In order to benchmark how the District's portfolio is performing, it is useful to compare its investment portfolio with a comparable index. The District has historically compared its investment portfolio returns to the 2-Year and 3-Year Treasury notes. Because the District buys and holds its investments, the average portfolio yield should generally be flatter and trail the 2 and 3-year Treasuries.



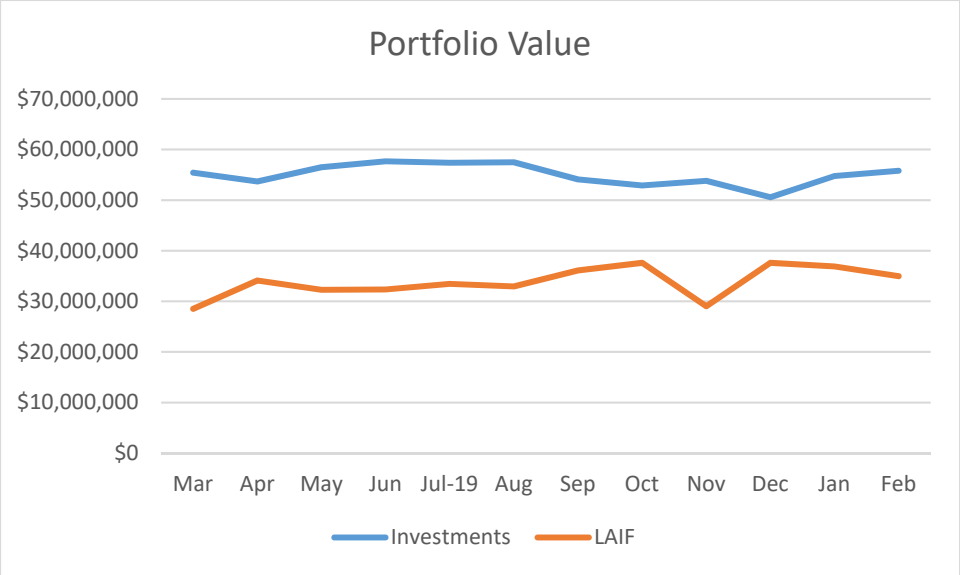
Equally important to monitoring performance is to monitor total portfolio value that includes the District's Investment Portfolio and LAIF accounts. The chart below shows the total portfolio value between 2009 and 2020. In February, the District's portfolio was down from January at $90,865,377.




The chart below compares total portfolio value in the current Fiscal Year, compared to the same period in the previous fiscal year.



The chart below shows the value of the District's Investment and LAIF portfolios over the past twelve-month period. The District's Investment Policy requires an amount equal to 6 months of operating budget to be kept in LAIF, which is $28.8 million. The District is currently keeping additional funds in LAIF as staff finalizes the schedule for the Las Virgenes – Triunfo Pure Water Project.



Date: March 13, 2019

To: David W. Pedersen, General Manager

From: Finance and Administration Department

Subject: Investment Report for the Month of February 2020

**Summary of Investments**

Investments Maturing Within Six Months:

| Disc./Cpn Rate | Yield To Maturity | Yield To Call | Investment Type | Date Invested | Next Call Date | Date Matures | Book Value | Par Value | Market Value | Market Value Source |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.800% | 1.800% | | MDS-Muni Bond | 03/22/17 | | 03/15/20 | 1,000,000 | 1,000,000 | 1,000,130 | Custodian |
| 1.400% | 1.400% | 1.400% | FFCB-Callable Coupon | 04/13/16 | Cont. 4/13/17 | 04/13/20 | 1,000,000 | 1,000,000 | 1,000,000 | Custodian |
| 1.600% | 1.600% | 1.600% | FNMA-Bullet | 05/19/15 | | 05/19/20 | 1,000,000 | 1,000,000 | 1,001,150 | Custodian |
| 1.580% | 1.501% | 0.700% | FNMA-Callable Coupon | 08/15/16 | 06/15/20 | 06/15/20 | 1,002,920 | 1,000,000 | 1,000,110 | Custodian |
| 2.427% | 1.779% | | NEWSCD-MuniBond | 03/17/16 | | 08/01/20 | 934,688 | 910,000 | 914,341 | Custodian |
| 1.400% | 1.400% | 1.400% | FNMA-Callable Coupon | 08/24/16 | 05/24/20 | 08/24/20 | 1,000,000 | 1,000,000 | 1,000,600 | Custodian |
| | | | Sub-Total | | | | 5,937,608 | 5,910,000 | 5,916,331 | |

Investments Maturing After Six Months:

| Disc./Cpn Rate | Yield To Maturity | Yield To Call | Investment Type | Date Invested | Next Call Date | Date Matures | Book Value | Par Value | Market Value | Market Value Source |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.250% | 1.732% | | CONNECTICUT ST-MuniBo | 02/17/16 | | 09/01/20 | 1,119,649 | 1,095,000 | 1,100,015 | Custodian |
| 1.500% | 1.500% | | CAL ST-MuniBond | 04/28/16 | | 04/01/21 | 1,000,000 | 1,000,000 | 1,003,020 | Custodian |
| 2.387% | 1.392% | | SCVWTR-MuniBond | 06/21/16 | | 06/01/21 | 1,047,370 | 1,000,000 | 1,015,340 | Custodian |
| 1.960% | 1.960% | 1.960% | MOUSCD-MuniBond | 07/14/16 | | 08/01/21 | 600,000 | 600,000 | 604,932 | Custodian |
| 1.550% | 1.550% | | CAPITAL ONE BANK - CD | 08/10/16 | | 08/10/21 | 245,000 | 245,000 | 245,000 | Custodian |
| 1.450% | 1.450% | | JP Morgan Chase BK-CD | 09/16/16 | 06/16/20 | 09/16/20 | 245,000 | 245,000 | 244,708 | Custodian |
| 1.713% | 1.713% | | CASPWR-Muni Bond | 09/28/16 | | 05/01/21 | 944,684 | 944,684 | 949,596 | Custodian |
| 1.480% | 1.480% | 1.483% | FNMA-Callable Coupon | 09/29/16 | 06/29/20 | 12/29/20 | 1,000,000 | 1,000,000 | 1,000,260 | Custodian |
| 1.5%-Up [1] | 2.115% | 1.250% | FHLB-Callable Coupon | 11/17/16 | 05/17/20 | 11/17/21 | 1,000,000 | 1,000,000 | 1,000,690 | Custodian |
| 1.5%-Up [2] | 2.116% | 1.300% | FHLMC-Callable Coupon | 11/22/16 | 05/22/20 | 11/22/21 | 1,000,000 | 1,000,000 | 1,001,160 | Custodian |
| 2.000% | 2.046% | 2.018% | FHLMC-Bullet | 01/30/17 | | 01/26/22 | 997,850 | 1,000,000 | 1,016,600 | Custodian |
| 2.350% | 2.350% | | Goldman Sachs Bank - CD | 06/21/17 | | 06/21/22 | 245,000 | 245,000 | 249,848 | Custodian |
| 2.350% | 2.350% | | Sallie Mae Bank/Salt LK-CD | 06/21/17 | | 06/21/22 | 245,000 | 245,000 | 249,848 | Custodian |
| 2.000% | 2.000% | 2.000% | FHLB-Callable Coupon | 08/10/17 | 08/10/20 | 08/10/22 | 1,000,000 | 1,000,000 | 1,003,990 | Custodian |
| 2.250% [3] | 2.104% | 1.465% | FHLMC-Bullet | 08/16/17 | | 06/29/22 | 1,000,300 | 1,000,000 | 1,029,560 | Custodian |
| 2.400% | 2.400% | | American Express - CD | 08/29/17 | | 08/29/22 | 245,000 | 245,000 | 249,530 | Custodian |
| 2.400% | 2.400% | | Capital One NA - CD | 08/30/17 | | 08/30/22 | 245,000 | 245,000 | 250,429 | Custodian |
| 1.750% | 1.766% | | FFCB-Bullet | 09/13/17 | | 09/13/22 | 999,250 | 1,000,000 | 1,020,490 | Custodian |
| 2.500% | 2.604% | | SFOFAC-Muni Bond | 11/09/17 | | 09/01/22 | 497,650 | 500,000 | 514,485 | Custodian |
| 2.050% | 2.050% | | BMW Bank - CD | 11/29/17 | | 11/30/20 | 245,000 | 245,000 | 246,098 | Custodian |
| 2.500% | 2.500% | | Wells Fargo Bank - CD | 12/08/17 | | 12/08/22 | 245,000 | 245,000 | 251,527 | Custodian |
| 2.550% | 2.550% | | NYSDEV-Muni Bond | 12/21/17 | | 03/15/22 | 1,000,000 | 1,000,000 | 1,021,710 | Custodian |
| 2.200% | 2.200% | | Merrick Bank-CD | 01/09/18 | | 01/11/21 | 245,000 | 245,000 | 246,583 | Custodian |
| 2.650% | 2.650% | | Morgan Stanley Bank-CD | 01/11/18 | | 01/11/23 | 245,000 | 245,000 | 252,698 | Custodian |
| 2.130% | 2.338% | | FAMCA-Bullet | 01/24/18 | | 01/24/23 | 990,240 | 1,000,000 | 1,028,890 | Custodian |
| 2.700% | 2.700% | | FFCB-Bullet | 04/11/18 | | 04/11/23 | 1,000,000 | 1,000,000 | 1,053,650 | Custodian |
| 3.150% | 3.150% | | CitiBank NA - CD | 05/11/18 | | 05/11/23 | 245,000 | 245,000 | 257,221 | Custodian |
| 3.297% | 3.297% | 3.297% | UNVHGR-Muni Bond | 06/05/18 | Cont. 6/5/18 | 05/15/23 | 930,000 | 930,000 | 993,082 | Custodian |
| 2.900% | 2.980% | | FAMCA-Bullet | 08/01/18 | | 07/24/23 | 996,263 | 1,000,000 | 1,059,300 | Custodian |
| 2.000% | 3.063% | | CASPWR-Muni Bond | 09/24/18 | | 05/01/22 | 963,980 | 1,000,000 | 1,017,500 | Custodian |
| 2.250% | 3.092% | | CAS-Muni Bond | 10/31/18 | | 10/01/23 | 961,850 | 1,000,000 | 1,035,800 | Custodian |
| 3.350% | 3.350% | | Morgan Stanley PVT BK-CD | 01/10/19 | | 01/10/24 | 245,000 | 245,000 | 261,263 | Custodian |
| 1.980% | 2.810% | | FAMCA-Bullet | 02/01/19 | | 06/30/22 | 452,510 | 465,000 | 474,049 | Custodian |

LVMWD Investment Report for the Month Ending February 29, 2020

| Disc./Cpn Rate | Yield To Maturity | Yield To Call | Investment Type | Date Invested | Next Call Date | Date Matures | Book Value | Par Value | Market Value | Market Value Source |
|---|---|---|---|---|---|---|---|---|---|---|
| Investments Maturing After Six Months (continued): | | | | | | | | | | |
| 2.850% | 2.850% | | 1st MO St Bank - CD | 02/13/19 | | 08/14/23 | 245,000 | 245,000 | 255,643 | Custodian |
| 3.000% | 3.000% | | TIAA FSB - CD | 02/22/19 | | 02/22/24 | 245,000 | 245,000 | 258,404 | Custodian |
| 3.250% | 2.536% | | FHLB-Bullet | 02/25/19 | | 06/09/23 | 1,028,810 | 1,000,000 | 1,075,510 | Custodian |
| 2.800% | 2.800% | | FHLB-Callable Coupon | 02/26/19 | 02/26/21 | 02/26/24 | 1,000,000 | 1,000,000 | 1,015,200 | Custodian |
| 2.370% | 2.524% | | FFCB-Bullet | 03/12/19 | | 02/05/24 | 992,950 | 1,000,000 | 1,053,440 | Custodian |
| 3.375% | 2.227% | | FHLB-Bullet | 03/28/19 | | 09/08/23 | 1,048,330 | 1,000,000 | 1,082,620 | Custodian |
| 2.750% | 2.750% | | Comenity CAP Bank-CD | 04/30/19 | | 04/30/24 | 245,000 | 245,000 | 256,410 | Custodian |
| 3.000% | 2.500% | | CAS-Muni Bond | 05/01/19 | | 04/01/24 | 1,022,980 | 1,000,000 | 1,068,740 | Custodian |
| 2.400% | 2.400% | | 1st Choice Bank - CD | 05/22/19 | | 11/23/20 | 245,000 | 245,000 | 246,695 | Custodian |
| 2.650% | 2.650% | | Bank of New Eng Salem-CD | 05/23/19 | | 05/23/24 | 245,000 | 245,000 | 255,518 | Custodian |
| 2.850% | 2.850% | | St. Bank of India -CD | 06/19/19 | | 06/19/24 | 245,000 | 245,000 | 245,169 | Custodian |
| 2.160% | 1.865% | | FFCB-Bullet | 06/28/19 | | 06/03/24 | 1,013,820 | 1,000,000 | 1,048,550 | Custodian |
| 2.150% | 2.150% | | Enerbank USA - CD | 08/07/19 | | 08/07/24 | 245,000 | 245,000 | 250,562 | Custodian |
| 1.590% | 1.590% | | Maryland St.-Muni Bond | 08/28/19 | | 08/01/22 | 1,000,000 | 1,000,000 | 1,011,660 | Custodian |
| 2.147% | 2.147% | | UNIGEN - Muni Bond | 08/29/19 | | 06/01/24 | 1,000,000 | 1,000,000 | 1,031,480 | Custodian |
| 2.000% | 2.000% | 2.000% | FFCB-Callable Coupon | 09/03/19 | 09/03/20 | 09/03/24 | 1,000,000 | 1,000,000 | 1,003,420 | Custodian |
| 1.750% | 1.750% | | 1st Farmers BK7Trust-CD | 09/04/19 | | 09/04/24 | 245,000 | 245,000 | 246,328 | Custodian |
| 1.650% | 1.650% | 1.650% | FFCB-Callable Coupon | 09/09/19 | 09/09/21 | 09/09/24 | 1,000,000 | 1,000,000 | 1,009,960 | Custodian |
| 1.740% | 1.664% | | FAMCA-Bullet | 09/30/19 | | 09/26/24 | 1,003,620 | 1,000,000 | 1,027,020 | Custodian |
| 2.000% | 2.000% | | FHLB-Callable Coupon | 10/02/19 | 10/02/20 | 10/02/24 | 1,000,000 | 1,000,000 | 1,002,360 | Custodian |
| 1.790% | 1.804% | | FAMCA-Bullet | 11/15/19 | | 11/01/24 | 999,340 | 1,000,000 | 1,029,680 | Custodian |
| 1.700% | 1.700% | | FFCB-Callable Coupon | 12/09/19 | Cont. 3/2/20 | 12/02/21 | 1,000,000 | 1,000,000 | 1,000,040 | Custodian |
| 2.224% | 2.224% | | SGTUTL - Nuni Bond | 12/18/19 | | 10/01/24 | 500,000 | 500,000 | 518,330 | Custodian |
| 1.850% | 1.850% | | FHLMC-Callable Coupon | 12/18/19 | 12/18/20 | 12/18/23 | 1,000,000 | 1,000,000 | 1,002,140 | Custodian |
| 1.820% | 1.820% | | FHLB-Callable Coupon | 12/23/19 | 06/23/20 | 12/23/22 | 1,000,000 | 1,000,000 | 1,001,960 | Custodian |
| 1.700% | 1.700% | | Medallion Bank UT-CD | 12/23/19 | | 12/22/23 | 245,000 | 245,000 | 246,156 | Custodian |
| 1.850% | 1.850% | | FHLMC-Callable Coupon | 12/30/19 | 12/28/20 | 12/28/23 | 1,000,000 | 1,000,000 | 1,006,190 | Custodian |
| 1.950% | 1.950% | | FHLMC-Callable Coupon | 01/06/20 | 01/06/21 | 01/06/25 | 1,000,000 | 1,000,000 | 1,006,530 | Custodian |
| 1.800% | 1.800% | | Kemba Financial CU-CD | 01/08/20 | | 01/08/25 | 245,000 | 245,000 | 246,649 | Custodian |
| 1.800% | 1.800% | | FHLMC-Callable Coupon | 01/10/20 | 01/10/22 | 01/10/25 | 1,000,000 | 1,000,000 | 1,010,160 | Custodian |
| 1.650% | 1.650% | | Farmers & Merchants BK-CI | 01/15/20 | | 01/18/22 | 245,000 | 245,000 | 245,911 | Custodian |
| 1.950% | 1.950% | | Knoxville EE CU - CD | 01/16/20 | | 01/16/25 | 245,000 | 245,000 | 248,357 | Custodian |
| 1.800% | 1.800% | | WellsFargo BK West-CD | 01/17/20 | | 01/18/22 | 245,000 | 245,000 | 246,595 | Custodian |
| 1.800% | 1.800% | | FHLMC-Callable Coupon | 01/30/20 | 07/30/20 | 07/30/24 | 1,000,000 | 1,000,000 | 1,001,980 | Custodian |
| 1.75%-Up [4] | 1.994% | | FHLMC-Callable Coupon | 02/25/20 | 08/25/20 | 02/25/25 | 1,000,000 | 1,000,000 | 1,001,780 | Custodian |
| 1.800% | 1.800% | | PASGEN - Muni Bond | 02/26/20 | | 05/01/24 | 260,000 | 260,000 | 265,803 | Custodian |
| 1.850% | 1.850% | | FNMA-Callable Coupon | 02/26/20 | 08/26/20 | 02/26/25 | 1,000,000 | 1,000,000 | 1,001,820 | Custodian |
| 1.646% | 1.646% | | CASHGR - Muni Bond | 02/27/20 | | 11/01/24 | 400,000 | 400,000 | 409,560 | Custodian |
| | | | Sub-Total | | | | 48,896,446 | 48,819,684 | 49,883,202 | |
| | | | Total Investments | | | | $54,834,054 | $54,729,684 | $55,799,533 | |

**Interest earnings for the month were as followed:**

| | Amount Earned/Accrued | Current Yield |
|---|---|---|
| Refunding Revenue Bonds - Reserve Fund (Bank of New York Mellon) | $382 | 1.230% |
| Investments | 94,726 | 2.030% |
| Local Agency Investment Fund (LAIF) | 55,402 | 1.912% |
| Blackrock Liquidity Fund - US Treasury Money Market Fund (Union Bank) | 197 | 1.240% |
| Sweep Accounts (Wells Fargo Bank/Bank of New York Mellon) | 1,692 | 1.444% |
| Total Earnings | $152,399 | |

LVMWD Investment Report for the Month Ending February 29, 2020

**Schedule of Investment Balance Limitations (Per District investment policy)**

The source of the market valuation is as followed:

| | Total Amount Invested | % of Total | Max. Limit Allowed |
|---|---|---|---|
| Investments (Note 1) | $54,834,054 | 60.35% | no limit |
| Refunding Revenue Bonds - Reserve Fund (Bank of New York Mellon/LAIF) | 10,229 | 0.01% | 1 yr debt pmt. |
| Blackrock Liquidity Fund - US Treasury Money Market Fund (Union Bank) | 1,038,921 | 1.14% | no limit |
| Local Agency Investment Fund (LAIF) | 34,982,173 | 38.50% | 65,000,000 |
| Total | $90,865,377 (Note 2) | 100.00% | |

Note 1: The average weighted duration for investments, excluding LAIF, is 1,031 days, which is under the assumption that callable coupons will not be called and will be held until maturity.
Note 2: In February 2020, Joint Powers Authority's participation in investment is $9,556,583.52, of which $5,464,439.07 (or 57.18%) belongs to LV.

**Bank Account Balances as of February 29, 2020:**

| Bank Name | Account Type | Amount |
|---|---|---|
| Wells Fargo Bank | Checking | $676,488 (Note 3) |
| Wells Fargo Bank | Sweep | 1,376,260 |
| Bank of New York Mellon | Money Market | 9,158 |
| | Total | $2,061,906 |

Note 3: This is bank balance without adjusting for outstanding checks. The total amount of outstanding checks is unavailable at the time of reporting.

"All District investments are included in this report and all investments, except those relating to debt issues and deferred compensation programs funds, conform to District investment policy. All investment transactions within the period covered by this report, except for the exceptions noted above, conform to District investment policy. Deferred compensation program funds are not included in this report; their investment is directed by individual employees participating in the deferred compensation program and not by the District. Debt issue funds are included in this report; their investment is controlled by specific provisions of the issuance documents and not by the District."

"The deposits and investments of the District safeguard the principal and maintain the liquidity needs of the District, providing the District with the ability to meet expenditure requirements for the next six months. The maturity dates are compatible with foreseeable cash flow requirements. The deposits and investments can be easily and rapidly converted into cash without substantial loss of value."

Approved for March 24, 2020 Agenda:

David W. Pedersen, General Manager

I HEREBY CERTIFY THAT THE FOREGOING IS TRUE AND CORRECT
TO THE BEST OF MY KNOWLEDGE

Lynda Lo-Hill, Treasurer

Note: Gov. Agency Coupon Notes will distribute interest every six month.
1-CPNRT=1.25% to 11/18; **1.5% to 5/20**; 2% to 11/20; 4% to 5/21; thereafter 6%.
2-CPNRT=1.3% to 5/19; **1.5% to 5/20**; 2% to 11/20; 4% to 5/21; thereafter 6%.
3-CPNRT=1.5% to 6/18; **thereafter 2.25%**.
4-CPNRT=**1.75% to 8/22**; thereafter 2.25%.

Definitions

- Disc./Cpn Rate – The yield paid by a fixed income security.
- Yield to Call (YTC) – The rate of return of a security held to call when interest payments, market value and par value are considered.
- Yield to Maturity (YTM) – The rate of return of a security held to maturity when interest payments, market value and par value are considered.
- Bullet – A fixed income security that cannot be redeemed by the issuer until the maturity date.
- Callable – A fixed income security that can be redeemed by the issuer before the maturity date.
- Book Value – The price paid for the security.
- Par Value – The face value of a security.
- Market Value – The current price of a security.
- Sinking Bond – In the case of the CASPWR Bond held by the District, a sinking bond pays a portion of principal on a defined schedule throughout the life of the bond.
- Custodian – The financial institution that holds securities for an investor.

Investment Abbreviations

- FHLB – Federal Home Loan Bank
- FHLMC – Federal Home Loan Mortgage Corporation (Freddie Mac)
- FNMA – Federal National Mortgage Association (Fannie Mae)
- FFCB – Federal Farm Credit Bank
- FAMCA – Federal Agricultural Mortgage Corporation (Farmer Mac)
- Bonds
    - CAS – State of California
    - CASHGR – California State University
    - CASPWR – State of California Department of Water Resources
    - CTS – State of Connecticut
    - HESDEV – Successor Agency to the Hesperia Redevelopment Agency
    - MDS – State of Maryland
    - MOUSCD – Mountain View Unified School District
    - NEWSCD – Newark, CA Unified School District
    - NYSDEV – New York State Urban Development Revenue Bond
    - SCVWTR – Santa Clara Valley Water District
    - SFOFAC – City and County of San Francisco Community Facilities District
    - SGTUTL – South Gate Utility District
    - SRVSCD – San Ramon, CA Unified School District
    - UNVHGR – University of California

Attachment B

# LVMWD CASH ANALYSIS -February 29, 2020

| | Restricted Cash | Cash Held by Policy | Policy Requirement | Available Funds |
|---|---|---|---|---|
| 101 - Potable Water Operations | | 11,145,275 | 9,997,207 | |
| 201 - Potable Water Construction | (4,183,875) | | | |
| 301 - Potable Water Replacement | | 13,363,324 | 11,157,814 | |
| 603 - Rate Stabilization Fund | | 8,000,000 | 8,000,000 | |
| **Total Potable Water** | **(4,183,875)** | **32,508,599** | **29,155,021** | **(830,297)** |
| 102 - Recycled Water Operations | | 9,865,896 | 1,100,143 | |
| 203 - Recycled Water Construction | (101,000) | | | |
| 302 - Recycled Water Replacement | | 7,539,757 | 2,483,887 | |
| **Total Recycled Water** | **(101,000)** | **17,405,653** | **3,584,030** | **13,720,623** |
| 130 - Sanitation Operations | | 5,082,710 | 3,291,214 | |
| 230 - Sanitation Construction | 954,230 | | | |
| 330 - Sanitation Replacement | | 14,137,810 | 10,285,867 | |
| **Total Sanitation** | **954,230** | **19,220,520** | **13,577,081** | **6,597,669** |
| 606 & 607 - Refunding Revenue Bonds - Reserve Fund | 19,387 | | | |
| 701 - Vested Sick Leave Reserve | 1,436,158 | | | |
| 720 - Insurance Reserve | | 7,926,885 | 7,871,864 | **55,021** |
| JPA | 12,122,045 | | | |
| Prepaid Connection Fees & Undistributed Interest | 5,028,056 | | | |
| *Subtotal* | *15,275,001* | *77,061,656* | | |
| **TOTAL** | **92,336,657** | | | |

**Financial Policy** - Cash required to comply with District's adopted Financial Policy.
**Restricted Cash** - Revenue restricted to a particular purpose.
**Bond Covenants** - Money relating to bond financing that is restricted in use and required by promises made in bond documents.
Funds are reconciled at year-end.

March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

**Subject : ACC Business: Internet Service Contract Renewal**

## SUMMARY:

On February 1, 2020, the District's contract with ACC Business (ACC), a division of AT&T, to provide redundant internet services expired and converted to monthly terms at the current price. This ACC service provides the District with 26 unique external/public internet addresses and a redundant internet connection to complement the District's TPx internet connection. ACC has offered to continue providing the service to the District at double the speed (100 versus 50 Mbps), while reducing the monthly cost from $950 to $884. Staff recommends executing a new three-year contract with ACC for the redundant internet service.

## RECOMMENDATION(S):

Authorize the General Manager to execute a three-year contract with ACC Business for a monthly rate of $884 to provide external/public internet addresses and a 100 Mbps redundant internet connection and allocate $2,850 to pay the remaining monthly fees until execution of a new contract for a total cost of $34,674.

## FISCAL IMPACT:

Yes

## ITEM BUDGETED:

Yes

## FINANCIAL IMPACT:

This action will result in a cost-savings of $2,376 over a three-year period. Sufficient funds are available in the adopted Fiscal Year 2019-20 Budget and will be proposed in future year budgets.

**DISCUSSION:**

The District's Multi-Protocol Label Switching (MPLS) Wide Area Network connects five SCADA locations, Lift Station No. 1, Lift Station No. 2, Cornell Pump Station, Stunt Road Pump Station, LV-2 Pump Station, along with the District's major facilities at Headquarters, Westlake, Tapia and Rancho. This service is managed by TPx Communications. The ACC connection provides the District with 26 unique external/public internet addresses and a redundant internet connection to complement the District's TPx internet connection.

The new three-year contract will double the speed of the District's redundant internet connection and provide external/public internet addresses. The expired contract was for $950 per month. The new contract will cost $884 per month for a net savings of $66 monthly or $792 annually.

**GOALS:**

Provide Excellent Service That Exceeds Customer Expectations

Prepared by: Michael McIntyre, SCADA Systems Analyst

**ATTACHMENTS:**

ACC Contract

ACC BUSINESS
A division of AT&T

**ACC PS160** | **ACC SSE OTIS 170907**

**For Administrative Use Only**
**Master Agreement #: 3012798UA**

# AT&T DEDICATED INTERNET SERVICE PRICING SCHEDULE

**For Customer Service Call 1-888-286-2685**

## SECTION 1. ACC BUSINESS REPRESENTATION

| | |
|---|---|
| **Channel / Retention Manager** Torie Chung | **Solution Provider Channel ID #** A0000741 |
| | **Associate Solution Provider Channel ID #** EL002450 |
| **Solution Provider Order Contact** Todd Mitter | **Additional Solution Provider Order Contact** |
| **Solution Provider Order Contact Email Address** todd@carrierconsulting.com | **Additional Solution Provider Order Contact Email** |
| **Solution Provider Order Contact Phone #** (310) 640-1920 | **Additional Solution Provider Order Contact Phone #** |

## SECTION 2. ACCOUNT INFORMATION *(All fields **required**)*

| | |
|---|---|
| **I. Company Name** Las Virgines Municipal Water District | **II. Billing Company Name:** Las Virgines Municipal Water District |
| **Company Street** 4232 Las Virgenes Rd | **Billing Street** 1 4232 Las Virgenes Rd; 2 |
| **City** Calabasas **State** CA **Zip Code** 91302 | **City** Calabasas **State** CA **Zip Code** 91302 |
| **Contact Person** Michael McIntyre | **Billing Contact Person** Jennifer Chen |
| **Contact Email Address** mmcintyre@lvmwd.com | **Billing Contact Email Address** ACCOUNTSPAYABLE@LVMWD.COM |
| **Phone #** (818) 251-2100 | **Billing Contact Phone #** (818) 251-2224 |

**III. REQUIRED FOR ALL: Legal Company Name (Parent Company)**
LAS VIRGENES MUNICIPAL WATER DISTRICT

## SECTION 3. ADI SERVICE LOCATION INFORMATION FOR SINGLE LOCATION

| | | | |
|---|---|---|---|
| **Demarc Company Name** | Las Virgines Municipal Water District | | |
| **On-Site Local Contact Name (LCON) (required)** | Michael McIntyre | **Alt LCON Contact Name (required)** | Ivo Nkwenji |
| **LCON Phone # (required)** | (818) 251-2100 | **Alt LCON Phone #(required)** | (818) 251-2100 |
| **LCON Email Address (required)** | mmcintyre@lvmwd.com | **ALT LCON Email Address (required)** | INKWENJI@LVMWD.COM |
| **LCON Mobile Phone #** | | **ALT LCON Mobile Phone #** | |
| **Street Demarc** | | **Telephone # of nearest neighbor/business** | |
| 4232 Las Virgenes Rd | | **Primary Technical Customer Contact Name (required)** | Michael McIntyre |
| **Room & Floor** | 1ST FLOOR SERVER ROOM | **Primary Technical Customer Contact Phone # (required)** | (818) 251-2100 |
| **City** Calabasas **State** CA **Zip Code** 91302 | | **Primary Technical Customer Contact Email Address (required)** | mmcintyre@lvmwd.com |
| **Active phone number at Demarc location (required)** | | **Dedicated Analog Phone # (required for Included CPE)** | |
| **No Toll Free** | (818) 871-1500 | | |
| **Remarks:** upgrade to 100MB managed from 50MB | | | |
| **Is this site a Carrier Hotel/Data Center?** | NO | **If yes, who owns the Carrier Hotel/Data Center?** | |
| | | **LSO NPA-NXX (INTERNAL USE ONLY)** | |

## SECTION 4A. ACCOUNT DETAIL INFORMATION

**New Account:** NO **Existing Account:** YES **Account Number:** 1201010

## SECTION 4B. BILLING OPTIONS (refer to Billing Options document, found on A.I.M.)

| | |
|---|---|
| **STANDARD BILLING (Single Account Billing)** | YES |
| **CORPORATE BILLING†: $6.50/mo. Administrative Fee† plus $3.00/mo. each service location†** | NO |
| **Corporate Billing Option:** | Standard - Single Location Billing |
| **Corporate Billing: Is the above Service address the HQ Location?** | NO |
| **Corporate Billing: Location #** | 1 of 1 |
| **BILLING REPORT OPTIONS (please provide supporting paperwork):** | |
| **Access-a-Bill† $19.95 per month** | NO |
| **BILLING CYCLE (Bill Date Preference)** | EXISTING |

**†Charges marked by † are not stabilized for the Term, are illustrative to reflect the current Service Guide rates and will vary in accordance with the corresponding charges set forth in the Service Guide.**

| SECTION 4C. ORDER TYPE | | | | | | |
|---|---|---|---|---|---|---|
| Order Type | Upgrade Port & Access | | | | | |
| Is this Order replacing or changing an existing ACC circuit? * | | | | No | | |
| *If yes, list existing circuit ID and details directly below (note: for multi-location orders, enter details for each site on the ADIMultiloc sheet) | | | | | | |
| BBEC543296ATI | upgrade to 100MB managed from 50MB | | | | | |
| Existing circuit IDs (required): | Reason for replacement or change (Move, Upgrade/ Downgrade, Tech Migration, etc.): | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| SECTION 5A. PRICING SCHEDULE TERM AND PROMOTIONS | | | | | | |
| Term: 3 Years | Promo Code(s): | | | | | |
| Other: | | | | | | |
| SECTION 5B. SERVICE CHARGES & RATE PLANS (will be totaled for multiple locations) | | | | | | |
| Applicable supporting documentation ( printout, quote letter and ICB) *must be attached* | | | | | | |
| | PORT SPEED | Monthly Port Charges and Other Charges all Multi Locations | Total Number Selected | Monthly Port Charges and Other Charges Single Location | CPE Option/Install Charge Totals for a Single Location (No Tele-Install over 100Mbps) | |
| Full T1 | SELECT | | | | SELECT ONE | |
| NxT1 | SELECT | | | | SELECT ONE | |
| Fractional + Full T3 | SELECT | | | | SELECT ONE | |
| Ethernet | 100 Mbps | | 1 | $280 | Included CPE, Tele-Install $1,500 (waived) Onsite required for over 100Mbps | |
| Gigabit Ethernet | SELECT | | | | SELECT ONE | |
| Other Charges | For Changes Complete Section 4C | | | | | |
| Hi-Cap Full T3 MBC | SELECT | | | | SELECT ONE | |
| Hi-Cap Incr Charge/mbps | | | | | | |
| Hi-Cap OC3 MBC | SELECT | | | | SELECT ONE | |
| Hi-Cap Incr Charge/mbps | | | | | | |
| Hi-Cap Ethernet MBC | SELECT | | | | SELECT ONE | |
| Hi-Cap Incr Charge/mbps | | | | | | |
| | | | | | | |
| | | | | | Installation Charges | Amount Waived |
| Total Port Charges Single Location: | | | 1 | $280 | $1,500 | $1,500 |

| LOCAL ACCESS | | | Monthly Circuit Charges all Multi Locations | Total Number Selected | Monthly Charge Per Circuit Single Location | Installation Charges (Renewals=$0 Prov. Order =charges) | Amount Waived |
|---|---|---|---|---|---|---|---|
| **128K-NxT1** ***(25 miles from PoP in the 48 states)*** | | | | | | | |
| **128K-NxT1 (On-Net, Hawaii or 26+ miles from PoP in the 48 states)** | | **SELECT** | | | | | |
| **Ethernet** | **Circuit Speed** | **Total Service (default)** | | **1** | **$604** | | |
| | **100 Mbps** | | | | | | |
| **Fractional/Full T3, OC3, or T3/OC3 On-Net** | | **SELECT** | | | | | |
| **Full OC12 or OC48 Access arrangement** | | **SELECT** | | | | | |
| **Ethernet Interface** | | **100 Base TX Electrical** | | | | | |
| **Business in a Box Router** | | **SELECT** | | | | | |
| **Total Local Access Charges Single Location** | | | | **1** | **$604** | **$0** | **$0** |

| **SECTION 5C. OPTIONAL SERVICES & CHARGES - SINGLE LOCATION** | | | | |
|---|---|---|---|---|
| **IPv6/Dual Stack requested** | *** SELECT** | | | |
| **Domain Name used for service: (additional domains identified during technical interview)** | | | | |
| **Primary. # of domains (*up to 15 included per ADI port*):** | | **SELECT** | ***(additional Primary DNS is $100/month per 15 domains)*** | |
| **Secondary. # of domains (*up to 15 included per ADI port*):** | | **SELECT** | ***(additional Secondary DNS is $100/month per 15 domains)*** | |
| **COS (Class of Service)** | | | **Monthly Charges** | **One-Time Install Charges (Waived)** |
| **COS (NxT1 ports require MLPPP)** | | **SELECT** | **$0** | |
| **PNT (Private Network Transport)** | | | **Monthly Charges** | **One-Time Install Charges (Waived)** |
| **PNT (NxT1 ports require MLPPP)** | | **SELECT** | **$0** | |
| | | **Quantity** | **Monthly Charges** | **One-Time Install Charges** |
| **Type?** | **SELECT** | **0** | **$0** | |
| **Choke Router/Outbound Load Balancing?** | **SELECT** | | **$0** | |
| **Redundant CPE (Cold Standby)?** | **SELECT** | | **$0** | |
| **Single Location Optional Services Totals:** | | **0** | **$0** | **$0** |

| **SECTION 5D. ONE-TIME MOVE CHARGES - SINGLE LOCATION** | | |
|---|---|---|
| | | **One-Time Move Charge** |
| **Move Charges T1, NxT1, fractional T3, T3 & OCX.** | SELECT | $0 |

| SECTION 5E. TOTAL ALL CHARGES | BILLED | WAIVED |
|---|---|---|
| Total Single Location Monthly Port, Local Access, and Optional Service Charges: | $884 | |
| Total Single Location Non Recurring Port, Local Access, Optional Service, and Move Charges: | $0 | $1,500 |

**SECTION 5F. MINIMUM PAYMENT AND MINIMUM RETENTION PERIOD**

| Portion of Monthly Service Fees Applicable to Minimum Payment Period | Service Components | Minimum Payment Period |
|---|---|---|
| 50% | All Service components | Until end of Pricing Schedule Term, but not less than 12 months per component (from original activation date) |

**The minimum retention period is 12 months for all service components**

**SECTION 6. TERMINATION**

**The Customer may terminate service without incurring Termination Charges prior to the end of the service term, provided the Customer is current in payment to ACC Business for services provided and replaces this Pricing Schedule with either:**

**1) other domestic and/or international telecommunications services provided by ACC Business having a new revenue commitment equal to or greater than the revenue commitment set forth in this Pricing Schedule; or**

**2) the same services provided by ACC Business having a new revenue commitment equal to or greater than the remaining revenue commitment of this Pricing Schedule.**

**Additionally, ACC Business may terminate this Pricing Schedule in the event that (i) AT&T determines that Special Construction is necessary for ACC Business to provide the Service hereunder and (ii) Customer does not execute and return an AT&T Special Construction Pricing Schedule within the time period designated by ACC Business. ACC Business may also terminate this Pricing Schedule in the event that Customer orders On-Net access and no capacity is available. Customer will not incur any Termination Charges in the event that ACC Business exercises its right of termination under this paragraph.**

**SECTION 7. TAX EXEMPT INFORMATION**

| Tax Exempt: Certifications for all jurisdictions that apply must be attached: Applicable taxes will be applied to all invoices until supporting tax exempt documentation is provided. | | |
|---|---|---|
| | Federal | NO |
| | State | NO |
| | County | NO |
| | City | NO |

**SIGNATURE BELOW BY YOUR AUTHORIZED REPRESENTATIVE IS CUSTOMER'S CONSENT TO THE TERMS AND CONDITIONS OF THIS PRICING SCHEDULE**

Customer acknowledges that the terms and conditions set forth in this ADI Pricing Schedule ("Pricing Schedule") apply to Service for the duration of the Service Period. Additional terms, conditions and charges can be viewed on the AT&T Service Guide ("Service Guide") located at http://serviceguidenew.att.com/

Customer further acknowledges that it must comply with the terms of the Acceptable Use Policy located at http://www.att.com/aup/

When service is ordered for multiple locations of a Corporate Billed account the rates in the ADI Multi Location Worksheet apply.

**NOTE:** AT&T Dedicated Internet as sold by ACC Business (ADI) (formerly known as ACC Business Managed Internet Service (MIS))

| | Customer | | ACC Business |
|---|---|---|---|
| Name (Printed) | **Dave Pedersen** | Name (Printed) | |
| Signature By (x) | | Signature By (x) | |
| Date | | Date | |
| Company | **LAS VIRGENES MUNICIPAL WATER DISTRICT** | Company | **ACC Business** |
| Title | **General Manager** | Title | **Contract Specialist** |

March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

**Subject : 2019 Bioassessment Monitoring Report: Approval of Purchase Order**

The Las Virgenes-Triunfo Joint Powers Authority (JPA) approved funding for this matter in the JPA Budget. This recommendation is before the LVMWD Board for action, as Administering Agent of the JPA, as authorized by the JPA Agreement.

**SUMMARY:**

Since 2006, the JPA has submitted an annual bioassessment monitoring report as required by Tapia's NPDES Permit. The report is intended to assess the "eco-health of the stream" by measuring the physical condition of the receiving waters and their biological communities. The work involves sampling and characterizing the habitat potential of the creek, as well as identifying and quantifying the species of benthic macroinvertebrates at eight receiving water stations.

In 2010, new requirements were established for the JPA to conduct sampling and taxonomic identification of algal biomass taken from the substrate. This task is labor intensive and requires the use of specialized consultants and laboratories. As a result, the overall cost of the bioassessment monitoring has increased.

The 2019 bioassessment monitoring report cost is $48,866, which exceeds the $35,000 limit on purchase orders that can be approved by the General Manager. Therefore, the issuance of a purchase order needs to be approved by the Board.

**RECOMMENDATION(S):**

Authorize the General Manager to approve a purchase order to Aquatic Bioassay Consulting Laboratories, Inc., in the amount of $48,866, for the 2019 Bioassessment Monitoring Report.

**FISCAL IMPACT:**

Yes

**ITEM BUDGETED:**

Yes

**FINANCIAL IMPACT:**

Sufficient funds are available for this work in the adopted Fiscal Year 2019-20 JPA Budget. The cost of the work is allocated 70.6% to LVMWD and 29.4% to Triunfo Water & Sanitation District.

**DISCUSSION:**

Bioassessment monitoring for Malibu Creek sampling sites is required by Tapia's NPDES Permit. The monitoring consists of creek site sampling and observations, together with laboratory and data analysis for each site under protocols established by the Surface Water Ambient Monitoring Program (SWAMP) and the U.S. EPA estuarine sampling guidance documents for RSW-MC011D (Malibu Lagoon).

Site observations include stream flow measurements and a physical habitat assessment, which evaluates stream bank conditions, potential sediment impairment and canopy cover. Unlike previous years when some receiving water sites were dry and not sampled, all sites had water and were evaluated. Physical habitat assessments for most sites were suboptimal with RSW-001U having the lowest (marginal) score due to sediment deposition and a lack of instream cover. Station RSW-003D was scored as optimal due to increased cover and less channel alteration.

The laboratory analyses of the site samples identified 5,024 benthic macroinvertebrates from 47 different taxa. The majority of the samples were seed shrimp from the Malibu Lagoon (RSW-011D). The upstream sample sites included disturbance tolerant species including clams, amphipods, midges, nemertean worms, mayflies and New Zealand mudsnails. New Zealand mudsnails were found at sites RSW-003D, RSW-013D, RSW-001U, and RSW-007U. It was noted that stations downstream from Tapia had fewer numbers of New Zealand mudsnails than previous bioassessments.

Results from the sampling and the laboratory analyses were used to determine scores using the California Stream Condition Index (CSCI) and the Southern California Algae Index of Biological Integrity (SoCA Algae IBI). CSCI scores are determined by the composition of the benthic macroinvertebrate community, while SoCA Algae IBI scores are determined by the abundances and composition of diatom and soft-bodied algae communities. CSCI scores were "possibly altered" for RSW-001U, RSW-002D, and RSW-004D, which is a relatively good score. Since RSW-001U is directly upstream of Tapia and RSW-002D is directly downstream, it indicates that Tapia's discharge is not affecting the BMI communities. Other sites had scores from "likely altered" to "very likely altered." The SoCA Algae IBI scores for the receiving water stations were all low, as they were categorized as "non-reference."

One of the potential reasons given for low scores in the bioassessment report was the water quality in Malibu Creek. Because of high sulfate and phosphate concentrations in the water due to the influence of the Monterey Formation, there is a detrimental effect on benthic macroinvertebrates.

**GOALS:**

Construct, Manage and Maintain All Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

The Bioassessment Report evaluates the ecological health of Malibu Creek.

Prepared by: Brett Dingman, Water Reclamation Manager

**ATTACHMENTS:**

2019 Bioassessment Report
Invoice

March 6th, 2020

Brett Dingman, P.E.
Water Reclamation Manager
Las Virgenes Municipal Water District
4232 Las Virgenes Rd.
Calabasas, CA 91302

Dear Mr. Dingman:

In accordance with the agreement between the Las Virgenes Municipal Water District and Aquatic Bioassay and Consulting Laboratories, Inc., we are pleased to present the 2019 Bioassessment Monitoring Report for the Tapia Water Reclamation Facility (MRP No. CI-4760). The enclosed report includes the results for the summer 2019 annual requirements set forth by the California Regional Water Quality Control Board, Los Angeles Region.

Yours very truly,

**Scott Johnson**
Laboratory Director, Senior Scientist
scott@aquaticbioassay.com · (805) 643-5621 x11
29 north olive · ventura · ca 93001
www.aquaticbioassay.com

# Las Virgenes Municipal Water District
# Tapia Water Reclamation Facility
# 2019 Bioassessment Monitoring Report
# (NPDES CA0056014)

Submitted to:

Las Virgenes Municipal Water District
731 Malibu Canyon Rd.
Calabasas, CA 91302

Submitted by:

Aquatic Bioassay and Consulting Laboratories
29 N Olive Street
Ventura, CA 93001

March 2020

# Table of Contents

# List of Tables

# List of Figures

# Introduction

### Watershed Background

The Malibu Creek watershed is located about 30 miles west of Los Angeles, California and drains an area of 109 square miles. The watershed extends from the Santa Monica Mountains and adjacent Simi Hills to the Santa Monica Bay at Malibu State Beach. Malibu Lagoon, currently about 31 acres in size, occupies the area behind the beach at the mouth of Malibu Creek. The entire watershed lies within Level 3 sub-ecoregion 6 (Southern and Central California Chaparral) within aggregate nutrient ecoregion 3 (USEPA, 2000a). The watershed is a predominately chaparral ecosystem with a Mediterranean climate that includes mild, wet winters and hot, dry summers. Annual precipitation ranges from an average of 13.2 inches near the coast to 25.4 inches in the mountains.

Malibu Creek runs 10 miles from Malibu Lake to Malibu Lagoon. The predominant land cover in the Malibu Creek sub-watershed is open land. The Tapia Water Reclamation Facility (TWRF) is in this sub-watershed and contributes significant flow to the Creek in the winter months. Malibu Creek receives flow from Las Virgenes Creek, which runs eleven miles and drains an area of 12,456-acres. Land cover in the Las Virgenes Creek sub-watershed is predominantly open, with some residential and commercial/industrial land. Malibu Lagoon is located at the mouth of Malibu Creek before its discharge to the Pacific Ocean. The wetland acreage includes 2/3 mile of the creek corridor east of the Pacific Coast Highway and 92 acres of wetland habitat. The Lagoon has been the focus of a remediation effort aimed at returning it to a more naturally functioning wetland.

### Bioassessments

Major issues facing streams and rivers in California include modification of in-stream and riparian structure (hydromodification), contaminated water, and increases in impervious surfaces that has led to the increased runoff to local creeks, streams and rivers. There have been many studies and reports showing the deleterious effects of land-use activities to macroinvertebrate and fish communities (Jones and Clark 1987; Lenat and Crawford 1994; Weaver and Garman 1994; and Karr 1998). A major focus of freshwater scientists has been the prevention of further degradation and restoration of streams to their more pristine conditions (Karr et al. 2000).

Biological communities act to integrate the effects of water quality conditions in a stream by responding with changes in their population abundances and species composition over time. These populations are sensitive to multiple aspects of water and habitat quality, and provide the public with more familiar expressions of ecological health than the results of chemical and toxicity tests (Gibson 1996). Furthermore, biological assessments, when integrated with physical and chemical assessments, better define the effects of point-source discharges of contaminates and provide a more appropriate means for evaluating discharges of non-chemical substances (e.g. nutrients and sediment).

Water resource monitoring using benthic macroinvertebrates (BMI) is by far the most popular method used throughout the world. BMIs are ubiquitous, relatively stationary, and their large species diversity provides a spectrum of responses to environmental stresses (Rosenberg and Resh 1993). Individual species of BMIs reside in the aquatic environment for a period of months to several years and are sensitive, in varying degrees, to temperature, dissolved oxygen, sedimentation, scouring, nutrient enrichment, and chemical and organic pollution (Resh and Jackson 1993). BMIs represent a significant food source for aquatic and terrestrial animals and provide a wealth of ecological and bio-geographical information (Erman 1996).

Attached algae have also been used as indicators of biological condition extensively in Europe and United States (Komulaynen 2002; Perrin and Richardson 1997; Cascallar, et al. 2003). As indicators, algae tend to respond to different stressors than BMIs, especially nutrients (Marinelarena and Di Giorgi 2001). In addition, the growth and maturation of algal communities is more rapid than BMIs making their assemblages more representative of recent water quality conditions (Nelson and Lieberman 2002; Robinson and Minshall 1998; Suren et al. 2003).

**Program Objectives**

This report includes the results of bioassessment monitoring (including both benthic macroinvertebrates (BMIs) and attached algae) conducted for the Las Virgenes Municipal Water District (LVMWD) at eight sampling locations in the Malibu Creek Watershed during the summer of 2019. This monitoring program was initiated, at the request of the Los Angeles Regional Water Quality Control Board (LARWQCB), in compliance with the Tapia Water Reclamation Facilities (TWRF) NPDES permit CA0056014 (MRP No. CI-4760).

Bioassessment monitoring followed the protocols established by the State of California's, Surface Water Ambient Monitoring Program (Ode et al. 2016).

In response to this requirement, Aquatic Bioassay and Consulting Laboratories, Inc. (Aquatic Bioassay) was contracted to conduct sampling in the Malibu Creek Watershed. On July 18th through the 29th, 2019, Aquatic Bioassay scientists conducted the fourteenth year of bioassessment sampling.

The goal of this program is to:

1. Provide a comparison of the macroinvertebrate and attached algae assemblages on the Malibu Creek to assess the aquatic health of locations both upstream and downstream of the TWRF outfall; and,

2. Evaluate the physical/habitat condition of these sampling sites.

This report includes all the physical, chemical, and biological data collected during the summer survey, photographic documentation of each site, QA/QC procedures and documentation followed by biological metrics and the California Stream Condition Index (CSCI), along with interpretation of these results with comparisons between sample locations, and across years. In addition, the most recent update of the TWRF NPDES permit (2017) included a provision that required the collection and analysis of attached algae from each of the sites in conjunction with the macroinvertebrate samples. These data were evaluated using the Southern California Algae Index of Biological Integrity (SoCA Algae IBI).

# Materials and Methods

### Sampling Site Descriptions

Eight sampling locations were visited in the Malibu Creek Watershed from July 18th through the 29th, 2019 (Table 1, Figure 1). Station identifiers, as specified in the NPDES permit, are presented in all tables and figures, but are abbreviated in the text to improve readability. Photographs of each site are displayed in Appendix B, Figure 7. Of the eight sites sampled, six are located in Malibu Creek, one is located in Las Virgenes Creek (station R-7), and one is located in Malibu Lagoon (station R-11). When the berm separating Malibu Lagoon from the ocean is breached, station R-11 is subject to tidal flushing and therefore, higher salinities. Stations R-3 and R-4 are located above the Lagoon and below Rindge Dam. Stations R-2 and R-13 are located on Malibu Creek downstream of the TWRF outfall, and stations R-1 and R-9 are located just upstream of the discharge. Station R-7 is located on Las Virgenes Creek in the upper portion of the watershed.

Table 1. Sampling location descriptions in the Malibu Creek Watershed.

| Station ID | Sample Date | Name | Watershed | Position From TWRF Outfall | Distance (m) from TWRF Outfall | Latitude (N) | Longitude (W) | Elev. (m) |
|---|---|---|---|---|---|---|---|---|
| RSW-MC011D | 7/29/2019 | Malibu Lagoon | Malibu | Downstream | 7470 | 34.03380 | -118.68292 | 1 |
| RSW-MC004D | 7/29/2019 | Malibu Creek | Malibu | Downstream | 6290 | 34.04372 | -118.68500 | 8 |
| RSW-MC003D | 7/29/2019 | Malibu Creek | Malibu | Downstream | 5860 | 34.04540 | -118.68781 | 13 |
| RSW-MC013D | 7/19/2019 | Malibu Creek | Malibu | Downstream | 930 | 34.07606 | -118.70277 | 140 |
| RSW-MC002D | 7/19/2019 | Malibu Creek | Malibu | Downstream | 150 | 34.08122 | -118.70440 | 143 |
| RSW-MC001U | 7/18/2019 | Malibu Creek | Malibu | Upstream | 560 | 34.08390 | -118.71152 | 146 |
| RSW-MC009U | 7/18/2019 | Malibu Creek | Malibu | Upstream | 2500 | 34.09969 | -118.72204 | 151 |
| RSW-MC007D | 7/18/2019 | Las Virgenes Creek | Malibu | Upper Watershed | 7650 | 34.13354 | -118.70636 | 220 |

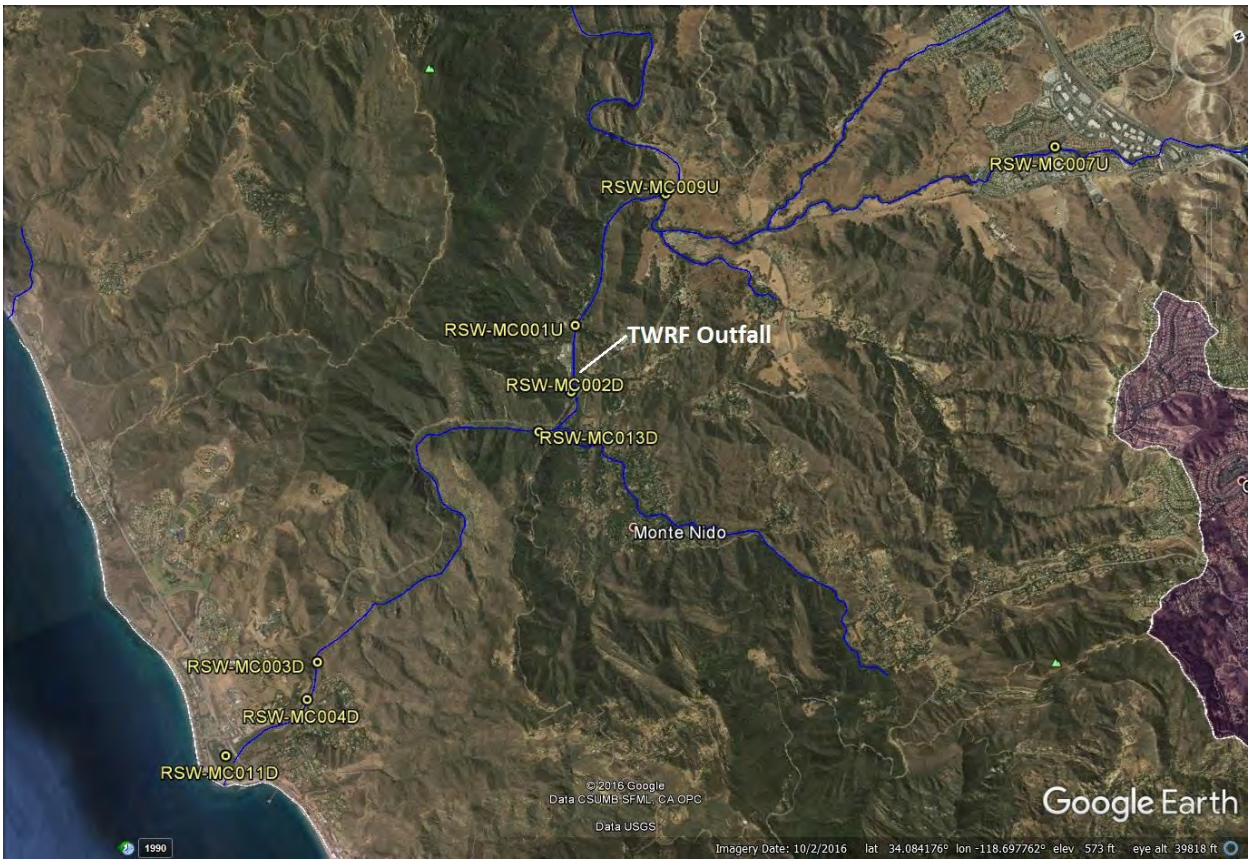



Figure 1. BMI sampling locations in the Malibu Creek Watershed in the vicinity of the Las Virgenes Municipal Water District Tapia Water Reclamation Facilities (LVMWD TWRF) discharge.

**Collection of Benthic Macroinvertebrates**

*Wadeable Streams Protocols:*

The field protocols and assessment procedures for collection of BMIs and attached algae followed the Surface Water Ambient Monitoring Program protocols (Ode et al. 2016). Samples were collected in strict adherence to the SWAMP protocols in terms of both sampling methodology and QC procedures. At each station, a 150-meter (m) reach was measured and 11 transects were established equidistance apart from the downstream to upstream end of the reach. If access to the full 150 m reach was not possible due to obstacles (i.e. bridges, or abutments), the total reach length was divided by 11 and transects were established as above. At each site the SWAMP Worksheet was used to collect all of the necessary station information and physical habitat data.

BMI samples were collected, starting with the downstream transect and working upstream, following the Reach Wide Benthos (RWB) sampling protocol:

1. At the most downstream transect, a single location was sampled 25% of the distance from the right wetted width. On the second upstream transect, a sample was collected 50% of the distance from the right wetted width and, on the third transect, 75% of the distance from the right wetted width. This process was repeated until each of the 11 transects had been sampled.

    a) All samples of the benthos were collected within a 0.09 $m^2$ area upstream of a 0.03 m wide, 0.5 mm mesh D-frame kick-net.

    b) Sampling of the benthos was performed manually by rubbing cobble and boulder substrates in front of the net, followed by disturbing the upper layers of substrate to dislodge any remaining invertebrates.

    c) The duration of sampling ranged from 60-120 seconds, depending on the amount of boulder and cobble-sized substrate that required rubbing by hand; complex substrates require a greater amount of time to process.

2. The 11 samples (per station) were combined into a single composite sample that represented a 0.99 $m^2$ area of the total reach sampled. The composited samples were transferred into separate two liter wide-mouth plastic jars containing approximately 300 ml of 95% ethanol.

3. Chain of Custody (COC) sheets were completed for samples as each station was completed.

*Malibu Lagoon Sampling Protocol (Station R-11):*

Station R-11 was located at the lower end of Malibu Creek in the Lagoon. This site is within the tidal prism and is therefore subject to brackish water conditions. As a result, sampling was conducted in adherence to protocols more specific to estuaries (USEPA 2000b). Triplicate benthic samples were collected at station R-11 using a 0.05 $m^2$ Petite Ponar Grab. Each sample was sieved through a 0.5 mm mesh screen and composited into a two-liter wide-mouth plastic jar containing approximately 300 ml of 95% ethanol.

**Collection of Attached Algae**

Stream attached algae collection was conducted in strict accordance with SWAMP sampling procedures (Ode et al. 2016) at all stations except R-11 which was in the Malibu Lagoon. Attached algae samples were collected at the same time as the BMI samples. Algae quantitative samples are collected a meter directly above where the BMIs were collected. The collection procedure is variable depending on the substrate found at the collection point but all samples are composited together into a wash bucket for further processing.

1. If the substrate type is removable and is in a depositional habitat (e.g. fine gravel, silt or sand) and has an exposed area of less than 12.6 $cm^2$, then a PVC delimiter, which is plastic coring device with an internal diameter of 4 cm, is used to collect the loose substrate up to 1 cm deep. Then a metal spatula is placed directly underneath the PVC delimiter to collect the loose material.

2. If the habitat type is erosional (e.g. cobble or a piece of wood) and removable then a rubber delimiter, which is comprised of bicycle tire with a reinforced hole of the desired area, is used to isolate a 12.6 $cm^2$ area of algae. The delimiter is wrapped around the object collected and a toothbrush is used to scrub the algae from the surface.

3. If the surface substrate cannot be removed (e.g. concrete, bedrock or large boulder), then a “syringe scrubber” is used to collect the algae from the surface underwater. Once the collection area has been scrubbed clean, the syringe plunger is retracted and the scrubber is removed and rinsed into the wash bucket.

Once algae samples from all 11 transects are collected and composited into the wash bucket, they are processed in the field. There are four different indicators targeted at each site, chlorophyll a (Chl-a), ash free dry weight (AFDW), diatoms and soft-bodied algae. For Chl-a and AFDW a 25 mL of composite sample are filtered through glass fiber pre-filters using a hand pump. The filter is placed in a petri dish, covered in aluminum foil and placed on dry ice until analyzed.

Diatom samples were prepared by combining 40 mL of composite water and 10 mL of 10% neutral buffered formalin preservative to a 50 mL centrifuge tube. The tube was covered in foil and placed on wet ice for future identification. Soft-bodied algae samples were prepared by adding 45 mL of composite water and 5 mL of 5% glutaraldehyde solution to a 50 mL centrifuge tube, covered in foil and placed on wet ice for identification.

Diatoms and soft-bodied algae samples were then sent to Rhithron Associates, Inc. in Missoula, MT for identification and enumeration. AFDM and Chl-a were sent to Sierra Environmental in Reno, NV for analysis.

**Physical/Habitat Quality Assessment and Water Chemistry**

Bioassessment sampling included a measure of the instream physical habitat conditions using a method originally developed by the USEPA and modified by SWAMP (Ode et al. 2016) for use in California. This method focuses on the habitat conditions found in the streambed and banks. The team collected the physical habitat measurements at each station, according to the full method outlined in the SWAMP manual and recorded the information on the SWAMP worksheets.

Assessment of the P-Hab conditions of a stream reach is necessary to determine the quality of the stream reach as a habitat for BMIs. In many cases, organisms might not be exposed to chemical contaminants, yet their populations indicate that impairment has occurred. These population shifts can be the result of degraded stream bed and/or a degraded riparian habitat. Excess sediment is the leading pollutant in streams and rivers of the United States (Harrington and Born 2000). Sediments fill pools and interstitial areas of the stream substrate, where invertebrates live, and cause invertebrate populations to decline and/or community compositions to be altered. Three important measures of physical habitat quality include epifaunal substrate cover, sediment deposition and channel alteration. A streambed with good epifaunal cover is characterized by a highly irregular and complex habitat composed of cobble, gravel, organic debris, etc. These conditions provide optimum

conditions for BMI organisms. Conversely, when a streambed has little epifaunal cover, a large amount of sediment deposition, or its banks have been altered, conditions for BMIs are generally not as good.

Techniques for measuring physical habitat were as follows:

1. Water temperature, specific conductance, pH, and dissolved oxygen were measured using a handheld YSI 556 MPS water quality meter that was pre-calibrated in the laboratory. A water sample was collected for alkalinity and analyzed using the USEPA's Titrimetric (pH 4.5) 3101 method in the lab.

2. Wetted width, and depth were measured in meters using a stadia rod or measuring tape at each transect.

3. The total length of the stream reach was measured in meters.

4. Substrate size class was measured at five evenly spaced points along each transect to the nearest millimeter.

5. Discharge was measured on a single transect, using a hand held flow meter, following the velocity area method specified in the SWAMP bioassessment protocol.

6. A handheld densitometer was used to measure percent canopy cover.

7. Flow habitat regimes were visually estimated.

8. Stream gradient was measured using either an auto level or clinometer.

Aquatic Bioassay field teams are audited each year for proficiency using the SWAMP protocols by the Southern California Coastal Research Project (SCCWRP) and for the Southern California Stormwater Monitoring Coalition's (SMC) Regional Monitoring Program.

**Sample Analysis/Taxonomic Identification of Benthic Macroinvertebrates (BMIs)**

Sample sorting and taxonomy were conducted by Aquatic Bioassay in Ventura, California. Identifications were made using standard taxonomic keys (Literature Cited, Taxonomic References) and in most cases, taxa for this study were identified to the species level in adherence with the Standard Taxonomic Effort (STE) Level 2a, specified by the Southwest Association of Freshwater Invertebrate Taxonomists (SAFIT). Chironomids were identified to subfamily. Identifications were rolled up to the appropriate taxonomic level for the

calculation of biological metrics used in the CSCI. Samples entering the lab were processed as follows:

600 organisms were sub-sampled from the composite sample using a Katon tray, and then sorted into major taxonomic groups. All remnants were stored for future reference. The 600 organisms were identified to the genus level for most insects, and order or class for non-insects. As new species to the survey area were identified, examples of each were added to the voucher collection. The voucher collection includes at least one individual of each species collected and ensures that naming conventions can be maintained and changed as necessary into the future.

The taxonomic QA/QC procedures followed for this survey included:

1. Sorting efficiencies were checked on all samples and a minimum required sorting efficiency was 95% (i.e. no more than 5% of the total number of organisms sorted from the grids could be left in the sub-sample) was maintained. At least 10% of all processed material from each sample was inspected by the laboratory supervisor for the aforementioned efficiency. Sorting efficiency results were documented on each station's sample tracking sheet.

2. Once identification work was completed, Aquatic Bioassay taxonomists conduct QC as follows:

    a. Ten percent of all stations sampled were randomly selected for internal QC by another Aquatic Bioassay taxonomist. Samples were checked for both enumeration and identification accuracy, which must both pass a 95% efficiency criterion. Discrepancies were resolved and the database was updated.

    b. Ten percent of all samples (n = 15 QC samples) collected each season in the southern California region (n = ~150 samples) by Aquatic Bioassay are sent to the California Department of Fish and Game (CDFG) offices in Chico California for an external QA/QC check. Samples were sorted by species into individual vials that included an internal label. Any discrepancies in counts or identification found by the CDFG taxonomists were discussed, and then resolved. All data sheets were corrected and, when necessary, bioassessment metrics were updated.

3. It is a requisite of our QC program that all staff members involved in taxonomy belong to SAFIT, an organization dedicated to the standardization of freshwater organism naming conventions.

**Sample Analysis/Taxonomic Identification of Attached Algae**

Samples for algal analysis were conducted by the Rhithron Associates, Inc. located in Missoula, MT. Laboratory identification procedures for soft algae and diatoms followed SWAMP protocols (Kociolek *et. al* 2011; Stancheva and Sheath, 2011) and are summarized as follows:

*Qualitative Soft Algae Analysis*

Using a dissecting scope, analysts performed a qualitative scan to identify as many microalga taxa as possible. Specimens were identified to species or lowest practical taxonomic level, and then photos were taken for all determined taxa.

*Quantitative Soft Macroalgae Analysis*

Using a dissecting scope, analysts processed samples to determine the representative portion of macroalgae (and mosses, vascular plant tissues or roots if present). Bio-volumes were determined by original water displacement. Specimens were identified to species or lowest practical taxonomic resolution.

*Quantitative Soft Microalgae Analysis*

Using a compound microscope, analysts enumerated 300-500 natural units of soft microalgae. Specimens were identified to species or lowest practical taxonomic resolution. The total bio-volumes of microalgae were calculated using appropriate literature (ie. Hillebrand *et al*. 1999) for measurement designations. Photos were taken of all taxa to compile a synoptic reference collection.

*Diatom Analysis*

Samples were prepared using the Nitric Acid diatom cleaning method. Cleaned diatom material was diluted to acceptable counting ranges and mounted onto slides. Completed slides were delivered to the processing analyst. Samples were enumerated to 600 valves and identified to the species, or lowest practical taxonomic resolution. Photos were taken of all taxa and a synoptic reference collection was made.

*Identification Quality Control*

Internal QC protocols included re-identification of the digital synoptic reference collection.

### Chlorophyll a and Ash Free Dry Mass of Attached Algae

Chlorophyll a (chl-a) and ash free dry mass (AFDM) analysis was conducted by Sierra Environmental (Reno, NV).

| Laboratory | AFDM | Chl a |
|---|---|---|
| Silver State Analytical Laboratories | SM 2540 | SM 10200 |

### Data Development and Analysis

*Benthic Macroinvertebrate Biological Metrics:*

As species were identified and counted, they were included in an Excel data sheet, checked for errors, and then imported into the Aquatic Bioassay BMI database system. The California Stream Condition Index (CSCI) and metrics were calculated using GIS and the CSCI package 1.1.2 R script (Mazor et al., 2015). The following metrics were calculated and their responses to impaired conditions are listed in Table 2:

- Percent Clinger Taxa is the percent of taxa in a sample that are adapted for attachment to plants or other hard surfaces in flowing water. A higher number of clinger taxa is indicative of a healthier community than if absent.
- Percent Coleoptera Taxa is the percent of taxa in a sample comprised of beetles (Coleoptera). This order is generally sensitive to impairment and when present, are usually indicative of a healthier community than if absent.
- Taxonomic Richness is a measure of the total number of species found at a site. This relatively simple index can provide much information about the integrity of the community. Few taxa at a site indicate that some species are being excluded, while a large number of taxa indicate a healthier community.
- Percent EPT Taxa is the percent of taxa in sample comprised of mayflies (Ephemeroptera), stoneflies (Plecoptera) and caddisflies (Trichoptera). These orders are generally sensitive to impairment and when present, are usually indicative of a healthier community than if any or all are absent.
- Shredder Taxa is the percent of taxa that shreds coarse particulate matter. Functional Feeding Group (FFG) indices provide information regarding the balance of feeding strategies represented in an aquatic assemblage. Shredder taxa are

generally sensitive to disturbance and increased number of taxa generally indicate a healthier community.

- Percent Intolerant Individuals is the percent of organisms in the sample that are highly intolerant to impairment. BMI species are assigned a literature cited tolerance value ranging from 0 (highly intolerant) to 10 (highly tolerant). The percent intolerant individuals have tolerance values ranging from 0 to 2. A site with many intolerant organisms is considered more pristine and indicate a healthier community.

Table 2. Bioassessment metrics used to describe characteristics of the BMI community.

| MMI Metric | Description | Response to Impairment |
|---|---|---|
| % Clinger Taxa | Percent of taxa that are adapted for attachment to surfaces in flowing water. | Decrease |
| % Coleoptera Taxa | Percent taxa from the insect order coleoptera. | Decrease |
| Taxonomic Richness | Total number of individual taxa. | Decrease |
| % EPT Taxa | Percent taxa in the orders Ephemeroptera (mayfly), Plecoptera (stonefly) and Trichoptera (caddisfly). | Decrease |
| Shredder Taxa | Number of taxa that shreds coarse particulate matter. | Decrease |
| % Intolerant Individuals | Percent of organisms in the sample that are highly intolerant to impairment as indicated by a tolerance value of 0, 1, or 2. | Decrease |

*California Stream Condition Index (CSCI)*

The California Stream Condition Index (CSCI) is a new statewide biological scoring tool that translates complex data about benthic macroinvertebrates (BMIs) found living in a stream into an overall measure of stream health (Mazor et al. 2016). The CSCI combines two separate types of indices, each of which provides unique information about the biological condition at a stream: a multi-metric index (MMI) that measures ecological structure and function, and an observed-to-expected (O/E) index that measures taxonomic completeness. Unlike previous MMI or O/E indices that were applicable only on a regional basis or under-represented large portions of the state, the CSCI was built with a statewide dataset (n = 1,985 sites) that represents the broad range of environmental conditions across California.

The CSCI was calibrated during its development so that the mean score of reference sites is 1. Scores that approach 0 indicate great departure from reference condition and degradation of biological condition. Scores > 1 can be interpreted to indicate greater taxonomic richness and more complex ecological function than predicted for a site given its natural environmental setting. In practice, CSCI scores observed from nearly 2000 study reaches sampled across California range from about 0.1 to 1.4. Mazor (et al. 2016) and Rhen (2015) suggested that for the purposes of making statewide assessments, three thresholds be established based on the 30th; 10th; and 1st percentiles of CSCI scores at reference sites. These three thresholds divide the CSCI scoring range into 4 categories of biological condition as follows: ≥0.92 = likely intact condition; 0.91 to 0.80 = possibly altered condition; 0.79 to 0.63 = likely altered condition; ≤0.62 = very likely altered condition. While these ranges do not represent regulatory threshold, they provide a useful method for interpreting CSCI results.

*Historical Southern California CSCI scores:*

To assess the condition of BMI communities at all stations over time, CSCI scores were averaged (± 95% CI) by station for surveys conducted between the 2015 through 2019. This historical data is presented in Figure 5.

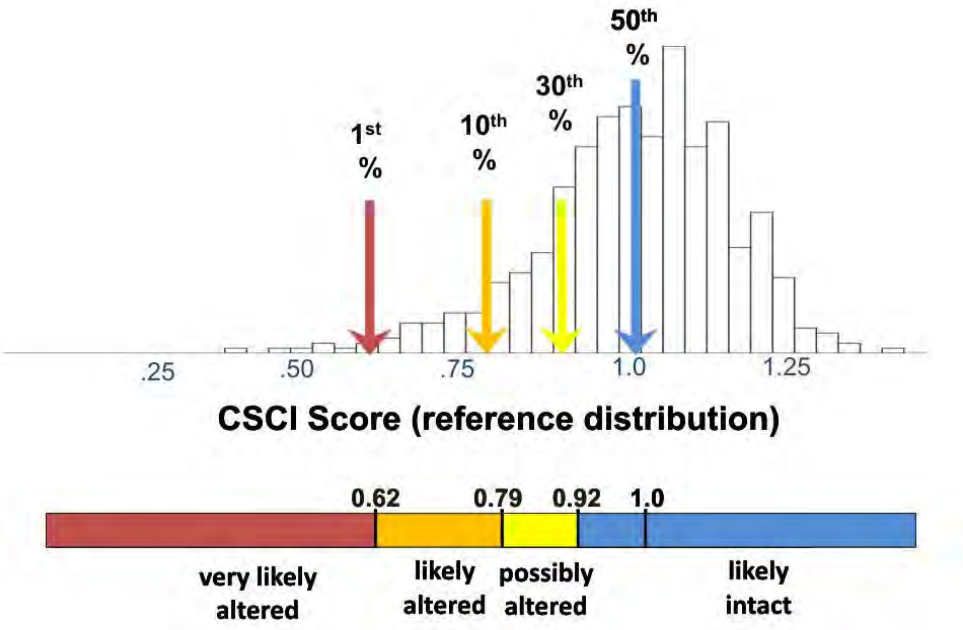



Figure 2. Distribution of CSCI scores at CA reference sites with thresholds and condition categories (Rhen et al., 2015).

*Southern California Algae IBI (SoCA Algae IBI)*

Soft-bodied algae and diatom community structure can be used to assess many aspects of stream water quality including the effects of nutrient loading and other contaminants (e.g. dissolved metals and organics). The Southern California Coastal Water Research Project (SCCWRP) scientists recently created the Southern California Algae IBI which is similar to the one used for BMIs to assess anthropogenic impacts (Fetscher et al. 2013). Algae samples were collected from 2007 thru 2010 at a total of 451 distinct southern California stream reaches were used to develop the IBI scoring system. The SoCA Algal IBI is composed of three indices; a diatom IBI (D18) is based solely on diatom metrics, a soft algae IBI (S2) is based solely on non-diatom (soft) algae metrics, and a hybrid (H20) of both diatom and soft bodied algae metrics. IBIs are composed of metrics chosen for their ability to differentiate between reference and non-reference stream conditions. Table 3 shows the metrics that were used to calculate the SoCA Algae IBI and their responses to human disturbance.

The boundary chosen to delineate between reference and non-reference condition (57 on a scale from 0 to 100) was based purely on statistical grounds, and was calculated as two standard deviations below the mean distribution of reference sites. As a result, it does not

represent an ecologically meaningful change point in community composition and cannot be used in a regulatory framework (e.g. to evaluate attainment of water body “aquatic life” goals; Fetscher et al. 2013).

Table 3. Diatom and soft bodied algae metrics used in the SoCA Algae IBI (grayed) and their responses to human disturbance.

| Metric Category | Metric Theme | Metric | Data Type | Description | Response to Human Disturbance |
|---|---|---|---|---|---|
| **Diatom** | | | | | |
| Autecological Guild | Dissolved Oxygen | Proportion Requiring Nearly 100% DO | Proportion of Valves | Proportion of valves that require nearly 100% DO saturation | Decrease |
| | | Proportion Requiring >50 % DO | Proportion of Valves | Proportion of valves that require at least 50 % DO saturation (sum 50+75+100) | Decrease |
| | Ionic Strength/Salinity | Proportion Halobiontic | Proportion of Valves | Proportion of valves that are brackish-fresh + brackish (i.e., they have a tolerance of, or requirements for, dissolved salt) | Increase |
| | Nutrients | Proportion Poly- & Eutrophic | Proportion of Valves | Proportion of valves that are polytrophic + eutrophic | Increase |
| | Organic Pollution | Proportion Nitrogen Heterotrophs | Proportion of Valves | Proportion of valves that are heterotrophs (includes both obligate and facultative heterotrophs) | Increase |
| | | Proportion Oligo- & Beta-mesosaprobic | Proportion of Valves | Proportion of valves that are oligosaprobous + (beta-mesosapprobus) | Decrease |
| Morphologic Guild | Sedimentation | Proportion of Highly Motile | Proportion of Valves | Proportion of valves that are highly motile | increase |
| | | Proportion of Sediment Tolerant (highly motile) | Proportion of Valves | Proportion of valves for which there is information that are highly motile ( NOT moderately) + all planktonic | increase |
| Taxonomic Group | A. minutissimum | Proportion A. minutissimum | Proportion of Valves | Proportion of the valves that are Achnanthidium minutissimum | Decrease |
| Tolerance/Sensitivity | Nitrogen | Proportion of Low TN Indicators | Proportion of Valves | Proportion of valves that are indicators for high TN levels (>3 mg/L) | Decrease |
| | Phosphorous | Proportion of Low TP Indicators | Proportion of Valves | Portion of valves that are indicators for high TP levels (>0.1 mg/L) | Decrease |
| **Soft Algae** | | | | | |
| Relationship to Reference | Reference | Proportion of "non-reference" Indicators (Biovolume) | Relative Biovolumes | Proportion of total micro + macro biovolume composed of indicators of "non-reference" sites | Increase |
| | | Proportion "non-reference" Indicators (Species) | Relative Species Numbers | Proportion of total species richness composed of indicators of "non-reference" sites | Increase |
| Taxonomic Group | Chlorphyta | Proportion Chlorophyta | Relative Biovolumes | Proportion of total micro + macro biovolume composed of Chlorophyta | Increase |
| | | Proportion of green algae belonging to CRUS | Relative Biovolumes | Proportion of green algae (Chlorophyta + Charophyta) micro + macro biovolume composed of Cladophora golmerata, Rhizoclonium hieroglyphicum, Ulva flexosa, and Stigeoclonium sp. | Increase |
| | ZygnHeteroRhod | Proportion ZHR (Mean) | Relative Species Number and Biovolumes | Mean of scores for the corresponding species number and biovolume metrics | Decrease |
| | | Proportion ZHR (Biovolume) | Relative Biovolumes | Zygnemataceae + Heterocystous Cyanobacteria + Rhodopyta | Decrease |
| Tolerance/Sensitivity | Copper | Proportion of High Cu Indicators | Relative Species Numbers | Proportion of total species richness composed of high copper (dissolved) indicators | Increase |
| | Organic Pollution | Proportion High DOC Indicators (Biovolume) | Relative Biovolumes | Proportion of total micro + macro biovolume composed of indicators of high DOC | Increase |
| | | Proportion High DOC Indicators (Species) | Relative Species Numbers | Proportion of total species richness composed of high DOC indicators | Increase |
| | Phosphorous | Proportion of Low TP Indicators | Relative Species Numbers | Proportion of total species richness composed of low TP indicators | Decrease |

# Results

### Physical Habitat Characteristics and Water Chemistry

*Malibu Creek Watershed above Malibu Lagoon*

*General Physical Habitat Characteristics*

The physical characteristics of the reaches sampled in Malibu Creek during the summer 2019 survey are presented in Table 5.

- The reach length was a maximum 150 m at each site, except at R-9 where the reach length was reduced to 110 m due to drying. The average wetted width was greatest at R-2 (7.3 m) and was least at R-7 (3.0 m). Average depth was greatest at R-1 (37.5 cm) and was least at R-3 (8.2 cm). Stream discharge was low at all sites ranging from < 0.01 $m^3/s$ (R-13 and R-9) to 0.10 $m^3/s$ at R-4. The slope of all stations ranged from 0.02% (R-1) to 1.73% (R-3).
- Vegetative canopy cover ranged from 76% at R-7 on Las Virgenes Creek, to 0% at R-9. The average thickness of microalgae was low across sites, ranging from 0.00 to 0.13 mm. The presence of macroalgae was greatest at R-9 (55%) and least at R-1 (0%). The presence of macrophytes ranged from 0% at R-3 to 19% at R-1.
- Bank stability is the observed potential of a bank to erode. All the stations sampled were considered at least vulnerable to erosion (14% to 100%). Stations R-1 and R-7 were not stable (0%), while all other stations were partially or highly stable (range = 27% to 77%). Station R-7 had banks that were 86% eroded, while erosion ranged from 0% to 18% at all other stations.
- Flow habitats were represented by combinations of riffles, glides and pools. Glides (15% to 73%) were the most predominant flow habitats. Riffle habitats ranged from 0% at station R-9 to 53% at R-3. Pool habitat dominated at R-1 and R-9 (56% and 20%, respectively) and was much lower at all other stations (range = 0% to 7%).
- The substrate class size is another indicator of available benthic invertebrate habitat. Mixtures of gravel, sand and fines were prevalent at each of the seven stations. Cobbles and boulders were more prevalent at the downstream stations (R-4, R-3 and R-13). Bedrock was found at R-13 and R-9 only. Roots (‘Other’) were present across all stations.

*Water Quality Measures*

Water quality measures were within ranges typical of southern California streams (Table 5).

- Water temperatures ranged from 20.2 °C at R-3 to 24.7 °C at R-9.
- pH was similar across sites ranging from 7.8 to 8.1
- Alkalinity ranged from 214 mg/L at R-2 to 410 mg/L at R-7, the most upstream site.
- Dissolved oxygen concentrations ranged from 5.6 mg/L at R-9 to 7.9 mg/L at R-4.
- Specific conductance ranged from 2,115 µS/cm, at station R-4, to 3,625 µS/cm at station R-7 on Las Virgenes Creek.
- Salinities were elevated compared to most freshwater stream systems (≤ 0.5 ppt) and ranged from 1.10 ppt at R-3 to 1.91 ppt at R-7.

*Algal Biomass*

- Ash free dry mass (AFDM) and chlorophyll-a were also measured at all freshwater stations to estimate algal biomass. The AFDM ranged from 1.7 mg/cm² at R-3 to 13.0 mg/cm² at R-9. Chlorophyll-a was least at R-13 (2.2 µg/cm²) and greatest at R-7 (27.0 µg/cm²).

*Physical/Habitat (P-Hab) Scores*

Out of a total possible score of 60, the physical habitat scores for most stations were in the suboptimal range. Station R-1 was in the marginal range (28) mostly due to the lack of instream cover and sediment deposition (Table 5 and Figure 3). Station R-3 was in the optimal range (51) due to increased instream cover and less channel alteration.

*Malibu Lagoon (Station R-11)*

*General Physical Habitat Characteristics*

Malibu Lagoon Station R-11 represents an estuary habitat that cannot be directly compared to the riparian habitats found at the upstream stations. This site is subject to highly variable conditions including freshwater inundation periods when the berm at the mouth of Lagoon is closed, shallow brackish water periods when the berm is open and large shifts in salinity depending on the status of the berm in conjunction with tidal fluctuations. The organisms

that reside under these conditions are different than those found in freshwater stream systems and are generally adapted to these rapidly changing conditions.

*Water Chemistry*

The water level during the sampling event was relatively shallow (1.2 m) and had elevated water temperature (26.5 °C) (Table 4). Water quality conditions were typical of estuary conditions, with the salinity (8.52 ppt) indicating some tidal influence at the time of the sampling event. The dissolved oxygen was normal during sampling (7.48 mg/L).

Table 4. Physical habitat scores and characteristics for reaches in the Malibu Creek Watershed.

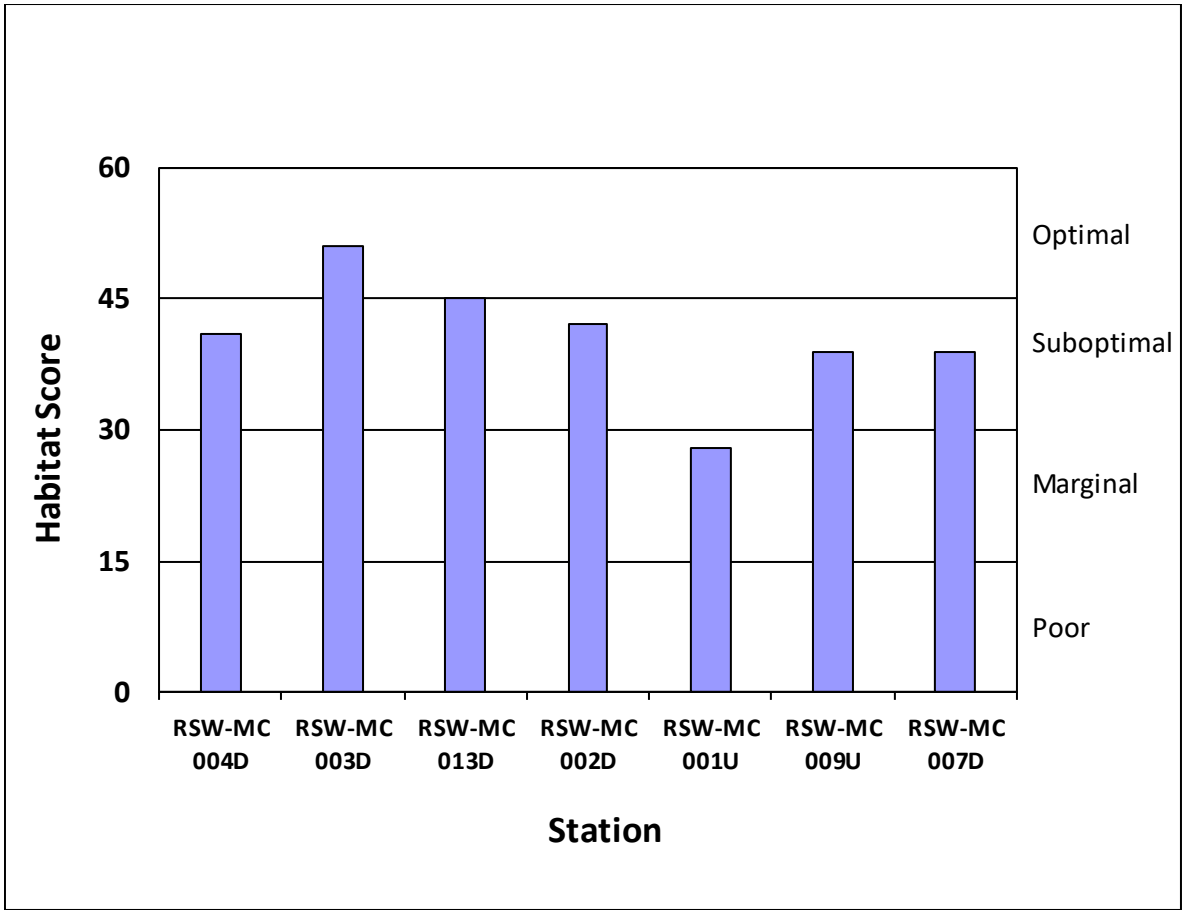
| Station | RSW-MC 011D | RSW-MC 004D | RSW-MC 003D | RSW-MC 013D | RSW-MC 002D | RSW-MC 001U | RSW-MC 009U | RSW-MC 007D |
|---|---|---|---|---|---|---|---|---|
| **Physical Habitat Characteristics** | | | | | | | | |
| Reach Length (m) | NA | 150 | 150 | 150 | 150 | 150 | 110 | 150 |
| Average Wetted Width (m) | NA | 6.0 | 5.9 | 6.6 | 7.3 | 6.4 | 4.8 | 3.0 |
| Average Depth (cm) | 1.2 | 13.7 | 8.2 | 16.1 | 20.9 | 37.5 | 15.7 | 9.7 |
| Average Velocity (ft/s) | NA | 0.74[1.] | 0.82[1.] | <0.01 | 0.14 | 0.68 | <0.01 | 0.27 |
| Discharge ($m^3/s$) | NA | 0.10[1.] | 0.07[1.] | <0.01 | 0.03 | 0.05 | <0.01 | 0.02 |
| Slope (%) | NA | 1.55 | 1.73 | 1.20 | 0.60 | 0.02 | 1.20 | 0.80 |
| Vegetative Canopy Cover (%) | NA | 3 | 55 | 35 | 65 | 59 | 0 | 76 |
| Microalgae Mean Thickness (mm) | NA | 0.03 | 0.02 | 0.13 | 0.02 | 0.03 | 0.00 | 0.10 |
| Macroalgae Presence (%) | NA | 6 | 1 | 11 | 1 | 0 | 55 | 24 |
| Macrophyte Presence (%) | NA | 4 | 0 | 3 | 2 | 19 | 1 | 4 |
| Bank Stability (%): | | | | | | | | |
| Stable | NA | 41 | 77 | 73 | 55 | 0 | 27 | 0 |
| Vulnerable | NA | 41 | 23 | 14 | 41 | 100 | 73 | 14 |
| Eroded | NA | 18 | 0 | 14 | 5 | 0 | 0 | 86 |
| Flow Habitats (%): | | | | | | | | |
| Cascade/Fall | NA | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rapid | NA | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Riffle | NA | 27 | 53 | 42 | 23 | 19 | 0 | 50 |
| Run | NA | 0 | 0 | 0 | 0 | 10 | 0 | 0 |
| Glide | NA | 67 | 46 | 51 | 70 | 15 | 73 | 50 |
| Pool | NA | 5 | 1 | 7 | 7 | 56 | 20 | 0 |
| Dry | NA | 1 | 0 | 0 | 0 | 0 | 7 | 0 |
| Substrate Size (%): | | | | | | | | |
| Bedrock | NA | 0 | 0 | 3 | 0 | 0 | 10 | 0 |
| Boulder | NA | 5 | 17 | 25 | 8 | 1 | 1 | 0 |
| Cobble | NA | 21 | 17 | 6 | 4 | 7 | 3 | 4 |
| Gravel | NA | 37 | 31 | 11 | 13 | 11 | 44 | 54 |
| Sand | NA | 11 | 2 | 11 | 31 | 11 | 9 | 10 |
| Fines | NA | 20 | 22 | 30 | 30 | 60 | 32 | 17 |
| Hardpan | NA | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood | NA | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| Other | NA | 6 | 11 | 14 | 13 | 10 | 1 | 12 |
| **Water Quality Measures[2.]** | | | | | | | | |
| Water Temperature (C°) | 26/26.5 | 20.8 | 20.2 | 19.4 | 21.4 | 21.5 | 24.7 | 21.1 |
| pH | 8.5/8.55 | 8.1 | 7.9 | 7.8 | 7.9 | 8.0 | 7.9 | 7.8 |
| Alkalinity | NA | 281 | 296 | 350 | 214 | 310 | 258 | 410 |
| DO | 7.48/6.27 | 7.9 | 6.8 | 7.7 | 7.5 | 5.7 | 5.6 | 7.2 |
| Specific Conductance (µS/cm) | 805/14703 | 2115 | 2147 | 2392 | 2654 | 2746 | 2201 | 3625 |
| Salinity (ppt) | 0.39/8.52 | 1.09 | 1.1 | 1.24 | 1.37 | 1.43 | 1.13 | 1.91 |
| Ash Free Dry Mass ($mg/cm^2$) | NA | 5.2 | 1.7 | 7.4 | 11.0 | 5.0 | 13.0 | 6.3 |
| Chlorophyll a ($\mu g/cm^2$) | NA | 19.0 | 4.6 | 2.2 | 19.0 | 7.1 | 8.4 | 27.0 |

1. Calculated using buoyant object method (Ode *et al.,* 2016)
2. Surface/Bottom depths

Table 5. Physical habitat assessment for the Malibu Creek Watershed above Malibu Lagoon.

| Habitat Parameter | RSW-MC 004D | RSW-MC 003D | RSW-MC 013D | RSW-MC 002D | RSW-MC 001U | RSW-MC 009U | RSW-MC 007D |
|---|---|---|---|---|---|---|---|
| 1. Instream Cover | 12 | 17 | 14 | 14 | 7 | 12 | 15 |
| 2. Sediment Deposition | 14 | 16 | 15 | 13 | 6 | 8 | 13 |
| 3. Channel Alteration | 15 | 18 | 16 | 15 | 15 | 19 | 11 |
| **Reach Total** | **41** | **51** | **45** | **42** | **28** | **39** | **39** |
| **Condition Category** | **Suboptimal** | **Optimal** | **Suboptimal** | **Suboptimal** | **Marginal** | **Suboptimal** | **Suboptimal** |

Figure 3. Physical habitat assessment scores for the Malibu Creek Watershed above Malibu Lagoon.



## Biological Condition

*Benthic Macroinvertebrate (BMI) Community Condition*

A complete BMI taxa list including raw abundances, tolerance values, and functional feeding groups are presented by site for the summer 2019 survey in Appendix A, Table 12. The ranked abundances of all taxa at each site are presented in Table 6. New Zealand mud snail abundances from 2007 to 2019 are presented in Table 7. The CSCI scores, including their derivative metrics, are presented in Table 8 and Figure 4.

*Community Composition*

A combined total of 5,024 BMIs was identified from 47 different taxa at the eight stations sampled during the summer 2019 survey. Ninety seven percent of the organisms collected at station R-11 in Malibu Lagoon were seed shrimp (Ostracoda) (Table 6). At the upstream stations, combinations of disturbance tolerant organisms represented the majority of the abundances with three to ten taxa representing 80% the total abundance. Some of the most abundant taxa across all stations included clams (*Corbicula sp*.), amphipods (*Hyalella sp.)*, midges (Chironominae), nemertean worms (*Prostoma sp*.), mayflies (*Baetis sp*.) and New Zealand mud snails (NZMS, *Potamopyrgus antipodarum*).

In 2019, the NZMS were found at R-3 (n = 24), R-13 (n = 30), R-1 (n=238), and R-7 (n = 19) (Table 7). Stations downstream of the discharge had on average, fewer NZMS over the thirteen-year period since 2007 (average range = 20 to 43). Average NZMS abundances since 2007 were greatest at R-1 (n = 114) and R-7 (n = 151). NZMS were not collected at R-9, which was similar to past years.

*CSCI Score*

The CSCI scores, along with its component MMI and O/E scores are presented in Table 8 and Figure 4. CSCI scores at R-4, R-2, and R-1 indicated a relatively good biotic condition category ranking of “possibly altered” (> 0.79) putting them within the 10$^{th}$ percentile of the reference distribution of stations. Since R-1 and R-2 are located above and below the TWRP discharge point, it indicates the discharge was not affecting the BMI communities. Stations R-3, R-13 and R-7 had CSCI scores with category scores in the “likely altered” ranking. Station R-9 had the poorest CSCI score indicating a biotic condition of “very likely altered”.

The two component indices of the CSCI are the MMI and O/E scores (Table 8 and Figure 4). The MMI scores across sites were low (range = 0.53 to 0.65) and were not similar to the reference pool (MMI percentiles = 0.00 to 0.02). This is indicative of streams where the

ecological structure of the system has been disturbed. In contrast, the O/E scores ranged from lowest at R-9 (0.65) to greatest at R-2 and R-1 (1.16 each). These results indicate that while taxonomic completeness at some of the sites is relatively good, the ecological structure and function of the sites is disturbed.

*2015 to 2019 (Historical Data)*

CSCI results from 2015 to 2019 for the Malibu Creek Watershed are presented in Figure 5. During the five years, the average score across sites fell below 0.79 indicating they are "likely altered". On average the CSCI scores during the period were slightly better at stations near the TWRP outfall.

*Malibu Creek Lagoon (R-11)*

Only six taxa, were collected at R-11 in the Malibu Creek Lagoon (Table 9). The most abundant (87%) was represented by seed shrimp (Ostracoda).

*Attached Algae Community Condition*

Below we present the results for the attached algae community analysis for each site. Each of the metrics used to calculate the diatom (D18), soft bodied algae (S2) and hybrid (H2O) IBI scores are presented in Table 10 (Fetscher et al. 2013). Table 11 shows the rank scores and adjusted IBI score for each metric by station, while Figure 6 graphically depicts the SoCA Algae IBI (H2O) and its component scores for soft algae (S2) and diatoms (D18).

*Diatom (D18) and Soft Bodied (S2) Algae Metrics and IBI Scores*

Diatoms include mostly unicellular species that are housed in a silica frustule and live as phytoplankton or as a film on the surface of rocks and other hard substrates. A total of 110 diatom taxa were collected from the survey area in 2019 (Appendix A, Table 13). Of these, three classes were represented; 93 taxa in the class Bacillariophyceae, 7 in the class Coscinodiscophyceae, and 10 in the Fragilariophyceae. The diatom IBI (D18) was low at all eight stations (Table 10 and Table 11). The highest scores were measured at R-7 (54) and lowest at R-1 (8) above the outfall (Figure 6).

The soft-bodied algae (macroalgae) are composed of filamentous forms that make up large volumes of a sample and are those species that are generally easily seen as filamentous mats in the streambed. In 2019 a total of 44 taxa from 15 different classes were enumerated (Appendix A, Table 14). Similar to the D18 index, the adjusted soft bodied algae IBI (S2) was low at all sites (range = 15 to 47) (Table 10 and Table 11). The highest score was measured at R-1 (47), just above the outfall and the lowest score was at R-4 and R-9 (15 each) (Figure 6).

*SoCA Algae IBI*

The SoCA Algae IBI scores for each site were low and well below the reference threshold (>57) (Table 11 and Figure 6). The greatest IBI scores were at station R-7 (34), and R-4 and R-3 (33 each). The other stations scores ranged from 14 to 21. Scores above (R-1 = 19) and below (R-2 = 21) the TWRF outfall were similar. The biological condition of the algae communities in this reach of Malibu Creek was poor with no clear evidence that the TWRP outfall is contributing to this condition.

Table 6. Ranked taxonomic abundance of organisms collected during BMI surveys at each station within the Malibu Creek watershed.

| RSW-MC011D | | | RSW-MC004D | | | RSW-MC003D | | | RSW-MC013D | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Species | % of Total Abund | Cumulative % Abund | Species | % of Total Abund | Cumulative % Abund | Species | % of Total Abund | Cumulative % Abund | Species | % of Total Abund | Cumulative % Abund |
| Ostracoda | 97.5 | 97.5 | Ostracoda | 31.5 | 31.5 | Baetis | 19.7 | 19.7 | Chironominae | 36.7 | 36.7 |
| Oligochaeta | 1.7 | 99.2 | Chironominae | 21.1 | 52.6 | Hydropsyche | 18.0 | 37.7 | Hyalella | 19.6 | 56.3 |
| Orthocladiinae | 0.3 | 99.5 | Corbicula | 12.0 | 64.6 | Fallceon | 7.8 | 45.5 | Ostracoda | 13.0 | 69.3 |
| Prostoma | 0.2 | 99.7 | Baetis | 6.6 | 71.2 | Oligochaeta | 6.6 | 52.1 | Hydroptila | 9.4 | 78.7 |
| Corixidae | 0.2 | 99.9 | Oligochaeta | 6.3 | 77.5 | Caloparyphus/Euparyphus | 6.4 | 58.4 | Corbicula | 5.1 | 83.8 |
| Chironominae | 0.2 | 100.0 | Hydropsyche | 4.2 | 81.6 | Corbicula | 6.1 | 64.5 | Potamopyrgus antipodarum | 4.3 | 88.1 |
| | | | Sperchon | 2.8 | 84.4 | Sperchon | 4.9 | 69.4 | Simulium | 2.8 | 90.9 |
| | | | Hydroptila | 1.9 | 86.3 | Hydroptila | 4.5 | 73.9 | Baetis | 2.1 | 93.0 |
| | | | Prostoma | 1.8 | 88.1 | Prostoma | 3.9 | 77.8 | Tanypodinae | 1.8 | 94.8 |
| | | | Tanypodinae | 1.6 | 89.7 | Potamopyrgus antipodarum | 3.8 | 81.6 | Caloparyphus/Euparyphus | 0.9 | 95.7 |
| | | | Atrichopogon | 1.2 | 90.9 | Tinodes | 3.4 | 84.9 | Hydropsyche | 0.7 | 96.4 |
| | | | Caloparyphus/Euparyphus | 1.1 | 92.0 | Ochrotrichia | 3.0 | 87.9 | Hydroptilidae | 0.7 | 97.1 |
| | | | Callibaetis | 0.9 | 92.9 | Atrichopogon | 1.6 | 89.5 | Orthocladiinae | 0.7 | 97.8 |
| | | | Anopheles | 0.9 | 93.8 | Chironominae | 1.6 | 91.1 | Bezzia/Palpomyia | 0.6 | 98.4 |
| | | | Hydrobiidae | 0.9 | 94.7 | Ostracoda | 1.6 | 92.7 | Fallceon | 0.4 | 98.8 |
| | | | Turbellaria | 0.9 | 95.5 | Baetis adonis | 1.3 | 94.0 | Atrichopogon | 0.3 | 99.1 |
| | | | Physa | 0.9 | 96.4 | Pericoma/Telmatoscopus | 1.3 | 95.3 | Physa | 0.3 | 99.4 |
| | | | Tinodes | 0.7 | 97.1 | Turbellaria | 0.8 | 96.1 | Prostoma | 0.3 | 99.7 |
| | | | Ochrotrichia | 0.5 | 97.6 | Hyalella | 0.6 | 96.7 | Hemerodromia | 0.1 | 99.8 |
| | | | Hemerodromia | 0.4 | 98.0 | Argia | 0.5 | 97.2 | Turbellaria | 0.1 | 100.0 |
| | | | Simulium | 0.4 | 98.4 | Hemerodromia | 0.5 | 97.7 | | | |
| | | | Hyalella | 0.4 | 98.8 | Orthocladiinae | 0.5 | 98.1 | | | |
| | | | Dasyhelea | 0.2 | 99.0 | Psychodidae | 0.5 | 98.6 | | | |
| | | | Culicidae | 0.2 | 99.1 | Hydropsychidae | 0.3 | 98.9 | | | |
| | | | Coenagrionidae | 0.2 | 99.3 | Tricorythodes explicatus | 0.3 | 99.2 | | | |
| | | | Orthocladiinae | 0.2 | 99.5 | Ephydridae | 0.2 | 99.3 | | | |
| | | | Ceratopogonidae | 0.2 | 99.7 | Hydroptilidae | 0.2 | 99.5 | | | |
| | | | Pericoma/Telmatoscopus | 0.2 | 99.9 | Petrophila | 0.2 | 99.7 | | | |
| | | | Bezzia/Palpomyia | 0.2 | 100.0 | Tanypodinae | 0.2 | 99.9 | | | |
| | | | | | | Tipulidae | 0.2 | 100.0 | | | |
| TOTAL | 100 | | | 100 | | | 100 | | | 100 | |

| RSW-MC002D | | | RSW-MC001U | | | RSW-MC009U | | | RSW-MC007D | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Species | % of Total Abund | Cumulative % Abund | Species | % of Total Abund | Cumulative % Abund | Species | % of Total Abund | Cumulative % Abund | Species | % of Total Abund | Cumulative % Abund |
| Chironominae | 21.6 | 21.6 | Potamopyrgus antipodarum | 33.1 | 33.1 | Hyalella | 54.7 | 54.7 | Hyalella | 69.5 | 69.5 |
| Simulium | 12.2 | 33.8 | Corbicula | 11.4 | 44.5 | Chironominae | 14.0 | 68.7 | Oligochaeta | 8.9 | 78.4 |
| Prostoma | 11.2 | 45.0 | Coenagrionidae | 8.3 | 52.8 | Oligochaeta | 6.8 | 75.5 | Chironominae | 4.5 | 82.9 |
| Hydropsyche | 11.1 | 56.1 | Prostoma | 8.2 | 61.0 | Bezzia/Palpomyia | 6.2 | 81.7 | Potamopyrgus antipodarum | 3.1 | 86.0 |
| Corbicula | 10.7 | 66.8 | Hydropsyche | 7.4 | 68.4 | Physa | 4.5 | 86.2 | Physa | 2.6 | 88.6 |
| Tanypodinae | 8.9 | 75.7 | Chironominae | 6.4 | 74.8 | Ostracoda | 3.3 | 89.5 | Tanypodinae | 2.2 | 90.8 |
| Hyalella | 8.2 | 83.9 | Oligochaeta | 5.6 | 80.4 | Tanypodinae | 2.2 | 91.7 | Simulium | 1.7 | 92.5 |
| Bezzia/Palpomyia | 3.7 | 87.6 | Baetis | 2.5 | 82.9 | Caloparyphus/Euparyphus | 1.7 | 93.4 | Ostracoda | 1.2 | 93.7 |
| Sperchon | 3.4 | 91.0 | Sperchon | 2.2 | 85.1 | Piona | 1.7 | 95.1 | Prostoma | 1.0 | 94.7 |
| Oligochaeta | 2.0 | 93.0 | Ostracoda | 2.1 | 87.2 | Coenagrionidae | 1.0 | 96.1 | Baetis | 0.8 | 95.5 |
| Mideopsis | 1.8 | 94.8 | Tanypodinae | 2.1 | 89.3 | Callibaetis | 0.8 | 96.9 | Sperchon | 0.8 | 96.3 |
| Hydroptila | 1.5 | 96.3 | Hydroptila | 1.9 | 91.2 | Limnesia | 0.8 | 97.7 | Turbellaria | 0.8 | 97.1 |
| Ostracoda | 1.0 | 97.3 | Bezzia/Palpomyia | 1.5 | 92.7 | Hydroptila | 0.7 | 98.4 | Argia | 0.7 | 97.8 |
| Baetis | 0.8 | 98.1 | Hyalella | 1.5 | 94.2 | Anopheles | 0.5 | 98.8 | Bezzia/Palpomyia | 0.7 | 98.5 |
| Hemerodromia | 0.5 | 98.6 | Physa | 1.5 | 95.7 | Hydroptilidae | 0.3 | 99.1 | Hydroptilidae | 0.5 | 99.0 |
| Orthocladiinae | 0.5 | 99.1 | Turbellaria | 1.5 | 97.2 | Ceratopogonidae | 0.2 | 99.3 | Coenagrionidae | 0.3 | 99.3 |
| Physa | 0.3 | 99.4 | Mideopsis | 0.7 | 97.9 | Mideopsis | 0.2 | 99.5 | Hydropsyche | 0.3 | 99.6 |
| Atrichopogon | 0.2 | 99.6 | Simulium | 0.6 | 98.5 | Paltothemis lineatipes | 0.2 | 99.7 | Hydropsychidae | 0.3 | 100.0 |
| Caloparyphus/Euparyphus | 0.2 | 99.8 | Fallceon | 0.4 | 98.9 | Sanfilippodytes | 0.2 | 99.8 | | | |
| Ochrotrichia | 0.2 | 100.0 | Hemerodromia | 0.4 | 99.3 | Tricorythodes explicatus | 0.2 | 100.0 | | | |
| | | | Atrichopogon | 0.3 | 99.6 | | | | | | |
| | | | Orthocladiinae | 0.3 | 99.9 | | | | | | |
| | | | Anax | 0.1 | 100.0 | | | | | | |
| TOTAL | 100 | | | 100 | | | | | | 100 | |

Table 7. Abundances of New Zealand mud snails at sites in the Malibu Creek Watershed from 2007 to 2019.

| Year | Station | | | | | | | Combined Annual Total |
|---|---|---|---|---|---|---|---|---|
| | RSW-MC 004D | RSW-MC 003D | RSW-MC 013D | RSW-MC 002D | RSW-MC 001U | RSW-MC 009U | RSW-MC 007D | |
| 2007 | 52 | 15 | 196 | 138 | 122 | 0 | 157 | 680 |
| 2008 | 4 | 0 | 0 | 7 | 0 | 0 | 2 | 13 |
| 2009 | 42 | 69 | 73 | 201 | 37 | 0 | 23 | 445 |
| 2010 | 37 | 18 | 190 | 62 | 371 | 0 | 273 | 951 |
| 2011 | 5 | 13 | 12 | 77 | 86 | 6 | 112 | 311 |
| 2012 | 110 | 4 | 2 | 57 | 22 | 0 | 110 | 305 |
| 2013 | 0 | 0 | 13 | 4 | 7 | DRY | 346 | 370 |
| 2014 | 0 | 0 | 0 | 2 | 5 | 0 | 176 | 183 |
| 2015 | Dry | 3 | 2 | 5 | 20 | DRY | 394 | 424 |
| 2016 | 76 | 77 | 0 | 0 | 193 | DRY | 177 | 523 |
| 2017 | 0 | 2 | 2 | 6 | 65 | 0 | 171 | 246 |
| 2018 | 8 | 38 | 0 | 0 | 313 | Dry | 0 | 359 |
| 2019 | 0 | 24 | 30 | 0 | 238 | 0 | 19 | 311 |
| ***average =*** | **28** | **20** | **40** | **43** | **114** | **1** | **151** | **394** |

Table 8. The CSCI scores and categories for each site in the Malibu watershed, including scores for the sub-indices (MMI and O/E) which are averaged to generate the CSCI. CSCI, MMI and O/E percentiles show how a site compares with the reference pool of sites. A site with a low percentile score (e.g. 0.03) has a biological condition that compares with very few sites in the reference pool.

| | Malibu Creek | | | | | | Las Virgenes Creek |
|---|---|---|---|---|---|---|---|
| **CSCI** | **RSW-MC 004D** | **RSW-MC 003D** | **RSW-MC 013D** | **RSW-MC 002D** | **RSW-MC 001U** | **RSW-MC 009U** | **RSW-MC 007D** |
| **CSCI** | | | | | | | |
| **CSCI Score** | **0.87** | **0.76** | **0.74** | **0.86** | **0.85** | **0.60** | **0.75** |
| **CSCI Percentile** | **0.20** | **0.07** | **0.05** | **0.20** | **0.17** | **0.01** | **0.06** |
| **CSCI Category** | **Possibly Altered** | **Likely Altered** | **Likely Altered** | **Possibly Altered** | **Possibly Altered** | **Very Likely Altered** | **Likely Altered** |
| **MMI Metric** | | | | | | | |
| **% Clinger Taxa** | 32 | 28 | 31 | 41 | 28 | 11 | 29 |
| **% Coleoptera Taxa** | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| **Taxonomic Richness** | 25 | 23 | 16 | 17 | 21 | 16 | 15 |
| **% EPT Taxa** | 24 | 30 | 25 | 22 | 19 | 17 | 20 |
| **Shredder Taxa** | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **% Intolerant** | 1 | 3 | 0 | 0 | 0 | 0 | 0 |
| **MMI Score** | **0.65** | **0.64** | **0.57** | **0.57** | **0.53** | **0.55** | **0.61** |
| **MMI Percentile** | **0.02** | **0.02** | **0.01** | **0.01** | **0.00** | **0.01** | **0.01** |
| **O/E** | | | | | | | |
| **Mean Observed Taxa** | 8.4 | 6.7 | 7.0 | 9.0 | 8.9 | 5.0 | 8.0 |
| **Expected Taxa** | 7.7 | 7.6 | 7.8 | 7.7 | 7.6 | | 8.9 |
| **O/E** | **1.09** | **0.88** | **0.90** | **1.16** | **1.16** | **0.65** | **0.90** |
| **O/E Percentile** | **0.68** | **0.26** | **0.30** | **0.80** | **0.80** | **0.03** | **0.29** |

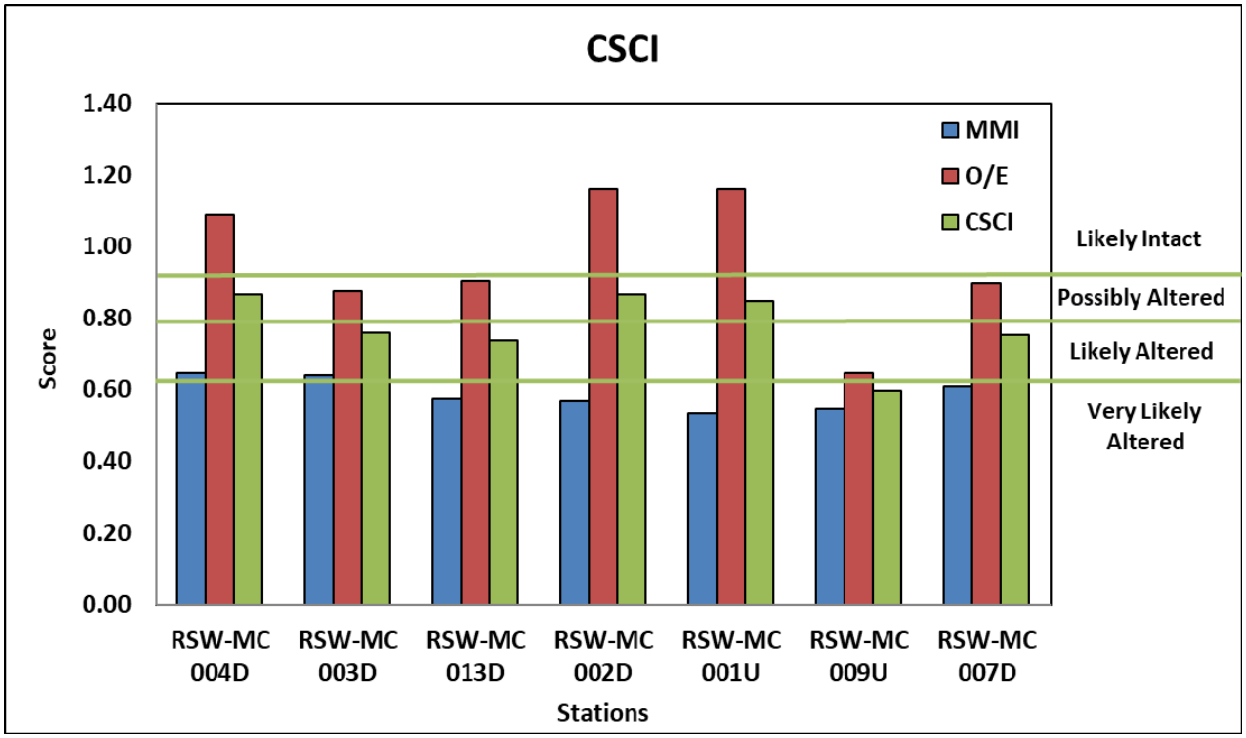



Figure 4. CSCI scores including the MMI and O/E for sites in the Malibu Creek watershed. Horizontal green lines represent the 1st (Very Likely Altered), 10th (Likely Altered), 30th (Likely Intact), and 50th (Likely Intact) percentiles of the reference site distribution for the CSCI scores.

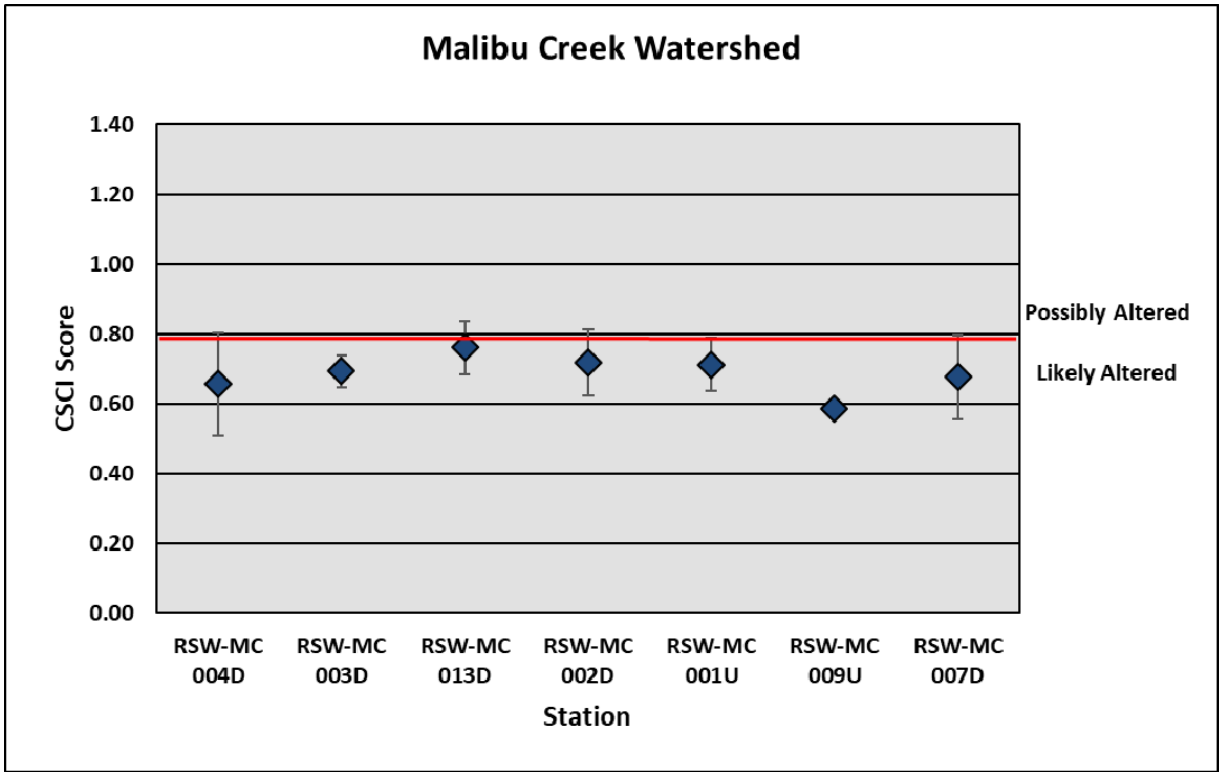



Figure 5. Average (± 95% CI) CSCI scores for stations sampled within the Malibu Creek watershed from 2015 to 2019. Sites are sorted from most downstream (left) to most upstream (right). The red line denotes the 10$^{th}$ percentile threshold limit (0.79) for the CSCI.

Table 9. Biological metrics measured at station RSW-MC011D in Malibu Lagoon.

| Biological Metric | RSW-MC 011D |
|---|---|
| Total Abundance | 590 |
| Taxonomic Richness | 6 |
| Shannon Diversity | 0.2 |

Table 10. Diatom and soft bodied algae metrics used to calculate the D18, S2 and H2O index for each of the sample locations in the Malibu watershed. Response to human disturbance indicates whether a metric increases or decreases with anthropogenic stress.

| Metric Category/Theme | Metric | RSW-MC 004D | RSW-MC 003D | RSW-MC 013D | RSW-MC 002D | RSW-MC 001U | RSW-MC 009U | RSW-MC 007D | Response to Human Disturbance |
|---|---|---|---|---|---|---|---|---|---|
| **Diatom** | | | | | | | | | |
| **Autecological Guild** | | | | | | | | | |
| Dissolved Oxygen | Proportion Requiring >50 % DO | 0.9359 | 0.933 | 0.744 | 0.710 | 0.643 | 0.7895 | 0.921 | Decrease |
| | Proportion Requiring 100% DO | 0.37544 | 0.309 | 0.064 | 0.068 | 0.096 | 0.0902 | 0.018 | Decrease |
| Ionic Strength/Salinity | Proportion Halobiontic | 0.3880 | 0.358 | 0.630 | 0.637 | 0.623 | 0.6673 | 0.262 | Increase |
| Nutrients | Proportion Poly- & Eutrophic | 0.6135 | 0.667 | 0.936 | 0.907 | 0.872 | 0.9056 | 0.978 | Increase |
| Organic Pollution | Proportion Nitrogen Heterotrophs | 0.3174 | 0.178 | 0.212 | 0.251 | 0.394 | 0.1673 | 0.077 | Increase |
| | Proportion Oligo- & Beta-mesosaprobic | 0.6099 | 0.617 | 0.429 | 0.294 | 0.238 | 0.1626 | 0.593 | Decrease |
| **Morphologic Guild** | | | | | | | | | |
| Sedimentation | Proportion of Highly Motile | 0.2974 | 0.298 | 0.192 | 0.186 | 0.270 | 0.4958 | 0.173 | Increase |
| | Proportion of Sediment Tolerant (highly motile) | 0.3453 | 0.364 | 0.350 | 0.395 | 0.447 | 0.6650 | 0.194 | Increase |
| **Taxonomic Group** | | | | | | | | | |
| A. minutissium | Proportion A. minutissimum | 0.0068 | 0.002 | 0.003 | 0.002 | 0.000 | 0.0068 | 0.000 | Decrease |
| **Tolerance/Sensitivity** | | | | | | | | | |
| Nitrogen | Proportion of Low TN Indicators | 0.1175 | 0.109 | 0.009 | 0.016 | 0.007 | 0.0110 | 0.002 | Decrease |
| Phosphorous | Proportion of Low TP Indicators | 0.0311 | 0.008 | 0.008 | 0.017 | 0.008 | 0.0093 | 0.002 | Decrease |
| **Soft** | | | | | | | | | |
| **Relationship to Reference** | | | | | | | | | |
| Reference | Proportion "non-reference" Indicators (sp) | 0.4000 | 0.333 | 0.500 | 0.286 | 0.167 | 0.5000 | 0.667 | Increase |
| | Proportion of "non-reference" Indicators (b) [1.] | 0.9735 | 0.002 | 1.000 | 0.000 | 0.000 | 0.9959 | 1.000 | Increase |
| **Taxonomic Group** | | | | | | | | | |
| Chlorphyta | Proportion Chlorophyta (b) | 0.9735 | 0.006 | 1.000 | 0.000 | 0.274 | 0.9998 | 1.000 | Increase |
| | Proportion of Green Algae Belonging to CRUS (b) | 1.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.0136 | 0.000 | Increase |
| ZygnHeteroRhod | Proportion ZHR (b) | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.0000 | 0.000 | Decrease |
| | Proportion ZHR (m) | 0.0000 | 0.042 | 0.000 | 0.063 | 0.000 | 0.0000 | 0.000 | Decrease |
| **Tolerance/Sensitivity** | | | | | | | | | |
| Copper | Proportion of High Cu Indicators (sp) | 0.2000 | 0.375 | 1.000 | 0.286 | 0.167 | 0.6250 | 0.667 | Increase |
| Organic Pollution | Proportion High DOC Indicators (b) | 0.9735 | 0.038 | 1.000 | 0.306 | 0.033 | 0.9961 | 1.000 | Increase |
| | Proportion High DOC Indicators (sp) | 0.6000 | 0.556 | 1.000 | 0.429 | 0.333 | 0.7500 | 1.000 | Increase |
| Phosphorous | Proportion of Low TP Indicators (sp) | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.0000 | 0.000 | Decrease |

1. Abbreviations are as follows: b- metric based on biovolume; sp- metric based on species presence; m- metric is an average of the "b" and "sp" counterpart metric values; CRUS- Cladophora glomerata + Rhizoclonium hieroglyphicum + Ulva flexuosa + Stigeoclonium sp. ZHR - Zygnemataceae + hetrocystous cyanobacteria + Rhodophyta; Green algae- Taxa within Chlorophyta + Charophyta

Table 11. The SoCA Algae IBI scores for sample locations in the Malibu Creek Watershed. Individual sub-indices for both diatoms (D18) and soft bodied algae (S2) are presented along with the hybrid SoCA Algae IBI score (H2O). Rank scores (0 to 10) are presented for each metric. Each index summation is adjusted to fit on a scale of 0 to 100.

| SoCA Algae IBI Metric Score | Stations | | | | | | |
|---|---|---|---|---|---|---|---|
| | RSW-MC 004D | RSW-MC 003D | RSW-MC 013D | RSW-MC 002D | RSW-MC 001U | RSW-MC 009U | RSW-MC 007D |
| **Diatoms (D18)** | | | | | | | |
| Proportion Requiring >50 % DO (d) | 8 | 8 | 3 | 2 | 1 | **4** | 8 |
| Proportion Halobiontic (d) | 3 | 4 | 0 | 0 | 0 | 0 | 5 |
| Proportion N Heterotrophs (d) | 4 | 6 | 6 | 5 | 2 | 6 | 8 |
| Proportion of Sediment Tolerant (highly motile; d) | 3 | 3 | 3 | 2 | 1 | 0 | 6 |
| Proportion of Low P Indicators (d) | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| **D18 IBI Total** | 19 | 21 | 12 | 10 | 4 | 11 | 27 |
| **D18 IBI Adjusted (2.0)** | **38** | **42** | **24** | **20** | **8** | **22** | **54** |
| **Soft Bodied Algae (S2)** | | | | | | | |
| Proportion "non-reference" Indicators (sp) | 2 | 3 | 0 | 5 | 7 | **0** | 0 |
| Proportion of green algae belonging to CRUS (b) | 1 | 10 | 10 | 10 | 10 | 9 | 10 |
| Proportion ZHR (m) | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| Proportion of High Cu Indicators (s, sp) | 4 | 0 | 0 | 2 | 5 | **0** | 0 |
| Proportion High DOC Indicators (s, sp) | 2 | 3 | 0 | 5 | 6 | 0 | 0 |
| Proportion of Low TP Indicators (s, sp) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **S2 IBI Total** | 9 | 17 | 10 | 23 | 28 | 9 | 10 |
| **S2 IBI Adjusted (1.66667)** | **15** | **28** | **17** | **38** | **47** | **15** | **17** |
| **SoCA Algae IBI** | | | | | | | |
| Proportion of High Cu Indicators (s, sp) | 4 | 0 | 0 | 2 | 5 | 0 | 0 |
| Proportion High DOC Indicators (s, sp) | 2 | 3 | 0 | 5 | 6 | 0 | 0 |
| Proportion of Low TP Indicators (s, sp) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Proportion Requiring >50 % DO (d) | 8 | 8 | 3 | 2 | 1 | 4 | 8 |
| Proportion Halobiontic (d) | 3 | 4 | 0 | 0 | 0 | 0 | 5 |
| Proportion N Heterotrophs (d) | 4 | 6 | 6 | 5 | 2 | 6 | 8 |
| Proportion of Sediment Tolerant (highly motile; d) | 3 | 3 | 3 | 2 | 1 | 0 | 6 |
| Proportion of Low TN Indicators (d) | 2 | 2 | 0 | 1 | 0 | 1 | 0 |
| **SoCA Algae IBI Total** | 26 | 26 | 12 | 17 | 15 | 11 | 27 |
| **SoCA Algae IBI Adjusted Total (1.25)** | **33** | **33** | **15** | **21** | **19** | **14** | **34** |
| **SoCA Algae IBI Category** | **Non-Ref** | **Non-Ref** | **Non-Ref** | **Non-Ref** | **Non-Ref** | **Non-Ref** | **Non-Ref** |

1. Abbreviations are as follows: d- diatom metric; s- soft algae metric; sp- metric based on species presence

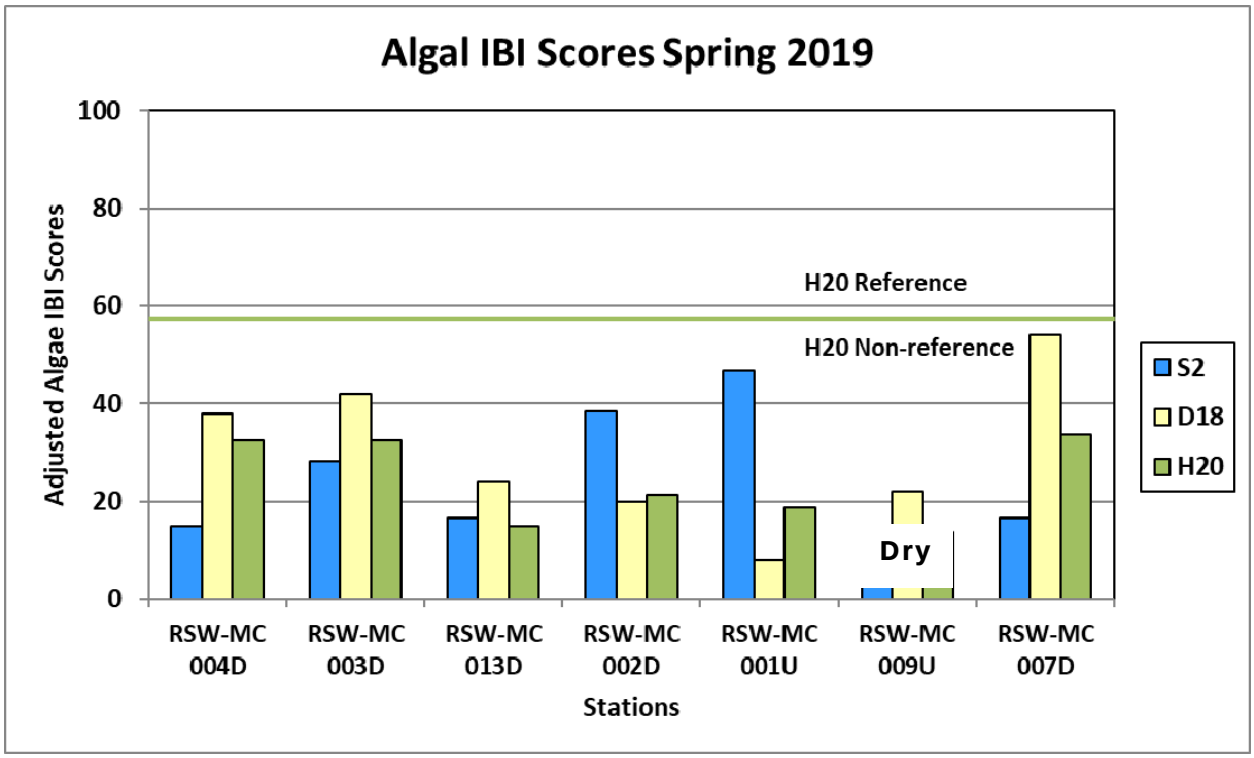



Figure 6. SoCA Algae IBI scores for sites in the Malibu Creek watershed. The S2 and D18 index is composed of soft body algae metrics and diatom metrics respectively. The H20 is a hybrid of soft body algae and diatom metrics. The green horizontal bar represents the boundary between algae communities in reference vs. non-reference condition for the H20 index.

# Summary and Conclusions

A total of eight bioassessment sampling locations were visited in the Malibu Creek Watershed from July 18th through the 29th, 2019 by Aquatic Bioassay and Consulting Laboratory biologists. All sampling, laboratory analysis, and data analysis were conducted according to SWAMP protocols with the exception of the Malibu Lagoon Station RSW-MC011, which was sampled according to USEPA's estuarine sampling guidance (2000).

The habitat conditions in a stream reach play a key role in the development of a healthy aquatic community. In many cases organisms may not be exposed to chemical contaminants, yet their populations indicate that impairment has occurred. These population shifts can be due to degradation of the streambed and bank habitats. For example, excess sediment caused by bank erosion due to human activities can fill pools and interstitial areas of the stream substrate where fish spawn and invertebrates live, causing their populations to decline or to be altered. Also, loss of vegetative canopy cover and reduced width of the riparian zone can have similar effects on the BMI communities.

P-Hab scores for stations sampled within the Malibu Watershed above Malibu Lagoon were suboptimal at sites above and below the TWRP outfall, except for station R-3 which was optimal and R-1 above the discharge which was marginal. The poorer conditions at R-1 were due to sediment deposition, in combination with a high degree of channel alteration, and lack of instream cover. In contrast, R-3 had better conditions due to good instream cover, low sediment deposition and lack of channel alteration. Most sites had embankments that were vulnerable to erosion, but with relatively good vegetative protection and surrounding riparian habitats.

Malibu Lagoon Station R-11 represents an estuary habitat that cannot be directly compared to the riparian habitats found at the upstream stations. This site is subject to highly variable conditions including inundation during periods when the berm at the mouth of Lagoon is closed, shallow brackish water periods when the berm is open and large shifts in salinity depending on the status of the berm in conjunction with tidal fluctuations. The organisms that reside under these conditions are different than those found in freshwater stream systems and are generally adapted to these rapidly changing conditions. Likewise, sampling techniques developed for both systems are not comparable.

A combined total of 5,024 BMIs was identified from 47 different taxa at the eight stations where sampling occurred during the summer 2019 survey. Only six taxa were collected at

R-11 in the Malibu Creek Lagoon. The most abundant (87%) was represented by seed shrimp (Ostracoda). At the upstream stations, combinations of disturbance tolerant organisms represented the majority of the abundances with three to ten taxa representing 80% the total abundance. Some of the most abundant taxa across all stations included clams (*Corbicula sp*.), amphipods (*Hyalella sp.)*, midges (Chironominae), nemertean worms (*Prostoma sp*.), mayflies (*Baetis sp*.) and New Zealand mud snails (NZMS, *Potamopyrgus antipodarum*).

The biotic condition of streams in this survey was assessed using two indexes of biological integrity: the California Stream Condition Index (CSCI) and the Southern California Algae Index of Biological Integrity (SoCA Algae IBI). The CSCI is based on the benthic macroinvertebrate community, while the SoCA Algae IBI is based on the abundances and composition of the diatom and soft bodied algae communities at a site. The inclusion of the SoCA Algae IBI provides a second indicator of stream condition. There have been no regulatory compliance thresholds established for these indexes in the state of California. The statistically derived thresholds presented for each of these indices are included to compare the biotic condition found at a specific site to the biotic condition found at the pool of reference sites used to develop each index. As a result, they do not necessarily represent an ecologically meaningful change point in community composition and should not be used in a regulatory framework.

These two indexes provided contrasting results and showed that the BMI community (CSCI) was in relatively good condition compared to reference conditions, while the SoCA Algae IBI indicated that algae populations were below reference site conditions:

1. The CSCI category rankings at stations R-4, R-2 and R-1 were “possibly altered” and similar to the 10$^{th}$ percentile of the reference site condition (>0.79). Since R-1 and R-2 are located above and below the discharge point, it indicates that the TWRF discharge was not negatively impacting the BMI community.

2. The SoCA Algal IBI scores for all sites in the survey were well below the reference threshold (57) with a range of 14 to 34. The IBI scores above the outfall (R-1 = 19) and below the outfall (R-2 = 21) were similar indicating there was no outfall related effect on the algae communities.

The strong association between physical habitat and biological condition (IBI scores) that are typical in southern California watersheds are not as clear cut in the Malibu Creek Watershed. Physical habitat conditions in most of the stream reaches where samples were

collected were relatively decent with good instream cover, low to moderate sedimentation and little channel alteration. This indicates that degraded biological community conditions measured in past surveys may be linked more closely to poor water quality conditions (e.g. elevated nutrients or metals). Staff members of the Las Virgenes Municipal Water District have shown that a potential source of these poor water quality conditions may be the result of local geologic conditions. The terrain in the upper reaches of the watershed is dominated by the Monterey formation. Runoff from this area has very high conductivity (>3,000 uS) and elevated sulfate and phosphate concentrations. EPA sponsored research has shown that elevated background concentrations of these constituents has a detrimental effect on BMIs at levels known to occur naturally in Malibu Creek (Pond *et al.*, 2008).

Station R-11 located in Malibu Lagoon is inundated with brackish water during portions of the year when the berm is breached to the ocean. During this survey only six taxa were present. The lack of diversity found at this Lagoon site may be due to the ever-changing conditions found here. Sudden shifts in salinity and temperature make it difficult for stable benthic communities to become established and only those organisms capable of such extreme shifts in environmental conditions are able to dominate the benthic communities.

The collection of New Zealand mudsnails (NZMS, *Potamopyrgus antipodarum*) in the watershed is of ongoing environmental concern. The snail was first collected in the upper and lower Medea Creek in the spring of 2005. The NZMS were relatively abundant at four of the eight stations in 2019, ranging from zero to 238 at R-1 above the outfall.

Efforts to control NZMS populations are focused on ensuring they are not spread to other locations and there is presently no method available to remove them from a stream reach without damaging the indigenous populations. Aquatic Bioassay scientists and field crews have employed the strict control measures recommended by the State of California to reduce the chance that the NZMS is further spread in the watershed.

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# Appendix A: BMI and Attached Algae Taxa Lists

Table 12. 2019 BMI raw taxa list for sites in the Malibu Creek Watershed.

| Identified Taxa | Tol Val (TV) | Func Feed Grp | RSW-MC 011D | RSW-MC 004D | RSW-MC 003D | RSW-MC 013D | RSW-MC 002D | RSW-MC 001U | RSW-MC 009U | RSW-MC 007D |
|---|---|---|---|---|---|---|---|---|---|---|
| **Insecta Taxa** | | | | | | | | | | |
| **Ephemeroptera** | | | | | | | | | | |
| *Baetis* | 5 | cg | | 38 | 126 | 15 | 5 | 18 | | 5 |
| *Baetis adonis* | 5 | cg | | | 8 | | | | | |
| *Callibaetis* | 9 | cg | | 5 | | | | | 5 | |
| *Fallceon* | 4 | cg | | | 50 | 3 | | 3 | | |
| *Tricorythodes explicatus* | 4 | cg | | | 2 | | | | 1 | |
| **Odonata** | | | | | | | | | | |
| *Anax* | 8 | p | | | | | | 1 | | |
| *Argia* | 7 | p | | | 3 | | | | | 4 |
| *Coenagrionidae* | 9 | p | | 1 | | | | 60 | 6 | 2 |
| *Paltothemis lineatipes* | 9 | p | | | | | | | 1 | |
| **Hemiptera** | | | | | | | | | | |
| *Corixidae* | 8 | p | 1 | | | | | | | |
| **Trichoptera** | | | | | | | | | | |
| *Hydropsyche* | 4 | cf | | 24 | 115 | 5 | 66 | 53 | | 2 |
| *Hydropsychidae* | 4 | cf | | | 2 | | | | | 2 |
| *Hydroptila* | 6 | ph | | 11 | 29 | 66 | 9 | 14 | 4 | |
| *Hydroptilidae* | 4 | ph | | | 1 | 5 | | | 2 | 3 |
| *Ochrotrichia* | 4 | ph | | 3 | 19 | | 1 | | | |
| *Tinodes* | 2 | sc | | 4 | 22 | | | | | |
| **Coleoptera** | | | | | | | | | | |
| *Sanfilippodytes* | 5 | p | | | | | | | 1 | |
| **Diptera** | | | | | | | | | | |
| *Anopheles* | 8 | cg | | 5 | | | | | 3 | |
| *Atrichopogon* | 6 | cg | | 7 | 10 | 2 | 1 | 2 | | |
| *Bezzia/Palpomyia* | 6 | p | | 1 | | 4 | 22 | 11 | 37 | 4 |
| *Caloparyphus/Euparyphus* | 8 | cg | | 6 | 41 | 6 | 1 | | 10 | |
| *Ceratopogonidae* | 6 | p | | 1 | | | | | 1 | |
| *Chironominae* | 6 | cg | 1 | 120 | 10 | 259 | 129 | 46 | 84 | 27 |
| *Culicidae* | 8 | cg | | 1 | | | | | | |
| *Dasyhelea* | 6 | cg | | 1 | | | | | | |
| *Ephydridae* | 6 | | | | 1 | | | | | |
| *Hemerodromia* | 6 | p | | 2 | 3 | 1 | 3 | 3 | | |
| *Orthocladiinae* | 5 | cg | 2 | 1 | 3 | 5 | 3 | 2 | | |
| *Pericoma/Telmatoscopus* | 4 | cg | | 1 | 8 | | | | | |
| *Psychodidae* | | cg | | | 3 | | | | | |
| *Simulium* | 6 | cf | | 2 | | 20 | 73 | 4 | | 10 |
| *Tanypodinae* | 7 | p | | 9 | 1 | 13 | 53 | 15 | 13 | 13 |
| *Tipulidae* | 3 | | | | 1 | | | | | |
| **Lepidoptera** | | | | | | | | | | |
| *Petrophila* | 5 | sc | | | 1 | | | | | |
| **Non-Insecta Taxa** | | | | | | | | | | |
| **Oligochaeta** | 5 | cg | 10 | 36 | 42 | | 12 | 40 | 41 | 54 |
| **Ostracoda** | 8 | cg | 575 | 179 | 10 | 92 | 6 | 15 | 20 | 7 |
| **Turbellaria** | 4 | p | | 5 | 5 | 1 | | 11 | | 5 |
| **Amphipoda** | | | | | | | | | | |
| *Hyalella* | 8 | cg | | 2 | 4 | 138 | 49 | 11 | 328 | 420 |
| **Basommatophora** | | | | | | | | | | |
| *Physa* | 8 | sc | | 5 | | 2 | 2 | 11 | 27 | 16 |
| **Hoplonemertea** | | | | | | | | | | |
| *Prostoma* | 8 | p | 1 | 10 | 25 | 2 | 67 | 59 | | 6 |
| **Hypsogastropoda** | | | | | | | | | | |
| *Hydrobiidae* | 8 | sc | | 5 | | | | | | |
| *Potamopyrgus antipodarum* | 8 | sc | | | 24 | 30 | | 238 | | 19 |
| **Trombidiformes** | | | | | | | | | | |
| *Limnesia* | 5 | p | | | | | | | 5 | |
| *Mideopsis* | 5 | p | | | | | 11 | 5 | 1 | |
| *Piona* | | p | | | | | | | 10 | |
| *Sperchon* | 8 | p | | 16 | 31 | | 20 | 16 | | 5 |
| **Veneroida** | | | | | | | | | | |
| *Corbicula* | 8 | cf | | 68 | 39 | 36 | 64 | 82 | | |
| **TOTAL** | | | **590** | **569** | **639** | **705** | **597** | **720** | **600** | **604** |

Table 13. Summer 2019 diatom taxa list for Malibu watershed.

| | | | Station | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Phylum | Class | Species | RSW-MC 004D | RSW-MC 003D | RSW-MC 013D | RSW-MC 002D | RSW-MC 001U | RSW-MC 009U | RSW-MC 007D |
| Bacillariophyta | | Bacillariophyta | | | 10 | 8 | 15 | 4 | 13 |
| | Bacillariophyceae | Achnanthidium minutissimum | 4 | 1 | 2 | 1 | | 4 | |
| | | Achnanthidium pyrenaicum | | | | | 2 | | |
| | | Adlafia minuscula | | | 1 | 2 | | | |
| | | Amphora | | | 18 | 20 | 18 | 12 | 5 |
| | | Amphora copulata | | 5 | 5 | 4 | 18 | | |
| | | Amphora ovalis | 1 | 1 | | 2 | 2 | | |
| | | Amphora pediculus | 75 | 66 | | | | | |
| | | Bacillaria paxillifera | 9 | 7 | 3 | 10 | 18 | 3 | 4 |
| | | Cocconeis pediculus | 13 | 17 | 43 | 13 | 15 | 17 | 12 |
| | | Cocconeis placentula | 15 | 17 | 80 | 62 | 25 | 6 | 86 |
| | | Cocconeis placentula var euglypta | 17 | 39 | | | | | |
| | | Cocconeis placentula var lineata | | | 20 | 8 | 14 | | 152 |
| | | Craticula buderi | | | | | | 1 | |
| | | Entomoneis paludosa | | | 4 | 2 | 3 | | |
| | | Eolimna subminuscula | | | | 2 | | | 1 |
| | | Fallacia californica | 12 | 19 | | | | | |
| | | Fallacia cryptolyra | | | 11 | 36 | | | |
| | | Fallacia monoculata | | | | | 2 | | |
| | | Geissleria decussis | 2 | | | | | | |
| | | Gomphonema | | | | 2 | | 1 | |
| | | Gomphonema micropus | | | 1 | | | | |
| | | Gomphonema parvulum | | | 7 | 8 | 8 | 10 | 8 |
| | | Gyrosigma acuminatum | | | | | | | 2 |
| | | Halamphora montana | | | | 2 | | | |
| | | Halamphora veneta | 1 | | 9 | 1 | 1 | 6 | 6 |
| | | Hippodonta capitata | 1 | | 1 | 7 | 12 | | |
| | | Mayamaea atomus | | | | | 1 | | |
| | | Mayamaea permitis | | 3 | 4 | 5 | 3 | 3 | 4 |
| | | Navicula | | | 1 | | 3 | | |
| | | Navicula aitchelbee | | | 10 | 6 | 12 | 3 | 20 |
| | | Navicula antonii | | | | | 2 | | |
| | | Navicula caterva | | | | | | | 6 |
| | | Navicula cryptotenella | | | | | 1 | | |
| | | Navicula erifuga | | 1 | 11 | 8 | 8 | 5 | 3 |
| | | Navicula genovefae | | | | 1 | 1 | | |
| | | Navicula germainii | | | 2 | 2 | 1 | | |
| | | Navicula gregaria | 11 | 6 | 59 | 80 | 94 | 57 | 17 |
| | | Navicula margalithii | 3 | 4 | | | | | |
| | | Navicula recens | | | | 2 | | 1 | |
| | | Navicula rostellata | | | 1 | | | | |
| | | Navicula tenelloides | | | | | | | 2 |
| | | Navicula tripunctata | | | | 2 | | | |
| | | Navicula veneta | | 4 | | | | | |
| | | Nitzschia | | | | 4 | 5 | 9 | 6 |
| | | Nitzschia acicularis | | | 1 | | 1 | | |
| | | Nitzschia acidoclinata | | | 1 | | | 2 | |
| | | Nitzschia amphibia | 4 | 5 | 1 | | | | 1 |
| | | Nitzschia amphibioides | | | | | 2 | 1 | |
| | | Nitzschia archibaldii | 6 | | 3 | 3 | 1 | | 3 |
| | | Nitzschia capitellata | | | | | | 2 | |
| | | Nitzschia communis | | | | 1 | 2 | | |
| | | Nitzschia desertorum | 2 | | | | | | |
| | | Nitzschia dissipata | | 2 | | 1 | 3 | 3 | |
| | | Nitzschia dubia | | | 1 | | | | 1 |

Table 13. Continued

| Phylum | Class | Species | Station | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | RSW-MC 004D | RSW-MC 003D | RSW-MC 013D | RSW-MC 002D | RSW-MC 001U | RSW-MC 009U | RSW-MC 007D |
| | | Nitzschia fonticola | 4 | 12 | | | | | 2 |
| | | Nitzschia inconspicua | 143 | 131 | 62 | 56 | 68 | 170 | 64 |
| | | Nitzschia lacuum | | | | | 1 | | |
| | | Nitzschia liebethruthii | 7 | 2 | | | | | 1 |
| | | Nitzschia linearis | | | | 4 | | | |
| | | Nitzschia microcephala | 7 | 9 | 10 | 22 | 32 | 52 | |
| | | Nitzschia palea var debilis | | | 2 | 3 | 3 | | 3 |
| | | Nitzschia paleacea | | 12 | 15 | 3 | 20 | 43 | 10 |
| | | Nitzschia perminuta | | | | | 2 | | |
| | | Nitzschia pusilla | | | | | | | 2 |
| | | Nitzschia soratensis | | | | | | 1 | 1 |
| | | Nitzschia supralitorea | | | | 2 | | | |
| | | Parlibellus protracta | | | | | 1 | | |
| | | Planothidium | | | | | 1 | | |
| | | Planothidium delicatulum | | | 2 | 1 | 1 | | |
| | | Planothidium dubium | | | 1 | | | | |
| | | Planothidium frequentissimum | 4 | 8 | 26 | 27 | 15 | 11 | 65 |
| | | Planothidium lanceolatum | | | 9 | 5 | 2 | | 65 |
| | | Planothidium minutissimum | 2 | 3 | | | | | |
| | | Pleurosigma delicatulum | | | 3 | 3 | | | |
| | | Psammothidium bioretii | | | | | 2 | | |
| | | Psammothidium subatomoides | | | | | 19 | | 4 |
| | | Pseudostaurosira brevistriata | 36 | 43 | 1 | | 1 | | |
| | | Reimeria sinuata | | | | 4 | | | |
| | | Rhoicosphenia | 3 | | 3 | 1 | | | 7 |
| | | Rhoicosphenia abbreviata | | 15 | 1 | | | 13 | |
| | | Rhoicosphenia californica | | | | | 4 | | |
| | | Rhopalodia | | 3 | | | | | |
| | | Rhopalodia constricta | | | | | | 4 | |
| | | Rhopalodia operculata | | | | | 1 | | |
| | | Sellaphora nigri | | | 7 | | | | 4 |
| | | Surirella | | | | | 2 | | |
| | | Surirella brebissonii | | | 1 | | | 1 | |
| | | Surirella brebissonii var kuetzingii | | | | | 2 | 2 | |
| | | Tryblionella apiculata | | | 2 | | 2 | 8 | 2 |
| | | Tryblionella hungarica | 1 | | | | | | |
| | | Tryblionella levidensis | | | 4 | 3 | | | |
| | | Ulnaria ulna | | | | 1 | | | |
| | Coscinodiscophyceae | Coscinodiscophyceae | | | | 12 | | | |
| | | Cyclotella | | | | | 2 | | |
| | | Cyclotella atomus | 4 | 11 | 39 | 78 | 33 | 55 | 2 |
| | | Cyclotella meneghiniana | 24 | 27 | 49 | 37 | 60 | 45 | 10 |
| | | Melosira varians | 1 | 5 | 3 | 1 | 4 | 2 | 1 |
| | | Pleurosira laevis | | 1 | 22 | 2 | 1 | | 4 |
| | | Thalassiosira weissflogii | | | 1 | 4 | 2 | | |
| | Fragilariophyceae | Fragilaria | | | | 2 | 1 | | |
| | | Fragilaria microvaucheriae | | | | 1 | | | |
| | | Fragilaria vaucheriae | | | | | | 1 | |
| | | Fragilariforma virescens | | | | | 1 | | |
| | | Staurosira construens | | | | 2 | | 4 | |
| | | Staurosira construens var binodis | | | | | | 15 | |
| | | Staurosira construens var venter | 171 | 126 | 25 | 21 | 18 | 23 | 2 |
| | | Staurosirella lapponica | | | | | 1 | | |
| | | Synedra acus | | | | | 1 | | |
| | | Tabularia fasciculata | 23 | 1 | 4 | 3 | 7 | 2 | 2 |

Table 14. Summer 2019 soft-algae taxa list for Malibu watershed.

| Sample Type | Phylum | Class | Species | Unit | Station | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | RSW-MC 004D | RSW-MC 003D | RSW-MC 013D | RSW-MC 002D | RSW-MC 001U | RSW-MC 009U | RSW-MC 007D |
| **Epiphyte** | Cyanobacteria | Cyanophyceae | Heteroleibleinia sp 1 | count | **35** | | 100 | 100 | | 100 | 100 |
| | | | Leptolyngbya foveolarum | count | | | | | | 100 | 100 |
| **Macroalgae** | Bacillariophyta | Coscinodiscophyceae | Pleurosira laevis | um3/cm2 | 43246753 | | 2.386E+09 | 9.235E+09 | | | |
| | Chlorophyta | Chlorophyceae | Oedogonium sp 2 | um3/cm2 | | | | | | 7215007 | |
| | | Ulvophyceae | Cladophora cf glomerata | um3/cm2 | | | 149114631 | | | 2.085E+09 | 2.886E+09 |
| | | | Rhizoclonium hieroglyphicum | um3/cm2 | | | | | | 28860028 | |
| | | | Ulva flexuosa | um3/cm2 | 43246753 | | | | | | |
| **Microalgae** | Chlorophyta | | Chlorophyta | um3/cm2 | | 1013 | | | | | 1636 |
| | | | Chlorophyta 1 | um3/cm2 | | | | | | 1622 | |
| | | Chlorophyceae | Gongrosira | um3/cm2 | | 6485 | | | | | |
| | | | Monoraphidium arcuatum | um3/cm2 | 79 | 64 | | | | | |
| | | | Monoraphidium contortum | um3/cm2 | | | 40 | | | | |
| | | | Oedogonium sp 2 | um3/cm2 | | | | | | 1155486 | |
| | | | Scenedesmus abundans | um3/cm2 | 1259 | 612 | | | | 651 | |
| | | | Scenedesmus acuminatus | um3/cm2 | | 1751 | | | | | |
| | | | Scenedesmus armatus | um3/cm2 | | 1.87E+03 | | | | | |
| | | | Scenedesmus communis | um3/cm2 | | | | | | 7.56E+03 | |
| | | | Scenedesmus ellipticus | um3/cm2 | | 1.66E+03 | | | | 4.65E+02 | |
| | | | Scenedesmus flavescens | um3/cm2 | | | | | 3.48E+02 | | |
| | | | Scenedesmus microspina | um3/cm2 | | | | | 4.47E+02 | | |
| | | | Scenedesmus obliquus | um3/cm2 | | | | | 2.87E+03 | | |
| | | Ulvophyceae | Cladophora cf glomerata | um3/cm2 | | | | | | 6.24E+06 | 1.34E+06 |
| | Cryptophyta | Cryptophyceae | Chroomonas | um3/cm2 | | 7.88E+02 | | | | | |
| | | | Cryptomonas anomala | um3/cm2 | | | | 5.02E+02 | | | |
| | Cyanobacteria | Cyanophyceae | Anabaena | um3/cm2 | | 5.18E+02 | | | | | |
| | | | Calothrix | um3/cm2 | | 3.80E+04 | | | | | |
| | | | Cyanophyceae | um3/cm2 | 1.35E+03 | 6.59E+03 | | | | | |
| | | | Heteroleibleinia sp 1 | um3/cm2 | 2.19E+05 | 2.10E+04 | 6.68E+04 | 2.59E+04 | 1.62E+04 | 4.53E+04 | 4.49E+04 |
| | | | Leptolyngbya foveolarum | um3/cm2 | | 3.66E+04 | | 4.59E+04 | | 3.34E+05 | 5.86E+04 |
| | | | Leptolyngbya sp 1 | um3/cm2 | 8.39E+03 | | | | | | |
| | | | Leptolyngbya tenuis | um3/cm2 | 1.17E+06 | 7.67E+05 | | 1.03E+05 | 9.69E+03 | | |
| | | | Phormidium | um3/cm2 | | 3.29E+04 | | | | | 2.72E+04 |
| | | | Pseudanabaena mucicola | um3/cm2 | 3.37E+02 | 1.75E+02 | | | | | |
| | | | Pseudanabaena sp 1 | um3/cm2 | | | | 1.00E+02 | | | |
| | Rhodophyta | Florideophyceae | Chantransia | um3/cm2 | | 3.06E+04 | | | | | |
| | Streptophyta | Zygnematophyceae | Closterium moniliferum | um3/cm2 | | 2.29E+05 | | | | | |
| **Qualitative** | Bacillariophyta | Coscinodiscophyceae | Pleurosira laevis | count | | P | P | | P | | P |
| | | Xanthophyceae | Tribonema utriculosum | count | | | | | P | | |
| | | | Vaucheria | count | | | | | P | | |
| | Chlorophyta | Ulvophyceae | Cladophora cf fracta | count | | | | P | | | |
| | | | Cladophora cf glomerata | count | | P | P | P | | P | P |
| | | | Rhizoclonium hieroglyphicum | count | | | | P | P | | P |
| | | | Ulva flexuosa | count | P | | | | | | |
| | Rhodophyta | Compsopogonophycea | Compsopogon caeruleus | count | | | | P | | | |

P= present in sample, but not counted.

# Appendix B – Photos of Sampling Sites

RSW-MC011D facing picnic area

RSW-MC011D facing towards the ocean

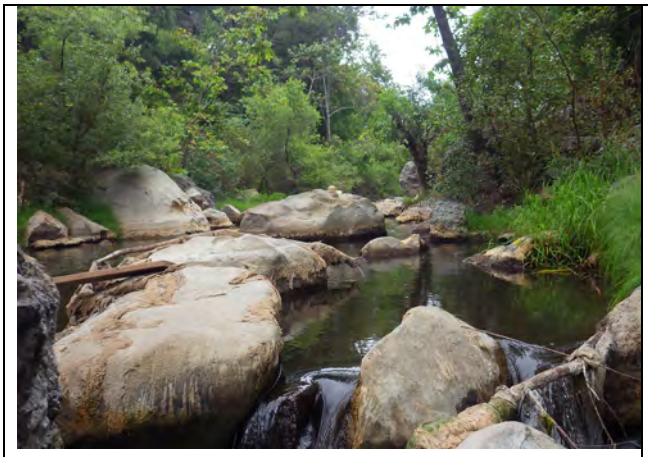
RSW-MC004D facing upstream

RSW-MC004D facing downstream

RSW-MC003D facing upstream

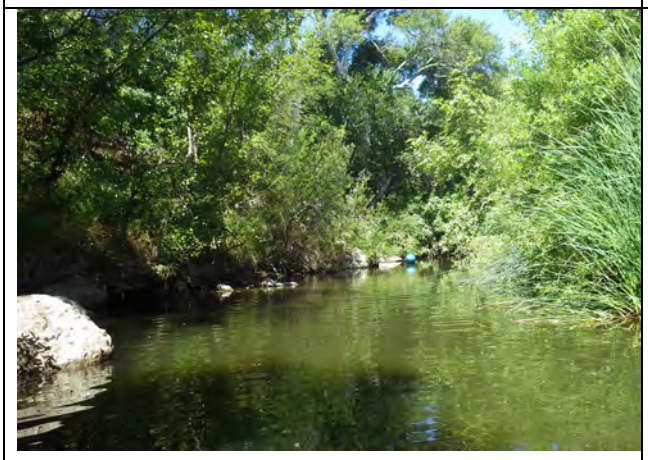
RSW-MC003D facing downstream

Figure 7. Sampling location photos of the eight sampling sites within the Malibu Creek watershed.



RSW-MC013D facing upstream

RSW-MC013D facing downstream



RSW-MC002D facing upstream

RSW-MC002D facing downstream

Figure 7. (continued).

RSW-MC001U facing upstream

RSW-MC001U facing downstream

RSW-MC009U facing upstream

RSW-MC009U facing downstream

RSW-MC007U facing upstream

RSW-MC007U facing downstream

Figure 7.

**INVOICE NO: LVS0320.0181**

**TO:** **Accounts Payable**
**Las Virgenes MWD**
**731 Malibu Canyon Rd**
**Calabasas, CA 91302**

**FROM:** **Aquatic Bioassay**
**29 North Olive St.**
**Ventura, CA 93001**

**PAY THIS AMOUNT:** **$48,866**

**DATE:** **March 6th, 2020**

**Invoice for tasks related to bioassessment reporting for spring 2019**

| Task | Contract Amount | Previous Billing | Current Billing | Billed To Date | Funds Remaining |
|---|---|---|---|---|---|
| **Sampling** | | | | | |
| **Mobilization** | $682 | $0 | $682 | $682 | $0 |
| **Bioassessment (9 sites, includes BMIs + attached algae)** | $20,184 | $0 | $20,184 | $20,184 | $0 |
| **Laboratory Analysis** | | | | | |
| **Benthic Macroinvertebrates (8 sites)** | | | | | |
| BMI 600 Count (Sorting and ID, SAFIT Level 2) | $8,441 | $0 | $8,441 | $8,441 | $0 |
| BMI QC: to DF&W Rancho Cordova (1 sample) | $767 | $0 | $767 | $767 | $0 |
| **Attached Algae (8 sites)** | | | | | |
| Diatom/Algae ID & Enumeration | $5,439 | $0 | $5,439 | $5,439 | $0 |
| Diatoms & Algae Qualitative | $5,439 | $0 | $5,439 | $5,439 | $0 |
| Ash Free Dry Weight (AFDM) | $455 | $0 | $455 | $455 | $0 |
| Chlorphyll a | $728 | $0 | $728 | $728 | $0 |
| **Reporting** | | | | | |
| **CEDEN/SWAMP Reporting (Biology & Chemistry)** | $1,137 | $0 | $1,137 | $1,137 | $0 |
| **Final Report** | $5,593 | $0 | $5,593 | $5,593 | $0 |
| **Total** | **$48,866** | **$0** | **$48,866** | **$48,866** | **$0** |

**Aquatic Bioassay**
**29 N. Olive St.**
**Ventura, CA 93001**

March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

**Subject : Temporary Protective Canopy at Westlake Filtration Plant: Purchase Order Amendment**

## SUMMARY:

The rental and installation of a temporary canopy structure was required at the Westlake Filtration Plant to protect workers from the potential for falling from with the fire-damaged portions of the building. Staff is recommending authorization increase the purchase order to Rolls Scaffolding, Inc., in the amount of $29,565, from $35,300.02 to $64,865.02, to account for rental for a longer period of time than originally anticipated.

## RECOMMENDATION(S):

Authorize the General Manager to increase the purchase order to Rolls Scaffolding, Inc., in the amount of $29,565, from $35,300.02 to $64,865.02, for a temporary protective canopy structure at the Westlake Filtration Plant.

## FISCAL IMPACT:

Yes

## ITEM BUDGETED:

Yes

## FINANCIAL IMPACT:

The total cost of this action is $29,565. It is anticipated that 100% of the cost of this work will be reimbursed by the Federal Emergency Management Agency (FEMA) or the District's insurance carrier.

## DISCUSSION:

Portions of the roof structure at the Westlake Filtration Plant were damaged during the Woolsey Fire. Staff obtained quotes for the temporary placement of an overhead canopy to protect workers from the potential for falling debris from the fire-damaged portions of the roof. Two vendors provided quotes for the work: Rolls Scaffold, Inc. and Brand Scaffold Services, Inc. Rolls Scaffold submitted the lowest quote for the work. The additional funding the on-going rental of the canopy structure in the amount of $29,565 ($81 per day for 365 days). Permanent repairs will be made to the Westlake Filtration Plant once the District's insurance carrier and FEMA make a final determination on reimbursement responsibility.

**GOALS:**

Provide Safe and Quality Water with Reliable Services

Prepared by: Doug Anders, Administrative Services Coordinator

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

# MWD MEETING AGENDA

**REVISION NO. 2**

**Regular Board Meeting**
**March 10, 2020**
**12:00 p.m. – Boardroom**

| Tuesday, March 10, 2020 Meeting Schedule | | |
|---|---|---|
| 9:00 AM | L&C | Rm. 2-145 |
| 10:30 AM | C&LR | Rm. 2-456 |
| 11:00 AM | RPAM | Rm. 2-145 |
| 12:00 PM | Board Mtg | Boardroom |

**MWD Headquarters Building • 700 N. Alameda Street • Los Angeles, CA 90012**

## 1. Call to Order

(a) Invocation: Kevin McLaughlin, Principal Public Affairs Representative, External Affairs

(b) Pledge of Allegiance: Annette Eckhardt, Vice President of Women at Metropolitan

## 2. Roll Call

## 3. Determination of a Quorum

**4.** Opportunity for members of the public to address the Board on matters within the Board's jurisdiction. (As required by Government Code Section 54954.3(a))

## PUBLIC HEARINGS

a. Public hearing regarding: (1) the proposed water rates and charges for calendar years 2021 and 2022 necessary to meet the revenue requirements for fiscal years 2020/21 and 2021/22; and (2) the applicability of the Metropolitan Water District Act Section 124.5 ad valorem property tax limitation for fiscal years 2020/21 and 2021/22.

For more information related to the public hearing items, see Information Item 9-2 below and visit:
http://www.mwdh2o.com/WhoWeAre/Management/Financial-Information,
which provides links to the proposed budget, rates, and charges at
http://www.mwdh2o.com/WhoWeAre/Pages/FY-2020-21-and-2021-22-CY-2021-22.aspx
and to the proposed recommendation regarding the applicability of Section 124.5
http://www.mwdh2o.com/WhoWeAre/Mission/Pages/review-applicability-of-property-tax-limit.aspx

Date of Notice: March 5, 2020

## 5. OTHER MATTERS

A. Approval of the Minutes of the Meeting for February 11, 2020
(A copy has been mailed to each Director)
Any additions, corrections, or omissions

B. Report on Directors' events attended at Metropolitan expense for month of February 2020

C. Presentation of 30-year Service Pin to Director John T. Morris, representing the city of San Marino

D. Approve committee assignments

E. Approve Commendatory Resolution for Director Lorraine A. Paskett representing the City of Los Angeles

F. Chairwoman's Monthly Activity Report

## 6. DEPARTMENT HEADS' REPORTS

A. General Manager's summary of activities for the month of February 2020

B. General Counsel's summary of activities for the month of February 2020

C. General Auditor's summary of activities for the month of February 2020

D. Ethics Officer's summary of activities for the month of February 2020

## 7. CONSENT CALENDAR ITEMS — ACTION

**7-1** Authorize an agreement with Questica Ltd. not-to-exceed $700,000 for the design, development, and deployment of a new cloud-based Budget Planning and Analysis Application; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (OP&T)

**7-2** Adopt CEQA determination that the proposed project was previously addressed in the approved 2014 Mitigated Negative Declaration and related CEQA actions, and authorize the General Manager to execute an 18-month extension to Metropolitan's existing lease at 2750 Bristol Street in Costa Mesa, CA (Assessor's Parcel No. 418-182-05) in an amount not-to-exceed $160,000, for use as a construction staging and storage site. (E&O)

**7-3** Review and consider the Coachella Valley Mountains Conservancy's adopted Mitigated Negative Declaration and take related CEQA actions, and authorize the General Manager to grant a year-to-year license agreement for access purposes to the Coachella Valley Mountains Conservancy on Metropolitan-owned property located northeast of Desert Hot Springs, in an unincorporated portion of Riverside County. (RP&AM)

**END OF CONSENT CALENDAR**

## 8. OTHER BOARD ITEMS — ACTION

**8-1** Support and seek amendments to the Governor's Proposed Safe Drinking Water, Wildfire Prevention, and Natural Resources Protection Bond Act of 2020; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (C&L)

**8-2** Affirm the General Manager's determination that 12 Parcels, totaling 223 acres, just north of Diamond Valley Lake, in the County of Riverside, California (APNs 465-200-020; 465-180-037; 454-030-056; 454-030-070, -071, -072; 454-020-045, -047, -019; 465-140-042, -043; 465-130-018) are surplus to Metropolitan's needs and authorize staff to dispose of the properties; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA. (RP&AM)

**8-3** Award five-year contract to Richardson & Company, LLP in an amount not-to-exceed $5.125 million for annual audit of State Water Project charges; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (WP&S)

**8-4** Authorize an increase of $100,000, to an amount not to exceed $300,000, for a contract for legal services with Hanson Bridgett LLP to provide legal advice on deferred compensation plans, other employee benefits, taxes, and CalPERS matters; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (L&C)

**8-5** Authorize increase of $50,000, to an amount not-to-exceed $350,000, for existing General Counsel contract with Olson Remcho LLP to review and make recommendations to modify the Ethics Office policies, procedures, guidelines and applicable provisions of Metropolitan's Administrative Code; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (L&C)

**8-6** Approve amendments to the Metropolitan Water District Administrative Code to conform its public contracting provisions to current law and practices; the General Manager has determined that this action is exempt from or otherwise not subject to CEQA. (L&C)

**8-7** Report on existing litigation OHL USA, Inc. v. The Metropolitan Water District of Southern California, Los Angeles Superior Court Case No. 19STCV27689; and authorize increase of maximum amount payable under contract with (1) Theodora Oringher PC for legal services by $600,000 to an amount not to exceed $700,000; and (2) Pacific Consultants Construction, Inc. for consulting services by $50,000 to an amount not to exceed $150,000 (Approp. 154170); the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (L&C)

**[Conference with legal counsel-existing litigation; to be heard in closed session pursuant to Gov. Code Section 54956.9(d)(1)]**

## 9. BOARD INFORMATION ITEMS

**9-1** Update on Conservation Program

**9-2** Review of the Metropolitan Water District Act Section 124.5 ad valorem property tax limitation for fiscal years 2020/21 and 2021/22. (F&I)

**Added** **9-3** Update on Coronavirus and Metropolitan Response (OP&T)

## 10. FOLLOW-UP ITEMS

## 11. FUTURE AGENDA ITEMS

## 12. BOARD TRAINING

**Deferred**

## 13. ADJOURNMENT

**NOTE:** Each agenda item with a committee designation will be considered and a recommendation may be made by one or more committees prior to consideration and final action by the full Board of Directors. The committee designation appears in parentheses at the end of the description of the agenda item e.g., (E&O, F&I). Committee agendas may be obtained from the Board Executive Secretary.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site http://www.mwdh2o.com.

Requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

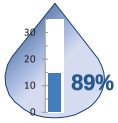
# Water Supply Conditions Report

As of: 03/17/2020

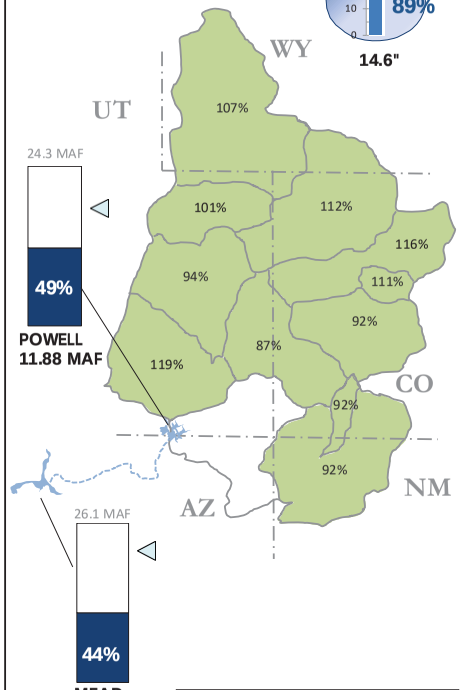
## 2020 Colorado River

988,000 AF
79% of full CRA
Does not include storage withdrawals

Upper Colorado River Basin
**103%**




14.6"




Snowpack % of Normal

**Snow Water Equivalent (% of Normal)**

- No Data
- Less than 50
- 50 - 80
- 81 - 120
- 121 - 150
- Greater than 150

Turn page for more CRA Data

Flip Over for SWP Data

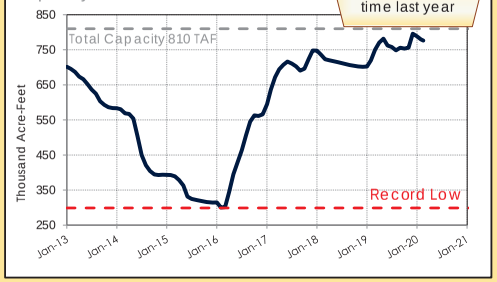
## Highlights

- Precipitation at the 8-Station is at 57% of normal
- Snow in the Northern Sierra is at 48% of normal
- Precipitation and snow in the Upper Colorado River Basin are respectively at 89% and 103% of normal

### Diamond Valley Lake Storage

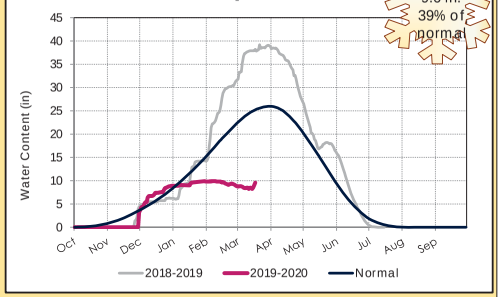
Capacity: 810 TAF

34 TAF more in storage than this time last year

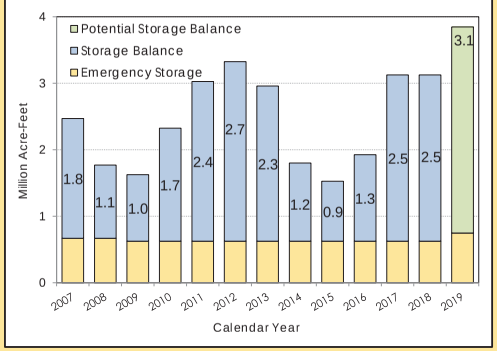



### Southern Sierra Snowpack

9.6 in: 39% of normal



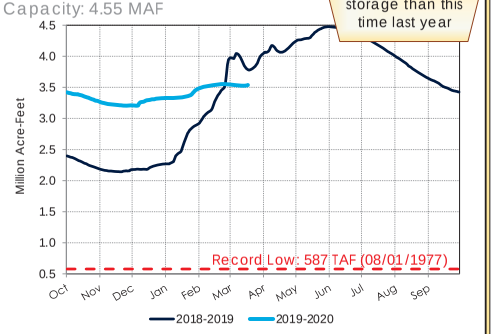

### MWD Storage Reserve Levels




### Lake Shasta Reservoir Storage

Capacity: 4.55 MAF

247 TAF less in storage than this time last year






http://www.mwdh2o.com/WSCR

This report is best printed double sided on legal size paper (8.5" x 14") and folded in quarters. Questions? Email mferreira@mwdh2o.com

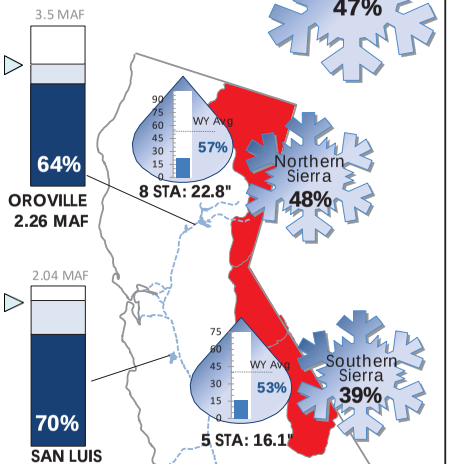
Water Supply Conditions Report

As of: 03/17/2020

## 2020 SWP Allocation

286,725 AF
15% of Table A

Statewide
**47%**




WY Avg
% Normal WY to Date
Rainfall to Date (in)

Capacity
Average EOM
Current Storage (% Capacity)

Flip Over for CRA Data

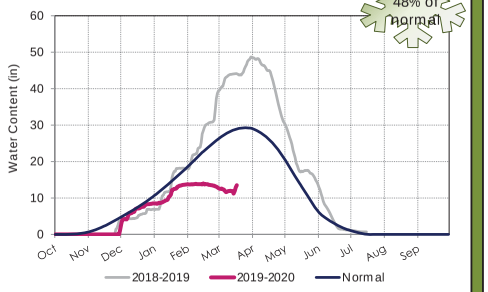
Turn page for more SWP Data

# State Water Project Resources

As of: 03/17/2020

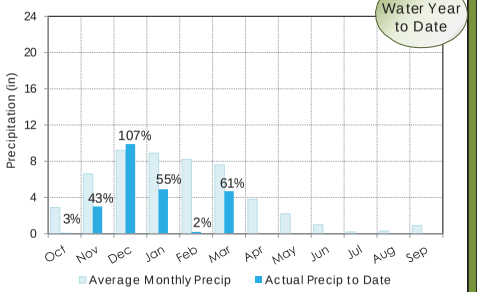
## Northern Sierra Snowpack

13.5 in.
48% of normal




## 8 Station Index Precip

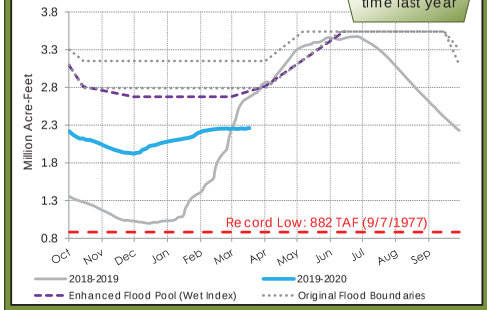
22.8 in.
Water Year to Date




## Oroville Reservoir Storage

Capacity: 3.5 MAF

411 TAF less in storage than this time last year




## 5 Station Index Precip

16.1 in.
Water Year to Date

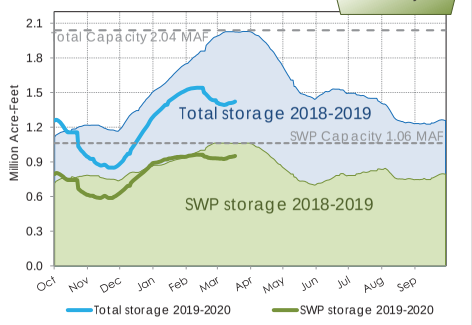

## Other SWP Contract Supplies for 2020 (AF)

| | |
|---|---|
| Article 21 | TBD |
| Carryover | TBD |
| Article 14b | TBD |

## San Luis Reservoir Storage

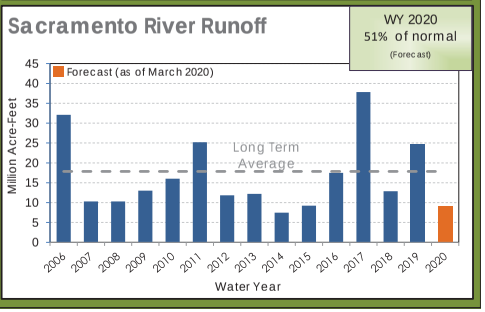
Capacity: 2.04 MAF

108 TAF less in SWP storage than this time last year




## Sacramento River Runoff

WY 2020
51% of normal
(Forecast)

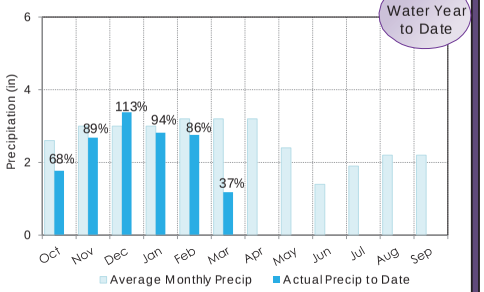



# Colorado River Resources

As of: 03/17/2020

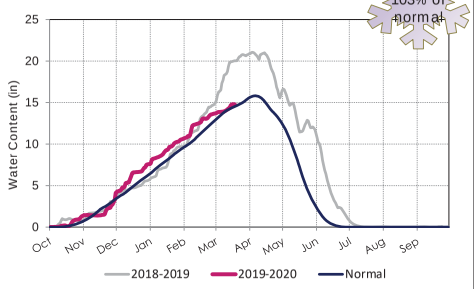
## Upper Colorado Basin Precip

14.6 in.
Water Year to Date

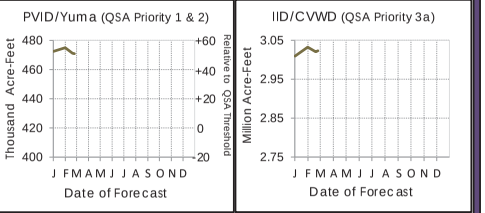



## Upper Colorado Basin Snowpack

14.8 in.
103% of normal



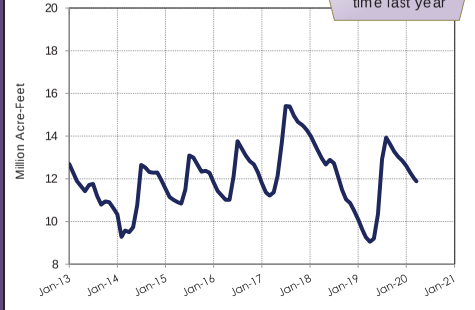

## 2020 Colorado River Ag Use




## Lake Powell Storage

Capacity: 24.3 MAF

2.72 MAF more in storage than this time last year



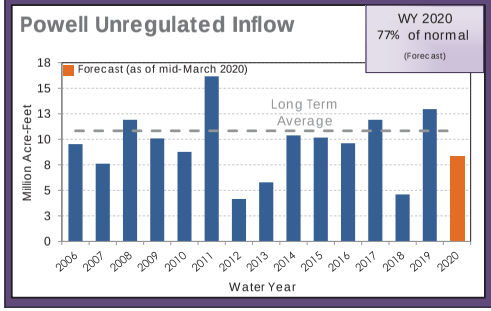

## Lake Mead Shortage/Surplus Outlook

| | 2020 | 2021 | 2022 | 2023 | 2024 |
|---|---|---|---|---|---|
| Shortage | 0% | 0% | 11% | 31% | 37% |
| Surplus | 0% | 0% | 2% | 7% | 11% |

Likelihood based on results from the February 2020 MTOM/CRSS model run. Includes DCP Contributions.

## Powell Unregulated Inflow

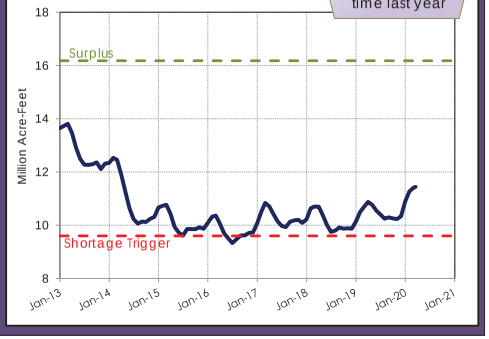
WY 2020
77% of normal
(Forecast)




## Lake Mead Storage

Capacity: 26.1 MAF

622 TAF more in storage than this time last year



March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: General Manager

**Subject : Declaration of a State of Emergency Due to Coronavirus (COVID-19)**

**SUMMARY:**

In December 2019, an outbreak of respiratory illness due to a novel coronavirus (COVID-19) was first identified in Wuhan City, Hubei Province, China, and has spread outside of China, impacting many countries, including the United States. As of March 18 2020, there were over 750 confirmed cases of COVID-19 in California with 13 deaths. Given the rapid spread of COVID-19, the General Manager called for a local emergency within the District's service area on March 16, 2020, and activated an incident command protocol. The District has established two primary objectives for its response to the emergency: (1) to protect the health and safety of its employees and customers; and (2) to ensure the continuity of business operations for the District.

**RECOMMENDATION(S):**

Pass, approve and adopt proposed Resolution No. 2572, declaring a state of emergency due to the spread of the novel coronavirus (COVID-19) outbreak.

**RESOLUTION NO. 2572**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT DECLARING A STATE OF EMERGENCY DUE TO THE NOVEL CORONAVIRUS (COVID-19) PANDEMIC AND AUTHORIZING ACTIONS TO SUPPORT THE RESPONSE AND RECOVERY EFFORT**

(Reference is hereby made to Resolution No. 2572 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

**FISCAL IMPACT:**

No

**ITEM BUDGETED:**

No

**GOALS:**

Provide Safe and Quality Water with Reliable Services

Prepared by: David W. Pedersen, General Manager

**ATTACHMENTS:**

Proposed Resolution No. 2572

**RESOLUTION NO. 2572**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT DECLARING A STATE OF EMERGENCY DUE TO THE NOVEL CORONAVIRUS (COVID-19) PANDEMIC AND AUTHORIZING ACTIONS TO SUPPORT THE RESPONSE AND RECOVERY EFFORT**

WHEREAS, in December 2019, an outbreak of respiratory illness due to a novel coronavirus (COVID-19) was first identified in Wuhan City, Hubei Province, China, and has spread outside of China, impacting many countries, including the United States;

WHEREAS, conditions of extreme peril to the safety of persons or property have arisen within the boundaries of Las Virgenes Municipal Water District (District) as a result of the on-going spread of the novel coronavirus (COVID-19) throughout the State of California;

WHEREAS, the Governor of California declared a state of emergency on March 4, 2020 due to the spread of the novel coronavirus (COVID-19);

WHEREAS, the County of Los Angeles also declared a state of emergency on March 4, 2020 due to the spread of the novel coronavirus (COVID-19);

WHEREAS, on March 11, 2020, the World Health Organization declared COVID-19 a pandemic;

WHEREAS, the President of the United States declared a national emergency on March 13, 2020, to address COVID-19;

WHEREAS, all of the incorporated cities served by the District (Agoura Hills, Calabasas, Hidden Hills and Westlake Village) have declared local emergencies;

WHEREAS, the Metropolitan Water District of Southern California declared a state of emergency on March 17, 2020 to reduce the spread of COVID-19;

WHEREAS, the Board finds that conditions and threatened conditions of extreme peril to the safety of persons or property have arisen within the District, caused by the expanding threat of the novel COVID-19 virus, the threatened isolation and quarantines of residents, employees, businesses and public safety workers;

WHEREAS, COVID-19 conditions have necessitated the District to implement emergency measures to mitigate its spread including elimination of District travel, implementation of social distancing, telecommuting, and other immediate emergency response measures;

WHEREAS, Section 2-3.103 of the Las Virgenes Municipal Water District Code grants emergency powers to the General Manager to address emergency situations that arise for matters that normally would be brought to the Board, and the General Manager has utilized that authority;

WHEREAS, these threatened conditions from the novel COVID-19 virus are or are likely to continue to have significant impact on the employees and operations of the District; and

WHEREAS, the Board does hereby find the aforesaid conditions of extreme peril warrant and necessitate the proclamation of the existence of a local emergency in the District.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE LAS VIRGENES MUNICIPAL WATER DISTRICT AS FOLLOWS:**

1. Substantial evidence supports a finding that the above-described circumstances constitute the need to declare a state of emergency for the District's service area, and, accordingly, the Board hereby declares a state of emergency.

2. The General Manager is authorized to implement changes in the working environment to minimize the spread of COVID-19 in accordance with guidelines from federal, state and county health officials, and to support the following objectives:

    a. To protect the health and safety of the District's employees and customers, and
    b. To ensure the continuity of water and wastewater services to the public.

3. Additionally, the Board hereby authorizes and directs the General Manager to temporarily grant relief to District customers, as follows:

    a. Avoid shutting off water service for non-payment;
    b. Discontinue the issuance of door tags and associated fees for non-payment; and
    c. Waive late charges for past due water and wastewater bills.

4. The Board shall review the above-described emergency actions at the next Board meeting and terminate those actions at the earliest possible date that conditions warrant.

**PASSED, APPROVED, AND ADOPTED** this 24th day of March, 2020.

_____
Jay Lewitt, President

ATTEST:

_____
Charles Caspary, Secretary

(Seal)

APPROVED AS TO FORM:

_____
District Counsel

March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

**Subject : Multi-Site Security Assessment Project: Contract**

## SUMMARY:

In order to take a proactive approach to addressing site security concerns, the Board authorized the issuance of a Request for Proposals (RFP) for a Comprehensive Multi-Site Security Assessment of the District's facilities and other District-owned critical infrastructure sites in November 219. Staff published an RFP inviting proposals from qualified firms. The scope of services consists of conducting an in-depth review of the District's existing site security posture based on information gathered from various internal sources and in-depth site inspections. The assessment will evaluate these findings against benchmark site security practices, which will result in a comprehensive findings and recommendations report along with a three-year roadmap for improving the physical security posture of the District. Based on a review of the submitted proposals, staff recommends Triad Consulting & System Design Group, LLC, as the selected consulting firm.

## RECOMMENDATION(S):

Authorize the General Manager to execute a professional services agreement with Triad Consulting & System Design Group, LLC, in an amount not to exceed $143,968, for the Multi-Site Security Assessment Project, and appropriate funds in the same amount.

## FISCAL IMPACT:

Yes

## ITEM BUDGETED:

No

## FINANCIAL IMPACT:

The total cost of the work is not expected to exceed $143,968, which includes a 10% contingency. Although the work was not included in the adopted Fiscal Year 2019-20 Budget,

sufficient funds are available for the work due to projected cost-savings in other areas.

## DISCUSSION:

Background:

America's Water Infrastructure Act of 2018 (AWIA) requires community water systems serving more than 3,300 people to develop or update risk assessments and emergency response plans (ERPs). A multi-site security risk assessment of the District's infrastructure and facilities will significantly enhance the District's ability to comply with AWIA. Additionally, assessing the District's physical security posture and implementing necessary technological enhancements will lead to efficient operations and fulfill the District's core mission to provide high-quality water and sanitation services.

On November 20, 2019, staff posted a Request for Proposals (RFP) for the Comprehensive Multi-Site Security Assessment Project on the District's website. The scope of the engagement is to conduct a comprehensive security risk review and make recommendations for improvements including, but not limited to, access control, video surveillance and intrusion alarm systems. From this review, the District expects to formulate standards for physical, operational and electronic measures for implementation at all pump stations, tanks and staffed locations. Staff received nine proposals for the work by the deadline provided in the RFP.

Consultant Selection:

A committee of staff from Facilities, Water Operations, Engineering, and Information Systems evaluated the nine proposals submitted based on project approach, project understanding, experience and cost. The top three ranked firms were interviewed: (1) Good Harbor Techmark, (2) Guidepost Solutions, and (3) Triad Consulting. Staff recommends selection of Triad Consulting based on its considerable experience in providing security risk assessments; recommendations for physical, operational and electronic security enhancements at water/wastewater facilities; and strategic planning to prioritize improvements to based on operational and fiscal realities.

Next Steps:

The security assessment will establish projects in a priority order that will be considered for implementation in future year's budgets.

## GOALS:

Provide Excellent Service That Exceeds Customer Expectations

Prepared by: Michael McIntyre, SCADA Systems Analyst

**ATTACHMENTS:**

Triad Consulting Proposal

# LAS VIRGENES MUNICIPAL WATER DISTRICT

**Request for Proposal**

**For**

**Multi-Site Security Assessment**

**January 10, 2020**

**Provided by:**

**Triad Consulting & System Design Group, LLC**
**Gregory W. Brandon – Principal Owner**
**2925 Mira Vista Way, Corona, CA 92881**
**tel: (949) 943-9422 fax: (951) 549-0442**
**www.triadsdg.com**
**Southern California • Portland, OR**

*TABLE OF CONTENTS*

# Transmittal Letter

Triad Consulting & System Design Group, LLC (Triad Consulting) is pleased to submit the following proposal to Las Virgenes Municipal Water District (LVMWD/District) for Security Assessment and Planning Services. Triad Consulting's expert staff has an extensive and proven range of operational, physical, and electronic security experience to provide the required services. ***Triad Consulting has the exact knowledge and expertise LVMWD requires*** and we are confident we can perform the work to exceed your expectations both on time and on budget.

Our staff have previous security assessment, planning, design experience with a long-list of water/wastewater agency clients including; Metropolitan Water Department of Southern California, Placer County Water Agency, Contra Costa Water District, Eastern Municipal Water District, Tarrant Regional Water District (TX), City of Portland (OR) Bureau of Water and Environmental Services, Massachusetts Water Resource Authority, City of Buena Park Water Department, Inland Empire Utilities Agency, Santa Clara Valley Water District, Johnson County (KS) Department of Water and Wastewater, West Basin Municipal Water District, and City of Beverly Hills Water Department.

Triad Consulting was formed by long time industry professionals who previously built and managed the largest security consulting firm in the nation. Triad Consulting's staff has considerable experience in providing security risk assessments, recommendations of physical, operational, and electronic security enhancements to water/wastewater utilities and strategic planning to prioritize improvements to meet the District's operational and fiscal realities. We have direct experience with water and wastewater treatment plants, pumping and lift stations, storage reservoirs, pump houses, dams, tank sites, groundwater wells, labs, maintenance and administration facilities.

We are confident that after reviewing the attached RFP response, LVMWD will agree that Triad Consulting is the right choice for this important project. This proposal is a firm and irrevocable offer for 90 days beyond the proposal date. Please feel free to contact me with any questions or requests for clarifications. Thank you for your consideration.

Very Truly Yours,

**Triad Consulting & System Design Group**

Gregory W. Brandon
Co-Founder and Principal
2925 Mira Vista Way
Corona, CA 92881
(T): (949) 943-9422
(E): gbrandon@triadsdg.com

** Triad Consulting is a California certified Minority and Disadvantaged Business Enterprise (MBE/DBE)*

# Part 1 – Key Personnel

**Staffing Model:** Triad Consulting & System Design Group (Triad Consulting) is the preeminent security consulting firm on the west coast for water security consulting services. Our team of ASIS credentialled senior consultants has provided security assessment, vulnerability mitigation recommendations and cost estimations, prioritized planning and electronic security design services to water agencies across the nation.

To provide Las Virgenes Municipal Water District (LVMWD or District)) with cost-effect and actionable recommendations we propose an in-house team of subject matter experts consisting of experienced and qualified operational and technological security professionals with the required combination of water sector security expertise, security management consulting, physical security planning and cost estimating, and advisory experience to undertake this contract to the complete satisfaction of the District.

**Team Credentials:** The Triad Consulting project team for this opportunity has collectively well over 100 years of industry experience; furthermore, key members of our project team possess ASIS International security credentials.

ASIS International, the preeminent international organization for security professionals, administers the CPP and PSP programs. The ASIS certification program is the first program of its kind to be awarded the **SAFETY Act Designation** by the U.S. Department of Homeland Security.

Throughout the world, the Certified Protection Professional (CPP) designation is acknowledged as the security profession's highest recognition of practitioners. It is evidence that an individual is **"Board Certified in Security Management."** The CPP™ is awarded based upon experience, education, and passage of an examination that provides an objective measure of an individual's broad-based knowledge and competency in security management.

The Physical Security Professional (PSP) credential provides demonstrated knowledge and experience in threat assessment and risk analysis; integrated physical security systems; and the appropriate identification, implementation, and ongoing evaluation of security measures. Those who earn the PSP are ASIS "**Board Certified in Physical Security".**

Following is a synopsis of the experience and qualifications of the Triad Consulting project team. An enlarged Organizational Chart of the one depicted in Diagram 1 is included in the Appendix Section of this proposal response. This team is available to commence with this important project per the Performance Schedule listed in the RFP and remain engaged through the duration of the contract.

Diagram 1- Organizational Chart

To further exemplify the project team's qualifications, a brief synopsis of each key Triad Consulting Project Team member follows.

## Gregory Brandon – Principal

Gregory "Gregg" Brandon serves as principal-in-charge for Triad Consulting. One of two co-owners, Gregg has 28 years of experience managing and providing oversight to critical infrastructure security projects across the nation. His career includes leading the nation's largest security practice for a national engineering firm. Gregg has provided oversight for comprehensive security assessment and planning projects for: Metropolitan Water District of Southern California, Los Angeles Bureau of Sanitation Services, City of Beverly Hills Water Department, and Santa Clara Valley Water District.

## Rick Withers, CPP – PM / Senior Security Consultant

Rick Withers is a Senior Security Consultant with over 30 years of experience as a security consultant, corporate CSO, Deputy Security Director for the Transportation Security Administration (TSA), Marine Corp counterintelligence office, and adjunct professor teaching security management graduate school curriculums. Rick has an extensive background in security risk management, CPTED, physical and operational security.

Rick is Board certified in Security Management as a Certified Protection Professional (CPP) and is a member of the Association of Threat Assessment Professionals (ATAP). Water security project experience includes:

- MWDSC security assessments and program review in 2013 and 2018
- SCVWD (San Jose, CA) electronic security site evaluations
- TRWD (Ft. Worth, TX) security assessments and security master plan
- PCWA (Auburn, CA) security assessments and security master plan
- CCWD (Concord, CA) Security assessments and recommendations
- Buena Park Water Department Security assessments and recommendations
- EMWD (Perris, CA) security enhancement feasibility study

## Nick Catrantzos, Lifetime CPP -Quality Assurance

Nick is senior security consultant and former head of security and emergency management for the Metropolitan Water District of Southern California. Nick contributed to multiple post-9/11 national water security panels organized by the Environmental Protection Agency, developing many of EPA's security guidelines. Nick has participated in several water vulnerability best practices volumes, in ANSI standards on facility physical security (2009), and workplace violence prevention (2011).

He taught a foundational homeland security and emergency management course for the University of Alaska's emergency management curriculum, and developed a business continuity course for Colorado Technical University. Nick holds a Master's Degree in Security Studies/Homeland Security from the Naval Postgraduate School and a Bachelor's Degree in Linguistics form UC Riverside. Water security project experience includes Director of Metropolitan Water District of Southern California's Security Unit; senior consultant for projects with TRWD, PCWA, CCWD, Buena Park Water Department, LVVWD, and SNWA.

## Dave Skusek, PSP – Electronic Systems Specialist / Senior System Engineer

Dave Skusek is a senior system engineer with over 30 years of electronic security systems consulting and design experience. Dave has contributed to the security of many of our nation's critical infrastructures through the design and engineering of electronic security systems for water and wastewater agencies, colleges and universities, iconic bridges, historic municipal structures, major airports, medical centers, transportation centers, courthouses and correctional facilities.

Dave is Board Certified in Physical Security as a Physical Security Professional (PSP) through ASIS International. He is recognized nationally as a security technology expert with an exceptional grasp of system differentiators. He has presented at security industry conferences on advanced security systems and continues to be on the forefront of the effective integration of electronic security systems. In addition, Dave has participated as a contributing expert for update of CSI Master Format Division 28 specifications. Dave is a member of ASIS International and the Building Industry Consulting Service International (BICSI). Adding benefit to Triad Consulting clients, Dave has exceptional design experience with copper, fiber, wired and wireless network infrastructures.

Dave's relevant water sector security experience includes:

- SCVWD system-wide electronic security design
- EMWD electronic security design
- PCWA security assessments and electronic security design
- MWDSC electronic security design
- WBMWD security assessments and electronic security design
- MRWD electronic security design

## Mike Ulwelling, CPP – Senior Security Consultant

Mike Ulwelling is co-founder and Managing Partner of Triad Consulting and has 27 years of broad-based experience in the security industry having worked for system and product manufacturers, integrators, and consulting firms including over 14 years as a security consultant.

Mike is Board Certified in Security Management as a Certified Protection Professional (CPP) through ASIS International and holds a bachelor's degree in electrical engineering and master's degree in business management. Mike possesses a comprehensive understanding of security management, consulting, security system design, and project/program management. In addition, Mike has vast expertise in security master planning, vulnerability assessments, security cost/benefit analysis, and electronic countermeasures. Mike is a member of ASIS International and National Fire Protection Association.

Mike's relevant water sector experience includes: Johnson County (KS) Water and Wastewater Department, Metropolitan Water Department of Southern California, Placer County Water Agency, Tarrant Regional Water District, Contract Costa Water District, and Portland (OR) Water Bureau and Bureau of Environmental Services.

# Part 2 – References

Triad Consulting has a substantial client base of satisfied public agency clients. Triad Consulting invites you to contact the included water sector references who can attest to the skill, knowledge, and experience of our team.

## Tarrant Regional Water District – Security Assessment and Security Master Plan

Ft. Worth, TX (2017-2018)

| | |
|---|---|
| *Professional Fees:* | $229,533 |
| *Client Contact:* | J.R. Cabrera, Project Manager, Tel.: 817-720-4210 |
| *Client Address:* | Tarrant Regional Water District, 600 E. Northside Drive, Ft. Worth, TX 76164 |

## Placer County Water Agency – Security Assessment, Security Master Plan. Electronic Security System Design

Auburn, CA (2016-2017)

| | |
|---|---|
| *Professional Fees:* | $240,000 |
| *Client Contact:* | Brent Smith, Director of Technical Services, Tel.: 530-823-4850 |
| *Client Address:* | Placer County Water Agency, 144 Ferguson Road, Auburn, CA 95603 |

## Metropolitan Water District of Southern California – Vulnerability Assessment Updates and Electronic Security System Design

Los Angeles, CA (2013, 2018, 2019)

| | |
|---|---|
| *Professional Fees:* | $25,000 (VA Update)<br>$25,000 (VA Update)<br>$110,000 (Electronic Security Design) |
| *Client Contact:* | Tomer Bonito, Special Agent in Charge, Tel.: 213-217-6180 |
| *Client Address:* | Metropolitan Water District of Southern California, 700 N. Alameda St., Los Angeles, CA 90012 |

## Contra Costa Water District – Security Assessment and Recommendations

Concord, CA (2017)

| | |
|---|---|
| *Professional Fees:* | $22,950 |
| *Client Contact:* | Cristina Estrella, Project Manager, Tel.: 925-688-8106 |
| *Client Address:* | Contra Costa Water District, 1331 Concord Avenue, Concord, CA 94520 |

## Buena Park Water Department – Vulnerability Assessment and Recommendations

Buena Park, CA (2015)

| | |
|---|---|
| *Professional Fees:* | $33,000 |
| *Client Contact:* | Doug Brodowski, Senior Management Analyst, Tel.: 714-452-3652 |
| *Client Address:* | Buena Park Water Department, 6650 Beach Blvd., Buena Park, CA 90621 |

# Part 3 – Qualifications and Experience

**Relevant Experience:** Triad Consulting has provided similar security assessment, recommendations development and cost estimating, and prioritized planning to numerous government-entity clients nationwide. Below is project descriptions of the water sector clients listed as references in Part 2 References of this proposal.

## Tarrant Regional Water District – Ft. Worth, TX – Multi-Site Security Assessment and Security Master Plan, 2017-2018

Triad Consulting prepared a Security Master Plan (SMP) to bring strategic direction, process, and consistency to the analysis of Tarrant Regional Water District (District) security measures to ensure appropriate risks are mitigated, appropriate staff involved at appropriate times, and implementation decisions are objective and well-documented.

Scope of the project included identifying the District's risk tolerance levels, to evaluate and provide analysis of current security measures against those risk tolerance levels, to develop a security strategic plan for determining, whether or not to implement a new security measure, defining what level of security is appropriate if implementation is warranted, and how to prioritize the implementation among other District projects, and develop a security organization. Triad Consulting led a series of workshops for the purpose of gathering information, evaluating security organizational structure, and evaluating existing current physical and electronic security.

As there was a vulnerability assessment in place, Triad Consulting focused assessment on security at 24 critical sites and new assets. Tasks for the project included creating physical and electronic standards and technical guideline specifications, developing a detailed security operations recommendation report, training TRWD physical security staff and performing gap analysis of existing security conditions verse the newly created standards. Triad Consulting delivered the final SMP detailing recommendations and cost estimates of physical, operational, and electronic security enhancements in of December, 2018. Project team members who have been assigned to the client have been Mike Ulwelling, Rick Withers, and Nick Catrantzos.

## Placer County Water Agency, Auburn, CA – Multi-Site Security Assessment and Security Master Plan, 2016-2018

Triad Consulting provided subject matter expertise on water sector security for development of a comprehensive Security Master Plan (SMP).

Triad Consulting conducted several information gathering meetings with PCWA stakeholder groups, conducted security assessments of representative PCWA facilities, and vetted a recently completed vulnerability assessment report.

In addition, Triad Consulting evaluated PCWA's security technology products and platforms to make recommendations of solutions that best fit PCWA's operational environment. Triad Consulting coordinated vendor presentations as well as prepared written product justifications. Development of physical and electronic security

standards based on asset classification, and guideline specifications detailing products and their installation allowing PCWA to introduce security standards into new construction projects.

Triad Consulting delivered draft and final versions of the Security Master Plan that outlines agency wide operational, physical, and electronic security improvements and their associated implementation costs for approximately sixty priority facilities and assets. A final plan included priority phasing of these recommendations over a ten-year implementation window. Triad Consulting is currently working on two design projects, a Pilot Project of electronic security (access control, video surveillance, alarm) system design for nine (9) PCWA facilities and a gate access control project at Bowman WTP. Project team members include Mike Ulwelling, Rick Withers, Nick Catrantzos, and Dave Skusek.

## Metropolitan Water District of Southern California - Security Assessment / Planning / Task Based Consulting / Security Program Review 2007-2019

Triad Consulting's has provided security consulting on several projects for MWDSC to help senior leadership align security strategy with operations including site visits to seventeen representative infrastructure sites in Southern California to assess and propose guard shack placement, configuration and operation for effectively controlling site access; recommended options for vehicle barrier systems to defend against the defeat of gates and access control by a vehicle ramming threat, and recommended options for integration of a perimeter alarm system with response capability. Other key projects include the evaluation and feasibility study of implementing a District-wide key control system with recommendations and ROM costs; and the conversion of the District's RAM-W assessment to VSAT.

Triad Consulting has twice, in 2013 and 2018, conducted an assessment of the overall effectiveness of MWDSC's security program and an update of the District's Vulnerability Assessment (VA) as a snapshot of security management within MWDSC.

Triad Consulting is also currently a sub-consultant to architectural firm IBI-Group, in providing physical and electronic systems design for the MWDSC headquarters building in downtown Los Angeles. Project team members include Gregg Brandon, Mike Ulwelling, Rick Withers, and Dave Skusek.

## Contra Costa Water District– Concord, CA – Security and Access Control Assessment 2017

Contra Costa Water District (CCWD) selected Triad Consulting to conduct an assessment of three surface water treatment facilities to review current site security equipment and protocols, identify best management practices and potential deficiencies, and provide recommendations for site security and access control improvements including surveillance cameras, alarms, lighting, and perimeter fencing.

Using ASCE/AWWA Guidelines for Physical Security of Water Utilities as a benchmark, the project included on-site evaluations at three treatment plants, review of existing security verse best management practices, and discussions with key stakeholders and staff regarding security concerns. A draft and final report that documented findings,

recommendations, and cost estimates was presented to CCWD on time and on budget.

## City of Buena Park Water Department – Buena Park, CA - Vulnerability Assessment and Report 2015

The City of Buna Park is a city in northwestern Orange County, California with a population of 82,000. Buena Park's Department of Public Works selected Triad Consulting to perform a vulnerability assessment of its water system. Triad Consulting met with Water and Public Works Department stakeholders and visited critical infrastructure sites including reservoirs, wells, booster station, chemical tanks, city yard facility, and SCADA system and servers.

Findings and recommendations were contained in a comprehensive vulnerability assessment report delivered to the City. As a follow-on to this project Triad Consulting was contracted in 2016 to develop physical and electronic security to the City's Boiserranc Well. Project team members who have been assigned to the client have been Gregg, Brandon, Rick Withers, Nick Catrantzos, and Dave Skusek.

## Other Water Sector Security Projects

- City of Portland, Bureau of Water/Bureau of Environmental Services – Multi-site assessments
- Eastern Municipal Water District – Physical and electronic security design
- Inland Empire Utilities Agency – Security assessments and electronic security preliminary design report
- Massachusetts Water Resources Authority – risk and resilience assessment
- California Department of Water Resources – construction administration

## Other Multi-Site Security Assessment / Security Master Plan Projects

- City of Riverside, California – Department of Emergency Services
- City of Temecula, California – Department of Transportation
- City of Albuquerque, New Mexico
- Jefferson County, Colorado – Courts and Administration Facilities
- Canyon County, Idaho – Facilities Management Division
- Riverside County, California – Transportation & Land Management Agency
- King County, Washington – Facilities
- Management Division
- University of California, Irvine – Facilities Management Division

# Part 4 – Detailed Proposal

## Approach and Task Based Detailed Proposal

Triad Consulting & System Design Group (Triad Consulting) is well versed in physical security assessments, audits verse industry best practices, and development of prioritized mitigation measures to assist water and other critical infrastructure stewards with meeting their security needs. Triad Consulting is well versed with industry security guidance, our project methodologies are consistent with the *ASCE/AWWA "Guidelines for the Physical Security of Water Utilities"* and *ANSI/AWWA G430 Standard "Security Practices for Operation and Management"*.

In order to deliver actionable site assessment reports as well as a "prioritized roadmap" (3-year plan) that brings strategic direction, process, and consistency to implementation of physical, operational, and electronic security measures for the District, Triad Consulting anticipates taking this multi-tasked approach:

### Task 1: Kick-Off / Information Gathering Meetings and Site Assessment

To meet the desired performance schedule of the District, Triad Consulting will launch this project within one week of an executed agreement and notice to proceed with a project kick-off and information gathering meetings.

Meetings: The kick-off meeting with District project manager will be to confirm project objectives, present the scope of work and schedule, and establish communication protocols. Agendas will be prepared for the kick-off and every subsequent meeting with District staff.

The goal of the information gathering meeting will be to discuss the current security posture of the District's water and wastewater assets. Suggested attendees of the meeting include key stakeholders as determined by the District (typically representatives of security, operations, facilities, engineering, and administration including human resources and IT).

Triad Consulting will lead discussion of the framework within which the security function exists within District, with particular emphasis to tracing linkages of security stewardship to key management functions and responsibilities as documented in related policies, official assignment of security responsibility. This will typically provide benefit in identifying potential, low-cost to implement, operational and procedural improvements that can be employed.

Triad Consulting will request relevant data and background information (as available) which includes those security-related mandates that the District is currently using as the basis for its existing security program or for implementation of security controls and devices. This may include internal and external vulnerability assessments, recent incident history, management reports impinging on the protective function of safeguarding District assets, and site drawings.

Objectives include:

a) Identify threats to District people and assets that will form the basis of security enhancement recommendations.

b) Perform an Achilles' heel analysis, namely a review of existing security measures, incident histories, and special concerns of key management and staff with institutional memory who possess unique insight into previous and current implementation challenges facing the District's security program.

Site Security Assessments: Triad Consulting will conduct comprehensive site security assessments of all of the District sites listed in the RFP in the following sequence; first priority will be the "Main Facilities" listed in the RFP followed by all others (pump stations, tank sites, and

miscellaneous facilities) in accordance with proximate geographic locations to maximize efficiency in the assessment of multiple sites per day.

The site security assessment will consist of District facility perimeters, fences, gates, signage, parking, building exteriors, control rooms, IT and OT rooms, asset storage, emergency generators, and lighting.

On-site observations include review of existing physical and electronic security elements, CPTED features, and evaluation of operational security protocols at the site to identify potential vulnerabilities. Existing security systems will be evaluated for effectiveness, gaps in application or coverage, and best industry practices.

Triad Consulting affirms that the on-site assessments can be accomplished within the Performance Schedule of the RFP and be completed by the end of February, 2020. All assessments will be conducted by an ASIS credentialled, senior staff.

## Task 2: Development of Site Security Assessment Reports / Recommendations Workshop

Triad Consulting will move the project into a recommendations phase with the development of site security assessment reports with mitigation measures to enhance security and reduce risk. Triad Consulting will provide reports with actionable, detailed recommendations operational, physical, and electronic security improvements. Each improvement will have an associated estimate of cost to implement.

Each site security assessment report will be reviewed for quality assurance prior to submission to the District. The individual site security reports will be delivered to the District as completed and reviewed. This task will be finalized by the end of March. *Note: the individual site security reports and the incorporated recommendations will be aggregated into the Multi-Site Security Roadmap during the next task.*

At the conclusion of the site security assessment reports, Triad Consulting will lead a workshop with District stakeholders to discuss and prioritize improvements recommended in the site security assessment reports. This will allow for the vetting of recommendations, discussion of budgets and fiscal realities, critical facility priorities, and build consensus for security enhancement implementation strategies.

## Task 3: 3-Year Multi-Site Security Roadmap

Informed by the recommendations workshop and site security reports, Triad Consulting will develop a 3-Year Multi-Site Security Roadmap that will aggregate recommended security enhancement measures and their estimated costs, categorize measures into physical, operational, and electronic enhancements, and prioritize implementation into a 3-year plan consistent with budgets discussed in the recommendations workshop.

Following the delivery of the draft 3-Year Multi-Site Security Roadmap, Triad Consulting will attend an on-site debriefing meeting to discuss the document and solicit feedback. Triad Consulting will incorporate feedback into delivery of a final 3-Year Multi-Site Security Roadmap after sufficient District stakeholder review and consolidation of comments. Triad Consulting affirms that the draft 3-Year Multi-Site Security Roadmap will be completed by the end of April, 2020. *Note: From previous experience in similar projects District stakeholders will probably require 3-4 weeks to provide review comments. Triad Consulting will have a final version of the 3-Year Multi-Site Security Roadmap to the District with 2-3 weeks of receipt of the District's review comments. It is our experience that anticipated comments are minor in nature.*

## Project Methodology and Controls:

To provide expertise and resources on a wide variety of security matters, Triad Consulting has developed a management infrastructure to provide the means to perform contracts in accordance with project scopes and contract general requirements. Our infrastructure for managing projects includes:

- Project Management System
- Quality Assurance (QA) Program

## Project Management System:

Project Manager: Each Triad Consulting project is assigned a Project Manager, who holds primary responsibility for a project within Triad Consulting, including the following:

- Planning the project and ensuring that appropriate resources (including staff) are available.
- Compiling (and distributing to the project team) project-specific written guidelines that define the scope of work, individual staff assignments, deliverables or other work budgets, schedules, and any other project requirements.
- Conducting the Project Initiation Meeting.
- Defining, documenting and implementing applicable QA and QC requirements and ensuring that necessary procedures are approved and issued.
- Managing the technical, administrative, and financial aspects of the project, including client and regulatory agency contacts, as required.
- Being available to the project team for action or direction on any issues requiring management or technical support.
- Managing all contractual requirements and meeting the project objectives within budget and schedule.
- Maintaining adequate communication with the client project contact regarding all material aspects of the project, including expenditures, progress, any problems and recommended solutions, and issues that require decisions on technical or operational matters.
- Keeping appropriate project personnel informed on all material matters related to the project.
- Provides the final review and approval of all project deliverables or outputs prior to issue to ensure quality of the product or service.

## Quality Assurance (QA) Program:

Triad Consulting provides consultation and technical services to industry and government clients. It is Triad Consulting's policy to integrate quality programs into each project or work endeavor. This commitment to quality enables Triad Consulting to provide diverse services of consistently superior quality. Triad Consulting's QA Program promotes the achievement of quality and performance objectives by planning and documenting the quality requirements for services and processes applicable to specific projects.

## Part 5 – Cost

Triad Consulting & System Design Group, LLC (Triad Consulting) is pleased to submit the following Price Proposal to Las Virgenes Municipal Water District for *RFP Multi-Site Security Assessment*.

Fee: Based on the overall project requirements described in the Scope of Work and Performance Schedule listed in the RFP, together with the Detailed Proposal of tasks described in Part 4 of this response, Triad Consulting **proposes a total not-to-exceed fee of $130,880.00 plus reimbursable expenses for mileage**. A Fee Sheet listing costs and hours by labor category in included in the Appendix Section of this proposal.

Anticipated Effort: Triad Consulting estimates this project to require approximately 731 hours of professional service. *We welcome the opportunity to engage in detailed discussions in regard to the scope of work and anticipated tasks to provide LVMWD with the exact professional services to meet the project requirements in the most cost-beneficial manner.* As a note, the quoted fee and anticipated level of effort includes on-site assessment and individual survey reports for each District site listed in the RFP.

Reimbursable Expenses: Triad Consulting will bill for personal vehicle mileage at the GSA rate established at $.575 for the year 2020. We estimate total reimbursable expense fees of $2,214.00

Progress Invoices and Supplemental T&M Services: Triad Consulting will bill progress monthly for basic and supplemental services according to the following hourly rates.

| PROFESSIONAL FEES | PER HOUR |
|---|---|
| Project Director | $200 |
| Quality Assurance | $180 |
| PM/Senior Security Consultant | $180 |
| Senior System Engineer | $170 |
| Technical Services | $110 |

Triad Consulting does not bill for miscellaneous project administration. Triad Consulting's payment terms are Net 30 days.

Schedule: Triad Consulting confirms that based on a project Notice to Proceed of January 27, 2020 the project will be completed by April 24, 2020. We concur with the RFP estimate a project duration of 13 weeks.

## Part 6 – Consultant Agreement Review

Triad Consulting has reviewed the RFP and takes no exceptions to the RFP's Conditions Governing the Request for Proposal nor the terms and conditions presented in Exhibit A – Consultant Agreement of the RFP.

Triad Consulting affirms that we will provide insurance coverage consistent with the limits listed in the RFP.

# Appendix

Project Organization Chart

Resumes – Key Staff

Triad Consulting Fee Sheet (Rates and Hours by Task and Classification

TRIAD CONSULTING
SYSTEM DESIGN GROUP

# Proposed Project Organization Chart

LAS VIRGENES MUNICIPAL WATER DISTRICT
EST. 1958

**Principal**
Gregory Brandon

**Project Manager**
Rick Withers, CPP

**Quality Assurance**
Nick Catrantzos, CPP

**Security Assessment Team**
Rick Withers, CPP
Dave Skusek, PSP
Mike Ulwelling, CPP

# GREGORY W. BRANDON – Principal

## EDUCATION

- B.A., Communications

  California State University, Fullerton, 1984

## PROFESSIONAL AFFILIATIONS

- ASIS International (formerly American society for Industrial Security
- IAPAC (International Association of Professional Security Consultants
- FBI InfraGard

## AREAS OF EXPERTISE

Mr. Gregory Brandon has over 28 years in security management, design and implementing large integrated security projects. With a broad knowledge and hands on experience in operational, electronic, and physical security, providing strategic oversite, consulting of technical systems and security management for critical infrastructure projects.

Mr. Brandon has developed expertise in the following areas:

- Strategic Team Building
- Client Relations/Scope Development
- System Design
- Project Management
- Quality Control/Assurance
- Security Management
- Assessments
- Planning
- Operations

## REPRESENTATIVE EXPERIENCE

Mr. Brandon is one of the founders of Triad Consulting & System Design Group, LLC and has been a security management Principal for over 15 years. Prior to that, Mr. Brandon worked for well-respected security integrator while developing strong relationships with manufacturers and developing industry knowledge and experience with access control, video surveillance, intrusion, paging , emergency phones, fire/life-safety and audio/visual systems. He has expertise in threat mitigation measures for critical infrastructure sectors including but not limited to, transportation, commercial airports, seaports, roadways, bridges, municipalities, energy, chemical, universities, healthcare, water and wastewater, high-tech manufacturing facilities, and corporate headquarters.

## SELECTED PROJECT EXPEREINCE

### Principal

Metropolitan Water District of Southern California, Multiple Projects, Los Angeles, CA

University of California at Irvine, Campus-Wide Security Master Plan—Irvine, CA

San Diego County Regional Airport Authority (SDRAA), Technology and Security Upgrade Projects—San Diego, CA

City of Buena Park Water Department, Security Assessment & Planning—Buena Park, CA

Port of Houston Authority, Port-Wide Security Enhancement – Houston, TX

## Gregory W. Brandon

***Principal***

Principal
Delaware River Port Authority, Core Assessment and Electronic Security System Design –Camden, NJ

Kinder Morgan Energy, Multiple Port Facility Security Plans – Nationwide

City of Palmdale, Assessment and Video Surveillance Evaluation – Palmdale, CA

Los Angeles Trade Technical College, Campus-Wide Security Enhancements, Los Angeles, CA

New York City DOT/US Army Core of Engineers, East River Bridges, Security Design Services – New York, NY

Georgia Ports Authority, Multiple Facility Security Plans – Savannah, GA

San Diego Metropolitan Transit System, Multiple Video Surveillance Projects – San Diego, CA

University of Southern California, Access Control & CCTV Expansion Program – Los Angeles, CA

Massachusetts Bay Transit Authority, System Wide Secure Stations – Boston, MA
City of Los Angeles, Security System Upgrade Program – Los Angeles, CA

New York Power Authority, Assessments and CIP Compliance – White Plains, NY

University of California, Irvine, Multiple Security Planning and Design Projects – Irvine, CA

Torrance Transit, Regional Transit Center Security Design – Torrance, CA

Alpert Jewish Community Center, Video Surveillance Upgrades – Long Beach, CA

City of Albuquerque, Department of Transportation, Security Assessments and Electronic Security Enhancements Conceptual Design – Albuquerque, NM

Los Angeles County Public Branch Library, Low-Voltage Design – Stevenson Ranch, CA; Hacienda Heights, CA; Rowland Heights, CA

City of Beverly Hills, Assessment and Security Enhancement Project

Cal State University Fullerton, Campus-Wide Fire Alarm Design – Fullerton, CA

Port of Long Beach, Physical Security Management Platform Evaluation – Long Beach, CA

Port of Los Angeles, On-Call Security – Los Angeles, CA

TRIAD CONSULTING
& SYSTEM DESIGN GROUP, LLC

# *RICHARD* A. WITHERS, CPP, CMAS, CISM
# SENIOR CONSULTANT

## EDUCATION

- M.A., Security Management
  Webster University, San Diego Campus, 1997
- M.A., Computer Resources and Information Management, Webster University, San Diego Campus, 1997
- B.S., Criminal Justice and Criminology, University of Maryland, University College, 1994
- Former Adjunct Professor, University of Phoenix Online, College of Criminal Justice & Security: Security Management and Criminal Justice Graduate Programs

## PROFESSIONAL REGISTRATIONS / CERTIFICATIONS

- Certified Protection Professional (CPP), ASIS International, (#727521), 1997
- Certified Master Anti-Terrorism Specialist (CMAS), Anti- Terrorism Accreditation Board, 2007
- Certified Information Security Manger (CISM), Information Systems Audit and Controls Association, (#0404401), 2003
- Certified in Homeland Security – CHS-III, (#101568), 2003;
  Fellow, American Board for Certification in Homeland Security, 2015
- Infrastructure Liaison Officer (ILO), FBI - InfraGard-Los Angeles Chapter / DHS, 2010
- Infrastructure Protection Certificate, DHS - TEEX, 2017

## AREAS OF EXPERTISE

- Security Master Planning
- Threat and Vulnerability Assessment
- Enterprise Security Risk Management & Security Technology Convergence
- Project Management
- Counter-Terrorism / Counterintelligence / TSCM

## REPRESENTATIVE EXPERIENCE

Mr. Withers is an internationally recognized subject matter expert with over 34 years of experience within the security industry. He is a Fellow, American Board for Certification in Homeland Security and Board Certified in Security Management as a Certified Protection Professional with an extensive background in Enterprise Security Risk Management; development, creation, and expansion of security policies, requirements, procedures, guidelines, specifications and organizational security architectures. His tenure as the Chief Security Officer (CSO) for several technical and Fortune 500 companies allows him to provide clients with expertise regarding security risk management, physical, personnel, privacy, project, information, and cyber security. As a retired Counterintelligence Officer, Mr. Withers provides a solid hands-on background in force protection, counter-terrorism, counter-espionage, and Technical Surveillance Countermeasures (TSCM). He served as a Deputy Federal Security Director with the Transportation Security Administration, and is thoroughly familiar with laws, mandates, and recommendation for the Department of Homeland Security along with those homeland security requirements for utilities, ports, airports, and other transportation facilities. Mr. Withers is a member of the Association of Threat Assessment Professionals (ATAP) and InfraGard, an information sharing and analysis partnership between the Federal Bureau of Investigation (FBI) and the private sector.

## SELECTED PROJECT EXPEREINCE

### UTILITIES

*Massachusetts Water Resources Authority, Risk & Resilience Assessment —Boston, MA (2019)*

- — Vulnerability Assessments of 3 critical infrastructure sites
- — Review Security Management Practices verse AWWA G430 Standard

*Eastern Municipal Water District, Gate Security Enhancement — Perris, CA (2019-present)*

- — Site Assessments
- — Gate operations and security review
- — Physical and Electronic Security Recommendations
- — Guardhouse Study and Recommendations

*Metropolitan Water District of Southern California, Security Program Review —Los Angeles, CA (2018)*

- — Vulnerability Assessments of 8 critical infrastructure

sites and VA update
- Security Operations Review
- Security Plan Update

*Tarrant Regional Water District, Security Assessments and Security Master Plan Consulting – Fort Worth, TX (2017 – 2018)*
- *Security Organization Concept of Operations*
- *Security Master Plan*
- *Vulnerability Assessments of 24 Facilities*

*Contra Costa Water District, Security Assessments and Recommendations Report – Contra Costa, CA (2017)*
- *Security Assessments of 3 Water Treatment Plants*
- *Recommendations Report*

*Placer County Water Agency, Security Master Plan Consulting – Auburn, CA (2016 – 2017)*
- *Security Standards Development*
- *Security Master Plan*
- *Security Assessments of 68 Facilities*

*City of Buena Park Water Department, Vulnerability Assessment & Planning; and Security Upgrade for Boiserranc Well Consulting —Buena Park, CA (2015 & 2016)*
- Vulnerability Assessment
- Recommendations Report
- Security Upgrade and Recommendations for Boiserranc Well

*Metropolitan Water District of Southern California, Security Program Review —Los Angeles, CA (2013)*
- Vulnerability Assessments of 9 new or refurbished critical infrastructure sites and VA update
- Security Operations Review
- Security Plan Update

*Santa Clara Valley Water District, Security Planning Study Consulting —San Jose, CA (2008-2009)*
- District-wide site surveys and needs analysis of 23 sites

*New York Power Authority, Security Assessments and CIP Compliance Consulting —White Plains, NY (2008-2010)*
- Vulnerability Assessments
- NERC CIP Compliance

*Metropolitan Water District of Southern California, Task Based Security Consulting —Los Angeles, CA (2006-2008)*
- Assess Remote Site Entry Control Structures
- Vehicle Barrier System Study
- Perimeter Alarm Study
- Institutional Key Control Study
- VSAT Conversion

*City of Beverly Hills Water Department, Security Enhancement Project Consulting —Beverly Hills, CA (2006)*
- Site Surveys of Water Department Assets

**OTHER SECURITY ASSESSMENT PROJECTS**

*City of Portland, OR, Security Assessments and Security Master Plan Consulting – Portland, OR (2017 – 2018)*
- *Security Assessments of 92 Facilities*
- *Security Master Plan*

*Canyon County, ID, Vulnerability Assessments and Security Master Plan Consulting – Caldwell, ID (2017 – 2018)*
- *Security Assessments of 18 Facilities*
- *Security Master Plan*

*City of Riverside, CA, Urban Area Security Initiative Consulting – San Bernardino & Riverside, CA (2017)*
- *Security Assessments of 73 Facilities*
- *Entry of Assessments into the California Common Operating Picture (CalCOP) Software Platform.*

*Riverside County, CA, Task Based Security & Technology Consulting – Riverside, CA (2017)*
- *Transportation & Land Management Agency*
  - *Security Assessment of 20 TMLA locations*
  - *Recommendation Reports*

*Detroit Regional Convention Facility Authority / COBO Center Video Surveillance Plan Consulting – Detroit, MI (2016)*
- *Security Assessments*
- *Video Surveillance Location Analysis*

*City of Albuquerque Department of Transportation (ABQ Ride), Security Assessments, Operational Consulting, Conceptual Design, Security Master Plan — Albuquerque, NM (2014-2015)*
- Security Assessment of 18 Facilities, Operational Security Consulting, Electronic Security Conceptual Design, Security Master Plan
- Long-Range Plan Report

*University of California, Irvine, Security Assessments and Security Master Plan Consulting —Irvine, CA (2014-2015)*
- Vulnerability Assessment of 120 buildings
- Security Master Plan Report

*Metropolitan Transportation Authority of Harris County (Houston Metro), Security Assessment, Security Master Plan Consulting —Houston, TX (2011-2012*
- Vulnerability Assessment of 83 Facilities
- Security Master Plan

*Johnson County, Kansas, Vulnerability Assessment and Security Master Plan Consulting —Olathe, KS (2010)*
- Security Assessment 100+ buildings
- Security Master Plan

*King County Washington, Security Assessments and Security Master Plan Consulting —Seattle, WA (2009-2010)*
- Security Assessment 33 buildings
- Security Master Plan

*City of Palmdale, Facility Security Assessments*
*Consulting —Palmdale, CA (2007-2008)*
- Vulnerability Assessment of 27 buildings
- Security Master Plan

*Massachusetts Bay Transit Authority, Secure Station Initiative*
*Consulting —Boston, MA (2006)*
- Vulnerability Assessment of 100+ Facilities

*University of Southern California, Security Expansion Project*
*Consulting – Los Angeles, CA (2006)*
- Security Assessments of 100+ buildings

*Kinder Morgan Energy, Marine Terminal Facility Security Plans Consulting – 30 Locations Nationwide (2004)*
- Security Assessments
- Facility Security Plans, Coast Guard Approval

**PROFESSIONAL AFFILIATIONS**

- Anti-Terrorism Accreditation Board (ATAB)
- American Board for Certification in Homeland Security (ABCHS)
  - Diplomat (2013 – 2014)
  - Fellow (2015 – Present)
- ASIS International
  - Co-Chairman (2015 & 2016), Security Applied Sciences Council
  - Past Chairman (2004 & 2005), Information Technology Security Council
- Association of Threat Assessment Professionals (ATAP)
- FBI - InfraGard
- Information System Auditing and Controls Association (ISACA)
- Information Security Systems Association (ISSA)
- Marine Corps Counterintelligence Association (MCCIA)
  - Vice-Chairman of the Board (2014 – Present)

# DAVID A. SKUSEK, PSP
# SENIOR SYSTEMS ENGINEER

## EDUCATION

- A.A., Electronics Engineering-Communications, 1st Class FCC License, Milwaukee Area Technical College, 1980
- A.A., Electronics, Radio & Television Program, Milwaukee Area Technical College, 1978
- Engineering, Computer Sciences, University of Wisconsin, 2 years, 1976

## PROFESSIONALREGISTRATIONS / CERTIFICATIONS

- Physical Protection Professional (PSP) ASIS International, 2007

## AREAS OF EXPERTISE

- Vulnerability Assessments
- System Design and Engineering for the following:
  - Electronic Access Control Systems
  - Perimeter and Intrusion Detection Systems
  - Intercom Systems
  - Technology Infrastructure – copper, fiber, wired and wireless networks
  - Video Surveillance Systems – cameras, management software, storage, displays
  - Low Voltage Systems – communications, audio/visual, M/C/SATV, fire alarm
- New and Existing Technology Evaluations
- Needs/Gap Analysis – Security, Infrastructure
- Bid Assistance, Construction Administration and Integrated System Commissioning

## REPRESENTATIVE EXPERIENCE

Since 1981, Mr. Skusek has worked in the Automation and Security industry providing professional services for all types of cliental including Municipal, Transportation, Education, Healthcare, Aviation, Water/Wastewater, and Hospitality providing engineering for Video Surveillance, Access Control, Perimeter and Intrusion Alarm, Fire Alarm, Communications and Infrastructure systems. With a strong focus on technology, Mr. Skusek has developed and provided innovative strategies to meet client needs.

## SELECTED PROJECT EXPEREINCE

### WATER/WASTEWATER

*Metropolitan Water District of Southern California, Headquarters Electronic Security Improvement – Los Angeles, CA (2019-present)*

- — Alarm, Access Control, Video Surveillance
- — Site-Survey, Technical Memorandums, Drawings, Technical Specifications, Cost Estimations
- — Preliminary Design, Construction Documentation, Bid Assist, Construction Administration Phases

*Placer County Water Agency, Electronic Security Pilot Project – Auburn, CA (2019-present)*

- — Alarm, Access Control, Video Surveillance
- — Site-Survey, Drawings, Technical Specifications, Cost Estimations
- — Preliminary Design, Construction Documentation, Bid Assist, Construction Administration Phases

*Eastern Municipal Water District, Gate Security – Perris, CA (2019)*

- — Electronic Security Systems Subject Matter Expert
- — Electronic Security Systems Recommendations and Cost Estimates

*Placer County Water Agency, Security Assessments and Security Master Plan – Auburn, CA (2016-2017)*
- Security Assessments
- Physical and Electronic Security Guideline Specifications
- Peer Review Electronic Security Ophir WTP

*City of Buena Part Water District, Vulnerability Assessment – Buena Park, CA (2015)*
- Electronic Security Systems Subject Matter Expert
- Electronic Security Systems Recommendations and Cost Estimates

*West Basin Municipal Water District, Security System Upgrades – Carson, CA (2010-2012)*
- Alarm, Access Control, Video Surveillance, Intercom, Security WAN
- Site Surveys, Design Criteria, Drawings, Technical Specifications, Cost Estimates
- Preliminary Design, 90% and 100% Construction Documents, Bid Assist, Construction Administration

*Santa Clara Valley Water District, Security System Design – San Jose, CA (2009-2012)*
- Alarm, Access Control, Video Surveillance, Intercom, Physical Security
- Planning Study Report, Drawings, Technical Specifications, Cost Estimates
- Feasibility, 30%, 60%, 90% and 100% Construction Documents, Bid Assist

*Orange County Sanitation District, Plant No. 1 Security Enhancements – Fountain Valley, CA (2009-2011)*
- Access Control, Video Surveillance, Intercom
- Site Survey, Technical Memorandums, Drawings, Technical Specifications, Cost Estimations
- Preliminary Design, Construction Documentation, Bid Assist, Construction Administration Phases

**OTHER**

*Detroit Regional Convention Facilities Authority (DRCFA), CCTV System and Related Security Assessment - Cobo Center, Detroit, MI (2016)*
- Electronic Security Systems Assessment
- Recommendations Report & ROM Estimates

*University of California, Irvine, Security Master Plan – Irvine CA (2014-2015)*
- Assessment Team Electronic Security Systems Expert
- Assessments, System Recommendations Cost Estimations

*Albuquerque, Department of Transportation, Long-Range Security Planning – Albuquerque, NM (2014)*
- Alarm, Access Control, Video Surveillance, Intercom
- Assessments of Facilities, Upgrade Recommendations, Conceptual Design, Cost Estimates

*Kaiser Permanente, Regional Security Master Plan Phase 2 – West Los Angeles – (2011)*
- Security System Assessments
- Survey of West Los Angeles Medical Center and Eight Medical Office Buildings, Non-Conformance Narratives, Drawings, Cost Estimates

*San Diego Metropolitan Transit, 8-Station Video Surveillance Project – San Diego, CA (2009-2010)*
- Video Surveillance, Infrastructure
- Site Assessments, Drawings, Technical Specifications, Cost Estimates
- Preliminary Design, 90% and 100% Construction Documents, Bid Assist, Construction Administration

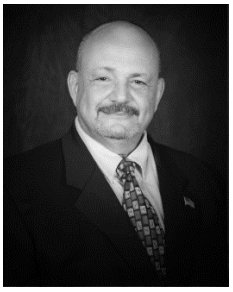
*Orange County Transportation Authority, Four Bus Operations and Maintenance Facilities Security Upgrade – Irvine, Anaheim, Garden Grove; CA (2009-2011)*
- Alarm, Access Control, Video Surveillance, Intercom, Perimeter Fencing
- Site Assessments, Drawings, Technical Specifications, Cost Estimates
- Preliminary Design, 50% and 100% Construction Documents, Bid Assist, Construction Administration

*New York City Department of Transportation, Security Design for East River Bridges – New York, NY (2006-2010)*
- Video Surveillance, Video Analytics, Alarm, Access Control, WAN, Electronic Bollards
- Site Assessments, Technology Evaluations, Historical Preservation, Design Criteria, Drawings, Technical Specifications, Cost Estimations
- Preliminary Design, 30%, 60%, 90% and 100% Construction Documents

*Delaware River Port Authority, Core Facilities Assessment and Plan – Camden, NJ (2003-2006)*
- Security Assessment
- Site Assessments, Vulnerability Mitigation Recommendations, Cost Estimates
- Preliminary Design, SD, DD, CD, Bid Assist, Construction Administration Phases

*City of Los Angeles Department of General Services, Wide Area Integrated Security System – Los Angeles, CA (2000-2006)*
- Alarm, Access Control, Video Surveillance, Intercom, WAN
- Assessments of Thirteen Buildings, Technology Evaluations, Drawings, Technical Specifications, Cost Estimates

# NICK CATRANTZOS, CPP
# SENIOR SECURITY CONSULTANT



## EDUCATION

- Bachelor's Degree, Linguistics, University of California, Riverside (Magna cum laude)
- Master's Degree, Security Studies/Homeland Security, Naval Postgraduate School, Monterey, CA
- Former Adjunct Professor, University of Alaska Online, Homeland Security and Emergency Management: Emergency Management Program School of Business

## PROFESSIONALREGISTRATIONS / CERTIFICATIONS

- Certified Protection Professional (CPP), ASIS International 1997, (life-time designation)
- Risk Assessment Methodology (RAM) – Sandia National Laboratories (2002)
- FEMA/EMI: Emergency Program Manager (1993), National Incident Management Systems (2004), Incident Command (2005)

## AREAS OF EXPERTISE

- Security Master Planning
- Threat and Vulnerability Assessment
- Security Program Development
- Insider Threat
- Policies and Procedures
- Workplace Violence Prevention
- Facility Physical Security
- Project Management
- Counter-Terrorism

## REPRESENTATIVE EXPERIENCE

Mr. Catrantzos is the former head of security for the Metropolitan Water District of Southern California, he contributed to three post-9/11 national water security panels organized by the Environmental Protection Agency, developing many of EPA's security guidelines (i.e. "features for an active and effective security program"), and ultimately earning the 2007 Boyd Award of the Association of Metropolitan Water Agencies for "extraordinary personal service in the drinking water field and in the industry's efforts to develop tools to secure the nation's water supplies." During this period he also served on the board of the California Utilities Emergency Association, a leading model of the public-private partnership. In 2009, he graduated from the Naval Postgraduate School's Homeland Security Master's Program, where Catrantzos won top writing honors for his thesis on insider threats to critical infrastructure.

In May 2012, CRC Press published his textbook, Managing the Insider Threat: No Dark Corners. Prior to this work, the American Society for Industrial Security (ASIS) commissioned and published his research report, Tackling the Insider Threat. Additionally, Nick's work frequently appeared in best practices volumes (Security Business Practices Reference: Professional Practices for Security Managers Seeking to Improve their Organizations, by ASIS) in national or ANSI standards on facility physical security (2009) and workplace violence prevention and intervention (2011).

Earlier in his career, as an intelligence collector, he was awarded the Meritorious Service Medal for outstanding service to two government agencies. He was later recognized by Lockheed corporate headquarters for applying his intelligence skills to locating company hostages trapped in Iraq, delivering daily threat briefings to operating companies in the build-up to the first Gulf

War, and debriefing Lockheed hostages upon their safe return.

## SELECTED PROJECT EXPEREINCE

### WATER INFRASTRUCTURE

*Placer County Water Agency, Strategic Security Business Planning—Auburn CA (2016- 2018)*

- Project Management
- Meetings and Site Surveys
- Strategic Plan Report

*City of Buena Park Water Department, Vulnerability Assessment & Planning—Buena Park, CA (2015)*

- Vulnerability Assessment
- Recommendations Report

*Tarrant Regional Water District, Physical Security Master Plan —Ft. Worth, TX (2017)*

- Security Management Consulting Policies and Procedures
- Security Management Consulting Security Organization Structure

*Metropolitan Water District of Southern California, Security Unit Director —Los Angeles, CA (2003-2011)*

- Rebuild Security, Emergency Response, Investigations, and Business Continuity
- Plan and Implement $26M Capital Improvement Program
- Created 24-hour Security Watch Center for monitoring and Response to Threats at 70 Critical Facilities
- Created and Implemented Security and Crisis Management Policies
- SME on Three national EPA Panels

*Southern Nevada Water Authority, Vulnerability Assessment – Las Vegas, NV (2002)*

- RAM-W Vulnerability Assessment
- Recommendations Report

*Las Vegas Valley Water District, Vulnerability Assessment – Las Vegas, NV (2002)*

- RAM-W Vulnerability Assessment
- Recommendations Report

*Metropolitan Water District of Southern California, Manager, Security and Emergency Response —Los Angeles, CA (1995-1999)*

- Consolidated Security and Emergency Response Functions
- Instituted Enterprise-wide Training on Emergency Readiness
- Led Staff in Obtaining Incident Commander Certifications
- Led First-of-its-Kind Emergency Exercise Involving 703 Participants, 49 Agencies, and 3 States

### SPECIALIZED TRAINING

- Collection Skills Course (CIA)
- Armed Forces Air Intelligence Training Program (USAF)
- Strategic Interrogation (Joint Strategic Interrogation Wing)
- Evasion and Escape Training (Special Forces field exercises)
- LORE/EXETOR Consulting Skills (McKinsey)

### BEST PRACTICES

- Author of text, Managing the Insider Threat: No Dark Corners, CRC Press, 2012.
- Contributed to national security standards, including Facility Security and Workplace Violence ANSI standard through American Society for Industrial Security (ASIS).
- Sole representative from California selected as subject matter expert for three consecutive national panels tasked with making security recommendations for a national critical infrastructure. Initial panel was an advisory committee under the Federal Advisory Committee Act, the Water Security Working Group of the National Drinking Water Advisory Council.
- Recognized with 2007 national award from Association of Metropolitan Water agencies for "Outstanding Contributions to Infrastructure Security of the Water Sector."
- Repeat contributor, Security Business Practices Reference: Professional Practices for Security Managers Seeking to Improve their Organizations, and repeat presenter at annual seminar and exhibits of ASIS.
- Served on board of directors of California Utilities Emergency Association, a unique public-private partnership serving utilities and the Governor's Office of Emergency Services, which supplied it with office space and called upon CUEA member utilities to provide subject matter experts during state-declared disasters.
- Interviewed by Fox News (Neil Cavuto), Los Angeles Times, Toronto Globe, New York Times, et al on protection, crisis response, terrorist threats, and post - 9/11 national security issues.

# MICHAEL J. ULWELLING, CPP

## EDUCATION

- B.S., Electrical Engineering
  Marquette University, Milwaukee, WI

- M.B.A, Business Administration
  Pepperdine University, Malibu, CA

## PROFESSIONALREGISTRATIONS / CERTIFICATIONS

- Certified Protection Professional (CPP),
  ASIS International, 2006 (#11988)

- Certified AWWA: AWIA

## PROFESSIONAL AFFILIATIONS

- ASIS International *(formerly American Society for Industrial Security)*
- National Fire Protection Association (NFPA)

## AREAS OF EXPERTISE

Mike Ulwelling with over 27 years of experience in the security and alarm industries is a Physical Security and Fire Alarm professional who has broad experience providing strategic oversight, consulting, and system design to critical infrastructure entities and private industry in water, wastewater, transportation, education, healthcare, municipal government, energy, cultural, faith-based organizations, hospitality, corporate, and industrial clients.

As Co-Founder and Managing Director of Triad Consulting, Mr. Ulwelling provides critical oversight to the implementation of project management and quality assurance programs.

Mr. Ulwelling has specialized in security assessments, CPTED, design and consulting, project and program management, construction support and implementation of fire/ life-safety, video surveillance, access control, intrusion and perimeter alarm systems, intercom, emergency call systems.

Mr. Ulwelling is board certified in security management with the Certified Protection Professional (CPP) credential through ASIS International, attesting to his broad-based and expert knowledge of the security industry.

## SELECTED PROJECT EXPEREINCE

### Principal

- Massachusetts Water Resource Authority, Boston, MA
- Tarrant Regional Water District, Ft. Worth, TX
- Placer County Water Agency, Auburn, CA
- Contra Costa Water District, Concord, CA
- Pierce Transit, Tacoma, WA
- Canyon County, ID
- Veterans Affairs Medical Center, West Roxbury, MA
- Albuquerque Department of Transportation, Albuquerque, NM
- Utah Transit Agency, Salt Lake City, UT
- Southern California Logistics Airport, Victorville, CA
- King County Facilities Management Division, Seattle, WA
- Metropolitan Water District of Southern California, Los Angeles, CA
- Cobo Hall, Detroit, MI
- Disneyland/California Adventure, Anaheim, CA
- Oregon State University, Corvallis, OR

### Security Consultant

- City of Portland, OR
- University of California, Irvine, CA
- Metropolitan Transit Authority of Harris County (Houston Metro), Houston, TX
- Johnson County, Water and Wastewater Departments, Olathe, KS
- University of Southern California, Los Angeles, CA
- South Orange County Wastewater Authority, Dana Point, CA
- Legal Aid Federation of Los Angeles, CA

### Contract Manager

- SANDAG/San Diego MTS, Task Based Security
- Port of Los Angeles, Security On-Call

TRIAD CONSULTING
FEE ESTIMATE

# *Las Virgenes Municipal Water*

MULTI-SITE SECURITY ASSESSMENTS

**DETAILED ENGINEERING FEE ESTIMATE**
**BASIC ENGINEERING SERVICES**

PROJECT SUMMARY

| SECURITY CONSULTING<br>TASK DESCRIPTION | STAFF ASSIGNMENTS<br>PRINCIPAL<br>Hourly Rate<br>$200 | SR. SECURITY CONSULTANT<br>Hourly Rate<br>$180 | <br>Hourly Rate<br>$180 | SR. SYSTEM ENGINEER<br>Hourly Rate<br>$170 | <br>Hourly Rate<br>$165 | TECHNICAL<br>Hourly Rate<br>$120 | SERVICES<br>Hourly Rate<br>$110 | <br>Hourly Rate<br>$80 | PHASE HOURS | PHASE COST |
|---|---|---|---|---|---|---|---|---|---|---|
| REVIEW AND SITE ASSESSMENTS | 14 | 126 | 0 | 90 | 0 | 0 | 0 | 0 | 230 | 40780 |
| SITE ASSESSMENT REPORTS | 45 | 171 | 0 | 116 | 0 | 0 | 0 | 0 | 332 | 59500 |
| 3-YEAR MULTI-SITESECURITY ROADM | 25 | 112 | 0 | 32 | 0 | 0 | 0 | 0 | 169 | 30600 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL HOURS | 84 | 409 | 0 | 238 | 0 | 0 | 0 | 0 | 731 | |
| TOTAL COST | $16,800 | $73,620 | $0 | $40,460 | $0 | $0 | $0 | $0 | ####### | $130,880 |





CONFIDENTIAL INFORMATION

March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

**Subject : Headquarters Boardroom Improvement Project: Award**

## SUMMARY:

The adopted Fiscal Year 2019-20 Budget includes a capital improvement project to update the Headquarters Boardroom. The current audio-visual (AV) equipment for the Boardroom is outdated, obsolete and require upgrade. These upgrades will support live web-broadcasting and modernized video recording of Board sessions, workshops and other events. Additionally, the upgrades will improve the Boardroom for meetings, training events and presentations that require a larger group of participants than can be accommodated in the District's conference rooms.

As a multi-purpose room, it is important that the AV equipment is modern and capable of accommodating a variety of needs. Along with the AV equipment, the dais, carpeting, and walls require attention. Staff requested proposals and bids from various firms to perform the following work as part of the Headquarters Boardroom Improvement Project: replace and upgrade the AV equipment, remodel and replace the dais, replace the carpet and refurbish the walls.

## RECOMMENDATION(S):

Authorize the General Manager to execute a contract with AMT Systems, Inc., in an amount not to exceed $164,764, to replace and upgrade the audio-visual equipment; and a contract with Picasso Custom Cabinets, in an amount not to exceed $38,737, for remodeling and replacement of the dais as part of the Headquarters Boardroom Improvement Project.

## FISCAL IMPACT:

Yes

## ITEM BUDGETED:

Yes

**FINANCIAL IMPACT:**

The total cost of this action is $203,501, which includes a 10% contingency. Sufficient funds for the work are available in the adopted Fiscal Year 2019-20 Budget. Staff proposes to award contracts under the General Manager's authority for the following remaining items of work: carpet replacement ($26,563), refurbishment of walls ($12,540) and replacement of chairs ($6,000). With these additional items of work, the total cost of the project is estimated to be $248,604.

**DISCUSSION:**

The current audio-visual (AV) equipment in the Boardroom is outdated, obsolete and needs to be updated, augmenting it to allow for live web broadcasting as well as video recording of other meetings, workshops or events. A variety of other types of events are also held in the Boardroom, including meetings that might be too large for the District's conference rooms. The Boardroom needs to be updated to meet both current and future needs.

In order to accommodate modern technology, such as monitors at each dais position, multiple television screens, and live interactive online meetings, as well as to address the current condition of the Boardroom, it was determined that it would be most cost-efficient to remodel the dais, refurbish the walls, and replace the carpet and audience chairs concurrent with the AV equipment upgrades. The project will position the Boardroom to meet the current and future needs of the District and the JPA, including serving as the starting point for visitors touring the Pure Water Demonstration Project.

On July 24, 2019, staff published a Request for Proposals (RFP) on the District's website soliciting firms to submit proposals for professional design-build services to upgrade the Boardroom's audio-visual equipment. Staff received proposals from WAV, AMT, Diversified and AVI-SPL. Based on an evaluation of the submitted proposals, staff recommends AMT Systems Inc., for the work.

Over the same period, staff requested bids for remodeling the dais, refurbishing the wall and replacing the carpet. For these bids, staff makes the following recommendations: Picasso Custom Cabinets for the construction, replacement and remodeling of the dais; Bluespace Interiors for replacement of the carpet, and T. Brooks Construction, Inc., for services to refurbish the walls of the Boardroom.

**GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Ivo Nkwenji, Information Systems Manager

**ATTACHMENTS:**

AMT Proposal for AV Systems
Picasso - Dais Construction and Installation
T Brooks - Wall Refurbishment
Bluespace - Carpet Replacement

# AMT Systems Inc

# Proposal for

# Boardroom
# Audio/Visual Systems

**Section Subtotal Breakdown**
**with Revisions**
**per email received 8/30/2019**

**August 31, 2019**

AMT Systems, Inc. 26810-A Oak Avenue, Canyon Country, CA 91351
Phone (661) 251-4206 Fax (661)251-6923
**Contractor's License Number: 558162**

# Las Virgenes Water District
# 31-Aug-19

| Grand Total | $149,784.68 |
|---|---|

| Section Budgets | SubTotal Costs |
|---|---|
| Existing Rack/Amps/Speakers | $340.00 |
| Wired Mics | $3,627.80 |
| Wireless Mics | $7,333.79 |
| 86" LCD Displays | $17,107.17 |
| Audio/Video/Control Main system | $46,049.41 |
| Production Video | $11,714.84 |
| Assistive Listening System | $2,204.84 |
| Portable Cart | $5,791.81 |
| Electrical for LCD Displays | $1,427.00 |
| Board LCD monitors | $5,131.35 |
| Staff LCD monitors | $7,288.02 |
| PTZ Cameras | $41,768.66 |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Existing Rack, Amp & Speakers

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Amplifiers** | | | | |
| 2 | Crown CTs 600 | Existing | Two-channel, 300W/70v Power Amplifier | 0.00 | 0.00 |
| | **Distributed Speakers / Zones** | | | | |
| 10 | Atlas FC-104 | Existing | 4" Ceiling Loudspeaker, 70v | 0.00 | 0.00 |
| 6 | Atlas FC-104 | Existing | 4" Ceiling Loudspeaker, 70v | 0.00 | 0.00 |
| 7 | Atlas FC-104 | Existing | 4" Ceiling Loudspeaker, 70v | 0.00 | 0.00 |
| 7 | Atlas FC-104 | Existing | 4" Ceiling Loudspeaker, 70v | 0.00 | 0.00 |
| | **Equipment Rack & Power Sequencing** | | | | |
| 1 | Existing | Existing | Equipment Rack w/ rear door | 0.00 | 0.00 |
| 1 | Existing | Existing | Rack Power Distribution w/ low voltage relays | 0.00 | 0.00 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 0.00 |
| 4 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 340.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 0.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Trair | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 0.00 |
| SALES TAX | 0.00 |
| SUB TOTAL | 0.00 |
| ENGINEERING | 0.00 |
| PROGRAMMING | 0.00 |
| PROJECT MANAGEMENT | 0.00 |
| FIELD TECHNICIAN | 340.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 0.00 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 0.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$340.00*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Wired Microphones

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Wired Microphones** | | | | |
| 5 | MX418D/C | Shure | 18" Gooseneck Desktop microphone, 10' xlr cable | 252.00 | 1,260.00 |
| 6 | MX418D/C | Shure | 18" Gooseneck Desktop microphone, 10' xlr cable | 252.00 | 1,512.00 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 0.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 0.00 |
| 4 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 340.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 2,772.00 |
| SALES TAX | 263.34 |
| SUB TOTAL | 3,035.34 |
| | |
| ENGINEERING | 0.00 |
| PROGRAMMING | 0.00 |
| PROJECT MANAGEMENT | 0.00 |
| FIELD TECHNICIAN | 340.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 152.46 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 100.00 |
| EQUIPMENT RENTAL | 0.00 |
| | |
| ***TOTAL COST*** | ***$3,627.80*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Wireless Microphones

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Wireless Mics - ULXD** | | | | |
| 3 | ULXD4 | Shure | Single Channel Receiver | 834.00 | 2,502.00 |
| 2 | ULXD1 | Shure | Bodypack Transmitter | 420.00 | 840.00 |
| 2 | ULXD2/SM58 | Shure | Handheld Transmitter w/ SM58 | 450.00 | 900.00 |
| 1 | ULXD8 | Shure | Wireless gooseneck microphone base | 408.00 | 408.00 |
| 1 | MX415LP/C | Shure | 15" Shock-mounted Gooseneck, Cardiod, less Preamp | 186.00 | 186.00 |
| 2 | E6xOW6TSL | Countryman | Earset Microphone (Wired for Shure) | 333.90 | 667.80 |
| 1 | UA844+SWB | Shure | Five-Way Active Antenna Splitter. for ULX-D | 454.80 | 454.80 |
| 2 | ANT | AMT | Rack-mount antennas | 18.00 | 36.00 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 0.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 0.00 |
| 4 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 340.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 5,994.60 |
| SALES TAX | 569.49 |
| SUB TOTAL | 6,564.09 |
| ENGINEERING | 0.00 |
| PROGRAMMING | 0.00 |
| PROJECT MANAGEMENT | 0.00 |
| FIELD TECHNICIAN | 340.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 329.70 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 100.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$7,333.79*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Wall-mount 86" Displays

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Wall-mount Video Displays** | | | | |
| 2 | 86UU340C | LG | 86" 4K UHD LED-LCD -Crestron-connected | 4,180.80 | 8,361.60 |
| 2 | XTM1U | Chief | Wall Mounting Bracket | 270.00 | 540.00 |
| 2 | LCD MNT | AMT | Mounting/Backing | 144.00 | 288.00 |
| 2 | DM-NVX-D30 | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Decoder -PoE+ | 780.00 | 1,560.00 |
| 2 | CBL-HD-3 | Crestron | 3' HDMI cable | 24.00 | 48.00 |
| 2 | CBL-DB9 | Crestron | 3' RS232 cable | 18.00 | 36.00 |
| | **Panels** | | | | |
| 2 | LCD-1, LCD-2 | AMT CUSTOM | 80" LCD - one CAT6 | 30.00 | 60.00 |
| 0 | **Cable** | | | | |
| 0.2 | 4246 (Gray) | West Penn | CAT 6 Cable | 182.58 | 36.52 |
| 0.2 | 32-1900-GY | West Penn | RJ-45 Boot, Gray, 100pc | 15.60 | 3.12 |
| 0.2 | 106190 | West Penn | CAT 6/6A Shielded RJ-45 Connector, 100pc | 147.60 | 29.52 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 8 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 680.00 |
| 32 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 2,720.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 0.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 4 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 400.00 |
| 4 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 500.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 10,962.76 |
| SALES TAX | 1,041.46 |
| SUB TOTAL | 12,004.22 |
| ENGINEERING | 0.00 |
| PROGRAMMING | 500.00 |
| PROJECT MANAGEMENT | 400.00 |
| FIELD TECHNICIAN | 3,400.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 602.95 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 200.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$17,107.17*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Audio/Video/Control Main system

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Audio Processing** | | | | |
| 1 | Core110f | QSC | Digital Signal Processor - 8x8x8 | 2,400.00 | 2,400.00 |
| 1 | SL-QUD-110-P | QSC | Q-SYS Core 110 UCI Deployment Software License, Perpetual | 120.00 | 120.00 |
| 1 | SL-QSE-110-P | QSC | Q-SYS Core 110 Scripting Engine Software License, Perpetual | 240.00 | 240.00 |
| 1 | RLY104-12V-DIN | Winford | Relay Module - 4-Channel 12V | 90.00 | 90.00 |
| 1 | DINR135-100 | Winford | DIN Rail, 35mm x 7.5mm, Slotted, 1 Meter length | 12.00 | 12.00 |
| 1 | UPS-S500R | Middle Atlantic | UPS | 435.00 | 435.00 |
| 1 | CAT6-3(Color) | Comprehensive | CAT6 Patch Cable, as required | 96.00 | 96.00 |
| | **Video Sources and Processing** | | | | |
| 1 | DM-NVX-351 | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Encoder/Decoder with Downmixing | 1,200.00 | 1,200.00 |
| 1 | 0 | Monoprice/Sewell | VGA to HDMI Converter, HDMI cable | 66.00 | 66.00 |
| 1 | VGA-A M-M MD/6 | Extron | Portable 6' VGA Cable w/ Audio | 26.40 | 26.40 |
| 1 | CBL-HD-6 | Crestron | Portable 6' HDMI cable | 30.00 | 30.00 |
| 1 | DM-NVX-351 | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Encoder/Decoder with Downmixing | 1,200.00 | 1,200.00 |
| 1 | 0 | Monoprice/Sewell | VGA to HDMI Converter, HDMI cable | 66.00 | 66.00 |
| 1 | VGA-A M-M MD/6 | Extron | Portable 6' VGA Cable w/ Audio | 26.40 | 26.40 |
| 1 | CBL-HD-6 | Crestron | Portable 6' HDMI cable | 30.00 | 30.00 |
| 1 | DMF-CI-8 | Crestron | DigitalMedia Card Chassis for DM-NVX-C & DMCF, 8 Slots | 1,200.00 | 1,200.00 |
| 1 | DM-NVX-351C | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Encoder/Decoder with Downmixing | 1,200.00 | 1,200.00 |
| 1 | CBL-HD-3 | Crestron | 3' HDMI cable | 24.00 | 24.00 |
| 1 | DM-NVX-351C | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Encoder/Decoder with Downmixing | 1,200.00 | 1,200.00 |
| 1 | CBL-HD-3 | Crestron | 3' HDMI cable | 24.00 | 24.00 |
| 1 | AM-200 | Crestron | AirMedia 2 | 1,080.00 | 1,080.00 |
| 1 | DM-NVX-E30C | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Encoder -PoE+ | 780.00 | 780.00 |
| 1 | CBL-HD-3 | Crestron | 3' HDMI cable | 24.00 | 24.00 |
| 1 | DM-NVX-352C | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Encoder/Decoder with Dante/AES6 | 1,440.00 | 1,440.00 |
| | **Control System** | | | | |
| 1 | CP3N | Crestron | 3-Series Control System -dual LAN | 1,560.00 | 1,560.00 |
| 2 | TS-1542-TILT-B-S | Crestron | 15.6 in. HD Touch Screen, Tabletop Tilt, Black Smooth -PoE+ | 2,880.00 | 5,760.00 |
| 1 | XMS-7048P | Luxul | AV Series 52-Pt PoEplus GbE Stackble Managed Switch | 1,940.93 | 1,940.93 |
| | **Misc.** | | | | |
| 1 | LGC-1 | AMT | Logic, Relays, Switches | 300.00 | 300.00 |
| 1 | LOT-1 | AMT | Hardware, Misc. | 300.00 | 300.00 |
| 1 | RAC-1 | AMT | AC, Blox, Conduits | 300.00 | 300.00 |
| 1 | RAC-2 | AMT | Connectors & Terminations | 150.00 | 150.00 |
| 1 | RAC-3 | AMT | Panels & Vents | 120.00 | 120.00 |
| 0 | **Cable** | | | | |
| 1 | 4246 (Gray) | West Penn | CAT 6 Cable | 182.58 | 182.58 |
| 0.6 | 32-1900-GY | West Penn | RJ-45 Boot, Gray, 100pc | 15.60 | 9.36 |
| 0.6 | 106190 | West Penn | CAT 6/6A Shielded RJ-45 Connector, 100pc | 147.60 | 88.56 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 16 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 1,360.00 |
| 8 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 680.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 0.00 |
| 16 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 1,360.00 |
| 24 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 1,320.00 |
| 12 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 1,200.00 |
| 52 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 6,500.00 |
| 16 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 2,400.00 |
| 24 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 3,600.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 23,721.23 |
| SALES TAX | 2,253.52 |
| SUB TOTAL | 25,974.74 |
| ENGINEERING | 6,000.00 |
| PROGRAMMING | 6,500.00 |

| | |
|---|---|
| PROJECT MANAGEMENT | 1,200.00 |
| FIELD TECHNICIAN | 2,040.00 |
| SHOP TECHNICIAN | 1,360.00 |
| DRAFTING | 1,320.00 |
| FREIGHT | 1,304.67 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 350.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$46,049.41*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Production Video system

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Production Video System** | | | | |
| 1 | CBL-HD-6 | Crestron | 6' HDMI cable | 30.00 | 30.00 |
| 1 | HDMI-to-HD-SDI | Blackmagic Design | Mini Converter - HDMI to 6G-SDI 4K | 139.20 | 139.20 |
| 1 | CBL-BNC-3 | Crestron | 3' HD-SDI cable | 24.00 | 24.00 |
| 1 | CBL-HD-6 | Crestron | 6' HDMI cable | 30.00 | 30.00 |
| 1 | Teranex Mini HDMI to SDI 12G | Blackmagic Design | Convert Presentation 4K HDMI to 12G-SDI | 475.20 | 475.20 |
| 1 | Teranex RM | Blackmagic Design | Rack Shelf | 81.60 | 81.60 |
| 1 | ATEM Television Studio Pro 4K | Blackmagic Design | Live Production Switcher w/ 4K Multiviewer | 2,875.20 | 2,875.20 |
| 1 | CBL-HD-6 | Crestron | 6' HDMI cable | 30.00 | 30.00 |
| 1 | 55UU340C | LG | 55" 4K UHD LED-LCD for Multiview | 994.80 | 994.80 |
| 1 | MTM1U | Chief | Tilting Wallmount | 146.40 | 146.40 |
| 1 | Hyperdeck Studio Mini | Blackmagic Design | 4K Solid State Recorder | 667.20 | 667.20 |
| 2 | 64GB SD | Blackmagic Design | UHS-II SD memory card | 119.28 | 238.56 |
| 1 | HELO H.264 | AJA | 1080p H.264 Streamer & Recorder | 1,165.50 | 1,165.50 |
| 1 | HDW | AMT | Mounting/routing hardware, power distro | 144.00 | 144.00 |
| 1 | OFE Table | Owner-Furnished | Video Production Desk | 0.00 | 0.00 |
| | **Panel** | | | | |
| 1 | CAM | AMT CUSTOM | CAM Wallplate - HD-SDI | 30.00 | 30.00 |
| 0 | **Cable** | | | | |
| 0.5 | 819 | West Penn | RG-59 75 OHM Precision Video Cable | 270.08 | 135.04 |
| 0.25 | BNC | West Penn | HD-SDI BNC | 96.00 | 24.00 |
| 0.2 | 4246 (Gray) | West Penn | CAT 6 Cable | 182.58 | 36.52 |
| 0.2 | 32-1900-GY | West Penn | RJ-45 Boot, Gray, 100pc | 15.60 | 3.12 |
| 0.2 | 106190 | West Penn | CAT 6/6A Shielded RJ-45 Connector, 100pc | 147.60 | 29.52 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 8 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 680.00 |
| 24 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 2,040.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 0.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 4 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 400.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 7,299.86 |
| SALES TAX | 693.49 |
| SUB TOTAL | 7,993.34 |
| ENGINEERING | 0.00 |
| PROGRAMMING | 0.00 |
| PROJECT MANAGEMENT | 400.00 |
| FIELD TECHNICIAN | 2,720.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 401.49 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 200.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$11,714.84*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Assistive Listening System

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Assistive Listening System** | | | | |
| 1 | LT-800-072-01 | Listen Technology | Stationary FM Transmitter | 613.90 | 613.90 |
| 1 | LA-326 | Listen Technology | Universal Rack Kit | 53.70 | 53.70 |
| 1 | LA-304 | Listen Technology | Assistive Listening Notification Signage Kit | 17.41 | 17.41 |
| 1 | LA-125 | Listen Technology | 90 Degree Helical Antenna Kit for Rack Mount (for 100m) | 44.27 | 44.27 |
| 4 | LR-4200-072-P1 | Listen Technology | Intelligent DSP RF Receiver (72 MHz) w/ Ear spkr & Neck loop | 201.00 | 804.00 |
| 1 | LA-423-01 | Listen Technology | Intelligent 4-Unit USB Charger | 26.84 | 26.84 |
| 1 | ANT | AMT | Rack-mount antenna | 18.00 | 18.00 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 0.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 0.00 |
| 4 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 340.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 1,578.12 |
| SALES TAX | 149.92 |
| SUB TOTAL | 1,728.04 |
| ENGINEERING | 0.00 |
| PROGRAMMING | 0.00 |
| PROJECT MANAGEMENT | 0.00 |
| FIELD TECHNICIAN | 340.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 86.80 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 50.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$2,204.84*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Portable TV Cart -single

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Portable LCD Carts** | | | | |
| 1 | 65UV340C | LG | 65" 4K UHD LED-LCD -Crestron-connected | 1,539.60 | 1,539.60 |
| 1 | XPD1U | Chief | XL Electric Height Adjust Cart | 2,176.80 | 2,176.80 |
| 1 | FHB5034 | Chief | Hardware Kit | 7.85 | 7.85 |
| 1 | DM-NVX-D30 | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Decoder -PoE+ | 780.00 | 780.00 |
| 1 | CBL-HD-3 | Crestron | 3' HDMI cable | 24.00 | 24.00 |
| 1 | CBL-DB9 | Crestron | 3' RS232 cable | 18.00 | 18.00 |
| 1 | CAT6-xx | Comprehensive | 12' Cat6 cable | 24.00 | 24.00 |
| 1 | CART PWR | AMT | 12' Power cable and distro | 38.40 | 38.40 |
| 1 | Cord-Duct | AMT | Cable Management | 24.00 | 24.00 |
| | **Panels** | | | | |
| 1 | CART | AMT CUSTOM | Portable TV Cart - one CAT6 | 30.00 | 30.00 |
| 0 | **Cable** | | | | |
| 0.1 | 4246 (Gray) | West Penn | CAT 6 Cable | 182.58 | 18.26 |
| 0.1 | 32-1900-GY | West Penn | RJ-45 Boot, Gray, 100pc | 15.60 | 1.56 |
| 0.1 | 106190 | West Penn | CAT 6/6A Shielded RJ-45 Connector, 100pc | 147.60 | 14.76 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 0.00 |
| 4 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 340.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 0.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 4,697.23 |
| SALES TAX | 446.24 |
| SUB TOTAL | 5,143.46 |
| ENGINEERING | 0.00 |
| PROGRAMMING | 0.00 |
| PROJECT MANAGEMENT | 0.00 |
| FIELD TECHNICIAN | 340.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 258.35 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 50.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$5,791.81*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Electrical Work

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Equipment** | | | | |
| 1 | LCD Power | AMT | Reroute old Screen power to new LCD | 90.00 | 90.00 |
| 1 | LCD Power | AMT | Reroute old Projector power to new LCD | 90.00 | 90.00 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 0.00 |
| 12 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 1,020.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 0.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 2 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 200.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 180.00 |
| SALES TAX | 17.10 |
| SUB TOTAL | 197.10 |
| | |
| ENGINEERING | 0.00 |
| PROGRAMMING | 0.00 |
| PROJECT MANAGEMENT | 200.00 |
| FIELD TECHNICIAN | 1,020.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 9.90 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 0.00 |
| EQUIPMENT RENTAL | 0.00 |
| | |
| ***TOTAL COST*** | ***$1,427.00*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Board 20" LCD

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **BoardDais Monitors** | | | | |
| 5 | P2018H | Dell | 20" 1600 x 900 LCD monitor -HDMI, VESA mount | 173.99 | 869.94 |
| 5 | LP | Chief/Sanus/VIVO | Low Profile Tilt mount | 76.80 | 384.00 |
| 6 | CBL-HD-xx | Crestron | HDMI cable | 42.00 | 252.00 |
| 1 | DM-NVX-351 | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Encoder/Decoder with Downmixin | 1,200.00 | 1,200.00 |
| 1 | DM-PSU-ULTRA-MIDSPAN | Crestron | DigitalMedia™ Ultra Midspan PoDM++ Injector | 360.00 | 360.00 |
| 1 | HD-DA8-4KZ-E | Crestron | 1:8 HDMI Distribution Amplifier w/4K60 4:4:4 & HDR Support | 600.00 | 600.00 |
| 1 | HDW | AMT | Mounting/routing hardware, power distro | 72.00 | 72.00 |
| 1 | PS-REL | Furman | Relay for Dais monitor power | 32.40 | 32.40 |
| 0 | **Cable** | | | | |
| 0.1 | D430 | West Penn | 22 AWG Copolene II insulation Serial Control Cable | 223.43 | 22.34 |
| 0.1 | 4246 (Gray) | West Penn | CAT 6 Cable | 182.58 | 18.26 |
| 0.1 | 32-1900-GY | West Penn | RJ-45 Boot, Gray, 100pc | 15.60 | 1.56 |
| 0.1 | 106190 | West Penn | CAT 6/6A Shielded RJ-45 Connector, 100pc | 147.60 | 14.76 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 4 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 340.00 |
| 4 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 340.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 0.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 3,827.26 |
| SALES TAX | 363.59 |
| SUB TOTAL | 4,190.85 |
| ENGINEERING | 0.00 |
| PROGRAMMING | 0.00 |
| PROJECT MANAGEMENT | 0.00 |
| FIELD TECHNICIAN | 680.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 210.50 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 50.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$5,131.35*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# Staff 20" LCD

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **Staff Dais Monitors** | | | | |
| 5 | P2018H | Dell | 20" 1600 x 900 LCD monitor -HDMI, VESA mount | 173.99 | 869.94 |
| 5 | LP | Chief/Sanus/VIVO | Low Profile Tilt mount | 76.80 | 384.00 |
| 6 | CBL-HD-xx | Crestron | HDMI cable | 42.00 | 252.00 |
| 1 | DM-NVX-351 | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Encoder/Decoder with Downmixing | 1,200.00 | 1,200.00 |
| 1 | DM-PSU-ULTRA-MIDSPAN | Crestron | DigitalMedia™ Ultra Midspan PoDM++ Injector | 360.00 | 360.00 |
| 1 | HD-DA8-4KZ-E | Crestron | 1:8 HDMI Distribution Amplifier w/4K60 4:4:4 & HDR Support | 600.00 | 600.00 |
| 1 | HDW | AMT | Mounting/routing hardware, power distro | 72.00 | 72.00 |
| 1 | PS-REL | Furman | Relay for Dais monitor power | 32.40 | 32.40 |
| | **Clerk Monitor** | | | | |
| 1 | P2018H | Dell | 20" 1600 x 900 LCD monitor -HDMI, VESA mount | 173.99 | 173.99 |
| 1 | LP | Chief/Sanus/VIVO | Low Profile Tilt mount | 76.80 | 76.80 |
| 1 | CBL-HD-6 | Crestron | 6' HDMI cable | 30.00 | 30.00 |
| 1 | DM-NVX-351 | Crestron | DM NVX 4K60 4:4:4 HDR Network AV Encoder/Decoder with Downmixing | 1,200.00 | 1,200.00 |
| 1 | DM-PSU-ULTRA-MIDSPAN | Crestron | DigitalMedia™ Ultra Midspan PoDM++ Injector | 360.00 | 360.00 |
| 0 | **Cable** | | | | |
| 0.1 | D430 | West Penn | 22 AWG Copolene II insulation Serial Control Cable | 223.43 | 22.34 |
| 0.2 | 4246 (Gray) | West Penn | CAT 6 Cable | 182.58 | 36.52 |
| 0.2 | 32-1900-GY | West Penn | RJ-45 Boot, Gray, 100pc | 15.60 | 3.12 |
| 0.2 | 106190 | West Penn | CAT 6/6A Shielded RJ-45 Connector, 100pc | 147.60 | 29.52 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 4 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 340.00 |
| 4 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 340.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 0.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 0.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 5,702.63 |
| SALES TAX | 541.75 |
| SUB TOTAL | 6,244.38 |
| ENGINEERING | 0.00 |
| PROGRAMMING | 0.00 |
| PROJECT MANAGEMENT | 0.00 |
| FIELD TECHNICIAN | 680.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 313.64 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 50.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$7,288.02*** |

# Las Virgenes Water District
# Boardroom RFP
# 31-Aug-19
# PTZ Cameras

| QTY | MODEL | MAKE | DESCRIPTION | PRICE EA | EXT. |
|---|---|---|---|---|---|
| | **PTZ Cameras** | | | | |
| 3 | BRC-X1000 | Sony | 4K PTZ Camera with 1" CMOS Sensor and PoE+ (at 1080p) | 9,960.00 | 29,880.00 |
| 3 | BRC-WM-Z330 | Sony | Wall-mount for Sony BRC-X1000 | 209.99 | 629.96 |
| 1 | RM-IP10 | Sony | PTZ Camera IP Remote Controller | 1,950.00 | 1,950.00 |
| | **Panels** | | | | |
| 3 | PTZ-1 thru 3 | AMT CUSTOM | PTZ camera - CAT6, 2x HD-SDI | 30.00 | 90.00 |
| 0 | **Cable** | | | | |
| 1.5 | 819 | West Penn | RG-59 75 OHM Precision Video Cable | 270.08 | 405.13 |
| 0.75 | BNC | West Penn | HD-SDI BNC | 96.00 | 72.00 |
| 1 | 4246 (Gray) | West Penn | CAT 6 Cable | 182.58 | 182.58 |
| 0.2 | 32-1900-GY | West Penn | RJ-45 Boot, Gray, 100pc | 15.60 | 3.12 |
| 0.2 | 106190 | West Penn | CAT 6/6A Shielded RJ-45 Connector, 100pc | 147.60 | 29.52 |
| | **Labor** | | | | |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Other) | 85.00 | 0.00 |
| 16 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Cable Pull) | 85.00 | 1,360.00 |
| 8 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Rough In) | 85.00 | 680.00 |
| 0 | FIELD-1 | AMT LABOR | Field Labor, Hours, Tech Rate (Termination) | 85.00 | 0.00 |
| 0 | SHOP-1 | AMT LABOR | Shop Labor, Hours, Tech Rate | 85.00 | 0.00 |
| 0 | DOCU-1 | AMT LABOR | Documentation and Drawing, Tech Rate | 55.00 | 0.00 |
| 4 | ENGR-1 | AMT LABOR | Project Management Rate (Project Management) | 100.00 | 400.00 |
| 8 | ENGR-1 | AMT LABOR | Engineering Labor, Programming Rate (Programming) | 125.00 | 1,000.00 |
| 0 | ENGR-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Senior Level) | 150.00 | 0.00 |
| 0 | TRAIN-1 | AMT LABOR | Engineering Labor, Sr. Engineering Rate (Test/Tune/Train) | 150.00 | 0.00 |

***Pricing Summary***

| | |
|---|---|
| TOTAL EQUIPMENT | 33,242.31 |
| SALES TAX | 3,158.02 |
| SUB TOTAL | 36,400.33 |
| ENGINEERING | 0.00 |
| PROGRAMMING | 1,000.00 |
| PROJECT MANAGEMENT | 400.00 |
| FIELD TECHNICIAN | 2,040.00 |
| SHOP TECHNICIAN | 0.00 |
| DRAFTING | 0.00 |
| FREIGHT | 1,828.33 |
| TRUCK/TRANSPORT/ACCOMODATIONS | 100.00 |
| EQUIPMENT RENTAL | 0.00 |
| ***TOTAL COST*** | ***$41,768.66*** |

**Picasso Custom Cabinets**
31220 La Baya Drive #102-103
Westlake Village, CA 91362
picassocustomcreations@gmail.com

# Estimate

**ADDRESS**
Shawn Triplett
Las Virgenes Municipal Water District
4232 Las Virgenes Rd Lbby
Calabasas, CA 91302
United States

**ESTIMATE #** 1033
**DATE** 02/27/2020

| DATE | ACTIVITY | DESCRIPTION | QTY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Services** | Construction of New Counsel Desk and Podium made of Walnut / White oak (based on final decision) exterior. Formica counter. All details to be matched existing units. | 1 | 35,215.00 | 35,215.00 |

Please keep in mind we will be providing more detail drawings and information once estimate is approved.

TOTAL **$35,215.00**

Accepted By

Accepted Date

**T BROOKS CONSTRUCTION INC**
**1325 Cachuma Ave**
**Ventura Ca 93004**
**STATE LICENSE # 711221**
**PHONE: 805-236-8358**
**FAX : 805-647-0725**
**Quinn@brooksconst.com**

**THIS AGREEMENT** made September 30, 2019 , by and between T BROOKS CONSTRUCTION INC.., hereinafter called the Contractor, **Las Virgenes Municipal Water District** hereinafter called the Owner.
Project: Las Virgenes Municipal Water District
4232 las Virgenes Road
Calabasas Ca 91302-1994

**Witnesseth,** that the Contractor and the Owner for the considerations named agree as follows:
**Article 1. Scope of the Work**

**Council room**

Remove approximately 540sf of existing wallpaper, paint walls, Frame new opening for Television

The Contractor shall supply all materials and perform all of the work as follows:

**Inclusions:**

1. Remove existing projector glass and frame space to fit new Flat screen television(owner provided)
2. Drywall wall around new opening finished ready for paint
3. Remove section of existing wall paper (approximately 540)
4. Skim coat wall where wallpaper was removed where needed
5. Paint walls two coats primer/paint
6. Material, tax and freight
7. Labor and Equipment (Prevailing wage included)

**ALTERNATE:**
**Remove doors from wall recessed television component shelves, Frame/drywall/paint**

**Add $1440.00 to contract total**

**EXCLUSIONS:PERMITS AND FEES. ARCHITIECTURAL ,ENGINEERING, PLANS , ANY ITEMS NOT MENTIONED ABOVE**

**CONTRACT PRICE $ 11,400.00**

The Owner shall pay the Contractor for the material and labor to be performed under Contract the sum of **ELEVEN THOUSAND FOUR HUNDRED DOLLARS** , Subject To Additions And Deductions Pursuant To Authorized Change Orders.

**Article 2. Progress Payments**

Progressive payments

Payments due 15 days

**Article 3. General Provisions**

Any alteration or deviation from the above specifications, including but not limited to any such alteration or deviation involving additional material and/or labor costs, will be executed only upon a written order for same, signed by Owner and Contractor, and if there is any charge for such alteration or deviation, the additional charge will be added to the contract price of this contract.
If payment is not made when due, Contractor may suspend work on the job until such time as all payments due have been made. A failure to make payment for a period in excess of days from the due date of the payment shall be deemed a material breach of this contract. In addition, the following general provisions apply:

1. All work shall be completed in a workman-like manner and in compliance with all building codes and other applicable laws.
2. To the extent required by law all work shall be performed by individuals duly licensed and authorized by law to perform said work.
3. Contractor may at its discretion engage subcontractors to perform work hereunder, provided Contractor shall fully pay said subcontractor and in all instances remain responsible for the proper completion of this Contract.
4. Contractor shall furnish Owner appropriate releases or waivers of lien for all work performed or materials provided at the time the next periodic payment shall be due.
5. All change orders shall be in writing and signed both by Owner and Contractor, and shall be incorporated in, and become part of the contract.
6. Contractor warrants it is adequately insured for injury to its employees and others incurring loss or injury as a result of the act of Contractor or its employees or subcontractors.
7. In the event Owner shall fail to pay any periodic or installment payment due hereunder, Contractor may cease work without breach pending payment or resolution of any dispute.

8. Contractor shall not be liable for any delay due to circumstances beyond its control including strikes, casualty or general unavailability or materials.
9. Contractor warrants all work for a period of one year following completion.
10. **A periodic rate of 1 1/2% per month will be charged on all invoices past due. This is an annual rate of 18%.**
11. **QUOTE IS GOOD FOR 30 DAYS.**

**FAILURE BY CONTRACTOR WITHOUT LAWFUL EXCUSE TO SUBSTANTIALLY COMMENCE WORK WITHIN TWENTY (20) DAYS FROM THE APPROXIMATE DATE SPECIFIED IN THE PROPOSAL AND CONTRACT WHEN WORK WILL BEGIN IS A VIOLATION OF THE CONTRACTOR'S LICENSE LAW.**

**NOTICE TO OWNER**

(Section 7018.5-Contractors License Law)

THE LAW REQUIRES THAT, BEFORE A LICENSED CONTRACTOR CAN ENTER INTO A CONTRACT WITH YOU FOR A WORK OF IMPROVEMENT ON YOUR PROPERTY, HE MUST GIVE YOU A COPY OF THIS NOTICE:

Under the California Mechanics' Lien Law, any contractor, subcontractor, laborer, supplier, or other person or entity who helps to improve your property, but is not paid for his or her work or supplies, has a right to place a lien on your home, land or property where the work was performed and to sue in court to obtain payment.

This means that after a court hearing, your home, land and property could be sold by a court officer and the proceeds of the sale used to satisfy what you owe. This can happen even if you have paid your contractor in full if the contractor's subcontractors, laborers, or suppliers remain unpaid.

To preserve the rights to file a claim or lien against your property, certain claimants such as subcontractors or material suppliers are each required to provide you with a document called a "Preliminary Notice." Contractors and laborers who contract with owners directly do not have to provide such notice since you are aware of their existence as an owner. A preliminary notice is not a lien against your property. Its purpose is to notify you of persons or entities that may have a right to file a lien against your property. If they are not paid. In order to perfect their lien rights, a contractor, subcontractor, supplier, or laborer must file a mechanics' lien with the county recorder which then becomes a recorded lien against your property. Generally, the maximum time allowed for filing a mechanics' lien against your property is 90 days after substantial completion of your project.

**Contractors are required by law to be licensed and regulated by the Contractors' State License Board. Any questions concerning a contractor may be referred to the Registrar of the Board, Contractors' State License Board, PO Box 26000, Sacramento, CA 95826.**

| | **T Brooks Construction Inc.** |
|---|---|
| Owner | Contractor |
| By:_____ | By: Quinn Brooks, President |
| Signature | Signature_____ |
| Date_____ | Date_____ |

# Proposal

Order No.: Q040419C

Date: 3/9/2020

Valid thru: 7/1/2019

**Bill to:**

DARRELL JOHNSON
CUSTOMER SERVICE MANAGER
LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 LAS VIRGENES RD
CALABASAS, CA 91302

**Ship to:**

DARRELL JOHNSON
CUSTOMER SERVICE MANAGER
LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 LAS VIRGENES RD
CALABASAS, CA 91302

LEE ALPERT
lee@bluespaceinteriors.com
(818) 333-3160

CARPET QUOTE FOR FRONT OFFICE

| | Qty | | Sell | Ext Sell |
|---|---|---|---|---|
| A CARPET TILES | 368 | CARPERT TILE, PER SY<br>STYLE: LITHOSPHERE<br>COLORWAY: LAGOON | $ 28.70 | $10,561.60 |
| | | | Subtotal: | **$ 10,561.60** |
| B STOCK | 16 | ATTIC STOCK, 2 CARTONS<br>8 SY PER CARTON | $ 28.70 | $459.20 |
| | | | Subtotal: | **$ 459.20** |
| C INSTALL | 1 | MATERIALS/INSTALLATION- PREVAILING WAGE<br>INCLUDES DEMO AND DISPOSAL | $ 9,782.15 | $9,782.15 |
| | | | Subtotal: | **$ 9,782.15** |
| Z-FREIGHT | 1 | FREIGHT | $ 1,250.00 | $1,250.00 |
| | | | Subtotal: | **$ 1,250.00** |
| | | Sales Tax Rate: 9.5% | $ 2,095.03 | $2,095.03 |
| **Grand Total:** | | | | **$24,147.98** |

***Terms: SIGN PROPOSAL AND PO/CHARGE NUMBER REQUIRED***
***NET 30 PAYMENT TERMS***
***CLIENT SIGN-OFF PER ATTACHED BILL OF MATERIALS***
*Delivery to be completed during normal business days and hours.*
*Monday - Friday*
*9:00 a.m. - 4:00 p.m.*
*Free and Easy access to docks and elevators.*
*Delivery does NOT include: carry-up stairs or removal of old furniture.*
*Delivery DOES include: unboxing, inspection, assembly, delivery, installation, wipe down and trash removal.*
***All sales are final and non-returnable. Storage charges apply after 30 days from receipt of goods.***

# Proposal

Order No.: Q040419C

Date: 3/9/2020

Valid thru: 7/1/2019

**Bill to:**

DARRELL JOHNSON
CUSTOMER SERVICE MANAGER
LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 LAS VIRGENES RD
CALABASAS, CA 91302

**Ship to:**

DARRELL JOHNSON
CUSTOMER SERVICE MANAGER
LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 LAS VIRGENES RD
CALABASAS, CA 91302

LEE ALPERT
lee@bluespaceinteriors.com
(818) 333-3160

CARPET QUOTE FOR FRONT OFFICE

| Qty | | Sell | Ext Sell |
|---|---|---|---|

**CARPET QUOTE FOR FRONT OFFICE**

Accepted By: _____ Date:_____
Print Name

_____ PO:_____
Title

_____
Signiture

March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

**Subject : Automatic Meter Reading/Advanced Metering Infrastructure Project Financing: Request for Proposals**

## SUMMARY:

The Automatic Meter Reading/Advanced Metering Infrastructure (AMR/AMI) Project is a strategic priority for the District to provide real-time water usage information to customers, assist with early leak detection to reduce water loss and comply with new water use efficiency regulations established SB 606/AB 1668. Over the past four years, the District has prudently managed its Potable Water Enterprise to rebuild cash reserves to the level established in the District's Financial Policies. Nevertheless, the Potable Water Enterprise does not currently have sufficient cash resources to both pay-go fund the AMR/AMI Project and maintain policy reserve levels. As a result, staff recommends a debt financing approach for the AMR/AMI Project over a 10-year period given the low interest rate environment, life expectancy of the project and strategic benefits of completing the project. The Potable Water Enterprise has sufficient revenue to service the debt, while still maintaining policy reserve levels.

## RECOMMENDATION(S):

Pass, approve and adopt proposed Resolution No. 2571, approving and authorizing the release of a Request for Proposals for the financing of the Automatic Meter Reading/Advanced Metering Infrastructure Project.

**RESOLUTION NO. 2571**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT APPROVING A REQUEST FOR PROPOSALS IN CONNECTION WITH THE FINANCING OF THE ACQUISITION AND INSTALLATION OF AUTOMATIC METER READING/ ADVANCED METERING INFRASTRUCTURE AND OTHER WATER SYSTEM IMPROVEMENTS AND CERTAIN OTHER MATTERS**

(Reference is hereby made to Resolution No. 2571 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

**FISCAL IMPACT:**

No

**ITEM BUDGETED:**

No

**FINANCIAL IMPACT:**

There is no fiscal impact related to the approval and issuance of a Request for Proposals for the AMR/AMI Project. Subsequent action by the Board is required to award the AMR/AMI Project and execute any financing agreements.

**DISCUSSION:**

On August 6, 2019, the Board awarded a contract to Piper Sandler, formerly Piper Jaffray, to serve as the District's financial advisor. The first task order with Piper Sandler was to determine the best financing method for the AMR/AMI Project following the District's unsuccessful attempt to secure a low-interest Clean Water State Revolving Fund (CWSRF) loan. The District, with its financial advisor, has determined that a competitive installment purchase agreement would be the most beneficial financing mechanism for the AMR/AMI Project. This type of financing acts more similar to a bank loan than a traditional municipal bond in that all of the debt is held by one party. The terms, conditions and continuing disclosures are negotiated with the debtholder.

Based on the Request for Proposals, following is a summary of the key terms of the proposed debt:

- $10,000,000 principal
- 10-year term
- 2.5% interest rate
- Pledge of revenues net of operations and maintenance expenses

Staff has been working with its financial advisor and Bond Counsel to ensure that the final proposed structure of the debt for the AMR/AMI Project recognizes and does not detrimentally affect any planned future debt financing for the Pure Water Project Las Virgenes-Triunfo.

Following Board approval, staff will send the solicitation for financing to known interested parties. Staff and Piper Sandler representatives will review the responses and identify the best financing proposal for the AMR/AMI Project. Approval of the attached resolution does not commit the District to any debt financing. The recommended financing for the AMR/AMI Project will be presented to the Board in April for approval.

**GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Donald Patterson, Director of Finance and Administration

**ATTACHMENTS:**

Proposed Resolution No. 2571
AMR/AMI RFP

**RESOLUTION NO. 2571**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT APPROVING A REQUEST FOR PROPOSALS IN CONNECTION WITH THE FINANCING OF THE ACQUISITION AND INSTALLATION OF AUTOMATIC METER READING/ADVANCED METERING INFRASTRUCTURE AND OTHER WATER SYSTEM IMPROVEMENTS AND CERTAIN OTHER MATTERS**

WHEREAS, the Las Virgenes Municipal Water District (the "District"), a municipal water district that is duly organized and existing under and pursuant to Division 20 of the California Water Code (Section 71000 *et seq*.) (the "Act"), desires to undertake the acquisition, installation and construction of certain improvements, betterments, renovations and expansions of facilities within its water system, including but not limited to the acquisition and installation of approximately 22,000 smart meters (collectively, the "Project"); and

WHEREAS, the District is authorized under the Act (including but not limited to Sections 71592 and 71690 thereof) to enter into contracts related to the financing, acquisition and construction of the Project; and

WHEREAS, the District desires to finance the Project through the execution of an agreement whereby the District will acquire the Project and pay the costs thereof on an installment basis; and

WHEREAS, the District has determined that it is in the best interest of the District to solicit bids from perspective purchasers in order to consider financing options; and

WHEREAS, Piper Sandler & Co., the District's municipal advisor (the "Municipal Advisor") has assisted the District with preparing a Request for Proposals (the "Request for Proposals") to enable the District to solicit bids from perspective purchasers to finance the Project;

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE LAS VIRGENES MUNICIPAL WATER DISTRICT AS FOLLOWS:

Section 1. Approval of Recitals. The District hereby finds and determines that the foregoing recitals are true and correct.

Section 2. Approval of Request for Proposals. The Request for Proposals is hereby approved substantially in the form on file with the Secretary. The Municipal Advisor is further authorized to disseminate the Request for Proposals to perspective purchasers with such changes, insertions and omissions as may be recommended by the District's General Counsel or Bond Counsel.

Section 3. Other Actions Authorized. The General Manager or the Director of Finance and Administration of the District, acting alone, is hereby authorized and directed, at his discretion, to select a purchaser (the "Bank") from the proposals received in

response to the Request for Proposals. Each of the President or Vice President of the Board of Directors of the District (the "Board"), the General Manager or the Director of Finance and Administration of the District (each, an "Authorized Officer") or the designee thereof, acting alone, is hereby authorized and directed to execute a term sheet and/or rate lock agreement with the Bank

Section 4. Effective Date. This Resolution shall become effective immediately upon adoption.

Section 5. Certification. The Secretary shall certify to the adoption of this Resolution.

PASSED, APPROVED, AND ADOPTED this 24th day of March, 2020.

_____
President

ATTEST:

_____
Secretary

(Seal)

Approved as to form:

_____
District Counsel

# Las Virgenes Municipal Water District

Request for Proposals

$10,000,000 Potable Water Enterprise Fund Obligations
Installment Purchase Agreement, Series 2020

***This request for proposals is made by the Las Virgenes Municipal Water District, California (the "District") and contains certain information about the District and the proposed Potable Water Enterprise Fund Obligations issued as Installment Purchase Agreement, Series 2020 (the "Obligations"). This request is for reference only, is provided for the District's benefit to consider financing options, is not a comprehensive summary of the proposed Obligations, and is not intended to be used as an official statement or other disclosure document for the proposed Obligations. The District will not produce an official statement or other disclosure document for the Obligations.***

The District will evaluate proposals on overall parameters including net interest cost. Any additions to the parameters of this RFP and/or the Authorizing Resolution may cause the bid to be "non-conforming" and rejected. Each bid must disclose the amount of any fees, including legal fees, the bidder will charge to the District in addition to the interest rate stated in the offer; any such fees. The District reserves the right to reject any or all proposals and to waive any irregularities. The District has retained Piper Sandler & Co ("Sandler") to assist in evaluating proposals.

District intends to issue an estimated $10,000,000 in par amount. The District further intends that interest on the Obligations will be tax-exempt and excluded from gross income for federal and state income tax purposes. Accordingly, all interest rate bids should be based upon tax-exempt interest rates.

Respondents may submit a response to this proposal by 5:00 pm on Thursday, April 9, 2020 via email to Angela Saccareccia at asaccareccia@lvmwd.com Jessica Burst at jessica.burst@psc.com.

| Terms/Definitions | Description |
|---|---|
| Issuer: | Las Virgenes Municipal Water District, CA www.lvmwd.com |
| Obligation: | Potable Water Enterprise Fund Obligations<br>Installment Purchase Agreement, Series 2020 |
| Bank Qualified: | The Obligations have been designated as "Qualified Tax-Exempt Obligations as described in Section 265(b)(3)(B) of the Code |
| Par Amount: | Not to exceed $10,000,000 (estimated) |
| Purpose: | Finance the acquisition and installation of Automatic Meter Redding/Advanced Metering Infrastructure (AMR/AMI) to all or a majority of system users/connections. |
| Dated: | Date of Close (expected to be April 24, 2020). |
| Security: | As defined in the Installment Purchase Agreement to be dated April 1, 2020, principal of and interest on the Obligations will be payable from:<br><br>"**Net Potable Water Enterprise Fund Revenues**" means, for any fiscal year, the Potable Water Enterprise Fund Revenues less the operation and maintenance costs such fiscal year. |
| Principal Due: | Annually on November 1st, beginning November 1, 2020 through November 1, 2029. For preliminary principal maturities, see **Attachment A: Response Form**. |
| Interest Due: | Semi-annually on May 1st and November 1st, beginning November 1, 2020. |
| Term Obligations: | As allowed within **Attachment A: Response Form**, Respondents may propose one or more term obligations for any and all maturities. |
| Redemption: | As allowed within **Attachment A: Response Form**, Respondents can provide two interest rate bids subject to two scenarios:<br>1. optional redemption on November 1, 2024 for obligations maturing on and after November 1, 2025, and<br>2. no optional redemption. |
| No Rating or OS: | The District does not intend to apply for a credit rating or produce an official statement. |

| | |
|---|---|
| Legal Opinion: | The District's Bond Counsel, Stradling Yocca Carlson Rauth, will provide all legal documents in connection with the transaction. Contact:<br><br>Brian Forbath, 949-725-4193, bforbath@syc.com<br><br>Except to the extent necessary to issue its approving opinion as to the validity of the Obligations, Bond Counsel has made no inquiry as to any financial information, statements or material contained in any financial documents, statements or materials that have been or may be furnished in connection with the authorization, marketing, and placement of the Obligations, and, accordingly, will not express any opinion with respect to the accuracy or completeness of any such financial information, statements or materials.<br><br>In submitting a proposal, all parties agree to the representation of the District by Stradling Yocca Carlson Rauth. |
| Disclosure: | In addition to draft legal documents circulated with this Request for Proposals, the successful bidder will receive copies of all legal documents including the Authorizing Resolution, bond counsel opinion, and other information that successful bidder necessary.<br><br>Along with this Request for Proposals, the District has authorized the circulation of the following data to assist Respondents:<br><br>▪ financial statements,<br>▪ capital improvement plan, and<br>▪ preliminary flow of funds.<br><br>No Official Statement or other disclosure document and no Continuing Disclosure Undertaking will be delivered to the successful bidder. |
| Purchaser Requirements: | The successful bidder will be expected to sign a "sophisticated investor" letter at closing in a form prepared by Bond Counsel and satisfactory to the District. A form of the letter is included as Attachment B. |
| Costs: | All costs associated with the Obligations will be payable from the proceeds, including the fees and expenses of the Financial Advisor and Bond Counsel. Proposals will disclose all potential additional fees and expenses. Payment of all fees and expenses will be contingent upon closing. |
| Additional Information: | Further information may be obtained by contacting Jessica Burst at Piper Sandler. Piper Sandler is a municipal advisor registered with the Securities and Exchange Commission and the Municipal Securities Rulemaking Board. As such, Piper Sandler is providing specified advisory services to the District. Piper Sandler not serving as a placement agent for the District for this transaction. |
| Proposal Award: | District officials may select a Purchaser on a preliminary basis, if any, to finalize terms, conditions, covenants and financing documentation. The District reserves the right to reject any or all proposals. |

# Las Virgenes Municipal Water District

Request for Proposals

$10,000,000 Potable Water Enterprise Fund Obligations
Installment Purchase Agreement, Series 2020

**Attachment A: Response Form**

Las Virgenes Municipal Water District, California

For the preliminary principal amount of $10,000,000, subject to adjustment for any additional fees, for Potable Water Enterprise Fund Obligation, Installment Purchase Agreement, Series 2020 of the Las Virgenes Municipal Water District and as described in the Request for Proposals, we submit the following bid.

**Part 1: Estimated Debt Service Schedule (Subject to Change):**

Interest on the Obligations will be payable semiannually on May 1st and November 1st of each year commencing November 1, 2020.

The District intends for final debt service to approximate level debt service with the principal amounts within column entitled "Preliminary Principal Maturities" serving as a guide. Respondents may propose one or more term obligations and note which principal maturities are included in a term obligation within the column entitled "Term Obligations."

Respondents may provide interest rates as of April 8 subject to the two optional redemption features/scenarios within the last two columns of the table below.

| November 1 Maturity | Preliminary Principal Maturities | Term Obligations | Optional Redemption: November 1, 2024 | Optional Redemption: None |
|---|---|---|---|---|
| 2020 | 895,000 | | | |
| 2021 | 915,000 | | | |
| 2022 | 940,000 | | | |
| 2023 | 960,000 | | | |
| 2024 | 985,000 | | | |
| 2025 | 1,010,000 | | | |
| 2026 | 1,035,000 | | | |
| 2027 | 1,060,000 | | | |
| 2028 | 1,090,000 | | | |
| 2029 | 1,110,000 | | | |

**Part 2: Purchaser Fees, if any: $_____**

**Part 3: Acknowledgment**

In making this offer, we accept the terms and conditions as defined in the Request for Proposals.

Respectfully submitted,

_____

By: _____ Title: _____

Firm: _____ Date: _____

# Las Virgenes Municipal Water District

Request for Proposals

$10,000,000 Potable Water Enterprise Fund Obligations
Installment Purchase Agreement, Series 2020

**Attachment B: Form of Investor Letter**

Board of Directors
Las Virgenes Municipal Water District
Calabasas, California 91302

*Re: $_____ Las Virgenes Municipal Water District 2020 Installment Purchase Agreement*

Ladies and Gentlemen:

The undersigned, an authorized representative of _____ (the "Corporation") hereby represents and warrants to you as follows:

1. The Corporation is a party to the above-referenced agreement (the "Agreement") approved pursuant to that certain Resolution adopted by the Board of Directors of the Las Virgenes Municipal Water District (the "District") on April 21, 2020 (the "Resolution").

2. The Corporation has sufficient knowledge and experience in business and financial matters in general and lending to public agencies, to enable the Corporation to evaluate the Agreement, the credit of the District, the collateral and the Agreement terms and that the Corporation will make or has made its own independent credit analysis and decision to enter into the Agreement based on an independent examination and evaluation of the transaction and the information deemed appropriate, without reliance on the District or its affiliates, its directors, officers, employees, attorneys or agents.

3. The Corporation acknowledges that no official statement has been prepared in connection with the Agreement, that the execution and delivery of the Agreement is exempt from Rule 15c2-12(b)(5) adopted by the Securities and Exchange Commission under the Securities Exchange Act of 1934, pursuant to Section (d) of said Rule, and that the District will not be entering into a continuing disclosure agreement to provide ongoing disclosure respecting the Agreement or the security therefor. The Corporation has been offered copies of or full access to all documents relating to the Agreement and all records, reports, financial statements and other information concerning the District and pertinent to the source of payments due under the Agreement as deemed material by the Corporation, which the Corporation has requested and to which the Corporation would attach significance in making a transaction decision.

4. The Corporation confirms that its execution and delivery of the Agreement is suitable for and consistent with its loan portfolio and that the Corporation is able to bear the economic risk of the execution and delivery of the Agreement, including a complete loss under the Agreement.

5. The Corporation is executing and delivering the Agreement for not more than one account, solely for its own loan account, and not with a present view to, or in connection with, any distribution, resale, pledging, fractionalization, subdivision or other disposition thereof (subject to the understanding that disposition of Corporation's property will remain at all times within its control). Because the Corporation intends to treat the execution and delivery of the Agreement as a loan and hold the Agreement in its loan portfolio, the Corporation has not directed or requested a CUSIP number for this transaction, or applied for eligibility with The Depository Trust Company (DTC).

6. The Corporation understands that: (i) the Agreement: (a) has not been registered under the Securities Act of 1933 (the "Securities Act"); (b) has not been registered or qualified under any state securities or "Blue Sky" laws; (c) will not be listed on any stock or other securities exchange; (d) will carry no rating from any rating service specific to the Agreement at the request of the District (although similar securities of the District may carry ratings); and (e) due to a lack of a rating and lack of registration with a securities depository may not be readily marketable and the Corporation will be

required to bear the risk of an investment in the Agreement for a certain period of time; and (ii) the Agreement has not been qualified under the Trust Indenture Act of 1939, as amended.

7. The Corporation has been furnished with and has examined the Agreement, the Resolution and other documents, certificates and the legal opinions delivered in connection with the execution and delivery of the Agreement.

8. The Corporation is duly organized, validly existing and in good standing under the laws of the jurisdiction in which it was incorporated or formed and is authorized to execute and deliver the Agreement. The person executing this letter on behalf of the Corporation is duly authorized to do so on the Corporation's behalf.

9. The Corporation is a "qualified institutional buyer" (a "Qualified Institutional Buyer") within the meaning of Rule 144A promulgated under the Securities Act, or an institutional "accredited investor" (an "Institutional Accredited Investor") as defined in Section 501(a)(1), (2), (3) or (7) of Regulation D promulgated under the Securities Act.

10. The Corporation understands and agrees that interest in the Agreement may be transferred: (i) only to a Person that the Corporation reasonably believes is either: (A) a Qualified Institutional Buyer that is receiving an interest in the Agreement for not more than one account, for their own account and not with a view to distributing such interest; or (B) an Institutional Accredited Investor that is receiving an interest in the Agreement for not more than one account and not with a view to distributing such interest; and (ii) only if such Qualified Institutional Buyer or Institutional Accredited Investor delivers to the District a completed and duly executed Investor Letter substantially in the form hereof. The Corporation retains the right to participate its interests in the Agreement but only to Qualified Institutional Buyers or Institutional Accredited Investors.

11. Inasmuch as the Agreement represents a negotiated transaction, the Corporation is not acting as a fiduciary of the District, but rather is acting solely in its capacity as the Corporation, for its own loan account.

12. The Corporation understands that the District, Stradling Yocca Carlson & Rauth, a Professional Corporation, and Piper Sandler & Co. will rely upon the accuracy and truthfulness of the representations and warranties contained herein and hereby consents to such reliance.

13. No person has made any direct or indirect representation or warranty of any kind to the Corporation with respect to the economic return which may accrue to the Corporation. The Corporation has consulted with its own tax counsel and other advisors with respect to the investment represented by the Agreement.

IN WITNESS WHEREOF, the Corporation has executed this Corporation Letter as of the date set forth below.

Dated: _____, _____

Very truly yours,

_____ _____

By: _____

Name: _____

Title: _____

ITEM 9A

**INFORMATION ONLY**

March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

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**Subject : Claim by Ryan Steers**

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**SUMMARY:**

On January 29, 2020, the District received the attached claim by Ryan Steers of Agoura Hills, in the amount of $595, for reimbursement of expenses incurred for landscape clean-up and repair. The work was alleged to have resulted from a water main break in the 5000 block of Fairview Place on December 27, 2019. Staff investigated the claim and recommended settlement under the General Manager's authority in exchange for a release of all liability.

**FISCAL IMPACT:**

Yes

**ITEM BUDGETED:**

No

**FINANCIAL IMPACT:**

The cost to settle the claim was $595. Sufficient funds were available in the adopted Fiscal Year 2019-20 Budget.

**DISCUSSION:**

Staff investigated the claim and confirmed that a water main break occurred in the 5000 block of Fairview Place in Agoura Hills on December 27, 2019. The claimant's residence is located across the street from the main break, and it is likely that debris and water caused damage to the claimant's landscaping. Given the circumstances, the General Manager opted to settle the claim within his authority in exchange for a signed Settlement and Release Agreement.

**GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Mary Capps, Administrative Assistant

**ATTACHMENTS:**

Claim by Ryan Steers



# Claim Against Las Virgenes Municipal Water District

Government Code Sections 910 and 910.4

**Mail or Deliver To:** Executive Assistant/ Clerk of the Board
Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas, CA 91302

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**Name of claimant/s:** Ryan Steers [redacted]

**Address/location of accident or occurrence:**

[redacted]

**Address to where replies/notices should be sent (if different from the above):**

**Telephone numbers: Home:** _____ **Work/Cell:** [redacted]

Please answer the following questions. If more space is required, please attach additional sheets. **Please attach any receipts, invoices, estimates or photos that may help in consideration of your claim.**

1. When did damage or injury occur? (Give exact date and hour)
   12/18/19 at 3am

2. Where did the damage or injury occur?
   Under the street across from my house
   5000 Block Fairview Pl Agura Hills

3. How did the damage or injury occur? (Give full details)
   Major water line break under the road that resulted in mud and debris damaging landscaping and gravel driveway at my house

4. What damage or injuries do you claim?
   Landscaping repair

5. If this claim is for damage to property, are you the legal owner of said property?
Yes [✔] No [ ]. If not, please list name and address of property owner.

6. What is the name/s of the District employee/s causing the injury, damage or loss, if known?
N/A

7. If District employees were involved in causing the damage or injury, do you believe there was a particular act or omission on the part of the employees that caused it?

8. What is the amount the damages claimed? (Attach copies of receipts, invoices, estimates, photos, etc.)

Amount claimed as of this date: $ 595.00

Estimated amount of future expenses: $ 0

Total Amount Claimed: $ 595.00

Basis for computation of amounts claimed: Materials/Labor reimbursement for landscaper

9. Other details? (Names, addresses of witnesses, doctors and hospitals)
Neighbor Michael Trocino and LVMWD workers who repaired the line.

Signature of Claimant or Person Acting on Claimant's Behalf — Date: 1/24/20

This claim must be signed by claimant or by an authorized agent of the claimant. One copy must be filed with this office. Keep one copy for your records.

**Notice:** **Section 72 of the Penal Code provides: "Every person who, with intent to defraud, presents for allowance or for payment to any state board or officer, or to any county, town, city, district, ward or village board or officer, authorized to allow or pay the same if genuine, any false or fraudulent claim, bill, account, voucher, or writing, is guilty of a felony".**

Date Received: 1/29/20 Time: 12:30PM Recorded by:
Via US. Mail

**Note: This document is a Public Record and may be disclosed/released pursuant to the California Public Records Act.**

INVOICE NO. 927401

Invoice

SOLD TO Ryan [redacted]

SHIPPED TO Alberto Sanchez

ADDRESS 6936 Baird Ave

CITY, STATE, ZIP Reseda CA 91335

CUSTOMER'S ORDER NO. HL Landscape

TERMS

F.O.B.

DATE Jan. 24, 2020

| | |
|---|---|
| Mulch front & dem planter | $150.00 |
| Gravel & clean up | $325.00 |
| Dump fee | $120.00 |
| Total | $595.00 |

Ryan and Ali Sheers
[redacted]

SANTA CLARITA CA 913
25 JAN 2020 PM 1 L


Executive Assistant/Clerk of the Board
Las Virgenes Municipal Water District
4232 Las Virgines Rd
Calabasas, CA 91302

91302-355999

ITEM 9B

**INFORMATION ONLY**

March 24, 2020 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

**Subject : Special District Leadership Foundation: District Transparency Certificate of Excellence**

**SUMMARY:**

On February 21, 2020, the District was awarded the District Transparency Certificate of Excellence by the Special District Leadership Foundation (SDLF) in recognition of outstanding efforts to promote transparency and good governance. The SDLF is an independent, non-profit organization formed to promote good governance and best practices among California's special districts through certification, accreditation and other recognition programs.

To receive the Certificate, the District completed eight essential governance transparency requirements, including ensuring all Board Members completed ethics training, properly conducting open and public meetings, and filing financial transaction and compensation reports to the State Controller in a timely manner. The District also fulfilled website requirements, providing readily available information to the public, such as Board agendas, past minutes, the current District budget and the most recent financial audit. Finally, the District demonstrated its commitment to public engagement through its regular District newsletter and community notifications announcing the upcoming election deadline.

The District Transparency Certificate of Excellence recognizes the District for two full years. The District was initially awarded the Certificate in 2013 and awarded it again in 2015, 2017 and 2020. Attached is a copy of the award letter from the Special District Leadership Foundation.

**FISCAL IMPACT:**

No

**ITEM BUDGETED:**

No

**GOALS:**

Sustain Community Awareness and Support

Prepared by: Mary Capps, Administrative Assistant

**ATTACHMENTS:**

SDLF Award Letter

SDLF

SPECIAL DISTRICT
LEADERSHIP FOUNDATION

February 21, 2020

David Pedersen
Las Virgenes Municipal Water District
2432 Las Virgenes Rd.
Calabasas, CA 91302

RE: District Transparency Certificate of Excellence Approval

Dear Mr. Pedersen:
Congratulations! Las Virgenes Municipal Water District has successfully completed the District Transparency Certificate of Excellence program through the Special District Leadership Foundation (SDLF).

On behalf of the SDLF Board of Directors, I would like to congratulate your district on achieving this important certificate. By completing the District Transparency Certificate of Excellence Program, Las Virgenes Municipal Water District has proven its dedication to being fully transparent as well as open and accessible to the public and other stakeholders.

Congratulations and thank you for your dedication to excellence in local government.

Most sincerely,

David Aranda
SDLF Board President

1112 I Street, Suite 200
Sacramento, CA 95814
t: 916.231.2939
f: 916.442.7889
www.sdlf.org