

Resolution 2022-

Murphys Sanitary District
 15 Ernest St Suite A.
 Murphys, CA 95247
 (209) 728-3094 (209) 728-9510 fax
 Email: csecada@murphyssd.org
 Web site: www.murphyssd.org

Board of Directors:
 Steve Gonzales - President
 Vacant - Vice President
 Paige Mc Math-Jue - Treasurer
 Bruce Miller- Secretary
 Joseph Fontana - Parliamentarian

AGENDA

January 13, 2022 9:00 a.m. Regular Meeting 10:00 a.m. Start Closed Session Start 9:00 - Teleconference

Based on guidance from the California Governor's Office and Department of Public Health, in order to minimize the potential spread of the COVID-19 virus, this meeting will not be physically open to the public. All members of the public may participate in the meeting via Web-Ex teleconference information below and will be given the opportunity to provide public comment.

Members of the public are encouraged to participate in the below noticed meeting:

Join the meeting [Click Here](#)

Join by Meeting Number: 2556 987 8476

Meeting Password: msd95247

Join by phone 1-978-990-5183 Access code 673 6289

- 1) 9:00 a.m. Start Public Comment
- 2) CLOSED SESSION ITEM One (1) - Discussion\Possible Action
 - a) CONFERENCE WITH REAL PROPERTY NEGOTIATOR Government Code Section 54956.8
 PROPERTY: 15 Ernest St Murphys, CA 95247
 DISTRICT NEGOTIATORS: C. Secada & D. Murphy
 UNDER NEGOTIATIONS: Price & Terms
- 3) REPORTABLE ACTION FROM CLOSED SESSION
- 4) Begin Open Meeting 10:00 a.m.
- 5) Roll Call
- 6) Pledge of Allegiance
- 7) Agenda Changes
- 8) Public Comment (*Limit 5 minutes per person*) on items not appearing on agenda.
NOTICE: Pursuant to Government Code § 54954.3(a), any member of the public shall be provided with the opportunity to directly address the Murphys Sanitary District Board of Directors concerning any item that has been described in the notice for the meeting before or during consideration of that item or on items not on the agenda but within the district's jurisdiction provided that no action be taken on off-agenda items unless otherwise authorized by law.
- 9) Consent Agenda - Discussion\Possible Action
The following items are expected to be routine non-controversial. Items will be acted upon by the Board at one time without discussion. Any Board member may request that any item be removed for later discussion.
 - a) Minutes
 - 12/09/2021 Regular Meeting
 - 12/16/2021 Special Meeting
 - 12/30/2021 Special Meeting
 - b) Check Disbursements December 2021
 - c) Adopt Res. 2022-01 Re-Authorizing Remote Teleconference Meetings of The Legislative Bodies of Murphys Sanitary District for The Period January 16, 2022 - February 14, 2022 Pursuant to Brown Act Provisions

*Resolution 2022-***10) Staff Reports:**

- a) Administration
- b) Operations

11) Unfinished Business: None**12) New Business:**

- a) Verily Life Science - No cost wastewater testing for SARS-CoV-2 - Bruce Miller - Discussion\Possible Action
- b) Approve Policy: Starting Monthly Billing for New Connections - Discussion\Possible Action
- c) Review Website Hosting and email options for changes and create a committee to Work with Administrative Manager - Discussion\Possible Action
- d) Final Report for WWTP Filtration Trial – Dan Murphy - Discussion\Possible Action
- e) Review\Update Investment Policy - Discussion\Possible Action
- f) **Adopt Res. 2022-02** Approving Real Property Purchase, Price & Terms: 15 Ernest St Murphys, CA 95247 - Discussion\Possible Action
- g) **Adopt Res. 2022-03** Authorized Representative for Real Property Purchase - Discussion\Possible Action

13) Director Comments**14) Next Meeting Agenda Items****15) Next Regular Meeting: February 10, 2022 10:00 a.m.****16) Adjournment**

***Public Notice: All or a portion of this meeting is being recorded
for purpose of public broadcast and/or internet posting.***

Materials related to any item on this Agenda, are available for public inspection in the District Office at 15 Ernest St Suite Murphys, CA 95247 during normal business hours. Information on materials in the agenda is also available via email request to csecada@murphysd.org. Any material provided to the legislative body at the meeting by agency staff or a member of the legislative body will be available at the public meeting; documents provided by others will be available right after the meeting. This agenda shall be made available upon request in alternative formats to persons with a disability, as required by the Americans with Disabilities Act of 1990 (42USC, §12132) and the Ralph M. Brown Act, CA Government Code §54954.2. Any persons requesting a disability related modification or accommodation in order to participate in the meeting should contact Cindy Secada at 209-728-3094, during regular business hours, at least 72 hours prior to the meetings or via email at csecada@murphysd.org. **Regular meetings are held on the second Thursday of the month at 10:00 A.M. at the districts main office located at 15 Ernest Street Suite A. Murphys, CA 95247 or Teleconference**

Murphys Sanitary District
MINUTES- Regular Board Meeting
Thursday, December 9, 2021

Board of Directors:

Steve Gonzales - President
 Paige McMath-Jue - Vice President
 Marty Meller - Treasurer
 Bruce Miller- Secretary
 Joseph Fontana – Parliamentarian

10:04 a.m.

- 1) Roll Call – Steve Gonzales, Paige McMath-Jue, Joseph Fontana (Absent w/out notice), Bruce Miller (Via Phone)
Joseph Fontana Phones in -Technical Issues
- 2) Pledge of Allegiance
- 3) Agenda Changes – *Director P. McMath-Jue requests to move Line Item 11) C. Adopt Res. 2021-09 to after Consent Agenda Motion to approve Minutes & Check Disbursements November 2021, C. Secada advises to “Pull’ Line Item 11) C. for “Discussion” – No Agenda Change*
- 4) Public Comment – *None*
- 5) Acknowledge the Resignation of Lydia A. Scheller effective 11/22/2021 – *Board acknowledges and accepts Director L. Scheller’s “Letter of Resignation”*
- 6) Review Board Member Applications received for the vacancy of Director Scheller
 - *Board reviews and discuss the 1 “Application received for Board Member” submitted by Marty Maller*
- 7) Select New Board Member to Fill Vacancy of Director Scheller
 - *Board accepts the application submitted and select Marty Meller*
- 8) Appoint New Board Member
 Motion: Directors S. Gonzales & J. Fontana motion to appoint Marty Meller as the new Board Member:
Roll Call Vote (4) Yeas (0) Nays (1) Vacancy
- 9) Oath of Office for New Board Member – Marty Meller is sworn in as Board Member and takes the “Oath of Office”
- 10) Select New Board Positions

Motion: Directors P. McMath-Jue & S. Gonzales motion to select the Board positions to as follows; P. McMath-Jue as Vice President & Director M. Meller as Treasurer: *Roll Call Vote – (5) Yeas (0) Nays*

11) Consent Agenda

- a) **Minutes**
11/11/2021 Regular Meeting
- b) **Check Disbursements November 2021**

Motion: Directors P. McMath-Jue & S. Gonzales motion to accept the *Consent Agenda as presented; Minutes & Check Disbursements, November 2021, pull Line Item 11) C. Adopt Res. 2021-09 for discussion: Roll Call Vote (5) Yeas (0) Nays*

- c) **Adopt Res. 2021-09 Re-Authorizing Remote Teleconference Meetings of The Legislative Bodies of Murphys Sanitary District for The Period December 10, 2021 – January 10, 2022 Pursuant to Brown Act Provisions**

Motion: Directors J. Fontana & B. Miller motion to *Adopt Res. 2021-09 Re-Authorizing Remote Meetings of the Legislative Bodies of Murphys Sanitary District for the period of December 10, 2021-January 10, 2021 Pursuant to Brown Act provisions: Roll Call Vote (5) Yeas (0) Nays*

12) Staff Reports

- a) **Administration – C. Secada informs the board of an upcoming IRWM Meeting on 12/15/2021; Planning Grant has been submitted; Balance Sheet included with Board Packet; Status Update on Murphys Oaks Subdivision**
- b) **Operations – Report included in Board Packet**

13) Unfinished Business: None**14) New Business**

- a) **Approve Update Authorized Bank Signers & Transfer of Funds**

El Dorado Savings Bank & LAIF
Remove: Travis Owens, Lydia Scheller
Add: Joseph Fontana and Marty Malleria TBD

Motion: Directors S. Gonzales & P. McMath-Jue motion to approve the update of Authorized Bank Signers & Transfer of Funds, removing Travis Owens & Lydia Scheller, replacing with Joseph Fontana & Marty Melleria: Roll Call Vote (5) Yeas (0) Nays

- b) **Review Current CD Rates - Open a new CD - No Action**
- c) **Acknowledgment of the Federal Emergency Management Agency's (FEMA) approval of the *Calaveras County Multi-Jurisdictional Hazard Mitigation Plan – Information Only, No Action***

15) CLOSED SESSION ITEM One (1) 10:52 a.m.

- a) CONFERENCE WITH REAL PROPERTY NEGOTIATOR Government Code Section 54956.8
PROPERTY: 15 Ernest St Murphys, CA 95247
DISTRICT NEGOTIATORS: C. Secada & D. Murphy
UNDER NEGOTIATIONS: Price & Terms

16) REPORTABLE ACTION FROM CLOSED SESSION – 11:02 - *None*

17) Director Comments - *None*

18) Next Meeting Agenda Items – *Investment Policy*

19) Next Regular Meeting: *January 13, 2022 10:00 a.m.*

20) Adjournment – *11:06 a.m.*

Respectfully;

Amy R Milliken

Bruce Miller, Secretary

**Murphys Sanitary District
Special Meeting - Minutes
Thursday, December 16, 2021**

Board of Directors:

Steve Gonzales - President
Paige Mc Math-Jue - Vice President
Marty Meller - Treasurer
Bruce Miller - Secretary
Joseph Fontana – Parliamentarian

9:06 a.m.

- 1) Roll Call – Steve Gonzales, Paige McMath-Jue, Joseph Fontana, Bruce Miller (Via Call In), Marty Meller
- 2) Public Comment - *None*
- 3) **Adopt Res. 2021-10** Re-Authorizing Remote Teleconference Meetings of The Legislative Bodies of Murphys Sanitary District for The Period December 17, 2021 - January 15, 2022 Pursuant to Brown Act Provisions

Motion: Directors Paige McMath-Jue and J. Fontana motion to *Adopt Res. 2021-10 re-Authorizing Remote Teleconference Meetings of The Legislative Bodies of Murphys Sanitary District for the Period December 17, 2021- January 15, 2022 Pursuant to Brown Act Provisions: Roll Call Vote (5) Yeas (0) Nays*

- 4) CLOSED SESSION ITEM One (1) – 9:09 a.m.
 - a) CONFERENCE WITH REAL PROPERTY NEGOTIATOR Government Code Section 54956.8
PROPERTY: 15 Ernest St Murphys, CA 95247
DISTRICT NEGOTIATORS: C. Secada & D. Murphy
UNDER NEGOTIATIONS: Price & Terms
- 5) REPORTABLE ACTION FROM CLOSED SESSION – 9:43. a.m. - *No Reportable Action*
- 6) Next Regular Meeting: January 13, 2022 10:00 a.m., *Special Board Meeting December 30, 2021 at 9:00 a.m.*
- 7) Adjournment – 9:44 a.m.

Respectfully;

Amy R Milliken

Bruce Miller, Secretary

**Murphys Sanitary District
Special Meeting - Minutes
Thursday, December 30, 2021**

Board of Directors:

Steve Gonzales - President
Paige Mc Math-Jue - Vice President
Marty Mellerer - Treasurer
Bruce Miller - Secretary
Joseph Fontana – Parliamentarian

9:02 a.m.

- 1) Roll Call – Steve Gonzales, Paige McMath-Jue (Via Call In), Joseph Fontana, Bruce Miller (Via Call In), Marty Mellerer (Via Call In)
- 2) Public Comment - *None*
- 3) CLOSED SESSION ITEM One (1) – 9:05 a.m.
 - a) CONFERENCE WITH REAL PROPERTY NEGOTIATOR Government Code Section 54956.8
PROPERTY: 15 Ernest St Murphys, CA 95247
DISTRICT NEGOTIATORS: C. Secada & D. Murphy
UNDER NEGOTIATIONS: Price & Terms
- 4) REPORTABLE ACTION FROM CLOSED SESSION – 9:57. a.m. - *No Reportable Action*
- 5) Next Regular Meeting: January 13, 2022 10:00 a.m., *Special Board Meeting January 6, 2022 at 9:00 a.m.*
- 6) Adjournment – 9:58 a.m.

Respectfully;

Amy R Milliken

Bruce Miller, Secretary

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
MURPHYS SANITARY DISTRICT PROCLAIMING A LOCAL EMERGENCY
PERSISTS, RATIFYING THE PROCLAMATION OF A STATE OF EMERGENCY
BY EXECUTIVE ORDER N-29-20 MARCH 4, 2020, AND RE-AUTHORIZING
REMOTE TELECONFERENCE MEETINGS OF THE LEGISLATIVE BODIES OF
MURPHYS SANITARY DISTRICT FOR THE PERIOD JANUARY 16, 2022
THROUGH February 14, 2022 PURSUANT TO BROWN ACT PROVISIONS.**

RESOLUTION NO. 2022-01

WHEREAS, the MURPHYS SANITARY DISTRICT is committed to preserving and nurturing public access and participation in meetings of the Board of Directors; and

WHEREAS, all meetings of MURPHYS SANITARY DISTRICT's legislative body are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963), so that any member of the public may attend, participate, and watch the district's legislative bodies conduct their business; and

WHEREAS, the Brown Act, Government Code section 54953(e), makes provision for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, a proclamation is made when there is an actual incident, threat of disaster, or extreme peril to the safety of persons and property within the jurisdictions that are within the District's boundaries, caused by natural, technological or human-caused disasters; and

WHEREAS, it is further required that state or local officials have imposed or recommended measures to promote social distancing, or, the legislative body meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, as a condition of extending the use of the provisions found in section 54953(e), the Board of Directors must reconsider the circumstances of the state of emergency that exists in the district, and the Board of Directors has done so; and

WHEREAS, emergency conditions persist in the district, specifically Executive Order N-15-20 March 4, 2020 and

WHEREAS, social distancing is recommended; and

WHEREAS, the Board of Directors does hereby find that due to the COVID-19 pandemic, and social distancing orders and conditions causing imminent risk to attendees, has caused, and will continue to cause, conditions of peril to the safety of persons within the District that are likely to be beyond the control of services, personnel, equipment, and facilities of the District, and desires to affirm a local emergency exists and ratify the proclamation of state of emergency by the Governor of the State of California; and

WHEREAS, as a consequence of the local emergency persisting, the Board of Directors does hereby find that the legislative body of Murphys Sanitary District shall continue to conduct their meetings without compliance with paragraph (3) of subdivision (b) of Government Code section 54953, as authorized by subdivision (e) of section 54953, and that such legislative bodies shall continue to comply with the requirements to provide the public with access to the meetings as prescribed in paragraph (2) of subdivision (e) of section 54953; and

WHEREAS, Murphys Sanitary District will make available to the public online remote access via WebEx.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF Murphys Sanitary District DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Affirmation that Local Emergency Persists. The Board of Directors hereby considers the conditions of the state of emergency in the district and proclaims that a local emergency persists throughout the district.

Section 3. Re-ratification of Governor's Proclamation of a State of Emergency. The Board hereby ratifies the Governor of the State of California's Proclamation of State of Emergency, effective as of its issuance date of March 4, 2020.

Section 4. Remote Teleconference Meetings. The Administration Manager or staff and legislative body of Murphys Sanitary District are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution including, continuing to conduct open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

Section 5. Effective Date of Resolution. This Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of (i) February 16, 2022, or such time the Board of Directors adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the legislative bodies of Murphys Sanitary District may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

PASSED AND ADOPTED by the Board of Directors of Murphys Sanitary District, this 13th day of January, 2022 by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

Steve Gonzales
Board President

ATTEST:

L. Bruce Miller
Secretary of the Board of Directors

Murphys Sanitary District
Check Disbursements
December 2021

| Type | Date | Num | Name | Memo | Amount |
|-----------------|------------|------|---------------------------------------|--|-----------|
| Paycheck | 12/01/2021 | 9502 | Hemstad, Eric N | PR 12012021 | -1,603.77 |
| Paycheck | 12/01/2021 | 9503 | Milliken, Amy R | PR 12012021 | -770.54 |
| Paycheck | 12/01/2021 | 9504 | Murphy, Daniel W. | PR 12012021 | -2,639.13 |
| Paycheck | 12/01/2021 | 9505 | Onstad, Joseph C | PR 12012021 | -2,047.37 |
| Paycheck | 12/01/2021 | 9506 | Petersen, Carolyn M | PR 12012021 | -294.72 |
| Paycheck | 12/01/2021 | 9507 | Secada, Cynthia D | PR 12012021 | -2,781.49 |
| Liability Check | 12/01/2021 | 1 | CalPERS | PR 12012021 | -2,768.30 |
| Liability Check | 12/01/2021 | 2 | EDD | PR 12012021 | -628.70 |
| Liability Check | 12/01/2021 | 3 | EFTPS Federal Taxes | PR 12012021 | -3,201.44 |
| Check | 12/01/2021 | 4 | coPOWER | Dental & Vision Insurance | -294.69 |
| Bill Pmt -Check | 12/02/2021 | 9508 | Alpha | Research & Monitoring | -43.00 |
| Bill Pmt -Check | 12/02/2021 | 9509 | Kim Delbar Cleaning Service | Office Cleaning Monthly Dec 2021 | -60.00 |
| Bill Pmt -Check | 12/02/2021 | 9510 | Mountain Oasis Water | Drinking Water | -33.65 |
| Bill Pmt -Check | 12/02/2021 | 9511 | AT&T Internet - Six Mile | Six Mile - Internet | -53.50 |
| Bill Pmt -Check | 12/06/2021 | 9512 | VOID | VOID: | 0.00 |
| Bill Pmt -Check | 12/06/2021 | 9513 | Modesto Welding Products | Argon rental and Oxygen charges | -14.00 |
| Bill Pmt -Check | 12/06/2021 | 9514 | Calaveras Lumber | Six Mile - Misc. Supplies: Simple Green; Bleach; | -38.15 |
| Bill Pmt -Check | 12/07/2021 | 9515 | Aramark | Uniforms | -226.65 |
| Bill Pmt -Check | 12/07/2021 | 9516 | Carbon Copy | WWTP Copy Machine | -1,603.39 |
| Check | 12/08/2021 | | Vanco Services | Nov auto pay | -82.25 |
| Bill Pmt -Check | 12/09/2021 | 9517 | Bruce Miller | December Regular Board Meeting | -100.00 |
| Bill Pmt -Check | 12/09/2021 | 9518 | Joseph Fontana | December Regular Board Meeting | -100.00 |
| Bill Pmt -Check | 12/09/2021 | 9519 | Paige Mc Math-Jue | December Regular Board Meeting | -100.00 |
| Bill Pmt -Check | 12/09/2021 | 9520 | Steve Gonzales | December Regular Board Meeting | -100.00 |
| Bill Pmt -Check | 12/09/2021 | 9521 | Marty Meller | December - Regular Board Meeting | -100.00 |
| Bill Pmt -Check | 12/13/2021 | 9522 | Black Water Consulting Engineers Inc. | Force Main Part 2 - CIP Project | -482.50 |
| Bill Pmt -Check | 12/13/2021 | 9523 | Calaveras Power Agency | WWTP - Electric | -2,716.95 |
| Bill Pmt -Check | 12/13/2021 | 9524 | Mother Lode Answering Service | Answering Service - Dec 2021 | -228.00 |
| Bill Pmt -Check | 12/13/2021 | 9525 | The Red Store | Misc. TP Office Supplies - Trash Bags | -18.43 |
| Bill Pmt -Check | 12/13/2021 | 9526 | Kett - Rental | January 2022 | -650.00 |
| Paycheck | 12/15/2021 | 9527 | Hemstad, Eric N | PR 12152021 | -1,282.61 |
| Paycheck | 12/15/2021 | 9528 | Milliken, Amy R | PR 12152021 | -761.27 |
| Paycheck | 12/15/2021 | 9529 | VOID | VOID: | 0.00 |
| Paycheck | 12/15/2021 | 9530 | Onstad, Joseph C | PR 12152021 | -2,047.37 |
| Paycheck | 12/15/2021 | 9531 | Petersen, Carolyn M | PR 12152021 | -457.17 |
| Paycheck | 12/15/2021 | 9532 | Secada, Cynthia D | PR 12152021 | -2,941.83 |
| Paycheck | 12/15/2021 | 9533 | Murphy, Daniel W. | PR 12152021 | -3,020.21 |

Murphys Sanitary District

Check Disbursements

December 2021

| | | | | | |
|-----------------|------------|------|--------------------------------|--|------------|
| Liability Check | 12/15/2021 | 1 | CalPERS | PR 12152021 | -2,768.30 |
| Liability Check | 12/15/2021 | 2 | EDD | PR 12152021 | -576.14 |
| Liability Check | 12/15/2021 | 3 | EFTPS Federal Taxes | PR 12152021 | -3,218.12 |
| Check | 12/15/2021 | 4 | CalPERS Health Insurance | Medical Insurance | -4,315.62 |
| Bill Pmt -Check | 12/16/2021 | 9534 | Bruce Miller | 12/16 & 12/30 Special Meetings | -100.00 |
| Bill Pmt -Check | 12/16/2021 | 9535 | Joseph Fontana | 12/16 & 12/30 Special Meetings | -100.00 |
| Bill Pmt -Check | 12/16/2021 | 9536 | Marty Mellera | 12/16 & 12/30 Special Meetings | -100.00 |
| Bill Pmt -Check | 12/16/2021 | 9537 | Paige Mc Math-Jue | 12/16 & 12/30 Special Meetings | -100.00 |
| Bill Pmt -Check | 12/16/2021 | 9538 | Steve Gonzales | 12/16 & 12/30 Special Meetings | -100.00 |
| Bill Pmt -Check | 12/16/2021 | 9539 | SWRCB Fees | Annual Permit Fees - Six Mile 7/01/2021-6/30/2 | -23,783.00 |
| Bill Pmt -Check | 12/16/2021 | 9540 | US Bank | Misc. Supplies; Postage Garbage Pick-up; Fuel; | -2,766.15 |
| Bill Pmt -Check | 12/16/2021 | 9541 | SWRCB Fees | Annual Permit Fees - Office 7/01/2021-6/30/20 | -3,326.00 |
| Bill Pmt -Check | 12/16/2021 | 9542 | AT&T - Office Phone | Office Phone Lines | -443.50 |
| Bill Pmt -Check | 12/16/2021 | 9543 | AT&T Murphys Grade Alarm | Murphys Grade Alarm | -70.15 |
| Bill Pmt -Check | 12/16/2021 | 9544 | AT&T Six Mile Phone | Six Mile Phone | -234.65 |
| Bill Pmt -Check | 12/20/2021 | 9545 | AT&T Internet - Office | Office - Internet | -58.85 |
| Bill Pmt -Check | 12/20/2021 | 9546 | MKI Home Inspection | 15 Ernest St Home Inspection | -700.00 |
| Bill Pmt -Check | 12/20/2021 | 9547 | PGE-Emerald Creek Pump Station | Emerald Creek - Electric November/December 2 | -140.51 |
| Bill Pmt -Check | 12/20/2021 | 9548 | PGE-Office | Office Electric - November/December 2021 | -180.19 |
| Bill Pmt -Check | 12/21/2021 | 9549 | Bruce Miller | TS-IRWM 11/17 & 12/15 | -100.00 |
| Bill Pmt -Check | 12/21/2021 | 9550 | VOID | VOID: | 0.00 |
| Check | 12/23/2021 | | Vanco Services | HAM0002 Vanco NSF 12/20/2021 | -60.00 |
| Bill Pmt -Check | 12/23/2021 | 9551 | Comcast Business | Office - Internet | -133.75 |
| Bill Pmt -Check | 12/28/2021 | 9552 | Comcast- Emerald Creek | Emerald Creek - Alarm Dec/January 2022 | -99.87 |
| Paycheck | 12/29/2021 | 9553 | Hemstad, Eric N | PR 12292021 | -1,448.67 |
| Paycheck | 12/29/2021 | 9554 | Milliken, Amy R | PR 12292021 | -770.54 |
| Paycheck | 12/29/2021 | 9555 | Murphy, Daniel W. | PR 12292021 | -2,763.37 |
| Paycheck | 12/29/2021 | 9556 | Onstad, Joseph C | PR 12292021 | -2,124.57 |
| Paycheck | 12/29/2021 | 9557 | Petersen, Carolyn M | PR 12292021 | -294.71 |
| Paycheck | 12/29/2021 | 9558 | Secada, Cynthia D | PR 12292021 | -2,689.37 |
| Liability Check | 12/30/2021 | 1 | CalPERS | PR 12292021 | -2,768.30 |
| Liability Check | 12/30/2021 | 2 | EDD | PR 12292021 | -632.00 |
| Liability Check | 12/30/2021 | 3 | EFTPS Federal Taxes | PR 12292021 | -3,215.42 |

TOTAL -94,472.83

ADMINISTRATION REPORT

01/13/2022 Board Meeting

December 2021

Cindy Secada

Finance

Cash Fund Balances as of 12-31-2021

| | |
|---------------------------------------|------------------------|
| El Dorado Checking | \$ 176,970.13 |
| Reserves - LAIF @10/31/2021 | \$ 2,139,563.98 |
| CalPERS Trust Acct Funds | \$ 00.00 |
| UBS CD Accounts <i>Matures 5/2022</i> | \$ 100,000.00 |
| Petty Cash | \$ 200.00 |
| Total Cash Balances | \$ 2,416,734.11 |

| | |
|---------------------------|------------------|
| Dec Income | \$ 155,275.79 |
| New Connection Funds YTD | \$ 149,500.00 |
| Grant Income YTD | \$ 112,071.00 |
| Property Tax income YTD | \$ 7,100.29 |
| CD's Interest Earned - | \$ 0.00 |
| YTD Interest Earned | \$ 1,228.40 |
| Budget performance target | 50 % |
| LAIF Performance | .203% 12/10/2021 |

Administration

1. *We are at the six (6) month mark for our 2021/22 fiscal year. We have exceeded our projection for new connection fees and late fees. We should be receiving our first property tax payment this month with the second one coming in May. Our projection for the property tax income is \$\$125,000. Income is on track.*
For the expenses, a few line items to note; 7015.50 office equipment; we had two unplanned purchases, (1) new copier for the WWTP office, \$1600 and (2) a new Chromebook for remote meetings \$365. The other line items are 6022.00 and 7022.50 telephone\internet for both WWTP and Admin; internet costs have increased. However, currently all expenses total at 46% of budget.
2. LAIF Funds: *as of 12/31/2021 balance is \$2,139,563.98; see attached balance sheet of 12/31/2021. On 12/03/2021, a transfer of \$160,000 from El Dorado Operating account to LAIF was processed.*
3. IRWM: *There was no Watershed Advisory Committee (WAC) meeting in December, however I attended two (2) JPA meetings, 12/15/2021 and a special meeting for the JPA 1/03/2022. Grant applications are moving forward.*
4. Murphys Oaks Sub-division: *Two homes are completed. There twelve (12) homes under construction, all twelve have paid for permits. Connection inspections expected for under construction projects before the end of the fiscal year. I am expecting at least two (2) more new connection permits to be purchased this fiscal year*
5. WWTP Part Two (2) – Force Main, Filters & Generator: *Planning grant application has been submitted. A response is not expected before March 2022.*

Murphys Sanitary District for 01/13/2022

Policy Title: **Operating Fund and Strategy Fund Policy**

Approved:

Updates: 02/14/2019, 11/11/2021

Income:

- Income from sewer service fees, plan check fees, inspection fees, Interest, other services to: General - Operating Fund
- Income from Taxes, new connection fees to Strategy Fund
- Income from Grant Funds – General Operating Fund or Strategy Fund or reimburses the fund that made the original payment to the vendor for which the grant payment was received.

Operating Fund Allocation (El Dorado Savings Bank):

- Budgeted operating costs

Strategy Fund Allocation (LAIF, Cd's Account Balance):

- Priority Allocations: **\$2,339,564**
- Reserve Three (3) months of Billing Income, used to offset and income deficiencies. **(Budgeted. Fixed amount determined during the budget process. \$222,795**
- Debt Service - Amount equal to a minimum of 1 (one) year debt service with respect to the districts debt service obligation(s). **(Budgeted. Fixed amount determined during the budget process. \$51,000**

Secondary Allocations: **\$2,065,769**

- Capital Repair & Replacement 50% of LAIF Account Balance **(CIP)** \$1,032,885
- Equipment Repair & Replacement 20% of LAIF Account Balance **(Equipment)** \$413,153
- Discretionary Fund 30% of LAIF Account Balance \$619,731

Other requirements:

- Use the current 10-year CIP as our guide for capital expenses
- Utilizing Discretionary funds requires a unanimous vote.

**Murphys Sanitary District
December 2021
Fiscal Year 2021/22**

| | Dec 2021 | 2021-22 | Annual Budget | % of Annual Budget |
|---|-------------------|-------------------|---------------------|--------------------|
| 50.00% | | | | |
| Income | | | | |
| 4100 · Srv Chrgs - Residential | 54,730.40 | 325,841.72 | 645,560.00 | 50.47% |
| 4102 · Srv Chrgs - Apartments | 3,180.00 | 19,080.00 | 38,160.00 | 50.00% |
| 4104 · Srv Chrgs - Lodges/Churches | 360.00 | 2,160.00 | 4,320.00 | 50.00% |
| 4106 · Srv Chrgs - School | 356.00 | 2,136.00 | 4,272.00 | 50.00% |
| 4108 · Srv Chrgs - Commercial | 15,636.22 | 88,678.78 | 171,131.00 | 51.82% |
| Total Monthly Billing | 74,262.62 | 437,896.50 | 863,443.00 | 50.72% |
| 4110 · Plan Ck & Inspection Fees | 200.00 | 400.00 | 3,000.00 | 13.33% |
| 4111 · Late Fees | 575.92 | 1,875.84 | 1,500.00 | 125.06% |
| 4120 · Taxes | 0.00 | 7,100.29 | 125,000.00 | 5.68% |
| 4130 · Other Services | 27.05 | 1,015.65 | 1,500.00 | 67.71% |
| 4140 · General Reserve Interest | 2.88 | 1,228.40 | 3,000.00 | 40.95% |
| 4150 · Vacant Lot Billing | 100.00 | 200.00 | 2,000.00 | 10.00% |
| 4160 · Refunds - Rebates | 107.32 | 341.94 | 474.00 | 72.14% |
| 4200 · Connection Fees | 80,000.00 | 149,500.00 | 120,000.00 | 124.58% |
| Total Misc. Income | 81,013.17 | 161,662.12 | 256,474.00 | 63.03% |
| TOTAL INCOME | 155,275.79 | 599,558.62 | 1,119,917.00 | 53.54% |
| Grant Funds - Other | | | 0.00 | 0.00% |
| Grant Funds - WWTP Construction | - | 112,071.00 | 112,071.00 | 100.00% |
| <i>Reserve Balance Transfer</i> | | | 165,036.99 | |
| TOTAL INCOME | 155,275.79 | 711,629.62 | 1,397,024.99 | 50.94% |
| Wages | | | | |
| 5001.00 · Wages - Operations | 21,981.60 | 101,928.00 | 190,541.00 | 53.49% |
| 5001.50 · Wages - Administration | 14,160.50 | 66,774.76 | 126,203.53 | 52.91% |
| 5002.00 · Overtime - Operations | 1,555.76 | 4,226.56 | 6,000.00 | 70.44% |
| 5002.50 · Overtime - Office | 0.00 | 244.44 | 500.00 | 48.89% |
| 5005.00 · On-Call Comp - Operations | 700.00 | 3,000.00 | 5,200.00 | 57.69% |
| Total Wages | 38,397.86 | 176,173.76 | 328,444.53 | 53.64% |
| Employee Benefits | | | | |
| 5010.00 · Health Insurance - Operations | 8,046.61 | 43,445.70 | 81,600.00 | 53.24% |
| 5010.50 · Health Insurance Administration | 3,038.76 | 14,206.52 | 26,400.00 | 53.81% |
| 5015.00 Accrued Vacation - Operations | - | 1,488.00 | 3,622.00 | 41.08% |
| 5015.50 Accrued Vacation - Administration | | | 1,701.00 | 0.00% |
| 5010.10 · CalPERS Retirement - Unfunded Liability | - | 187,000.00 | 200,000.00 | 93.50% |
| 5020.00 · CalPERS Retirement - Operations | 609.55 | 7,024.57 | 15,522.77 | 45.25% |
| 5020.50 · CalPERS Retirement - Admin | 884.76 | 4,128.90 | 9,586.00 | 43.07% |
| Total Employee Benefits | 12,579.68 | 257,293.69 | 338,431.77 | 76.03% |
| PR Taxes | | | | |
| 5030.50 · FICA-Medicare | 3,403.49 | 15,766.10 | 29,510.69 | 53.43% |
| Total PR Taxes | 3,403.49 | 15,766.10 | 29,510.69 | 53.43% |

**Murphys Sanitary District
December 2021
Fiscal Year 2021/22**

| | Dec 2021 | 2021-22 | Annual Budget | % of Annual Budget |
|---|-----------------|------------------|------------------|--------------------|
| 50.00% | | | | |
| Workman's Comp - | | | | |
| 5040.00 · Workers Compensation – Operation | - | 27,688.58 | 31,000.00 | 89.32% |
| 5040.50 · Workers Comp. – Administration | - | 670.28 | 1,000.00 | 67.03% |
| Total Workman's Comp | - | 28,358.86 | 32,000.00 | 88.62% |
| OPERATIONS - Maint & Repairs - Other | | | | |
| 6001.10 · R&M - Collection | - | 3,629.96 | 3,000.00 | 121.00% |
| 6001.20 · R&M - Treatment | - | 2,749.94 | 3,000.00 | 91.66% |
| 6002.40 · R&M - Truck | - | | 4,000.00 | 0.00% |
| 6003.40 · R&M - Tractor | - | 146.00 | 1,000.00 | 14.60% |
| 6004.40 · R&M -Trailer\Trash Pumps | - | | 500.00 | 0.00% |
| 6005.40 · R&M - Hydro Equipment | - | 270.45 | 1,000.00 | 27.05% |
| 6006.40 · R&M - Sml Tools & Equipment | - | 544.13 | 1,000.00 | 54.41% |
| Total Maint & Repairs - Other | - | 7,340.48 | 13,500.00 | 54.37% |
| OPERATIONS - Supplies | | | | |
| 6010.00 · Equipment Rental | | | 350.00 | 0.00% |
| 6011.00 · Gas-Oil-Fuel | 372.50 | 2,023.49 | 8,000.00 | 25.29% |
| 6012.10 · Supplies - Collection | 14.00 | 609.10 | 1,500.00 | 40.61% |
| 6012.20 · Supplies - Treatment | (4.47) | 14,682.25 | 35,000.00 | 41.95% |
| 6013.00 · Safety Supplies | - | | 1,000.00 | 0.00% |
| 6014.00 · Small Tools - Equipment CIP | - | | 7,000.00 | 0.00% |
| 6015.00 · Uniforms | 226.65 | 1,039.48 | 4,000.00 | 25.99% |
| OPERATIONS - Supplies | 608.68 | 18,354.32 | 56,850.00 | 32.29% |
| OPERATIONS - Utilities | | | | |
| 6021.10 · Electric - Water | 1,184.46 | 6,918.08 | 12,000.00 | 57.65% |
| 6021.20 · Electric - Water - Garbage | 2,027.36 | 13,450.00 | 26,000.00 | 51.73% |
| 6022.00 · Telephone - Internet | 579.34 | 2,554.14 | 4,000.00 | 63.85% |
| Total Utilities | 3,791.16 | 22,922.22 | 42,000.00 | 54.58% |

**Murphys Sanitary District
December 2021
Fiscal Year 2021/22**

| 50.00% | Dec 2021 | 2021-22 | Annual Budget | % of Annual Budget |
|--|-----------------|------------------|------------------|--------------------|
| OPERATIONS - Other | | | | |
| 6031.20 · Education Operations | - | 1,250.21 | 3,000.00 | 41.67% |
| 6032.20 · Research - Monitoring | 43.00 | 11,779.30 | 24,000.00 | 49.08% |
| 6033.00 · Answering Service | 228.00 | 1,368.00 | 3,036.00 | 45.06% |
| 6034.00 · Alarm \Security All departments | 99.87 | 1,923.73 | 6,881.00 | 27.96% |
| Total Other | 370.87 | 16,321.24 | 36,917.00 | 44.21% |
| ADMINISTRATION - Rents - Leases | | | | |
| 7050.10 · Rents & Leases - Collection | - | 720.00 | 720.00 | 100.00% |
| 7050.50 · Rents & Leases | 650.00 | 3,900.00 | 7,800.00 | 50.00% |
| Total Rents - Leases | 650.00 | 4,620.00 | 8,520.00 | 54.23% |
| ADMINISTRATIVE - Supplies | | | | |
| 7011.00 · Office Supplies - Operations | 164.66 | 925.79 | 2,000.00 | 46.29% |
| 7011.50 · Office Supplies - Admin | 374.30 | 1,108.98 | 4,000.00 | 27.72% |
| 7012.50 · Postage | 1,160.00 | 1,863.95 | 3,300.00 | 56.48% |
| 7013.50 · Printing | | | 200.00 | 0.00% |
| 7014.00 · Publications - Operations | | | 200.00 | 0.00% |
| 7015.50 · Office Equipment-Software | 1,637.38 | 3,648.54 | 3,000.00 | 121.62% |
| Total Supplies | 3,336.34 | 7,547.26 | 12,700.00 | 59.43% |
| ADMINISTRATIVE - Utilities | | | | |
| 7021.50 · Electric - Water | 180.19 | 851.31 | 1,700.00 | 50.08% |
| 7022.50 · Telephone-Internet Access | 636.10 | 2,263.39 | 4,000.00 | 56.58% |
| Total Utilities | 816.29 | 3,114.70 | 5,700.00 | 54.64% |
| ADMINISTRATIVE - Other | | | | |
| 7030.50 · Bank Charges - Vanco Auto Pay Fees | 112.25 | 555.00 | 1,100.00 | 50.45% |
| 7031.50 · County Lien Costs -Mileage | 149.98 | 221.23 | 500.00 | 44.25% |
| 7032.50 · Interest Expense | | | | |
| 7034.50 · Education | | | 3,000.00 | 0.00% |
| 7035.50 · Memberships | 180.00 | 8,697.00 | 9,800.00 | 88.74% |
| 7036.50 · Grant Expenses - Force Main | - | 4,947.50 | 25,000.00 | 19.79% |
| Total Other | 442.23 | 14,420.73 | 39,400.00 | 36.60% |

**Murphys Sanitary District
December 2021
Fiscal Year 2021/22**

| | Dec 2021 | 2021-22 | Annual Budget | % of Annual Budget |
|---|------------------|-------------------|---------------------|--------------------|
| 50.00% | | | | |
| ADMINISTRATIVE - Insurance | | | | |
| 7040.50 · Liability Ins | - | 26,954.54 | 27,030.00 | 99.72% |
| Total Insurance | - | 26,954.54 | 27,030.00 | 99.72% |
| ADMINISTRATIVE - Professional | | | | |
| 7054.50 · Office Cleaning | 60.00 | 360.00 | 720.00 | 50.00% |
| 7053.50 · Professional - Accounting | - | 8,500.00 | 8,500.00 | 100.00% |
| 7051.50 · Professional - Legal Services | 700.00 | 1,847.00 | 4,780.00 | 38.64% |
| 7052.50 · Board Expenses | 1,100.00 | 3,374.24 | 10,950.00 | 30.81% |
| Total Professional | 1,860.00 | 14,081.24 | 24,950.00 | 56.44% |
| ADMINISTRATIVE - License - Permits | | | | |
| 7070.00 · State Permits | 27,109.00 | 27,371.00 | 31,000.00 | 88.29% |
| 7071.20 · Plan Check Permits - Treatment | | | 3,000.00 | 0.00% |
| Total License Permits | 27,109.00 | 27,371.00 | 34,000.00 | 80.50% |
| ADMINISTRATIVE - Advertising | | | | |
| 7080.50 · Advertising | | | 750.00 | 0.00% |
| 7081.50 · Customer Outreach | | | 750.00 | 0.00% |
| Total Advertising | - | 0.00 | 1,500.00 | 0.00% |
| ADMINISTRATIVE - Engineering | | | | |
| 8500.50 · Engineering-General | - | 180.00 | 25,000.00 | 0.72% |
| Total Engineering | - | 180.00 | 25,000.00 | 0.72% |
| TOTAL OPERATING EXPENSES | 93,365.60 | 640,820.14 | 1,056,453.99 | 60.66% |
| CAPITAL EXPENSE - Loans | | | | |
| 9030.00 · WWTP Upgrade DWR Loan | - | | 51,000.00 | |
| Total Capital Loans | - | - | 51,000.00 | 0.00% |
| CAPITAL EXPENSES - CIP | | | | |
| 9007.00 · Capital Equipment Repair\Replace | | | 10,000.00 | 0 |
| 9009.00 · Projects SSMP - EAP - Inundation Maps | - | | | #DIV/0! |
| 9021.20 · CIP WWTP Upgrade II | 482.50 | 827.50 | 165,000.00 | 0.50% |
| 9022.00 · Treatment Plant Upgrade - Grant Funds | | | | #DIV/0! |
| Total Capital Expenses-CIP | 482.50 | 827.50 | 175,000.00 | 0.00472857 |
| TOTAL CAPITAL | 482.50 | 827.50 | 226,000.00 | 0.0036615 |
| Cash to Reserves | | | | #DIV/0! |
| Cash to Reserves from Grant Proceed | | | 112,071.00 | 0.00% |
| TOTAL EXPENSES | 93,848.10 | 641,647.64 | 1,394,524.99 | 46.01% |



PMIA/LAIF Performance Report as of 12/10/21



PMIA Average Monthly Effective Yields⁽¹⁾

| | |
|-----|-------|
| Nov | 0.203 |
| Oct | 0.203 |
| Sep | 0.206 |

Quarterly Performance Quarter Ended 09/30/21

| | |
|--|---------------------|
| LAIF Apportionment Rate ⁽²⁾ : | 0.24 |
| LAIF Earnings Ratio ⁽²⁾ : | 0.00000661958813242 |
| LAIF Fair Value Factor ⁽¹⁾ : | 0.999873661 |
| PMIA Daily ⁽¹⁾ : | 0.20% |
| PMIA Quarter to Date ⁽¹⁾ : | 0.22% |
| PMIA Average Life ⁽¹⁾ : | 321 |

Pooled Money Investment Account Monthly Portfolio Composition ⁽¹⁾ 11/30/21 \$178.6 billion

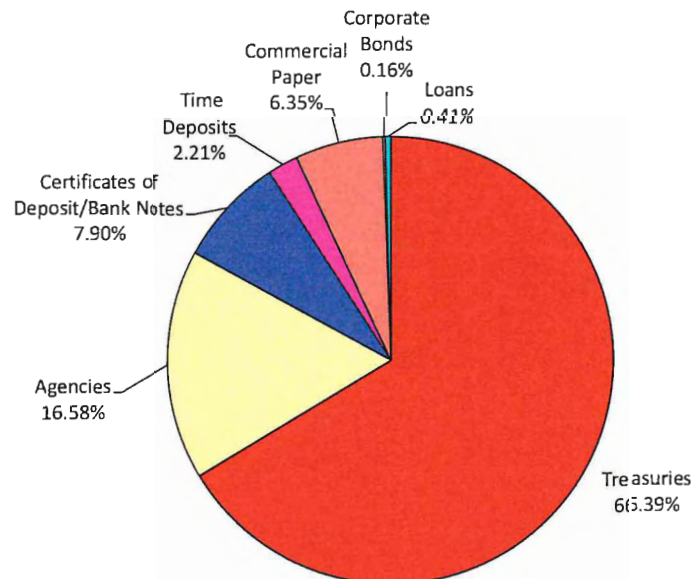


Chart does not include \$7,037,000.00 in mortgages, which equates to 0.003941%. Percentages may not total 100% due to rounding.

Daily rates are now available here. [View PMIA Daily Rates](#)

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

Source:

⁽¹⁾ State of California, Office of the Treasurer

⁽²⁾ State of California, Office of the Controller

10:58 AM
01/10/22
Cash Basis

Murphys Sanitary District
Balance Sheet
As of December 31, 2021

| | Dec 31, 21 |
|--|---------------|
| ASSETS | |
| Current Assets | |
| Checking/Savings | |
| Operating Fund | 176,970.13 |
| Cash Drawer | 200.00 |
| Fund Accounts | |
| LAIF | 2,139,563.98 |
| UBS CD 3 | 100,000.00 |
| Total Fund Accounts | 2,239,563.98 |
| Total Checking/Savings | 2,416,734.11 |
| Accounts Receivable | |
| 11000 - Accounts Receivable | -6,843.83 |
| Total Accounts Receivable | -6,843.83 |
| Other Current Assets | |
| Prepaid Expenses | 32,045.33 |
| CIP Force Main | 14,527.45 |
| Const. Grant Receivables | 112,071.00 |
| Deferred Outflows-Contribution | 69,905.00 |
| Grant Funds Receivables | 61,870.44 |
| Rent Deposit | 600.00 |
| Total Other Current Assets | 291,019.22 |
| Total Current Assets | 2,700,909.50 |
| Other Assets | |
| Capital WWTP Upgrade 2021 | 5,036,791.47 |
| Accumulated Depreciation | -1,911,254.48 |
| Donated Property | 1,440,389.00 |
| Land | 274,091.29 |
| Collection Expansion | 216,729.72 |
| Capital Equipment | 181,671.83 |
| Capital Administration | 7,185.80 |
| Capital Improvement-Treatment | 1,880,068.90 |
| Capital Improvement-Collection | 19,897.00 |
| Subsurface Lines | 1,797,846.73 |
| Total Other Assets | 8,943,417.26 |
| TOTAL ASSETS | 11,644,326.76 |
| LIABILITIES & EQUITY | |
| Liabilities | |
| Current Liabilities | |
| Other Current Liabilities | |
| Compensated Absences | 24,034.36 |
| Accrued Interest | 5,117.32 |
| Total Other Current Liabilities | 29,151.68 |
| Total Current Liabilities | 29,151.68 |
| Long Term Liabilities | |
| SWRCB Loan WWTP Upgrade | 1,003,397.00 |
| Deferred Inflows-Actuarial | 3,618.00 |
| Net Pension Liability | 181,426.00 |
| Total Long Term Liabilities | 1,188,441.00 |
| Total Liabilities | 1,217,592.68 |
| Equity | |
| CAPITAL WWTP Bridge Loan | 2,134,562.50 |
| Capital Balances | |
| Fund Balance | 3,759,539.44 |
| Total Capital Balances | 3,759,539.44 |
| 3200 - Retained Earnings | 4,462,650.16 |
| Net Income | 69,981.98 |
| Total Equity | 10,426,734.08 |
| TOTAL LIABILITIES & EQUITY | 11,644,326.76 |

WWTP MONTHLY TOTALS

Operational Review

December 2021

| | |
|-------------------------------|---|
| Pond# 4 | Five feet and two inches of water level increase in Pond 4 storage, Began January 2022 with 13'11" of freeboard |
| PG&E Kilo use | 535 kWhrs at WWTP 89 kWhrs at IPS |
| Rain Fall at WWTF | 16 inches of rain recorded for the month- four times what we received in December 2020 |
| CL2 Usage | None (no Effluent was pumped) |
| Plant influent gallons | 6.7 million gallons- directly tied to I&I and ground water levels (nearly twice last month's totals) |
| Effluent gallons | None (Seasonal Effluent production shutdown) |
| Ironstone Influent | 127,000 gallons AVG |
| Hydro flushing lineal footage | More than 4 thousand feet of flushing and inspection |
| Sewer Overflow Count | None |
| Spray Field Gallons Applied | None |

- 12/10- Ali Giti from AquaPyr completed filter trial and removed equipment from treatment plant. Final report and analysis were received 1-3-22
- 12-11- Bruce Whittle tuned some of the level probe program features at the IPS correcting the sensor run issues that were preventing the pumps from functioning in automatic mode. On inspection our equipment is in good working order and not failing but however, this transponder “noise” issue is not uncommon and can be something that does not initially show in start-up programming.
- December saw larger than predicted rainfall and even a few inches of snow accumulation at the plant at the end of the month. With the increased amount of groundwater infiltration through older clay and cement portions of our collection system and the surface loading and run off that the nearly 17 acres of treatment ponds receive, allowed for more than five feet of elevation in storage.
- No sewer system spills or Collections overflows were recorded in December making it the ninth consecutive month for MSD without an SSO. This also makes 2021 the second year in a row with only a single backup which is testament to the quality and frequency that the Collections crew maintain our system.

Hi.

Can you agendize this?

Stanford U is leading a group called SCAN to do DNA sequencing of waste water to e.g. detect the spread of COVID variants (but that's not the only goal). I reached out to them to see if they'd be interested in adding us, and it looks like they will, at no cost to us. As a ratepayer, this is something I'd like to see the district do.

Begin forwarded message:

From: Brent Coco <brentcoco@verily.com>
Subject: Verily Life Science - No cost wastewater testing for SARS-CoV-2
Date: December 23, 2021 at 8:45:14 AM PST
To: buggy@buggysoftware.com
Reply-To: brentcoco@verily.com

Mr. Miller,

Your contact info was passed along to me via Ali Boehm's SCAN group and I thought you may have interest in our program. Verily Life Sciences, LLC has developed a solids-based wastewater epidemiology testing program and is ramping up our site population to become nationwide. We are offering 3x/week solids testing for one (1) year at no cost, inclusive of materials and logistics expenses, to POTWs around the US and would like to extend this offer to wastewater treatment plants throughout your area.

Results for participating facilities will typically be posted online within 24-48 hrs after being received at our Verily labs. We will be standing up this public dashboard similar to wbe.stanford.edu with particular focus on variants (we currently detect delta and omicron and will be able to probe for any new VOCs when probes are created). Qualified researchers will also have free access to Terra in the coming months where detailed data and future sequencing results will be shared.

Our methods, co-developed with Dr. Ali Boehm at Stanford, are differentiated by using standardization and higher detection sensitivity protocols for each sample tested. This allows for better quantitative comparison across time and location than many other methods allow. We will also be using uniform deployment of updated ddPCR probes at centralized labs.

Our goal is to onboard larger sewersheds to make the most impact, however we understand your interests and would like to include Murphys Sanitary District into the program if possible. Please let us know ASAP if you are interested in participating. I have attached a 1-sheeter for your reference and am happy to answer any questions. I can send over the contracting information immediately upon your request and am happy to answer any questions regarding methodology, logistics, or other factors.

We plan to start receiving samples as soon as January 4, 2022.

Thanks,
Brent



Wastewater Monitoring

Q&As

WHAT IS THE COST?

Nothing. This is a free service offered by Verily Life Sciences, inclusive of materials and logistics expenses for one year. All costs will be covered by Verily.

HOW MUCH EFFORT IS INVOLVED?

Verily prefers to collect and process wastewater-derived grab or composite solids from the sludge of the primary clarifier, as extraction and testing from solids has been shown to be more sensitive when detecting levels of SARS-CoV-2. However, Verily can also process settled solids from liquid influent provided we are sent only the resulting solids.

Collection vessels will be provided for solids as two (2) 50 mL tubes per sampling. If your facility can only support sampling of liquid influent, Verily will provide sedimentation equipment to settle out solids at your location.

Sampling is to be performed three (3) times a week for at least one year with potential for indefinite testing. All packaging and postage will be provided and we ask to expedite sample shipping to preserve the quality of viral material within.



WHAT IS BEING PROBED AND DETECTED?

Verily laboratories specifically test for the presence of the SARS-CoV-2 virus using custom designed RNA probes. Our detection probe set currently includes the Delta and Omicron variants, as well as the other viral pathogens influenza and respiratory syncytial virus (RSV). No

other pathogens are currently being tested although we may re-test samples for other viral pathogens at a later date. We are not testing for any other substances.

HOW DOES VERILY DIFFER FROM OTHER LOCAL OR NATIONAL TESTING PROGRAMS?

Verily uses proprietary testing techniques that are more sensitive than other SARS-CoV-2 testing programs currently available. We are providing resulting data to everyone in our program, as well as sharing data with the CDC's NWSS and Stanford's SCAN programs at this time. Verily actively collaborates with other public health agencies and we are happy to share wherever possible. The goal of the Verily Wastewater Testing Program is to create a nationwide SARS-CoV-2 incidence and variant monitoring system that can be generalized to test for new infectious diseases or future pandemics.

HOW WILL I RECEIVE MY PLANT'S RESULTS?

A near real-time dashboard is available via the web and is refreshed whenever new data is obtained. The data within will be comparable against local clinical cases, neighboring municipalities, and other comparators that will be useful to public health officials.

You may expect your plant's results 24-48 hrs after being received at Verily laboratories.

HOW IS TESTING FOR WASTEWATER ADVANTAGEOUS OVER CLINICAL TESTING?

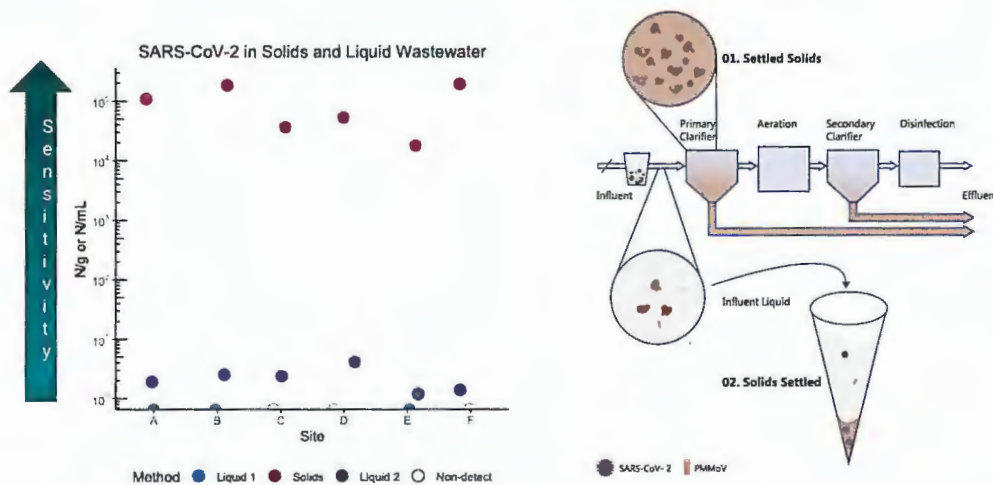
Wastewater monitoring is ideal for detecting and tracking SARS-CoV-2 incidence rates and the prevalence of timely viral variants of concern (e.g. delta or omicron) in regionalized watersheds. Detection through wastewater:

- Improves health equity by removing test-seeking and test-availability biases
- Lowers the burden on the local health jurisdictions for wide-scale surveillance testing
- Provides continual viral abundance information to aid local municipalities in decision-making to best support their communities (modify public health mandates, galvanize resources)
- Establishes preparedness for future variant or other viral pathogen (e.g., RSV) detection and response

Through regular wastewater testing, Verily can report any prevalence of SARS-CoV-2 so that health agencies can make informed decisions to keep communities safe.

WHY DO YOU PREFER SOLID SAMPLES OVER LIQUID INFLUENT?

- Unlike other methods that utilize liquid samples, Verily measures SARS-CoV-2 from wastewater solids or settled solids. The higher concentration (Figure 3, left) and consistency allows results to be directly compared across wastewater treatment plants
- Solids from the primary clarifier are preferred although settled solids extracted from influent liquid can also be used



Viral load collected from solids/settled solids is much more concentrated, leading to higher sensitivity and comparability across time points and wastewater treatment plants.

INTERESTED IN LEARNING MORE?

Reach out to Verily at publichealthteam@verily.com for more information on methodology, pricing, and next steps

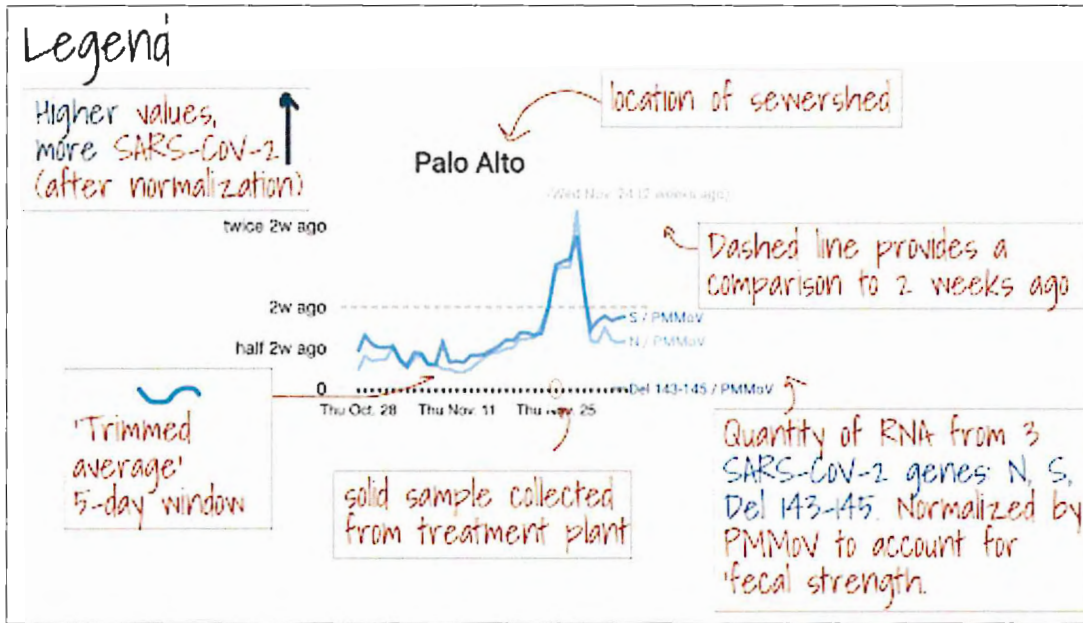
REFERENCES


MK Wolfe et al. Sept 2021 mSystems. High-Frequency, High-Throughput Quantification of SARS-CoV-2 RNA in Wastewater Settled Solids at Eight Publicly Owned Treatment Works in Northern California Shows Strong Association with COVID-19 Incidence

Additional Questions?

Please reach out to publichealthteam@verily.com

[Overview](#) [Drilldown](#) [Drilldown \(log\)](#) [Smoothing](#) [Location Compare](#) [Location Compare Delta](#)
[Mutation](#) [Location Compare Del 143-145](#) [Mutation](#) [About](#)

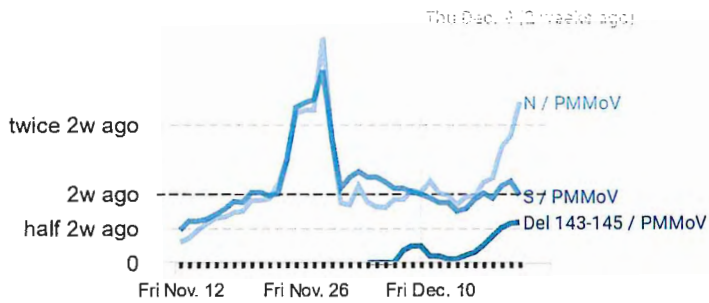


The grey area  at the bottom of the charts shows values below the approximate method detection limit. Trimmed averages may appear within this range when they include samples where the target wasn't detected, as these are recorded as 0.

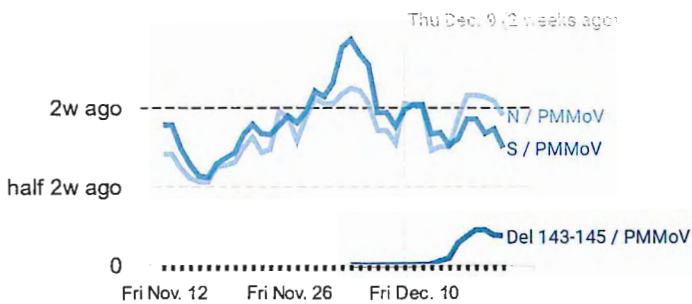
Last 6 weeks ▾

show gridlines

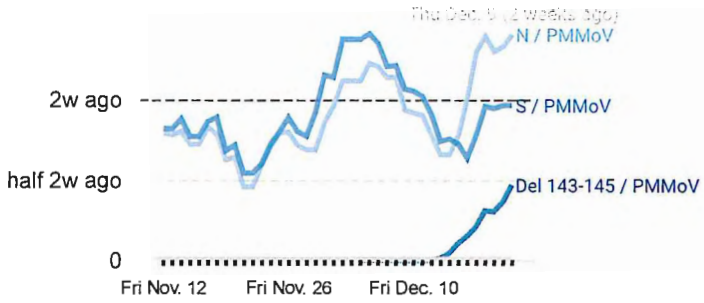
Palo Alto



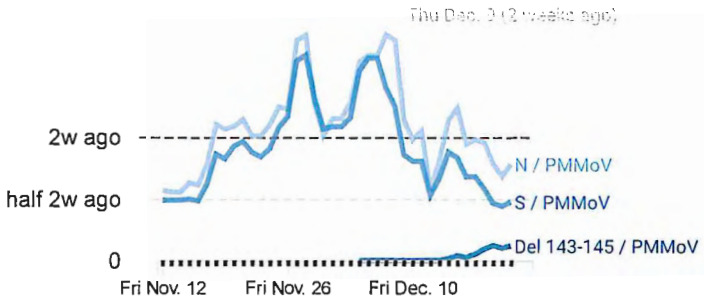
San Jose



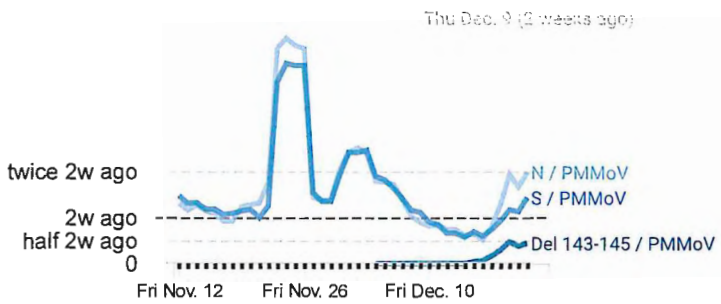
Sunnyvale



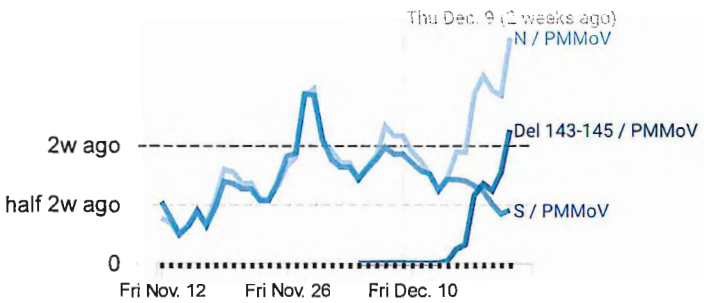
Gilroy



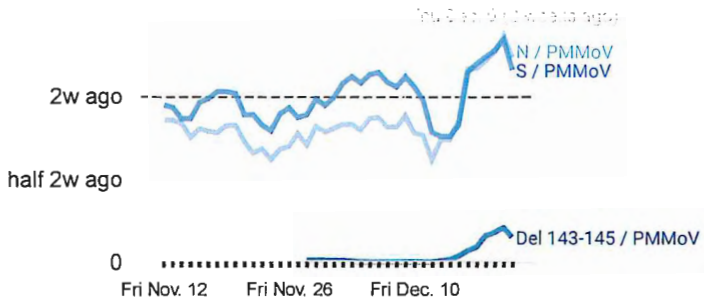
Davis



Silicon Valley



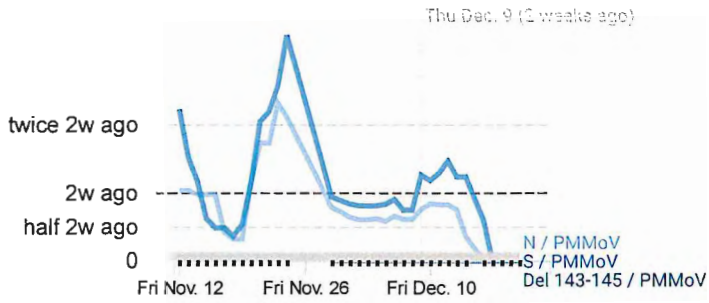
Sacramento



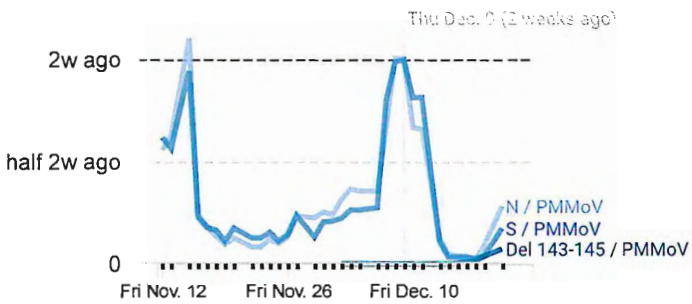
Oceanside



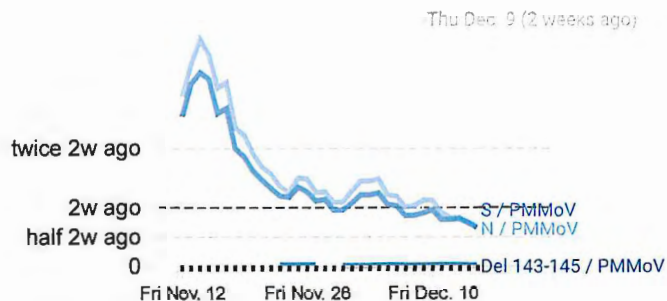
UC Davis



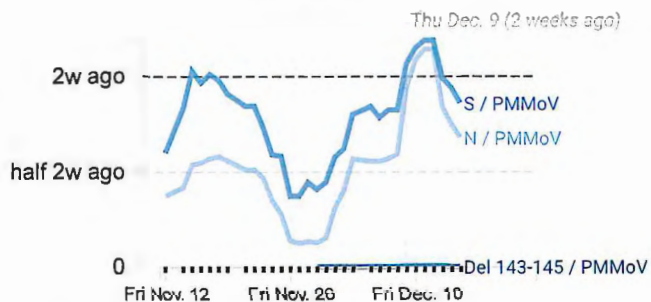
CODIGA



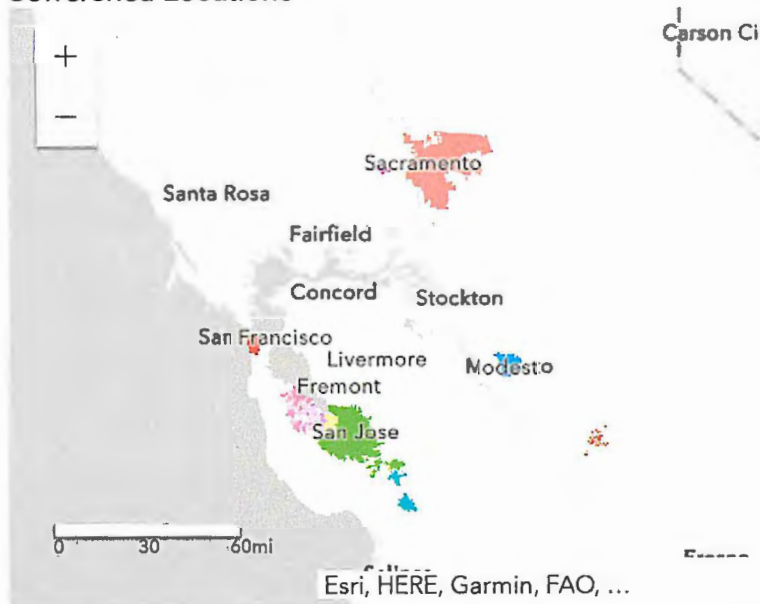
Merced



Modesto



Sewershed Locations



- The pink area near Sacramento is the Sacramento sewershed.
- The purple area near Sacramento is the Davis sewershed.
- The brown area near Sacramento is the UC Davis sewershed.
- The red area near San Francisco is the Oceanside sewershed.
- The pink area on the peninsula is Silicon Valley Clean Water sewershed in San Mateo County.
- The purple area on the peninsula is the Palo Alto sewershed.
- The yellow area is the Sunnyvale sewershed.
- The green area is San Jose sewershed.
- The blue area is the Gilroy sewershed.
- Not shown is the area of the Codiga sub-sewershed which is part of the Palo Alto sewershed.

Murphys Sanitary District

Policy Title: Monthly Billing Start Date for New Connections

Date Adopted: 01-13-2022

Ayes:

Absent:

Abstain:

After an approved new connection to the public sewer has been inspected, the monthly billing will begin when the county has given the final approval of the project. It is up to the property owner to bring a copy of either the County issued final notice or occupancy certificate within 30 days of its issuance.

The billing will commence on the date of the submitted document at the current monthly rate, pro-rated if appropriate.

If the District does not receive a copy of the County issued final notice or occupancy certificate within 30 days of its issuance, the customer will be back charged, at the current monthly rate, for the sewer service\connection, using the date of the Murphys Sanitary District inspection as the starting billing date.



AquaPyr Demonstration Report for Murphys Sanitary District

Background

Murphys Sanitary District, (MSD) provides sewer collection and treatment services to residential and commercial businesses within the MSD boundaries. The district covers an area of approximately 4 square miles and has a population of approximately 2,200 people.

The district maintains 12 miles of sewer collection lines. An average dry weather flow of 135,000 gallons per day of raw wastewater is treated to an advanced secondary level with a combination pond and filtration Wastewater Treatment Plant. Treated effluent is utilized for irrigation at the neighboring Hay Station Ranch vineyards.



View of the WWTP and Algae in Storage Pond

Secondary Effluent from WWTP is stored in a large pond and filtered to remove TSS and to improve the turbidity before it's chlorinated and supplied to the neighboring vineyard.

During summer months, the combination of longer daylight along with lack of rain causes algae to bloom in the pond, challenging the existing filtration system.

When the existing filters backwash, the waste generated is sent back to the same pond, further exacerbating the problem.



View of the existing Sand Filters

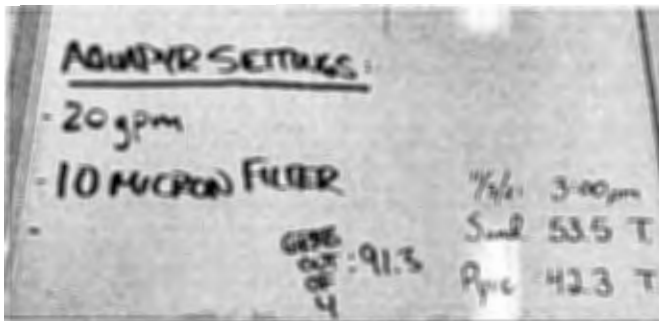
With the existing filters having reached the end of their design life, MSD staff began the process of evaluating the various technologies and contacted JBI Water and Wastewater, providers of quality, efficient process equipment, to learn about the various technologies available and were introduced to AquaPyr <https://aquapyr.com/>



AquaPyr is a provider of Ultra-Low Waste Filter (ULWF) with several unique attributes which could be deemed advantageous to MSD given its specific constraints. AquaPyr was subsequently contracted by MSD to demonstrate their AquaPyr ULWF technology using one of their AquaPyr Model 25 ULWF.

AquaPyr staff arrived on Wednesday November 3rd at 0800, met with the team at the MSD and with their input selected the optimum location for the installation of the demonstration pilot and with their help the demonstration filter was operational and filtering water by 1100.

The feed source was selected from the same manifold feeding raw water to the existing sand filters, allowing us to compare the performance of the existing sand filters vs. AquaPyr ULWF without any variations in water quality fed to the systems. We started the pilot with an initial feed rate of ≈ 20 GPM to the AquaPyr Model 25 Filter. At the end of our first day, the MSD staff obtained turbidity readings reflecting the following,



Reading from MSD staff end of first day

Turbidity of Raw water feed 91.3

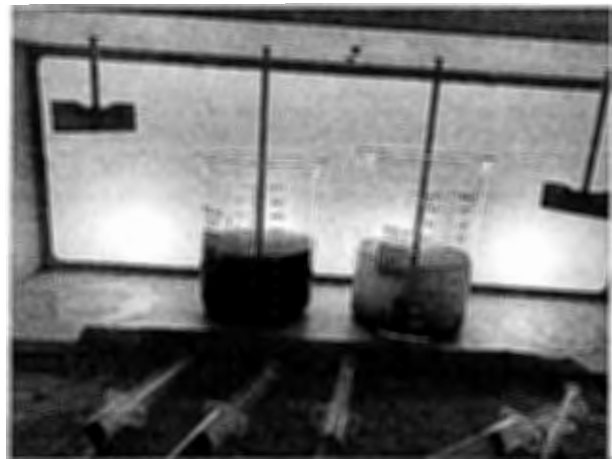
Effluent from Sand Filter 53.5

Effluent from AquaPyr Filter 42.3

20 GPM Flow through the Filter

10 Micron Nominal Media

At the end of day one, we left the filter in automatic mode and returned the next day to meet with representatives from Northstar Chemical and JBI Water and Wastewater where representatives from Northstar ran several jar tests to validate the performance of various Coagulants and Polymers for this application. As result of their testing, a purchase order was placed by MSD with Northstar.

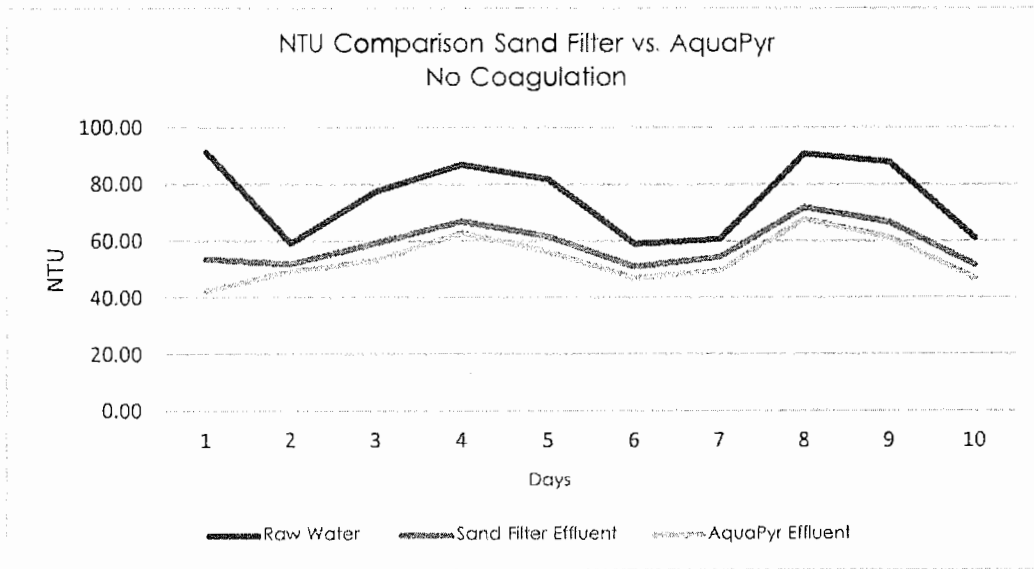


Number of coagulants were tested to validate performance



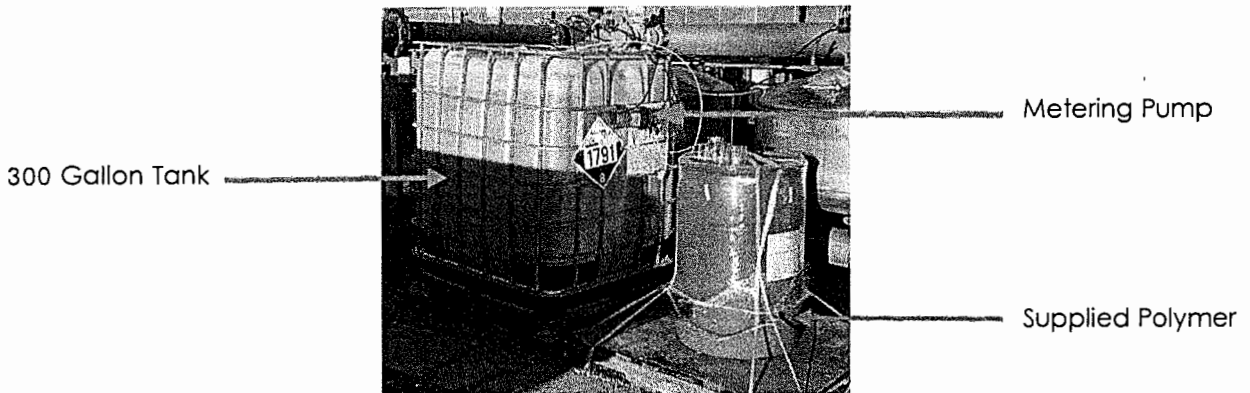
Prior to placing the order with Northstar, MSD were notified of delays due to global supply chain shortages and as such and to avoid further delays Northstar recommended an alternative to what was tested based on slight variation in formulation between the two coagulants.

The district staff continued to operate the filter to measure its performance against the existing sand filters without addition of any chemicals. Below reflects the result of their findings which represent further removal efficiency of 33% by AquaPyr when compared against Sand filters on site.



Upon the arrival of the recommended coagulant, staff from AquaPyr arrived on site on November 29th and began modifying the system to allow for addition of coagulant, mixing and subsequent feed of secondary treated wastewater to the filter.

A 330-gallon IBC chemical tote tank and peristaltic metering pump provided by MSD were used to inject and mix the coagulant within the tank with a sump pump installed inside the tank to aid in mixing. The 330-gallon IBC tank was elevated using a wooden pallet, allowing for gravity feed of the wastewater to the AquaPyr ULWF.



3



Several variables were noted by AquaPyr,

1. Coagulant as supplied was not an exact match to what was tested
2. Feed rate to the AquaPyr ULWF would slightly vary based on where the existing sand filters were in their one hour run cycle before backwash. Making the exact dosing of the coagulant somewhat challenging
3. Water in the pond had substantially lower turbidity and algae when compared to November 3rd



With the above variables noted, AquaPyr began mixing the coagulant with varying degree of success.

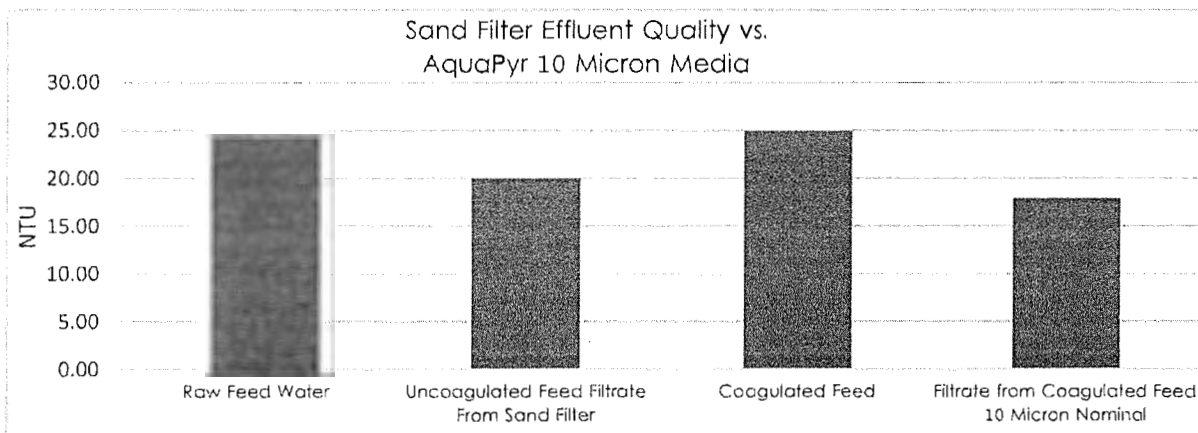
The coagulant would not form a consistent particle to allow the 10 Micron Nominal media to successfully capture the larger particles

An initial suggested feed rate of 40 ppm was cut down to 20 due to the improvements in turbidity

Various adjustments were made to feed rate to try to achieve a strong particle

The following tests were performed during the second visit,

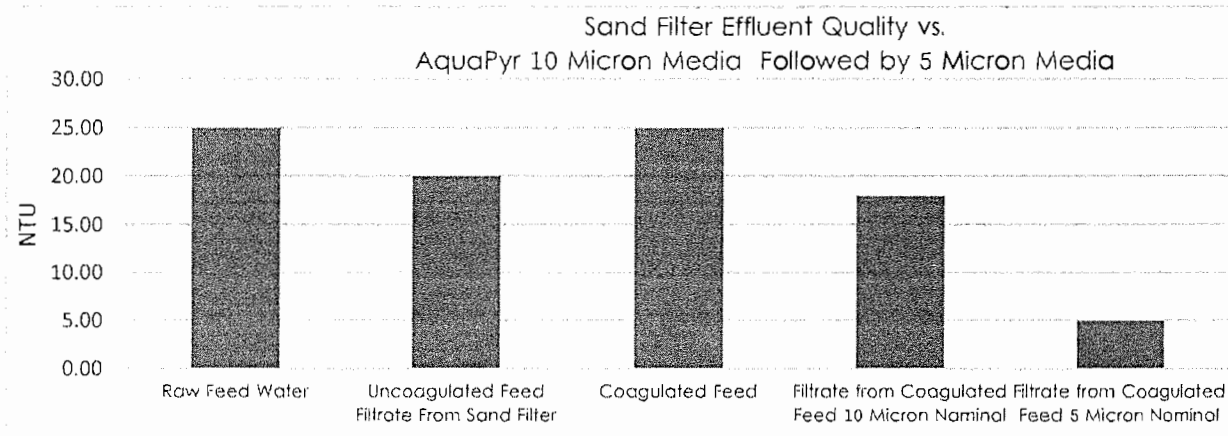
Turbidity of filtrate with chemical feed and 10 Micron Nominal Media alone showed that the addition of coagulation increases the turbidity within the mixing tank and that coagulants aid in the filtration of very fine, sub-10-Micron particles, highlighting the need for future work to home in on the exact chemistry to allow for an effective means of coagulation and separation.





Turbidity of filtrate with chemical feed, 10 Micron Nominal followed by 5 Micron Nominal proved we can eliminate much of the solids from the effluent once the coagulation chemistry is fine-tuned, improving the water quality to levels desired by MSD staff.

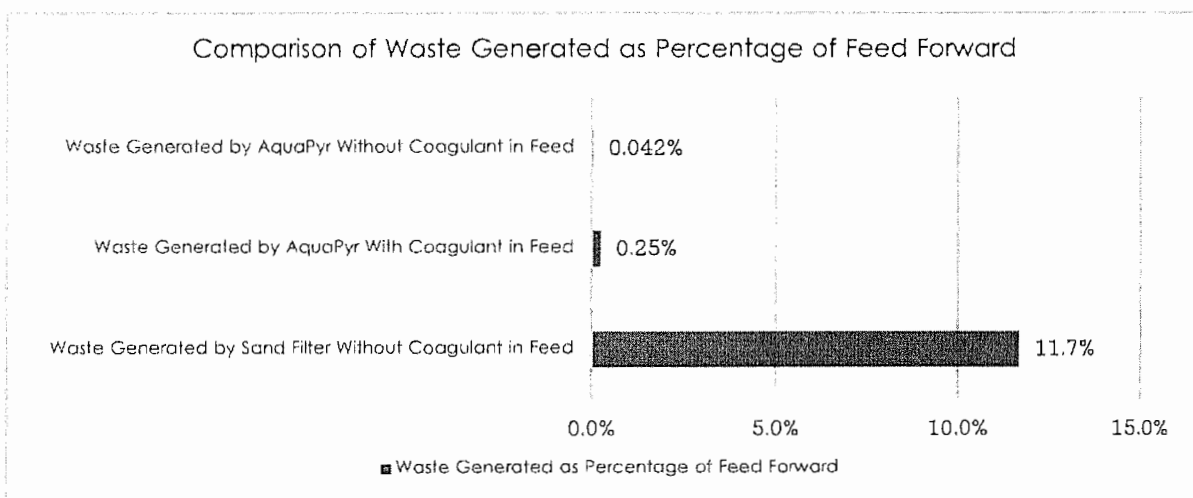
We also witnessed coagulant carryover in our filtrate which is yet another sign of the need for fine-tuning the chemical dosing and mixing.



Tests were conducted on the un-treated waste from AquaPyr ULWF further validating the need for Dewatering Polymer.

AquaPyr ULWF produces around 2 Quarts of Waste per cleaning event, a significant advantage, allowing for efficient dewatering of the waste and elimination solids & nutrient from being circulated back in the pond.

Waste generated from AquaPyr ULWF would dewater until media would blind off highlighting the need for chemical conditioning.





Staff from AquaPyr returned on 9 December to test the Polymer on the waste stream for the purpose of de-watering the waste generated from the filter and in order to help eliminate the waste from re-entering the pond after each cleaning event at MSD.

The following tests were performed on the waste stream using the polymer as provided. It should be noted that the Polymer did not work when the waste from the filter contained coagulants. Therefore, we stopped the coagulant feed to the filter, ran the filter without any coagulant in the feed stream and captured the waste without any coagulants for our testing.

Once we tested the waste without coagulant, the polymer started to work for dewatering, allowing us to conduct several tests with various media.

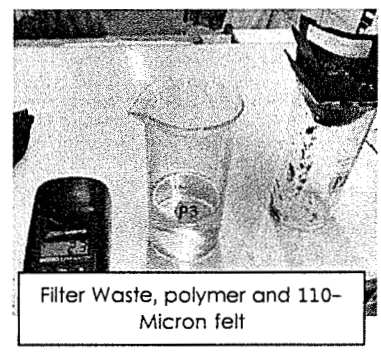
We tested the waste stream with 20-30 ppm of polymer in the feed and successfully dewatered the waste stream using dewatering belts, tiles, Non-Woven media with various pore sizes, and filtration media rated at 10 Microns all with success.



Filter Waste, polymer and 5-Micron felt



Filter Waste, polymer and 10-Micron felt



Filter Waste, polymer and 110-Micron felt



Filter Waste, plus polymer and 200-Micron belt material

Once the above was demonstrated and with the help of staff at MSD the demonstration pilot was decommissioned and removed from the plant with the various items having been returned to MSD and to their original setting and conditions.



In conclusion, the following was demonstrated to MSD staff as result of this study,

1. AquaPyr outperformed the existing sand filters during the peak season where algae levels were at their highest
2. AquaPyr Filters are easy to understand, maintain and operate
3. AquaPyr Self Cleans without reversing filtrate minimizing waste stream to 2 quarts per cleaning event
4. Effluent water quality can be drastically enhanced by the addition of coagulants
5. Minimal waste generated from the filters can be successfully de-watered with addition of Polymers using a variety of options such as Non-Woven bags, belt material used for dewatering and dewatering tiles to allow for near 100% removal of the algae and solids from re-entering the pond
6. Improved Turbidity reduces the chlorine demand, lowering the cost of disinfection
7. Effluent water turbidity can be improved to levels desired to allow for the use of UV Disinfections vs. Liquid Chlorine, eliminating the need for the purchase, handling, and use of Sodium Hypochlorite.

We would like to send our sincere appreciation to staff at MSD, JBI Water and Northstar Chemicals for their participation and involvement with the demonstration pilot.

Ali Giti

Ali Giti Type text here

AquaPyr

Murphys Sanitary District

Policy Title: **Investment policy**

Date Adopted: May 10, 2018

Revisions: 06/11/2020; 2/14/19

\$300,000 of reserve funds will be deposited in three separate Certificate of Deposit accounts with UBS Financial. The CD's will be set up so one CD matures every year. During times when CD's are not producing good rate of return, at maturity, CD's can be moved to the LAIF reserves account and following the Reserve Fund Allocation as per policy: General Funds & Reserve Policy.

CD \$100,000.00

CD \$100,000.00

CD \$100,000.00

TOTAL \$ 300,000.00

- At one month prior to maturity, the Board will review and determine the terms for reinvesting the deposit.
- Review for policy changes every 6 mos. and at each CD maturity
- Interest disbursements will be transferred to the LAIF reserves account
- Allocating expenses from the invested funds requires a unanimous vote of the Board with Resolution