



**BOARD MEETING AGENDA**  
**Monday, September 10, 2018**  
**Regular Meeting - 7:00 P.M.**

**Union Sanitary District**  
**Administration Building**  
**5072 Benson Road**  
**Union City, CA 94587**

**Directors**  
Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**Officers**  
Paul R. Eldredge  
*General Manager/  
District Engineer*

Karen W. Murphy  
*Attorney*

1. Call to Order.

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2. Pledge of Allegiance.

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3. Roll Call.

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- Motion 4. Approve Minutes of the Special Meeting of August 21, 2018.

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- Motion 5. Approve Minutes of the Regular Meeting of August 27, 2018.

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- Motion 6. Approve Minutes of the Special Meeting of August 30, 2018.

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- Information 7. July 2018 Monthly Operations Report *(to be reviewed by the Budget & Finance and Legal/Community Affairs Committees)*.

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8. Written Communications.

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9. Oral Communications.  
*The public may provide oral comments at regular and special Board meetings; however, whenever possible, written statements are preferred (to be received at the Union Sanitary District office at least one working day prior to the meeting). This portion of the agenda is where a member of the public may address and ask questions of the Board relating to any matter within the Board's jurisdiction that is not on the agenda. If the subject relates to an agenda item, the speaker should address the Board at the time the item is considered. Oral comments are limited to three minutes per individuals, with a maximum of 30 minutes per subject. Speaker's cards will be available in the Boardroom and are to be completed prior to discussion.*

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- Motion 10. Consider a Resolution to Accept a Sanitary Sewer Easement for Tract 8399 – Mission Falls, Located on Mission Falls Court at Mission Falls Lane in the City of Fremont *(to be reviewed by the Legal/Community Affairs Committee)*.

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- Motion 11. Consider Recommendation on the East Bay Dischargers Authority (EBDA) JPA Negotiations from the Ad Hoc Committee.

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- Motion 12. Designate and Appoint Two Board Representatives to Ad Hoc Subcommittee on General Manager Contract Negotiations.

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- Information 13. Annual Report to Union City for Fiscal Year 2017 *(to be reviewed by the Legislative Committee)*.

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- Information 14. Report on the East Bay Dischargers Authority (EBDA) Meeting of August 16, 2018.
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- Information 15. Check Register.
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- Information 16. Committee Meeting Reports. *(No Board action is taken at Committee meetings):*
- a. Budget & Finance Committee – Wednesday, September 5, 2018, at 10:00 a.m.
    - Director Kite and Director Toy
  - b. Legal/Community Affairs Committee – Friday, September 7, 2018, at 10:30 a.m.
    - Director Fernandez and Director Handley
  - c. Legislative Committee – Friday, September 7, 2018, at 11:00 a.m.
    - Director Fernandez and Director Lathi
  - d. Engineering and Information Technology Committee – will not meet.
  - e. Audit Committee – will not meet.
  - f. Personnel Committee – will not meet.
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- Information 17. General Manager’s Report. *(Information on recent issues of interest to the Board).*
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18. Other Business:
- a. Comments and questions. *Directors can share information relating to District business and are welcome to request information from staff.*
  - b. Scheduling matters for future consideration.
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19. Adjournment – The Board will adjourn to the next Regular Meeting in the Boardroom on Monday, September 24, 2018, at 7:00 p.m.
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The Public may provide oral comments at regular and special Board meetings; however, whenever possible, written statements are preferred (to be received at the Union Sanitary District at least one working day prior to the meeting).  
 If the subject relates to an agenda item, the speaker should address the Board at the time the item is considered. If the subject is within the Board’s jurisdiction but not on the agenda, the speaker will be heard at the time “Oral Communications” is calendared. Oral comments are limited to three minutes per individual, with a maximum of 30 minutes per subject. Speaker’s cards will be available in the Boardroom and are to be completed prior to discussion of the agenda item.

The facilities at the District Offices are wheelchair accessible. Any attendee requiring special accommodations at the meeting should contact the General Manager’s office at (510) 477-7503 at least 24 hours in advance of the meeting. THE PUBLIC IS INVITED TO ATTEND



**BUDGET & FINANCE COMMITTEE MEETING**  
Committee Members: Director Kite and Director Toy

**Directors**  
Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**AGENDA**  
**Wednesday, September 5, 2018**  
**10:00 a.m.**

**Alvarado Conference Room**  
**5072 Benson Road**  
**Union City, CA 94587**

**Officers**  
Paul R. Eldredge  
*General Manager/  
District Engineer*

Karen W. Murphy  
*Attorney*

**THIS MEETING WILL BE TELECONFERENCED WITH DIRECTOR KITE FROM THE EXTERIOR OF 35040 NEWARK BOULEVARD, NEWARK, CALIFORNIA. THE TELECONFERENCE LOCATION SHALL BE ACCESSIBLE TO THE PUBLIC.**

1. Call to Order  
\_\_\_\_\_
2. Roll Call  
\_\_\_\_\_
3. Public Comment  
\_\_\_\_\_
4. Items to be reviewed for the Regular Board meeting of September 10, 2018:
  - July 2018 Monthly Operations Report – Financial Reports\_\_\_\_\_
5. Adjournment  
\_\_\_\_\_

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

The Public may provide oral comments at regular and special Board meetings; however, whenever possible, written statements are preferred (to be received at the Union Sanitary District at least one working day prior to the meeting).

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THE PUBLIC IS INVITED TO ATTEND



**Directors**

Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**LEGAL/COMMUNITY AFFAIRS COMMITTEE MEETING**

Committee Members: Director Fernandez and Director Handley

**Officers**

Paul R. Eldredge  
*General Manager/  
District Engineer*

**AGENDA**

**Friday, September 7, 2018**

**10:30 a.m.**

Karen W. Murphy  
*Attorney*

**Alvarado Conference Room**

**5072 Benson Road**

**Union City, CA 94587**

1. Call to Order  
\_\_\_\_\_
2. Roll Call  
\_\_\_\_\_
3. Public Comment  
\_\_\_\_\_
4. Items to be reviewed for the Regular Board meeting of September 10, 2018:
  - July 2018 Monthly Operations Report – Odor and Work Group Reports
  - Consider a Resolution to Accept a Sanitary Sewer Easement for Tract 8399 – Mission Falls, Located on Mission Falls Court at Mission Falls Lane in the City of Fremont\_\_\_\_\_
5. Adjournment  
\_\_\_\_\_

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**THE PUBLIC IS INVITED TO ATTEND**



**LEGISLATIVE COMMITTEE MEETING**  
Committee Members: Director Fernandez and Director Lathi

**Directors**  
Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**AGENDA**  
**Friday, September 7, 2018**  
**11:00 a.m.**

**Alvarado Conference Room**  
**5072 Benson Road**  
**Union City, CA 94587**

**Officers**  
Paul R. Eldredge  
*General Manager/  
District Engineer*

Karen W. Murphy  
*Attorney*

1. Call to Order

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2. Roll Call

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3. Public Comment

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4. Items to be reviewed for the Regular Board meeting of September 10, 2018:

- Annual Report to Union City for Fiscal Year 2017

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5. Adjournment

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Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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THE PUBLIC IS INVITED TO ATTEND

**MINUTES OF THE SPECIAL MEETING OF THE  
BOARD OF DIRECTORS OF  
UNION SANITARY DISTRICT  
August 21, 2018**

**CALL TO ORDER**

President Lathi called the special meeting to order at 6:00 p.m.

**ROLL CALL**

PRESENT: Anjali Lathi, President  
Manny Fernandez, Vice President  
Jennifer Toy, Secretary  
Tom Handley, Director  
Pat Kite, Director

STAFF: Paul Eldredge, General Manager/District Engineer

**PUBLIC COMMENT**

There was no public comment.

**BOARD WORKSHOP**

General Manager Eldredge provided an update to the Board regarding the state of the District.

**ADJOURNMENT:**

The special meeting was adjourned at approximately 8:00 p.m. to the next Regular Board Meeting in the Boardroom on Monday, August 27, 2018, at 7:00 p.m.

SUBMITTED:

ATTEST:

\_\_\_\_\_  
REGINA McEVOY  
BOARD CLERK

\_\_\_\_\_  
JENNIFER TOY  
SECRETARY

APPROVED:

\_\_\_\_\_  
ANJALI LATHI  
PRESIDENT

Adopted this 10<sup>th</sup> day of September, 2018

**MINUTES OF THE MEETING OF THE  
BOARD OF DIRECTORS OF  
UNION SANITARY DISTRICT  
August 27, 2018**

**CALL TO ORDER**

President Lathi called the meeting to order at 7:00 p.m.

**PLEDGE OF ALLEGIANCE**

**ROLL CALL**

PRESENT: Anjali Lathi, President  
Manny Fernandez, Vice President  
Jennifer Toy, Secretary  
Tom Handley, Director  
Pat Kite, Director

STAFF: Paul Eldredge, General Manager  
Karen Murphy, District Counsel  
Armando Lopez, Treatment and Disposal Services Manager  
James Schofield, Collection Services Manager  
Laurie Brenner, Business Services Coach  
Raymond Chau, Capital Improvement Projects Coach  
Michael Dunning, Environmental Compliance Coach  
Regina McEvoy, Executive Assistant to the General Manager/Board Clerk

VISITOR: Roelle Balan, Tri-City Voice Newspaper

**APPROVE MINUTES OF THE REGULAR MEETING OF AUGUST 13, 2018**

It was moved by Director Kite, seconded by Director Handley, to Approve the Minutes of the Regular Meeting of August 13, 2018. Motion carried unanimously.

**WRITTEN COMMUNICATIONS**

There were no written communications.

**ORAL COMMUNICATIONS**

There were no oral communications.

**AUTHORIZE THE GENERAL MANAGER TO EXECUTE TASK ORDER NO. 2 WITH CAROLLO ENGINEERS, INC. FOR THE ALVARADO INFLUENT PUMP STATION IMPROVEMENTS PROJECT**

This item was reviewed by the Engineering and Information Technology Committee. Capital Improvement Projects Coach Chau stated the Alvarado Influent Pump Station (AIPS), constructed in 1985, is located within the Plant and transports wastewater from the Alvarado drainage basin to the Headworks. The 2018 Plant Asset Condition Assessment Update Study recommended replacement of the head and diversion gates along with their hydraulic power units, the head and diversion box access hatch doors, the wet well channel slide gates, and the wet and dry well fans. In addition, staff identified other necessary AIPS improvements. Staff executed Task Order No. 1 with Carollo for predesign services to evaluate pump types, manufacturers, and configurations. Task Order No. 2 will cover final design services for a not-to-exceed fee of \$478,499. Staff anticipates Carollo will complete design of the Project by Spring 2019 and construction is estimated to begin by Summer 2019. Staff recommended the Board authorize the General Manager to execute Task Order No. 2 with Carollo Engineers, Inc. for the AIPS Improvements Project.

It was moved by Director Handley, seconded by Director Kite, to Authorize the General Manager to Execute Task Order No. 2 with Carollo Engineers, Inc. in the Amount of \$478,499 for the Alvarado Influent Pump Station Improvements Project. Motion carried unanimously.

**CONSIDER A SPONSORSHIP AND PARTICIPATION IN THE ANNUAL “SCIENCE IN THE PARK” EVENT TO BE HELD OCTOBER 6, 2018**

This item was reviewed by the Legal/Community Affairs Committee. Environmental Compliance Coach Dunning stated Science in the Park attracts over 5,000 attendees and features a variety of science related presentations and activities. Science in the Park is presented by Alameda County Supervisor Richard Valle’s office and benefits the Hayward Area Recreation and Park District Children’s Programs, the New Haven Schools Foundation, the Fremont Education Foundation, the Newark Educational Foundation, and the Hayward Education Foundation. Staff recommended the Board consider sponsorship and participation in the “Science in the Park” event to be held October 6, 2018.

It was moved by Vice President Fernandez, seconded by Director Kite, to sponsor at the \$1,000 level and participate in the event. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy  
NOES: Handley  
ABSENT: None  
ABSTAIN: None

**PORTFOLIO MANAGEMENT SERVICES UPDATE**

This item was reviewed by the Budget & Finance Committee. Business Services Coach Brenner stated the District’s investment portfolio consists of a variety of holdings, and the District has not purchased any investments since June of 2017 when the Chief Financial

Officer resigned. Staff believe it is prudent for the District to explore an active management strategy that typically involves a professional portfolio manager. Staff recently issued a request for proposals (RFP) to obtain information on portfolio management services. An overview of the RFP and responses received was included in the Board meeting packet. Staff recommended the Board provide direction regarding the District's Portfolio Management Services Request for Proposal process.

The Board directed staff to proceed with hiring a portfolio manager.

### **INFORMATION ITEMS:**

#### **Board Expenses for the 4<sup>th</sup> Quarter of Fiscal Year 2018**

This item was reviewed by the Budget & Finance Committee. General Manager Eldredge stated a summary of Board expenses for the 4<sup>th</sup> quarter of fiscal year 2018 was included in the Board meeting packet.

#### **Check Register**

Staff answered Board questions regarding the Check Register.

### **COMMITTEE MEETING REPORTS:**

The Budget & Finance, Engineering and Information Technology, and Legal/Community Affairs Committees met.

#### **GENERAL MANAGER'S REPORT:**

General Manager Eldredge reported the following:

- District offices will be closed September 3, 2018, in observance of Labor Day.
- General Manager Eldredge will be out of the office September 4-17, 2018.
- District Counsel Murphy will facilitate the September 10, 2018, Board meeting.
- John Bourgeois, Executive Manager for the South Bay Salt Marsh Restoration, has announced he will be leaving the organization.

#### **OTHER BUSINESS:**

There was no other business.

#### **ADJOURNMENT:**

The meeting was adjourned at 7:22 p.m. to a Special Meeting in the Alvarado Conference Room on Thursday, August 30, 2018, at 6:00 p.m.

SUBMITTED:

ATTEST:

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REGINA McEVOY  
BOARD CLERK

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JENNIFER TOY  
SECRETARY

APPROVED:

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ANJALI LATHI  
PRESIDENT

Adopted this 10<sup>th</sup> day of September 2018

**MINUTES OF THE SPECIAL MEETING OF THE  
BOARD OF DIRECTORS OF  
UNION SANITARY DISTRICT  
August 30, 2018**

**CALL TO ORDER**

President Lathi called the special meeting to order at 6:00 p.m.

**ROLL CALL**

PRESENT: Anjali Lathi, President  
Manny Fernandez, Vice President  
Jennifer Toy, Secretary  
Tom Handley, Director  
Pat Kite, Director

STAFF: Paul Eldredge, General Manager/District Engineer  
Michelle Powell, Communications and Intergovernmental Relations Coordinator  
Regina McEvoy, Executive Assistant to the General Manager/Board Clerk

VISITORS: Gimena Pena-Malcampo, Pier 2 Marketing  
Paul Hamel, Pier 2 Marketing

**PUBLIC COMMENT**

There was no public comment.

**BOARD WORKSHOP**

Gimena Pena-Malcampo, Co-Founder & CEO of Pier 2 Marketing, provided an update regarding the District's potential rebranding strategy.

**ADJOURNMENT:**

The special meeting was adjourned at approximately 8:00 p.m. to the next Regular Board Meeting in the Boardroom on Monday, September 10, 2018, at 7:00 p.m.

SUBMITTED:

ATTEST:

\_\_\_\_\_  
REGINA McEVOY  
BOARD CLERK

\_\_\_\_\_  
JENNIFER TOY  
SECRETARY

APPROVED:

\_\_\_\_\_  
ANJALI LATHI  
PRESIDENT

Adopted this 10<sup>th</sup> day of September, 2018



**Directors**  
Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**Officers**  
Paul R. Eldredge  
*General Manager/  
District Engineer*

Karen W. Murphy  
*Attorney*

**DATE:** September 4, 2018

**MEMO TO:** Board of Directors - Union Sanitary District

**FROM:** Paul R. Eldredge, General Manager/District Engineer

**SUBJECT:** Agenda Item No. 7 – Regular Meeting of September 10, 2018  
Information Item: **Monthly Operations Report for July 2018**

### **Background**

Attached are Monthly Operations Reports for July 2018. Staff is available to answer questions regarding information contained in the report.

### **Work Group Managers**

General Manager/Administration	Paul Eldredge	GM
Collection Services	James Schofield	CS
Technical Support	Sami Ghossain	TS
Treatment and Disposal Services	Armando Lopez	T&D
Fabrication, Maintenance, and Construction	Robert Simonich	FMC

### **ODOR COMPLAINTS:**

During the month of July 2018, there were two odor complaints received by the Collection System. Details regarding the odor complaints were included in the July 2018 Odor Report.

### **SAFETY:**

- We had the lost time injury in February and the employee has been back to work with restrictions.
- Our insurance pool, CSRMA, is making a change to our Medical Provider Network. The change does not impact our current employees or retirees with workers compensation claims.
- We received a comment on our Safety Blog about perceived issues with the admin building ventilation system. The system is operating as designed and provides filtration recommended for office buildings.

- We completed our biennial safety survey. 109 responses were received. We will be analyzing the information.
- We selected a new Hazardous Material contractor to help us comply with growing regulations.

## **STAFFING & PERSONNEL:**

### **Completed Recruitments Resulting in Promotions:**

- Coach, Collection Services – Jose Rodrigues promoted effective September 3, 2018

### **Recruitments Opened:**

- Collection Services Planner/Scheduler (replacement for Jose Rodrigues promotion)
- Collection Services Mechanic (replacement for Jose Ledesma retirement)

### **Continuing Recruitments:**

- Assistant/Associate Engineer (replacement for Chris Elliott's resignation)

### **Separations:**

- Dave Drake, Plant Operations Trainer – retirement.
- Jose Ledesma, Mechanic II – retirement.

### **Other Accomplishments:**

- Contract negotiations on-going.
- Human Resources Manager attended Association of Workplace Investigators Institute training.
- Human Resources Staff attended training on recent Supreme Court Janus decision.

### **G.M. ACTIVITIES:** For the month of July, the General Manager was involved in the following:

- Attended the East Bay Dischargers Authority (EBDA) Managers Advisory Committee meeting
- Attended the East Bay Dischargers Authority Meeting
- Attended a Board Closed Session
- Attended CPR/First Aid/AED Staff Training
- Attended interviews for OPEB and Actuary Services RFP

**Attachments:** Odor Report and Map  
 Hours Worked and Leave Time by Work Group  
 Business Services  
 Technical Services  
 Collection Services  
 Fabrication, Maintenance, and Construction  
 Treatment and Disposal Services



## ODOR REPORT July 2018

During the recording period from July 01, 2018 through July 31, 2018, there were two odor related service requests received by the District.

### **City: Newark**

#### **1. Complaint Details:**

*Date:* 7/3/2018

*Location:* SALISBURY DR

*Wind (from):* West

*Temperature:* 75 Degrees F

*Time:* 12:35 pm

*Reported By:* Leroy Higgins

*Wind Speed:* 11 mph

*Weather:* Sunny

#### **Response and Follow-up:**

We inspected adjacent manholes and storm drain inlets in the surrounding area. We detected no odors at this time. We told them to call us back should an odor return.

### **City: Union City**

#### **2. Complaint Details:**

*Date:* 7/12/2018

*Location:* A ST

*Wind (from):* North West

*Temperature:* 80 Degrees F

*Time:* 3:55 pm

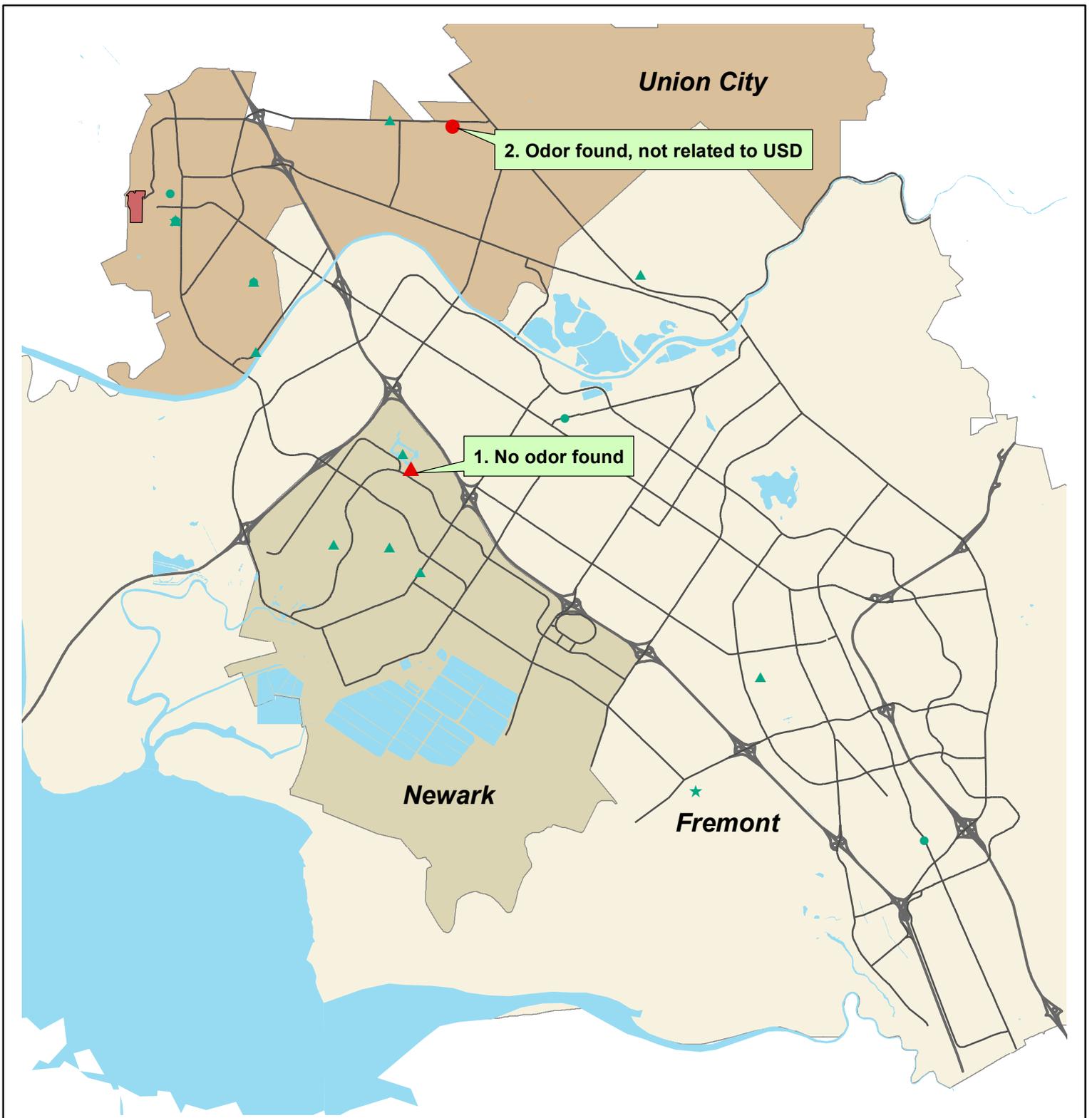
*Reported By:* Gerald Mendez

*Wind Speed:* 14 mph

*Weather:* Sunny with Clouds

#### **Response and Follow-up:**

We inspected the manhole, storm drain inlets and checked the nearby creek. There were trash cans put out in the apartment units. There was a musty odor coming from the "under house vents" which could be a plumbing leak under the apartment. We relayed our findings to Mr. Mendez. Our USD lines were flowing fine and free of any odors.



**Legend**

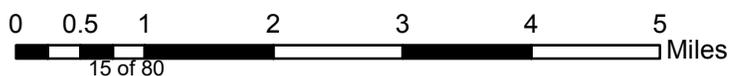
**Odor Complaints: July 2018**

- ★ Odor found, USD resolved (0)
- Odor found, not related to USD (1)
- ▲ No odor found (1)

**Odor Complaints: Aug. 2017 to Jun. 2018**

- ★ Odor found, USD resolved (2)
- Odor found, not related to USD (5)
- ▲ No odor found (15)

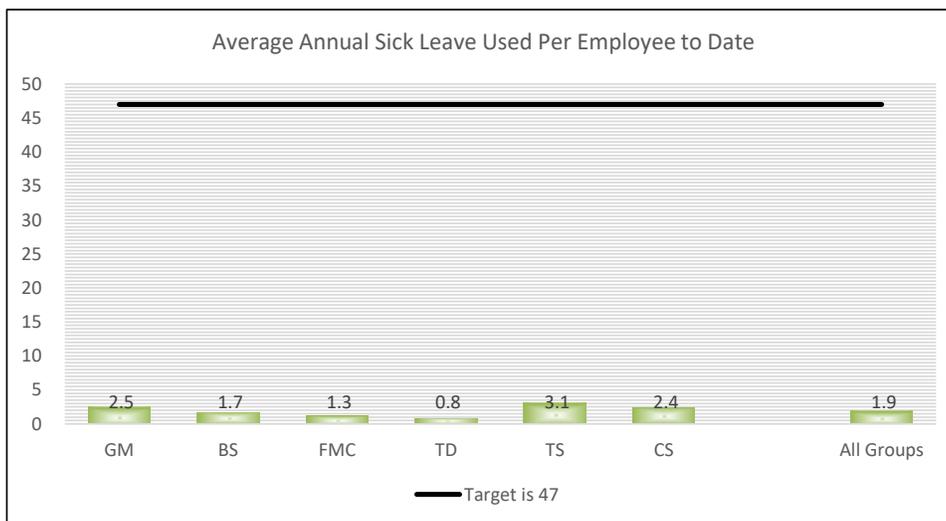
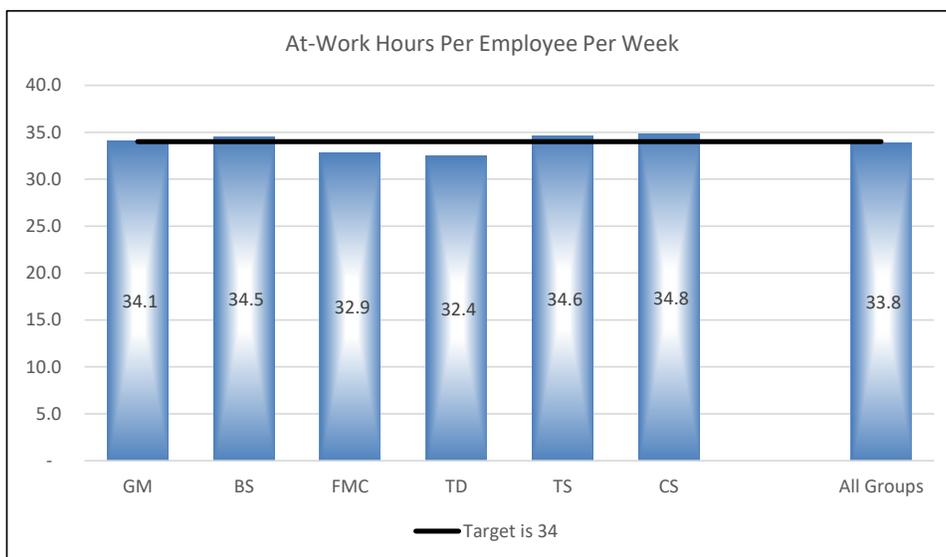
**Location of Odor Reports  
August 2017 to July 2018**



### HOURS WORKED AND LEAVE TIME BY WORK GROUP

June 28, 2018 through July 25, 2018

Weeks to Date: 4 out of 52 (7.69%)



#### NOTES

- (1) Regular hours does not include hours worked by part-time or temporary employees.
- (2) Overtime hours includes call outs.
- (3) Discretionary Leave includes Vacation, HEC, Holiday, MAL, FLEX, Funeral, Jury Duty, Military, OT Banked Use, Paid Admin., SLIP, VRIP, Holiday Banked Use leaves.
- (4) Sick Leave includes sick and catastrophic sick leaves as well as protected time off, of which the District has no discretion.

An employee using 15 vacation, 11 holiday, 2 HEC, and 5 sick days will work an average of 34.9 hours per week over the course of a year; with 20 vacation days, 34.2 hours per week.

**HOURS WORKED AND LEAVE TIME BY WORK GROUP**

**June 28, 2018 through July 25, 2018**

**Weeks to Date: 4 out of 52 (7.69%)**

Group	Average Number of Employees	AT-WORK HOURS		At-Work Hours Per Employee Per Week	LEAVE HOURS				Average Annual Sick Leave Used Per Employee To Date	FY17		
		Regular (1)	Overtime (2)		Discretionary (3)	Short Term Disability	Workers Comp	Sick (4)		Average Number of Employees	At-Work Hours Per Week Per Employee	Annual Sick Leave Used
GM	2	257.00	5.75	34.1	58.00	-	-	5.00	2.5	2	35.7	34.6
BS	16	2,117.00	10.75	34.5	416.25	-	-	26.75	1.7	21	34.2	33.5
FMC	28	3,474.25	74.50	32.9	958.50	-	12.25	35.00	1.3	23	34.2	48.4
TD	27	3,355.75	22.33	32.4	894.10	-	-	22.00	0.8	27	34.7	39.1
TS	32	4,257.62	11.33	34.6	763.88	-	-	98.50	3.1	32	34.9	47.3
CS	31	4,035.50	122.75	34.8	849.00	-	-	75.50	2.4	31	34.1	77.6
<b>All Groups</b>	<b>136</b>	<b>17,497.12</b>	<b>247.41</b>	<b>33.8</b>	<b>3,939.73</b>	<b>-</b>	<b>12.25</b>	<b>262.75</b>	<b>1.9</b>	<b>136</b>	<b>35.1</b>	<b>44.5</b>

**SICK LEAVE INCENTIVE PROGRAM TARGETS**

**≥34**

**≤47**

The Sick Leave Incentive Program target goals are 47 or less hours of sick leave per employee annually, and 34 or more hours of at-work time per week per employee.

**NOTES**

(1) Regular hours does not include hours worked by part-time or temporary employees.

(2) Overtime hours includes call outs.

(3) Discretionary Leave includes Vacation, HEC, Holiday, MAL, FLEX, Funeral, Jury Duty, Military, OT Banked Use, Paid Admin., SLIP, VRIP, Holiday Banked Use leaves.

(4) Sick Leave includes sick and catastrophic sick leaves, as well as protected time off, of which the District has no discretion.

An employee using 15 vacation, 11 holiday, 2 HEC, and 5 sick days will work an average of 34.9 hours per week over the course of a year; with 20 vacation days, 34.2 hours per week.

**BUDGET AND FINANCE REPORT**

FY 2019

**Year-to-date as of 7/31/18**

8.33% of year elapsed

**Revenues**

	Budget	Actual	% of Budget Rec'd	Unaudited Last Year Actuals 6/30/18
Capacity Fees	\$ 16,211,521	\$ 1,863,487	11%	\$ 23,623,947
Sewer Service Charges	57,016,142	1,705	0%	51,598,629
Operating (Work Groups)	1,326,550	183,850	14%	1,399,533
Interest	650,000	212,135	33%	1,675,655
Misc. (LAVWMA, Admin Fines, Forfeited Deposits)	250,000	-	0%	118,848
<b>Subtotal Revenues</b>	<b>\$ 75,454,213</b>	<b>\$ 2,261,177</b>	<b>3%</b>	<b>\$ 78,416,612</b>
SRF Loan Proceeds	-	-		455,642
<b>Total Revenues + SRF Proceeds</b>	<b>\$ 75,454,213</b>	<b>\$ 2,261,177</b>	<b>3%</b>	<b>\$ 78,872,254</b>

**Expenses**

	Budget	Actual	% of Budget Used	Last Year Actuals
Capital Improvement Program:				
Capacity Proj.	\$ 3,150,000	\$ (33,985)	-1%	\$ 2,075,899
Renewal & Repl. Proj.	6,142,500	(6,822)	0%	4,795,992
Operating	39,162,656	2,429,725	6%	33,803,950
Special Projects	1,410,000	-	0%	861,694
Retiree Medical (ADC)	626,089	-	0%	708,015
Vehicle & Equipment	660,201	506,967	77%	552,020
Information Systems	712,300	27,418	4%	321,769
Plant & Pump Stat. R&R	500,000	-	0%	219,622
Emerg. Fund	-	-	0%	-
Pretreatment Fund	7,000	-	0%	2,076
Cty Fee for SSC Admin.	107,000	-	0%	107,581
Debt Servicing:				
SRF Loans	3,902,080	1,319,228	34%	4,254,481
<b>Total Expenses</b>	<b>\$ 56,379,826</b>	<b>\$ 4,242,531</b>	<b>8%</b>	<b>\$ 47,703,098</b>
<b>Total Revenue &amp; Proceeds less Expenses</b>	<b>\$ 19,074,387</b>	<b>\$ (1,981,354)</b>		<b>31,169,156</b>

**Operating (Work Group) Expenses**

	Budget	Actual	% of Budget Used	Unaudited Last Year Actuals
Board of Directors	\$ 179,111	\$ 10,878	6%	\$ 128,924
General Manager/Admin.	1,043,506	58,031	6%	703,663
Business Services	3,762,036	232,690	6%	4,313,340
Collection Services	6,888,191	475,129	7%	6,292,903
Technical Services	6,347,451	465,657	7%	5,645,524
Treatment & Disposal Services	12,025,839	536,820	4%	10,299,467
Fabrication, Maint. & Construction	8,264,514	521,112	6%	5,953,854
Non-Departmental	652,008	129,408	20%	466,275
<b>Total</b>	<b>\$ 39,162,656</b>	<b>\$ 2,429,725</b>	<b>6%</b>	<b>\$ 33,803,950</b>

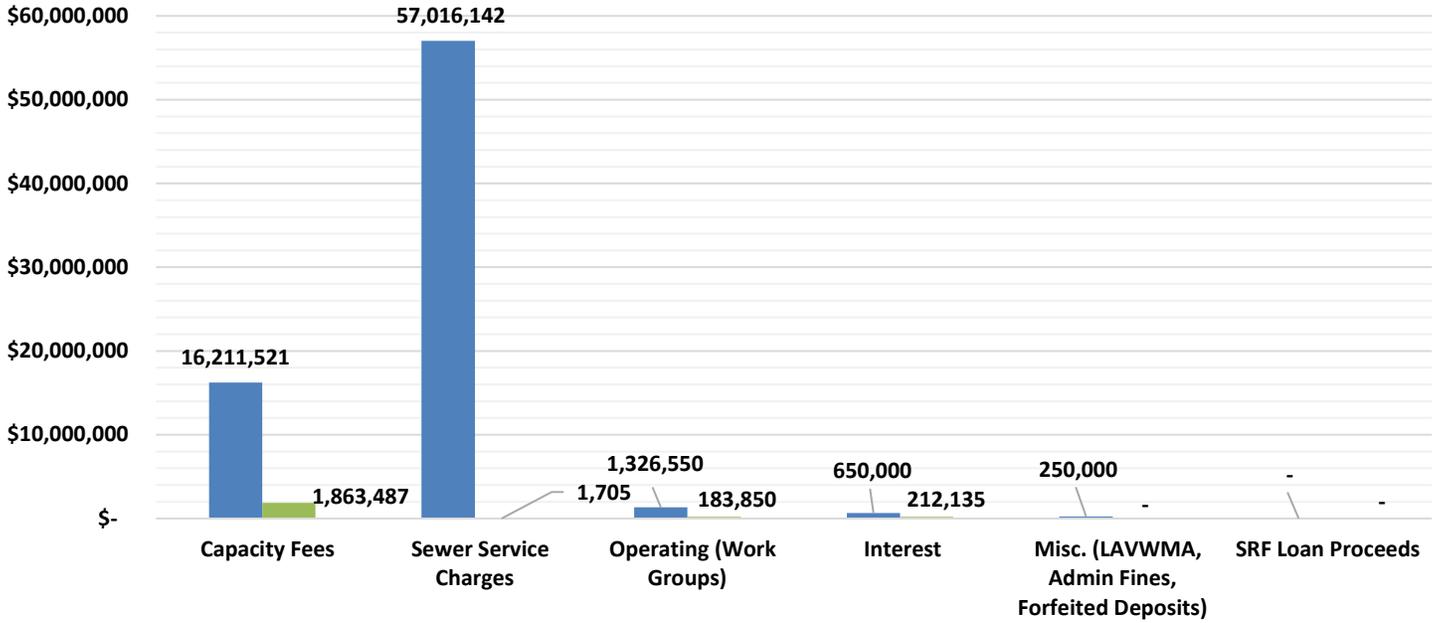
**Operating (Work Group) Expenses by Type**

	Budget	Actual	% of Budget Used	Last Year Actuals
Personnel (incl D&E)	\$ 26,614,085	\$ 1,973,824	7%	\$ 23,623,183
Repairs & Maintenance	2,256,450	119,481	5%	2,102,059
Supplies & Matls (chemicals, small tools)	3,182,740	104,950	3%	2,338,977
Outside Services (utilities, biosolids, legal)	6,764,691	231,470	3%	5,591,884
Fixed Assets	344,690	-	0%	147,848
<b>Total</b>	<b>\$ 39,162,656</b>	<b>\$ 2,429,725</b>	<b>6%</b>	<b>\$ 33,803,950</b>

**REVENUES AND EXPENSES REPORT**  
as of 7/31/18

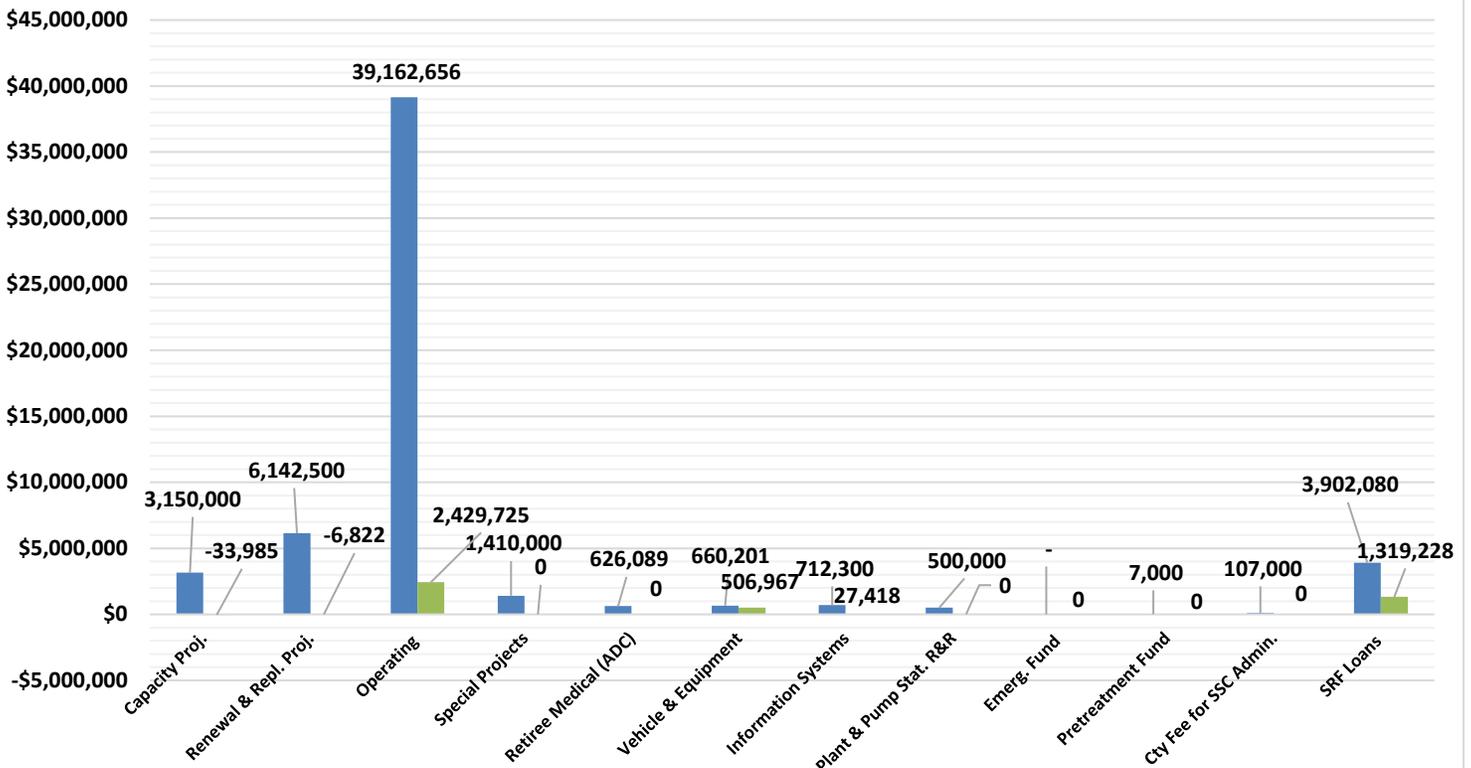
## Total Revenues

■ Budget ■ Actual



## Total Expenses

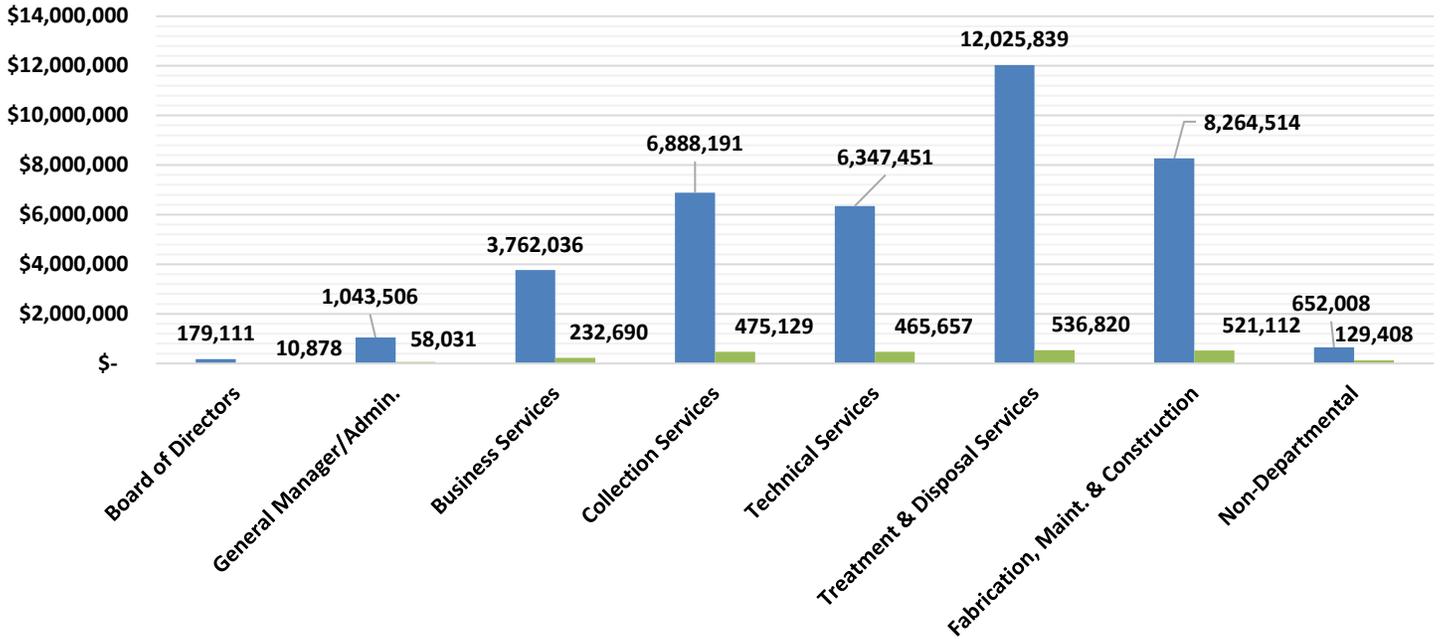
■ Budget ■ Actual



**REVENUES AND EXPENSES REPORT**  
as of 7/31/18

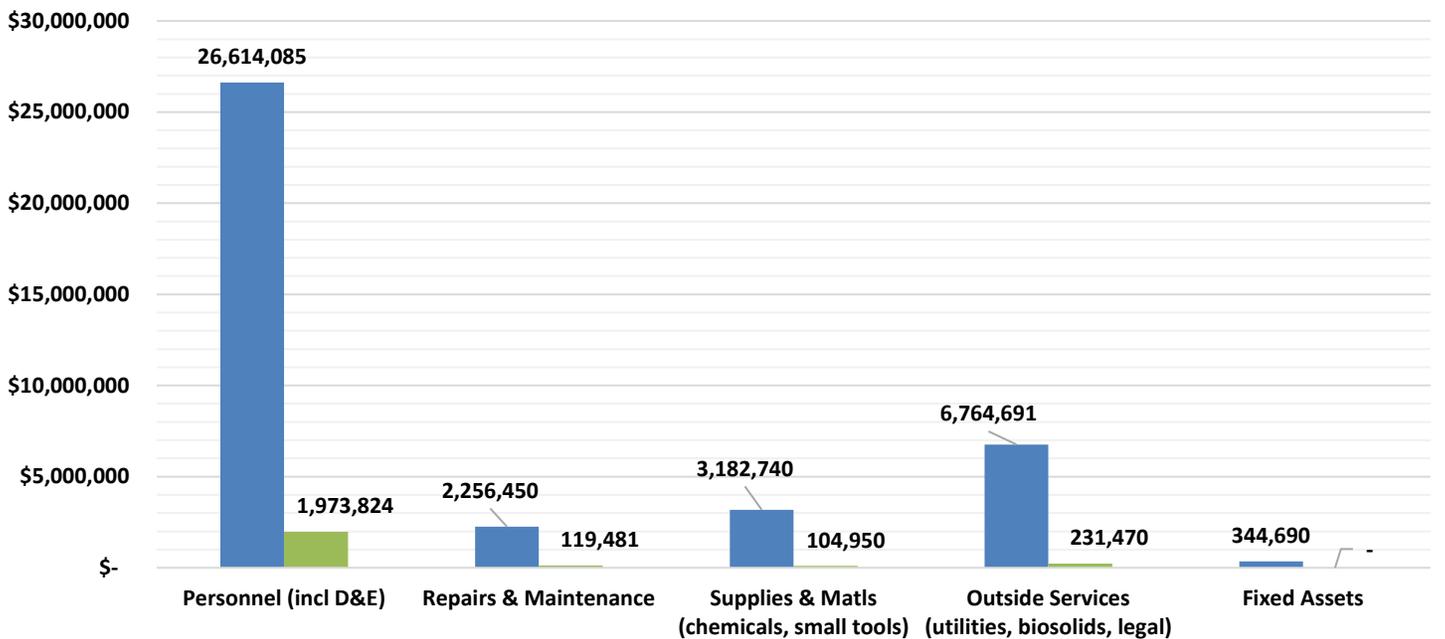
### Operating Expenses by Work Group

■ Budget ■ Actual



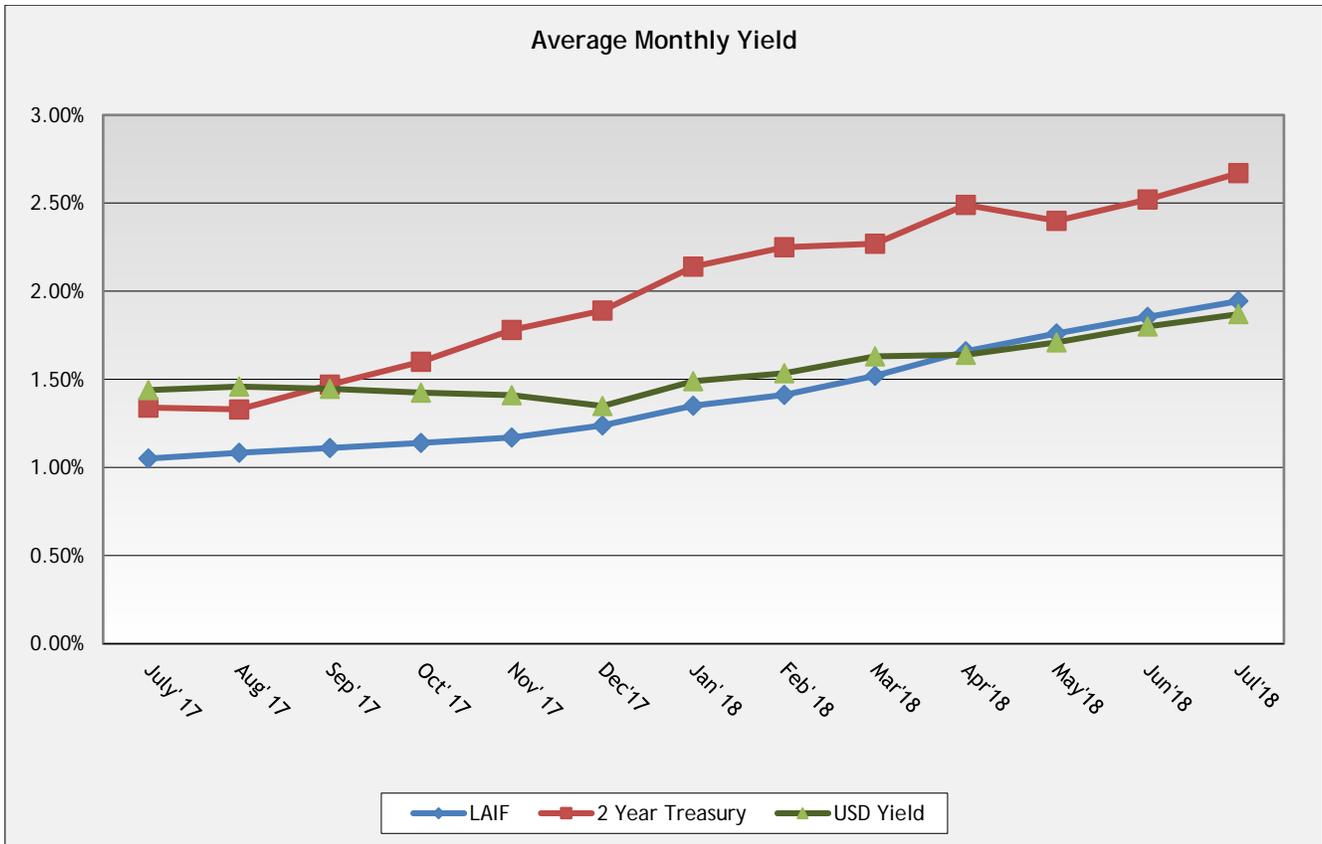
### Operating Expenses by Type

■ Budget ■ Actual

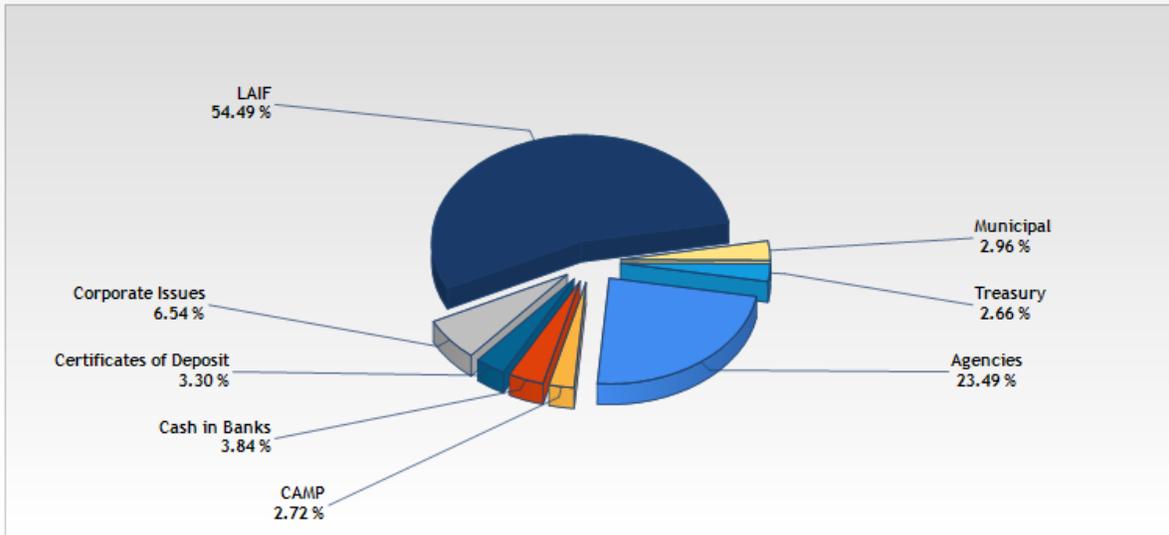


Business Services Group  
July 2018

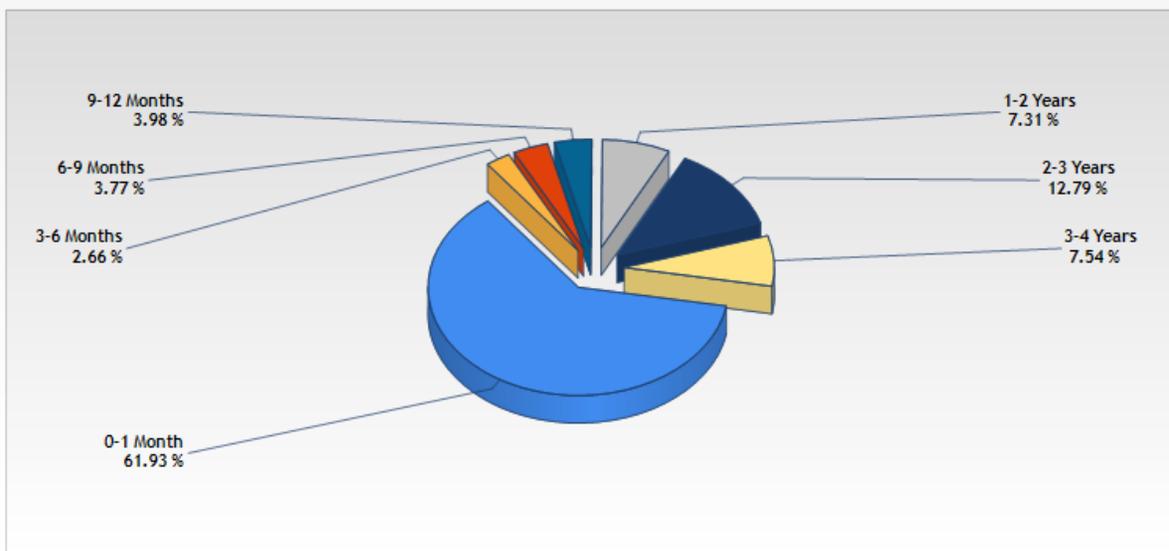
Performance Measures for the USD Investment Portfolio



### Portfolio Holdings Distribution by Asset Class



### Portfolio Holdings Distribution by Maturity Range



Maturity Range	Face Amount/Shares	YTM @ Cost	Cost Value	Days To Maturity	% of Portfolio	Market Value	Book Value	Duration To Maturity
0-1 Month	69,859,934.02	1.912	69,858,634.02	1	61.93	69,859,574.02	69,859,899.26	0.00
3-6 Months	3,000,000.00	1.285	2,999,100.00	154	2.66	2,988,140.00	2,999,780.00	0.42
6-9 Months	4,248,000.00	1.272	4,257,920.00	235	3.77	4,223,648.71	4,250,897.91	0.64
9-12 Months	4,498,000.00	1.229	4,494,560.00	311	3.98	4,450,452.17	4,496,839.09	0.85
1-2 Years	8,236,000.00	1.598	8,248,406.57	483	7.31	8,127,055.52	8,240,626.48	1.31
2-3 Years	14,245,000.00	2.067	14,430,937.56	950	12.79	13,997,497.06	14,338,206.65	2.53
3-4 Years	8,483,000.00	2.268	8,506,279.67	1,281	7.54	8,266,222.00	8,500,375.78	3.37
<b>TOTAL / AVERAGE</b>	<b>112,569,934.02</b>	<b>1.868</b>	<b>112,795,837.82</b>	<b>280</b>	<b>100</b>	<b>111,912,589.48</b>	<b>112,686,625.17</b>	<b>0.74</b>

Union Sanitary District  
 Portfolio Holdings  
 Board Report - Holdings  
 Report Format: By Transaction  
 Group By: Asset Class  
 Average By: Cost Value  
 Portfolio / Report Group: All Portfolios  
 As of 7/31/2018

Description	CUSIP/Ticker	Credit Rating 1	Settlement Date	Face Amount/Shares	Cost Value	Coupon Rate	Market Value	YTM @ Cost	Next Call Date	Maturity Date	% of Portfolio
<b>Agencies</b>											
FFCB 1.17 5/16/2019-17	3133EF7L5	Moody-Aaa	5/16/2016	1,000,000.00	1,000,000.00	1.170	990,330.00	1.170		5/16/2019	0.89
FFCB 1.3 11/25/2019-16	3133EGBK0	Moody-Aaa	5/25/2016	1,000,000.00	997,950.00	1.300	982,450.00	1.360		11/25/2019	0.88
FFCB 1.35 6/24/2019	3133EEZ60	Moody-Aaa	5/24/2017	1,000,000.00	1,003,480.00	1.350	991,460.00	1.180		6/24/2019	0.89
FFCB 1.37 12/27/2018-17	3133EGZ24	None	12/27/2016	1,000,000.00	1,000,000.00	1.370	996,100.00	1.370		12/27/2018	0.89
FFCB 1.59 3/23/2020-17	3133EFR25	Moody-Aaa	3/23/2016	1,000,000.00	1,000,000.00	1.590	981,810.00	1.590		3/23/2020	0.89
FFCB 1.7 5/3/2021-17	3133EF5T0	Moody-Aaa	5/3/2016	1,000,000.00	1,000,000.00	1.700	965,990.00	1.700		5/3/2021	0.89
FHLB 1.24 1/23/2019-18	3130AAN20	Moody-Aaa	2/2/2017	1,000,000.00	999,100.00	1.240	995,380.00	1.286		1/23/2019	0.89
FHLB 1.375 2/28/2019-17	3130ABEH5	Moody-Aaa	5/30/2017	1,000,000.00	1,000,000.00	1.375	994,920.00	1.375		2/28/2019	0.89
FHLB 1.93 12/21/2020-17	3130AADQ8	None	12/21/2016	1,000,000.00	1,000,000.00	1.930	976,510.00	1.930		12/21/2020	0.89
FHLB 2 10/26/2021-19	3130AB3D6	None	4/26/2017	1,000,000.00	1,000,000.00	2.000	969,280.00	2.000	4/26/2019	10/26/2021	0.89
FHLB 2.05 12/29/2021-17	3130AAET1	Moody-Aaa	12/29/2016	1,000,000.00	1,000,000.00	2.050	970,390.00	2.050	9/29/2018	12/29/2021	0.89
FHLB 2.4 12/22/2021-17	3130AAHC5	None	12/22/2016	1,000,000.00	1,000,000.00	2.400	977,850.00	2.400		12/22/2021	0.89
FHLB Step 4/28/2021-16	3130A7PR0	Moody-Aaa	4/28/2016	1,000,000.00	1,000,000.00	1.500	987,070.00	2.114	10/28/2018	4/28/2021	0.89
FHLB Step 4/28/2021-16	3130A7QX6	Moody-Aaa	4/28/2016	1,000,000.00	1,000,000.00	1.500	979,680.00	2.021		4/28/2021	0.89
FHLMC 1 8/15/2018-17	3134GABQ6	Moody-Aaa	1/31/2017	1,000,000.00	998,700.00	1.000	999,640.00	1.087		8/15/2018	0.89
	3134GAZU1	None	12/14/2016	1,000,000.00	1,000,000.00	1.200	996,660.00	1.200	9/14/2018	12/14/2018	0.89

Description	CUSIP/Ticker	Credit Rating 1	Settlement Date	Face Amount/Shares	Cost Value	Coupon Rate	Market Value	YTM @ Cost	Next Call Date	Maturity Date	% of Portfolio
FHLMC 1.2 12/14/2018-17											
FHLMC 1.25 10/28/2019-17	3134G8XQ7	Moody's-Aaa	4/28/2016	1,000,000.00	1,000,000.00	1.250	983,810.00	1.250		10/28/2019	0.89
FHLMC 1.4 6/14/2019-17	3134GBRH7	Moody's-Aaa	6/14/2017	1,000,000.00	1,000,000.00	1.400	991,250.00	1.400		6/14/2019	0.89
FHLMC 1.41 4/26/2019-18	3134GBEG3	None	4/26/2017	1,000,000.00	1,000,000.00	1.410	993,030.00	1.410		4/26/2019	0.89
FHLMC 1.5 12/30/2019-17	3134GAYY4	S&P-AA+	12/30/2016	1,000,000.00	1,000,000.00	1.500	984,610.00	1.500	9/30/2018	12/30/2019	0.89
FHLMC 1.5 9/9/2019-18	3134GA7A6	Moody's-Aaa	5/10/2017	1,000,000.00	1,000,000.00	1.500	988,820.00	1.500		9/9/2019	0.89
FHLMC 2 12/30/2021-17	3134GAYV0	None	12/30/2016	1,000,000.00	1,000,000.00	2.000	967,440.00	2.000	9/30/2018	12/30/2021	0.89
FHLMC Step 4/28/2021-16	3134G8VZ9	Moody's-Aaa	4/28/2016	2,500,000.00	2,500,000.00	1.375	2,442,275.00	2.116		4/28/2021	2.22
FHLMC Step 4/28/2021-16	3134G8Z28	Moody's-Aaa	5/10/2016	1,000,000.00	999,500.00	1.125	979,720.00	2.044	10/28/2018	4/28/2021	0.89
FNMA 1.5 6/16/2021-16	3136G3QX6	Moody's-Aaa	6/16/2016	1,000,000.00	995,000.00	1.500	958,830.00	1.604	9/16/2018	6/16/2021	0.88
<b>Sub Total / Average</b>				<b>26,500,000.00</b>	<b>26,493,730.00</b>	<b>1.502</b>	<b>26,045,305.00</b>	<b>1.654</b>			<b>23.49</b>
<b>CAMP</b>											
CAMP LGIP	LGIP4000	None	5/31/2011	3,065,427.88	3,065,427.88	2.110	3,065,427.88	2.110	N/A	N/A	2.72
<b>Sub Total / Average</b>				<b>3,065,427.88</b>	<b>3,065,427.88</b>	<b>2.110</b>	<b>3,065,427.88</b>	<b>2.110</b>			<b>2.72</b>
<b>Cash in Banks</b>											
Union Bank Cash	LGIPUNIONBANK	None	12/31/2016	4,330,595.16	4,330,595.16	1.510	4,330,595.16	1.510	N/A	N/A	3.84
<b>Sub Total / Average</b>				<b>4,330,595.16</b>	<b>4,330,595.16</b>	<b>1.510</b>	<b>4,330,595.16</b>	<b>1.510</b>			<b>3.84</b>
<b>Certificates of Deposit</b>											
Ally Bank 1.35 10/28/2019	02006LQ48	None	10/27/2016	248,000.00	248,000.00	1.350	243,159.88	1.350		10/28/2019	0.22
American Expr Centurion 2.45 4/5/2022	02587DN38	None	4/5/2017	247,000.00	247,000.00	2.450	242,770.42	2.450		4/5/2022	0.22
Belmont Savings Bank 2.15 3/22/2022	080515BV0	None	3/20/2017	248,000.00	248,000.00	2.150	241,094.19	2.150		3/22/2022	0.22
BMW Bank 2.15 3/10/2022	05580AGR9	None	3/10/2017	247,000.00	247,000.00	2.150	240,225.85	2.150		3/10/2022	0.22
Capital One Bank 1.5 10/26/2020	140420L99	None	10/26/2016	248,000.00	248,000.00	1.500	240,299.03	1.500		10/26/2020	0.22

Description	CUSIP/Ticker	Credit Rating 1	Settlement Date	Face Amount/Shares	Cost Value	Coupon Rate	Market Value	YTM @ Cost	Next Call Date	Maturity Date	% of Portfolio
Comenity Capital 1.25 4/11/2019	20033ASR8	None	10/25/2016	248,000.00	248,000.00	1.250	245,338.71	1.250		4/11/2019	0.22
Discover Bank 2.25 12/29/2021	254672Y36	None	12/29/2016	247,000.00	247,000.00	2.250	241,429.83	2.250		12/29/2021	0.22
JP Morgan Chase Bank 1.1 7/15/2019	48125Y5L4	None	7/15/2016	249,000.00	249,000.00	1.100	244,480.75	1.100		7/15/2019	0.22
Lakeside Bank 1.75 5/29/2020	51210SMU8	None	5/30/2017	249,000.00	249,000.00	1.750	243,907.50	1.750		5/29/2020	0.22
Landmark Bank 2.1 3/29/2021-17	51506VCA9	None	3/29/2017	248,000.00	248,000.00	2.100	242,761.87	2.100	9/27/2018	3/29/2021	0.22
Ponce De Leon Federal Bank 1.85 5/28/2021	732333AJ8	None	5/31/2017	249,000.00	249,000.00	1.850	241,546.16	1.850		5/28/2021	0.22
State Bank of India 2.25 1/26/2022	8562846A7	None	1/26/2017	247,000.00	247,000.00	2.250	241,286.03	2.250		1/26/2022	0.22
Summit Community Bank 1.65 5/29/2020	86604XLT1	None	5/31/2017	249,000.00	249,000.00	1.650	243,425.74	1.650		5/29/2020	0.22
Synchrony Bank 2.3 2/24/2022	87165ELT2	None	2/28/2017	247,000.00	247,000.00	2.300	241,575.68	2.300		2/24/2022	0.22
Wells Fargo Bank 1.15 7/22/2019	9497486R3	None	7/20/2016	249,000.00	249,000.00	1.150	244,531.42	1.150		7/22/2019	0.22
<b>Sub Total / Average</b>				<b>3,720,000.00</b>	<b>3,720,000.00</b>	<b>1.816</b>	<b>3,637,833.06</b>	<b>1.816</b>			<b>3.30</b>
<b>Corporate Issues</b>											
American Express Credit 2.7 3/3/2022	0258M0EG0	Moody's-A2	5/15/2017	1,000,000.00	1,013,279.67	2.700	976,810.00	2.406		3/3/2022	0.90
Barclays Bank PLC Step 4/26/2022-17	06741VR95	Moody's-A1	4/26/2017	1,000,000.00	1,000,000.00	2.500	985,140.00	3.093	10/26/2018	4/26/2022	0.89
Chevron Corp 2.1 5/16/2021	166764BG4	Moody's-Aa2	5/10/2017	1,000,000.00	999,500.00	2.100	977,600.00	2.113		5/16/2021	0.89
Chevron Corp 2.193 11/15/2019	166764AN0	Moody's-Aa2	2/26/2016	1,160,000.00	1,167,806.57	2.193	1,153,840.40	2.004		11/15/2019	1.04
GE Capital International 2.04 11/15/2020	36164QMS4	S&P-AA	3/10/2017	1,000,000.00	1,010,642.28	2.040	979,240.00	1.738		11/15/2020	0.90
HSBC 4.875 8/24/2020	4042Q1AE7	Moody's-A1	5/17/2016	2,000,000.00	2,191,145.28	4.875	2,058,300.00	2.500		8/24/2020	1.94
<b>Sub Total / Average</b>				<b>7,160,000.00</b>	<b>7,382,373.80</b>	<b>3.067</b>	<b>7,130,930.40</b>	<b>2.332</b>			<b>6.54</b>
<b>LAIF</b>											
LAIF LGIP	LGIP1002	None	4/30/2011	61,463,910.98	61,463,910.98	1.944	61,463,910.98	1.944	N/A	N/A	54.49
<b>Sub Total / Average</b>				<b>61,463,910.98</b>	<b>61,463,910.98</b>	<b>1.944</b>	<b>61,463,910.98</b>	<b>1.944</b>			<b>54.49</b>
<b>Municipal</b>											

Description	CUSIP/Ticker	Credit Rating 1	Settlement Date	Face Amount/Shares	Cost Value	Coupon Rate	Market Value	YTM @ Cost	Next Call Date	Maturity Date	% of Portfolio
City of Riverside CA 2.125 6/1/2021	769036BA1	S&P-AA-	6/1/2017	500,000.00	500,000.00	2.125	485,515.00	2.125		6/1/2021	0.44
La Qunita Redev Agency 2.034 9/1/2019	50420BCH3	S&P-AA-	12/22/2016	1,330,000.00	1,336,650.00	2.034	1,321,222.00	1.843		9/1/2019	1.19
State of California 2.152 4/1/2022	13063DAD0	Moody's-Aa3	4/27/2017	1,000,000.00	1,010,000.00	2.152	970,930.00	1.938		4/1/2022	0.90
Victor Valley College General Obligation Bond 2.35	92603PER9	Moody's-Aa2	12/28/2016	500,000.00	490,150.00	2.350	482,160.00	2.811		8/1/2021	0.43
<b>Sub Total / Average</b>				<b>3,330,000.00</b>	<b>3,336,800.00</b>	<b>2.130</b>	<b>3,259,827.00</b>	<b>2.056</b>			<b>2.96</b>
<b>Treasury</b>											
T-Note 0.875 5/15/2019	912828R44	None	4/26/2017	1,000,000.00	993,080.00	0.875	988,400.00	1.217		5/15/2019	0.88
T-Note 1.283 3/31/2019	912828SN1	None	2/22/2017	1,000,000.00	1,004,480.00	1.283	994,730.00	1.067		3/31/2019	0.89
T-Note 1.5 2/28/2019	912828C24	None	1/9/2017	1,000,000.00	1,005,440.00	1.500	995,630.00	1.241		2/28/2019	0.89
<b>Sub Total / Average</b>				<b>3,000,000.00</b>	<b>3,003,000.00</b>	<b>1.221</b>	<b>2,978,760.00</b>	<b>1.175</b>			<b>2.66</b>
<b>Total / Average</b>				<b>112,569,934.02</b>	<b>112,795,837.82</b>	<b>1.883</b>	<b>111,912,589.48</b>	<b>1.868</b>			<b>100</b>

All investment actions executed since the last report have been made in full compliance with the District's Investment Policy. The District will meet its expenditure obligations for the next six months. Market value sources are the LAIF, CAMP, and BNY Mellon monthly statements. Broker/Dealers: BOSC, Inc.; Cantella & Co.; First Empire Securities; Ladenburg, Thalman & Co, Inc.; UBS Financial Services; Wells Fargo Securities.

Reviewer:

Approver:

Union Sanitary District  
 Transactions Summary  
 Board Report - Activity  
 Group By: Action  
 Portfolio / Report Group: All Portfolios  
 Begin Date: 06/30/2018, End Date: 07/31/2018

Description	CUSIP/Ticker	Face Amount/Shares	Principal	Interest/Dividends	Coupon Rate	YTM @ Cost	Settlement Date	Total
<b>Deposit</b>								
CAMP LGIP	LGIP4000	5,474.87	5,474.87	0.00	N/A	0.000	7/31/2018	5,474.87
LAIF LGIP	LGIP1002	239,757.42	239,757.42	0.00	N/A	0.000	7/13/2018	239,757.42
Union Bank Cash	LGIPUNIONBANK	4,330,595.16	4,330,595.16	0.00	N/A	0.000	7/31/2018	4,330,595.16
<b>Sub Total / Average</b>		<b>4,575,827.45</b>	<b>4,575,827.45</b>	<b>0.00</b>				<b>4,575,827.45</b>
<b>Interest</b>								
CAMP LGIP	LGIP4000	0.00	0.00	5,474.87	N/A	0.000	7/31/2018	5,474.87
Comenity Capital 1.25 4/11/2019	20033ASR8	0.00	0.00	254.79	1.250	0.000	7/11/2018	254.79
FHLB 1.24 1/23/2019-18	3130AAN20	0.00	0.00	6,200.00	1.240	0.000	7/23/2018	6,200.00
FHLMC 1.5 12/30/2019-17	3134GAYY4	0.00	0.00	7,500.00	1.500	0.000	7/2/2018	7,500.00
FHLMC 2 12/30/2021-17	3134GAYV0	0.00	0.00	10,000.00	2.000	0.000	7/2/2018	10,000.00
JP Morgan Chase Bank 1.1 7/15/2019	48125Y5L4	0.00	0.00	682.87	1.100	0.000	7/16/2018	682.87
LAIF LGIP	LGIP1002	0.00	0.00	239,757.42	N/A	0.000	7/13/2018	239,757.42
Lakeside Bank 1.75 5/29/2020	51210SMU8	0.00	0.00	358.15	1.750	0.000	7/30/2018	358.15
Lakeside Bank 1.75 5/29/2020	51210SMU8	0.00	0.00	370.09	1.750	0.000	7/2/2018	370.09
Ponce De Leon Federal Bank 1.85 5/28/2021	732333AJ8	0.00	0.00	391.24	1.850	0.000	7/31/2018	391.24
Ponce De Leon Federal Bank 1.85 5/28/2021	732333AJ8	0.00	0.00	378.62	1.850	0.000	7/2/2018	378.62
State Bank of India 2.25 1/26/2022	8562846A7	0.00	0.00	2,755.91	2.250	0.000	7/26/2018	2,755.91
Summit Community Bank 1.65 5/29/2020	86604XLT1	0.00	0.00	348.94	1.650	0.000	7/31/2018	348.94
Summit Community Bank 1.65 5/29/2020	86604XLT1	0.00	0.00	337.68	1.650	0.000	7/2/2018	337.68
Toyota Motor Credit 1.55 7/13/2018	89236TCP8	0.00	0.00	7,750.00	1.550	0.000	7/13/2018	7,750.00
Wells Fargo Bank 1.15 7/22/2019	9497486R3	0.00	0.00	235.36	1.150	0.000	7/20/2018	235.36
<b>Sub Total / Average</b>		<b>0.00</b>	<b>0.00</b>	<b>282,795.94</b>				<b>282,795.94</b>
<b>Matured</b>								
Toyota Motor Credit 1.55 7/13/2018	89236TCP8	1,000,000.00	1,000,000.00	0.00	1.550	0.000	7/13/2018	1,000,000.00

Description	CUSIP/Ticker	Face Amount/Shares	Principal	Interest/Dividends	Coupon Rate	YTM @ Cost	Settlement Date	Total
<b>Sub Total / Average</b>		<b>1,000,000.00</b>	<b>1,000,000.00</b>	<b>0.00</b>				<b>1,000,000.00</b>
<b>Withdraw</b>								
Union Bank Cash	LGIPUNIONBANK	8,207,498.67	8,207,498.67	0.00	N/A	0.000	7/30/2018	8,207,498.67
<b>Sub Total / Average</b>		<b>8,207,498.67</b>	<b>8,207,498.67</b>	<b>0.00</b>				<b>8,207,498.67</b>

**MONTHLY OPERATIONS REPORT FOR THE MONTH OF JULY 2018**  
**TECHNICAL SUPPORT WORK GROUP SUMMARY**

**Capital Improvement Program**

**Fremont and Paseo Padre Lift Stations Improvements Project** – Project closeout and punchlist work.

**Chemical Tanks and Piping Replacement Project** – Corrective work and punch list work.

**Sludge Degritter System Project** – Final round of sampling from the new degritter was conducted and awaiting the results from the degritter manufacturer.

**Newark Pump Station Wet Well Improvements** – Corrective work and punch list work.

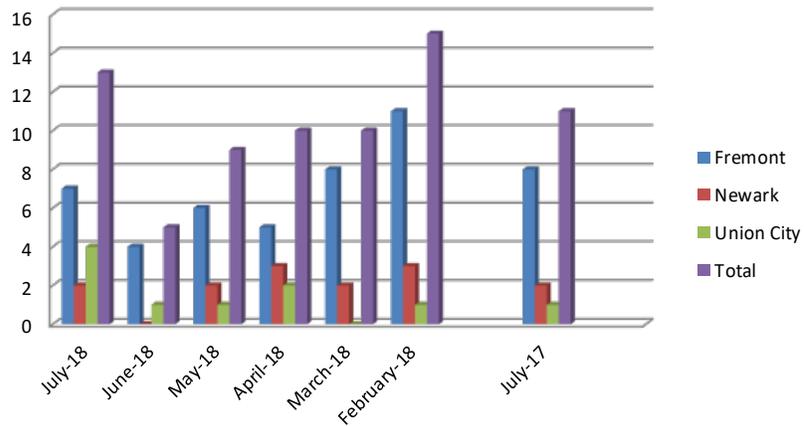
**Primary Digester No. 3 Rehabilitation Project** – Modifications for the south Thickener Scum Pit continued. Coatings work within the interior of Primary Digester No. 3 and piping installation at Heating and Mixing Building No. 2 is in progress. CCTV inspection of the mixing lines underneath Primary Digester No. 3 on June 29 revealed that the piping is corroded and in need of replacement before the digester can be returned to service. Design of the mixing piping replacement has begun.

**Force Main Corrosion Repairs Project Phase 2** – The manhole repairs and epoxy coating application were completed. Force main start-up is planned for August 13.

**Customer Service**

Trouble Calls dispatched from the Front Desk during business hours:

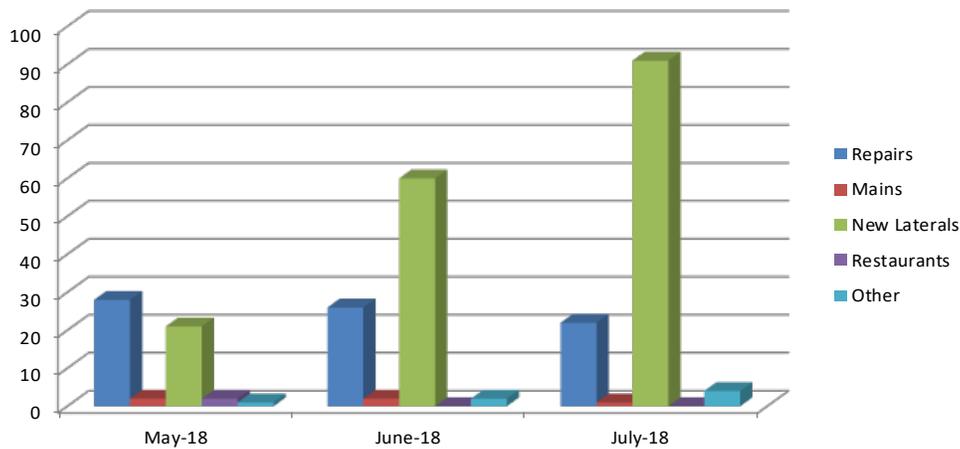
Month	Fremont	Newark	Union City	Total
July-18	7	2	4	13
June-18	4	0	1	5
May-18	6	2	1	9
April-18	5	3	2	10
March-18	8	2	0	10
February-18	11	3	1	15
July-17	8	2	1	11
6-Month Total				62



**Sewer Permits Issued**

Month	Repairs	Mains	New Laterals	Restaurants	Other
July-18	22	1	91	0	4
June-18	26	2	60	0	2
May-18	28	2	21	2	1

New Laterals - New residential lateral connections  
 Other - Non-residential construction (except restaurants)



**Communication**

- Social Media posts: Recruitment information, scheduled repair work
- Updated website: New start date: Scheduled sewer repair work
- Assisted in development of letter to residents adjacent to sewer repair work
- Continued activities regarding District Branding initiative
- Participated in Chamber of Commerce Board activities as Director and Past-President
- Participated as member of CASA Program Committee and Communications Committee in August 2018 conference planning
- Continued content development, preparation for printing of Fall 2018 newsletter

**Environmental Compliance**

**Pollution Prevention/Stormwater Programs**

USD’s Environmental Compliance (EC) team conducts pollution prevention inspections at restaurants, car wash businesses, and other commercial facilities. EC also conducts inspections and enforcement for the City of Fremont’s Environmental Services group. We conduct over 600 Stormwater compliance inspections every year to ensure that commercial facilities, including restaurants and auto shops, comply with City Ordinance requirements, and do not discharge pollutants to the creeks and bay.

During the past month, the EC team conducted 67 Stormwater (Urban Runoff), and 40 FOG (restaurant) inspections. During this reporting period, Inspectors identified 11 Stormwater and 8 FOG enforcement actions. Five (5) of the Stormwater enforcements resulted in administrative fines ranging from \$100 to \$500. All 5 administrative fines were issued for repeated violations. There were no administrative fines issued for illicit discharges.

**Urban Runoff Inspections and Enforcements**

July 2018	No. of UR Inspections	VW	WL	NOV	AF	LA	Total Enforcements	No. of Illicit Discharge/s	
	67	0	0	6	5	0	11	% enforcement	16%

**FOG Inspections and Enforcements**

July 2018	No. of FOG Inspections	VW	WL	NOV	AF	LA	Total Enforcements	% Enforcement	20%
	40	4	2	2	0	0	8		

*Enforcements:*

*VW – Verbal Warning*

*WL – Warning Letter*

*NOV – Notices of Violation*

*AF – Administrative Fine*

*LA – Legal Action*

*NOD – Notice of Deficiency*

*AO – Administrative Order*

*C&D – Cease & Desist Order*

*SNC – Significant Non-Compliance*

**Dental Inspections, School Outreach, and Plant Tours**

# of Dental Inspections	# of School Outreach Events including Sewer Science	# of Plant Tours
12	0 (no school)	1

**Industrial Pretreatment**

The Industrial Pretreatment program has pending permits as shown in the table below. USD inspectors are working with each of these companies to establish permitted industrial discharges.

**Pending Permits**

<b>New Industrial/Groundwater Permits</b>	<b>Groundwater/Temporary</b>
ExxonMobil Oil Corporation c/o Cardno, Inc.	Groundwater

**Permits Issued**

<b>Company Name</b>	<b>Date Permit Issued</b>
FY 19 Groundwater and Zero Discharge Permit Reissuance	July 1, 2018

**Industrial Permit Closures**

<b>Company Name</b>	<b>Date of Closure</b>
MPP-San Jose	July 27, 2018

**Reports (Annual & Semi-Annual Pretreatment Report, Union City Report, etc.)**

<b>Report Name</b>	<b>Date Report Completed and Submitted</b>
2018 Semi-Annual Pretreatment Report	July 24, 2018
FY 2018 - 4 <sup>th</sup> Quarter City of Fremont Quarterly Billing	July 19, 2018

**Enforcement Action**

<b>IU Name &amp; Nature of Business</b>	<b>Comments</b>	<b>City</b>	<b>Parameters Violated</b>	<b>Discharge concentration (mg/L)</b>	<b>USD/Fed Limit Violated(mg/L)</b>	<b>Enforcement (1)</b>
None						

(1) WL – Warning Letter

NOV – Notices of Violation

AO – Administrative Order

C&D – Cease and Desist Order

SNC – Significant Non-Compliance

EM – Enforcement Meeting

**Other - Training, Special Meetings, Conferences, IAC (topics)**

<b>Activity</b>	<b>Date of Event</b>	<b>Attendees</b>
Tesla Environment Week	July 16-17, 2018	Doug Dattawalker

**Engineering/Construction**

No. of projects under construction: **6**

	<b>Construction Projects</b>	<b>Capital (\$1000)</b>	<b>Scheduled Completion</b>	<b>Completed Scope</b>	<b>Completed Time</b>	<b>Comments for July 2018 Activities</b>
1.	Fremont and Paseo Padre LS Improvement – Derek	\$2,801	10/16	100%	100%	Project closeout and punchlist work.
2.	Chemical Tanks and Piping Replacement Project – Thomas	\$2,102	10/17	99%	100%	Corrective work and punch list item work.

	<b>Construction Projects</b>	<b>Capital (\$1000)</b>	<b>Scheduled Completion</b>	<b>Completed Scope</b>	<b>Completed Time</b>	<b>Comments for July 2018 Activities</b>
3.	Sludge Degritter System Project – Kevin	\$1,436	11/17	95%	100%	A final round of sampling conducted by the degritter manufacturer. Results expected by late August.
4.	Newark Pump Station Wet Well Improvements – Thomas	\$674	03/18	99%	100%	Corrective work and punch list item work.
5.	Primary Digester No. 3 Rehabilitation – Derek	\$1,956	08/18	52%	99%	Coatings work within Digester 3 and piping installation at Heating and Mixing Building No. 2 are in progress. Design of mixing piping replacement has commenced.
6.	Force Main Corrosion Repairs Phase 2 – Andrew	\$932	09/18	90%	73%	The manhole repairs and epoxy coating application were completed. Force main start-up is planned for August 13 <sup>th</sup> .

**Design/Study**

No. of projects in design/study phase: **15**

	<b>Design/Study Projects</b>	<b>Capital (\$1000)</b>	<b>Scheduled Completion</b>	<b>Completed Scope</b>	<b>Completed Time</b>	<b>Comments for July 2018 Activities</b>
1.	Plant Solids System / Capacity Assessment Phase 2 – Curtis	\$329	02/18	99%	100%	District comments being incorporated into the Final Report.
2.	Local Limits Study – Raymond	\$77	09/18	75%	70%	Assist with industrial discharge permits.
3.	Cathodic Protection System Project – Thomas	\$79	08/18	80%	85%	90% design in progress.
4.	Newark Basin Masterplan – Andrew	\$303	08/19	32%	8%	Repair criteria formula will be implemented into hydraulic model.
5.	Standby Power Generation System Upgrade Project– Raymond/Kevin	\$1,976	12/18	15%	15%	Consultant presented recommendations of generator size and quantity and submitted the draft technical memorandum for the future electrical load analysis.
6.	Force Main Condition Assessment – Andrew	\$121	10/20	60%	43%	West barrel between Newark PS and plant was inspected. Consultant will provide a formal review letter of their findings.
7.	Emergency Outfall Improvements Project – Andrew	\$317	10/18	45%	70%	Public comments for the initial study received. Adoption postponed until comments are addressed by consultant and wetland mitigation is determined. 90% design submittal is due August 17 <sup>th</sup> .
8.	Primary Digester No. 7 Project – Curtis	\$1,476	09/18	79%	79%	90% design workshop took place on July 31 <sup>st</sup> .
9.	Plant Master Plan – Raymond/Curtis	\$304	03/18	85%	100%	Evaluation of building alternatives in progress.
10.	Effluent Management Study – Curtis	\$155	03/18	92%	100%	Study to incorporate results from Secondary Treatment Process Improvements.
11.	Odor Control Alternatives Study – Kevin	\$330	07/18	60%	60%	Coordination of odor control pilot technology testing in progress.

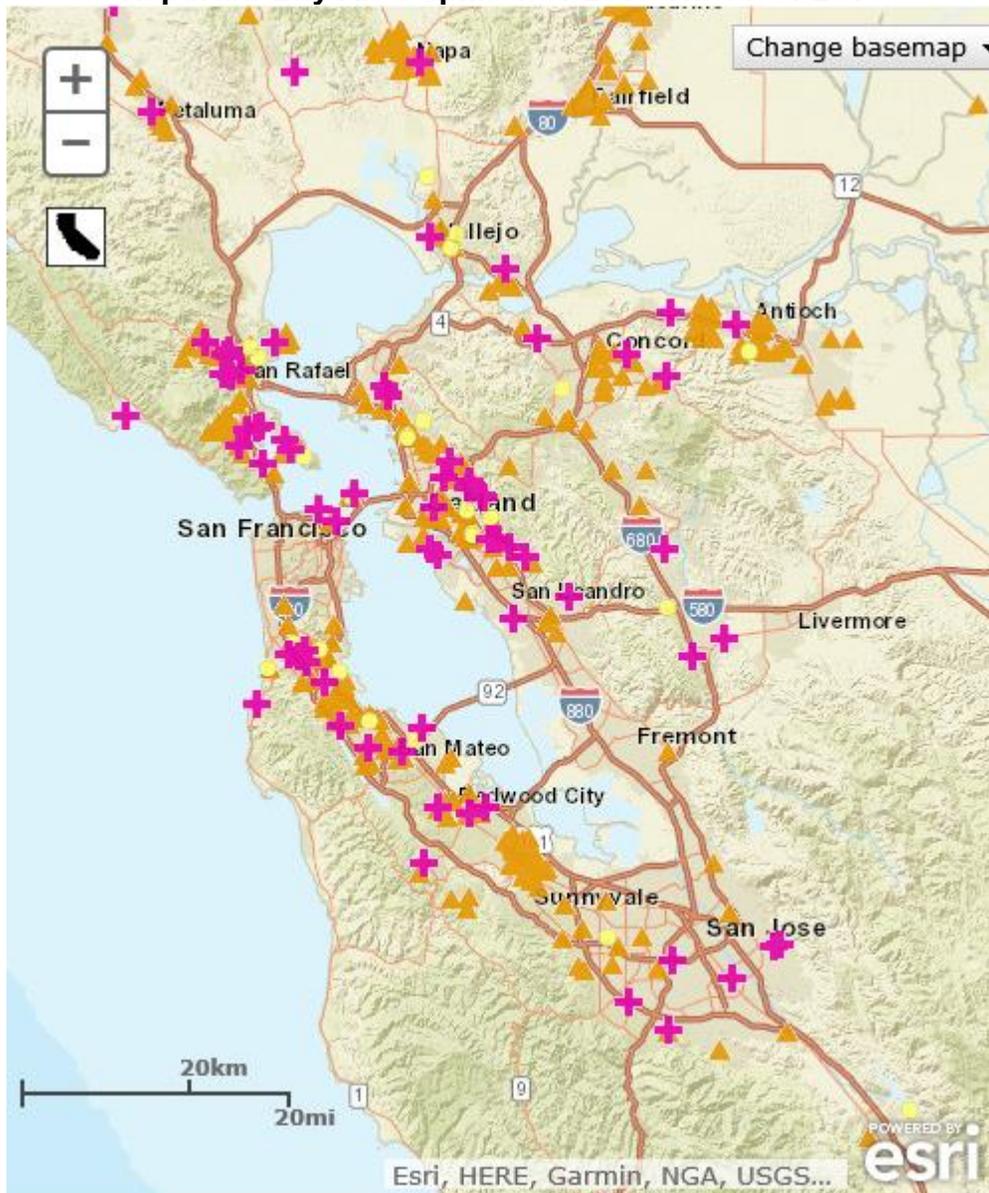
	<b>Design/Study Projects</b>	<b>Capital (\$1000)</b>	<b>Scheduled Completion</b>	<b>Completed Scope</b>	<b>Completed Time</b>	<b>Comments for July 2018 Activities</b>
12.	Plant Condition Assessment Study – Kevin	\$118	06/18	90%	95%	Preliminary condition assessment of EBDA assets completed. Second draft of report to follow.
13.	Headworks Screen No. 3 Project – Thomas	\$159	11/18	20%	30%	50% design in progress.
14.	Alvarado Influent Pump Station Improvements Project – Thomas	\$54	01/18	98%	100%	Selected the pump type and configuration.
15.	Cast Iron / Piping Lining Phase VII – Andrew	In-house	05/18	100%	100%	Contract awarded to Nor-Cal Pipeline Services on July 16. NTP anticipated for August 7 <sup>th</sup> .

**COLLECTION SERVICES  
ACTIVITIES REPORT  
July 2018**

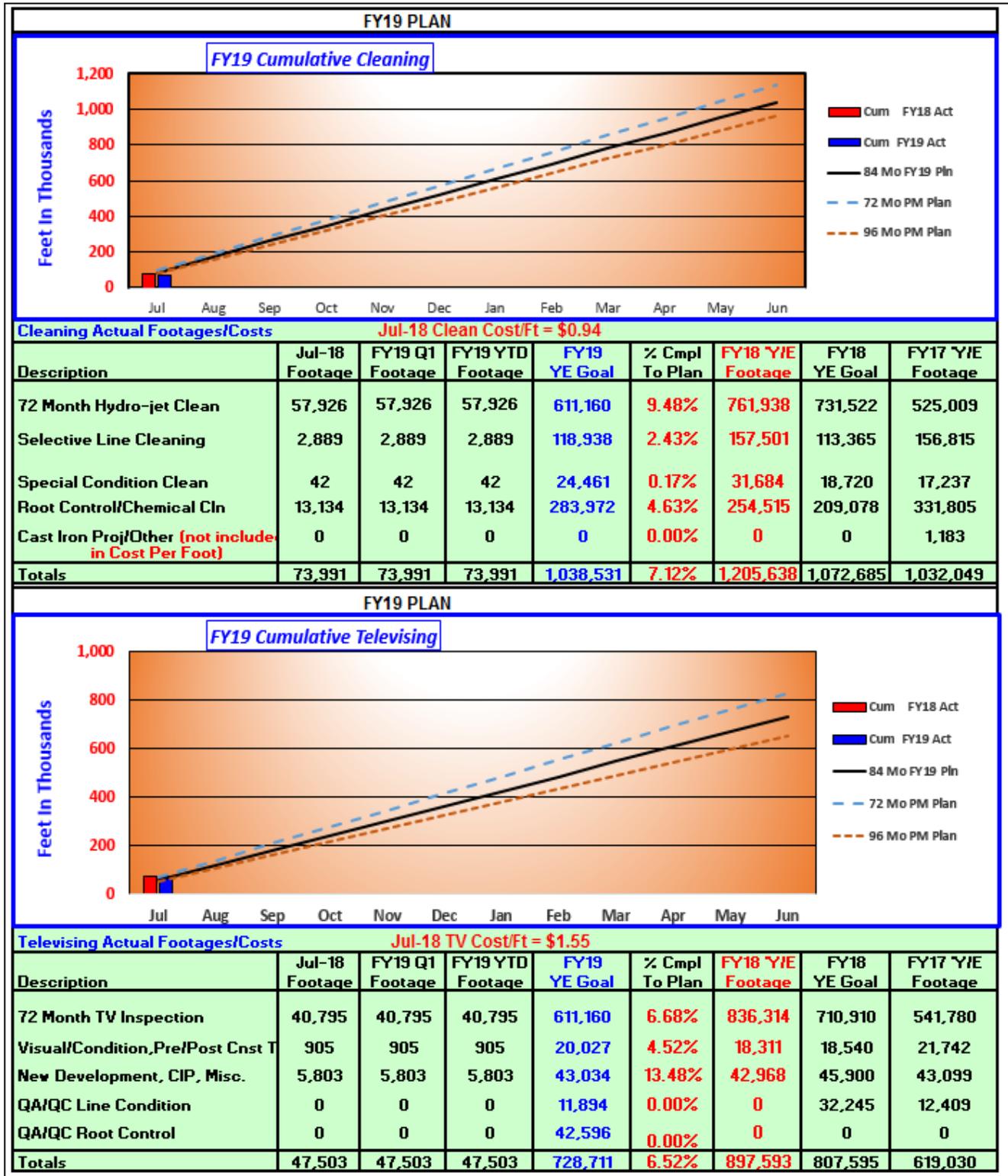
**Progress/Accomplishments**

- Zero Spills in July
- Completed 14.0 miles of sewer main cleaning in July.
- Completed 9.0 miles of sewer main inspection in July.
- Responded to 16 service request calls in July.
- Completed a total of 29 sewer main repairs in July.
- Trainings
  - CCTV (new employee)
  - CPR

**Reported Bay Area Spills 1/01/2018 Thru 7/31/2018**

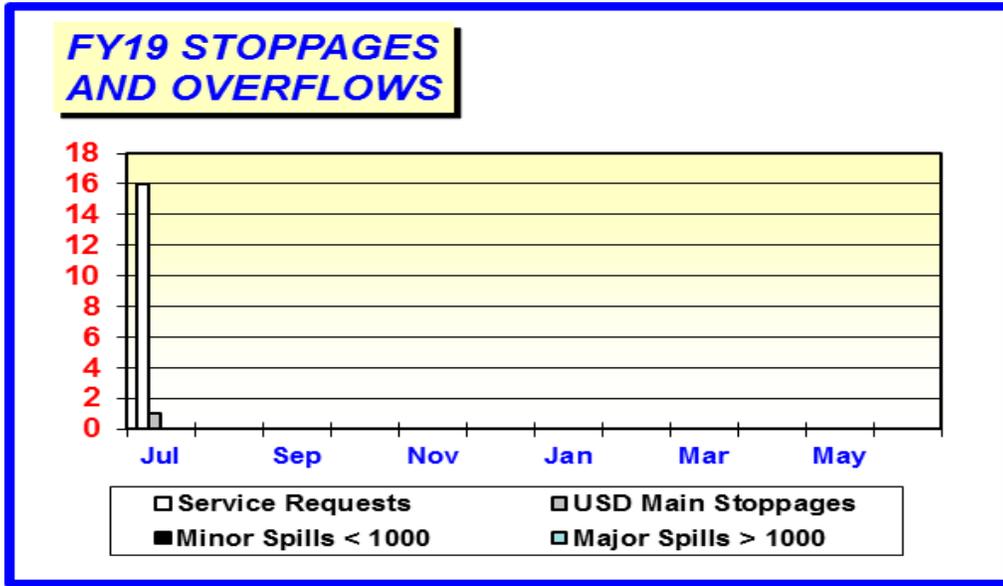


## Performance Measures

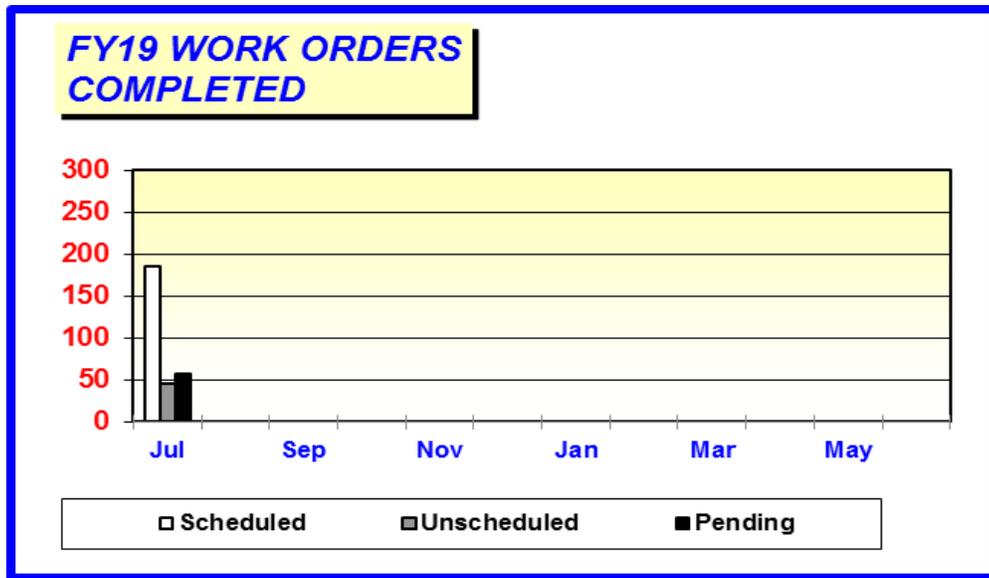


**Other Collection Services Status Data:**

**Support Team Work Order Status:**



**C/S Maintenance Status:**



## Fabrication, Maintenance and Construction Activities Report July 2018

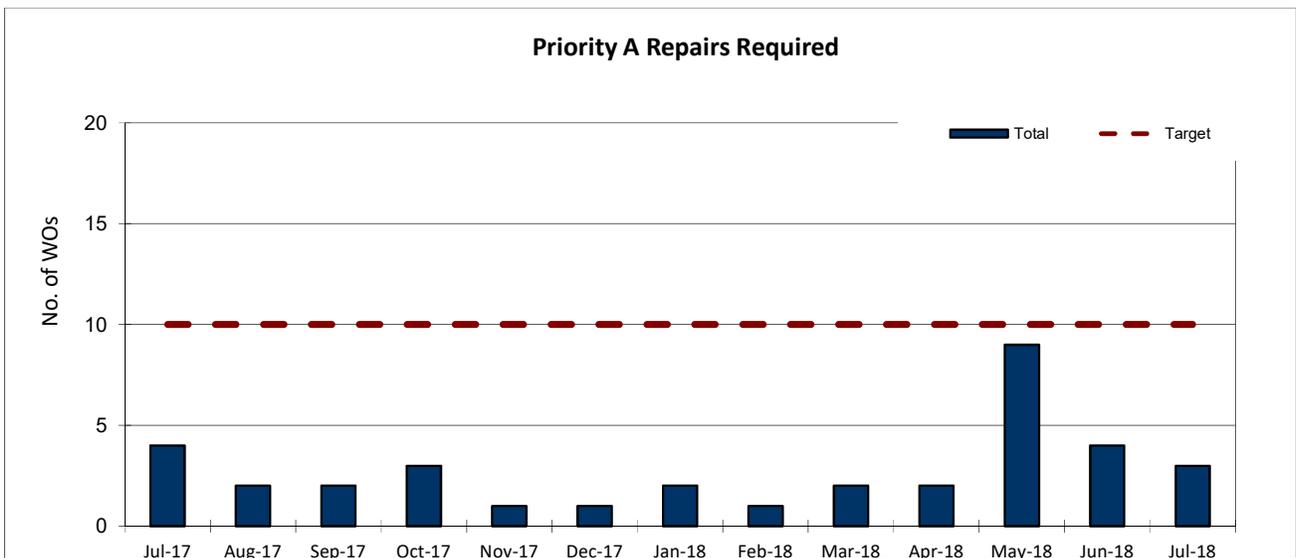
### Progress/Accomplishments

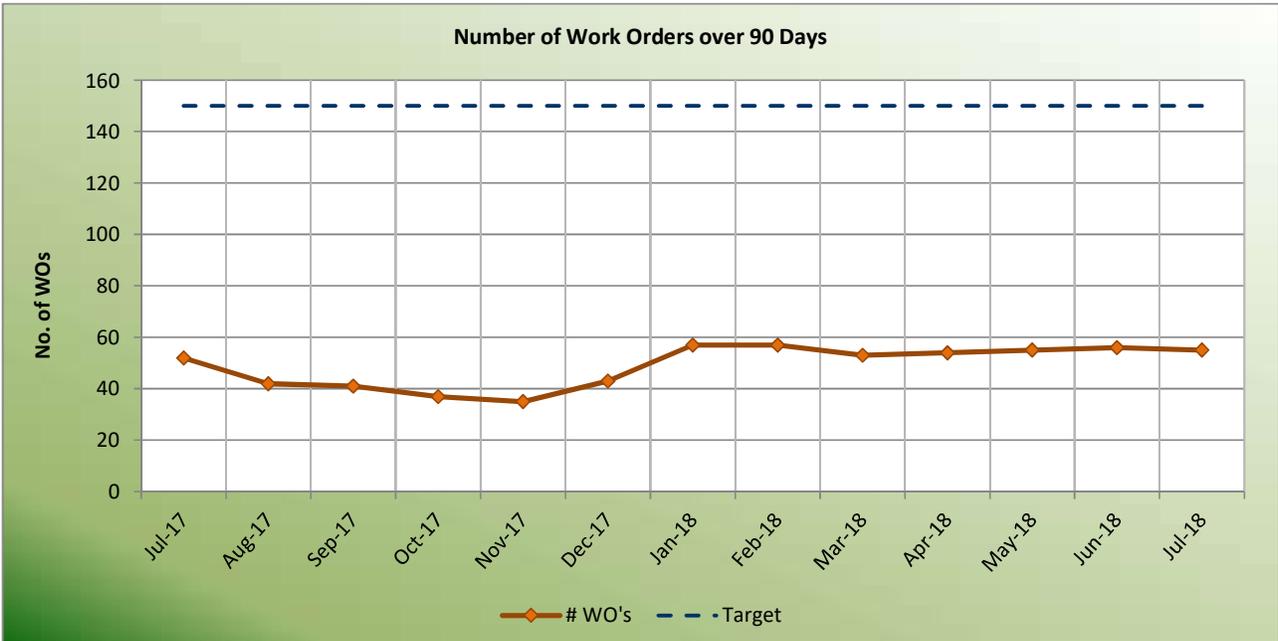
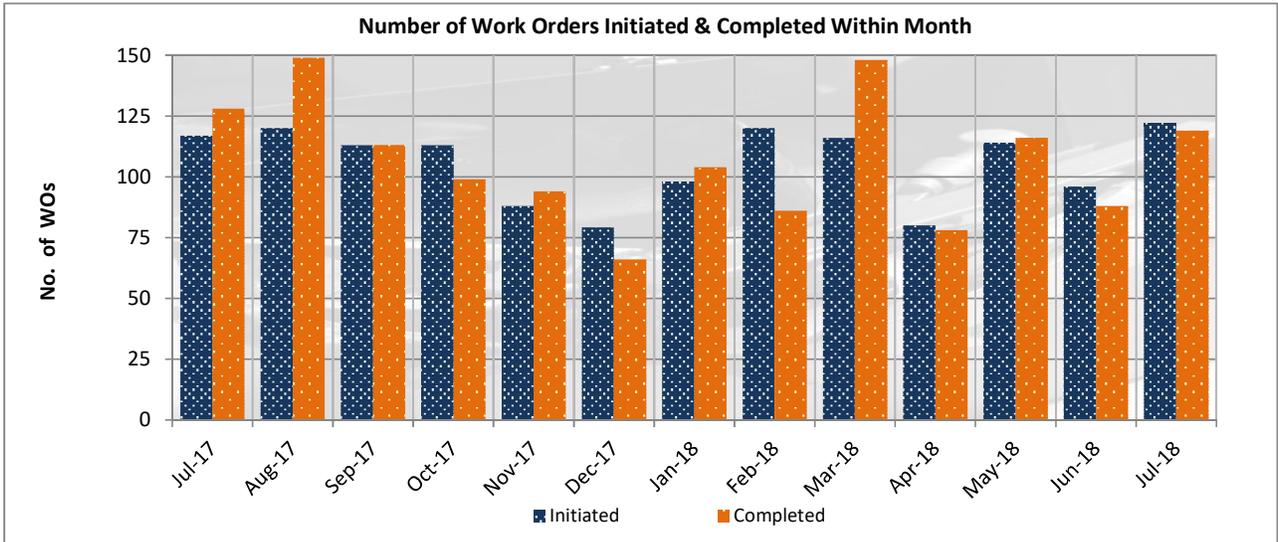
- Completed 98.19% of preventive maintenance activities for the month of July
- Completed 119 corrective maintenance work orders for the month of July
- Aeration Basin 1 & 7 Tubing Replacement
- Mixing Pump 5 Discharge Valve Replacement
- Secondary Digester Manway Installation
- Cogen 1-4K Service
- Cogen 2-2K Service

### Future Planning

- Overhaul Headworks East Barscreen
- Put West FM into Service from NPS to Plant
- Start Super Oxegenation Pilot at IPS and NPS
- Prepare New Break Trailer for Use
- Gas Conditioning Skid Blower 2 Electrical with CIP

### Performance Measurements





**Treatment & Disposal  
Activities Report  
July 2018**

**Progress/Accomplishments**

- Maintained 100% compliance with NPDES permits.
- Completed 98% preventive maintenance activities for the month of July.
- Conduct multiple solids systems shutdowns in support of the Digester No. 3 CIP Project.
- Begin staff training for the implementation of the Hach WIMS Operational Data Management System and continue to refine database calculations.
- Worked with DMJ gas and MMT to create a scope and invitation to bid for purchasing natural gas for cogeneration.
- Negotiated a sampling plan with Hazen and Sawyer for the secondary treatment process improvement project.
- Attended SB 617 seminar by the California Air Resources Board.
- Continue to work with PG&E on planning gas meter replacement to access natural gas tariff G-EG (gas for electrical generation).
- Reviewed and provided comments on pilot testing plan for Odor Control Pilot Study and the peer review thereof.

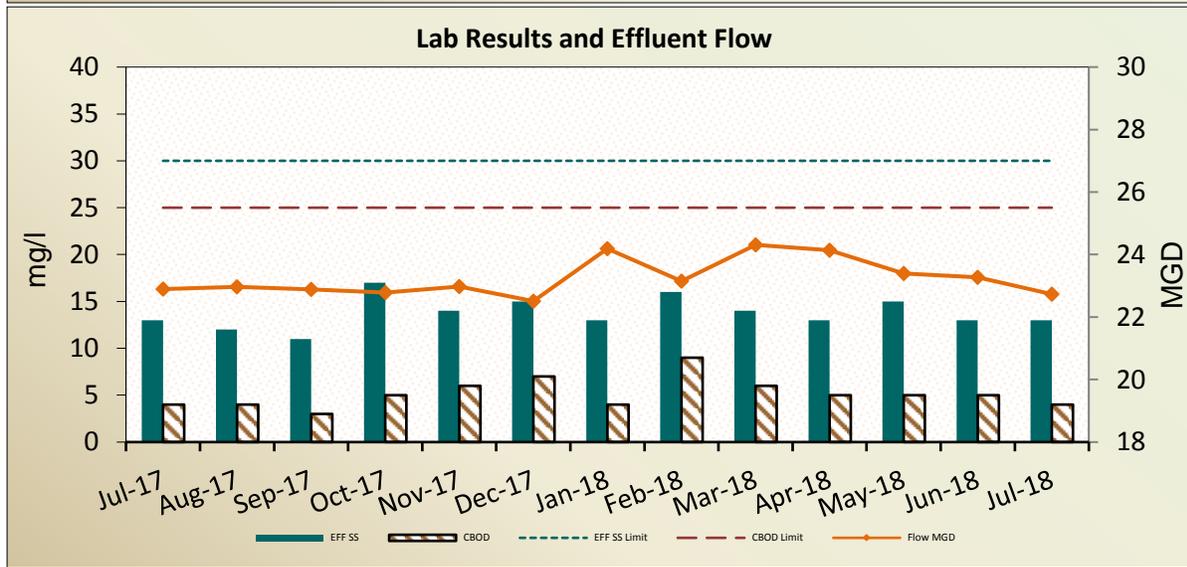
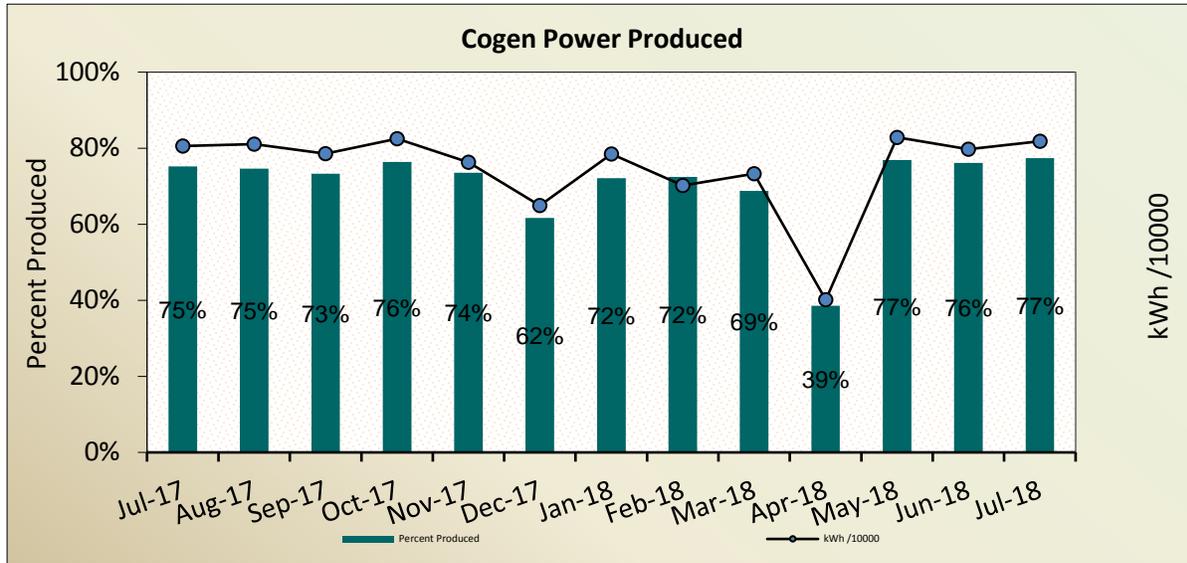
**Future Planning**

- Conduct multiple sampling and stress testing events to support the Hazen and Sawyer Secondary Treatment Process Improvement Project.
- Draft Union City Annual Report for FY 18.
- Begin parallel testing of Hach Wims ODMS system.
- Attend kick off meeting for secondary treatment process improvement project with Hazen and Sawyer.
- Attend BAAQMD/BACWA air committee meeting.
- Review toxic air contaminant inventory and prioritization estimate in anticipation of the implementation of BAAQMD Regulation 11- 18.

**Other**

- Cogen system produced 77% of power consumed for the month of July.

**Performance Measurements**



<b>USD's Final Effluent Monthly Monitoring Results</b>				
Parameter	EBDA Limit	May-18	Jun-18	Jul-18
Copper, µg/l	78	4.1	4.2	4.3
Mercury, µg/l	0.066	0.00250	0.00200	0.00190
Cyanide, µg/l	42	< 0.90	< 0.9	E 2.0
Ammonia- N, mg/L (Range)	130	40.6 - 43.4	38.9 - 42.5	36.5 - 38.4
Fecal Coliform, MPN/100ml (Range)				
• 5-Day Geometric Mean	500	21 - 28	24 - 46	13 - 38
• 11-Sample 90th Percentile	1100	33-38	55 - 66	55 - 66
Enterococci				
• Monthly Geometric Mean	240	18.9	15.8	10

E = Estimated value, concentration outside calibration range. For SIP, E = DNQ, estimated concentration.



**Directors**  
Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**Officers**  
Paul R. Eldredge  
*General Manager/  
District Engineer*

Karen W. Murphy  
*Attorney*

**DATE:** August 29, 2018

**MEMO TO:** Board of Directors - Union Sanitary District

**FROM:** Paul R. Eldredge, General Manager/District Engineer  
Sami E. Ghossain, Manager of Technical Services  
Rollie Arbolante, Customer Service Team Coach  
Rod Schurman, Associate Engineer

**SUBJECT:** Agenda Item No. 10 - Meeting of September 10, 2018  
**Consider a Resolution to Accept a Sanitary Sewer Easement for Tract 8399 – Mission Falls, Located on Mission Falls Court at Mission Falls Lane in the City of Fremont**

### **Recommendation**

Consider a resolution to accept a sanitary sewer easement for Tract 8399 – Mission Falls, located on Mission Falls Court at Mission Falls Lane in the city of Fremont.

### **Background**

The developer, Arroyo Cap V, LLC, is planning to construct eighty-one single-family dwellings, eighty-one townhome units and seventy condominium units in four villages for Tract 8399, on Mission Falls Court at Mission Falls Lane in the city of Fremont. A vicinity map is attached.

Sanitary sewer construction for the project will begin with the rerouting of an existing 10-inch public sewer main. This 10-inch sewer main resides within a 10-foot wide and 20-foot wide sanitary sewer easement that was dedicated to the city of Fremont in 1983 via parcel map 3984. The city of Fremont plans to abandon the sanitary sewer easement as part of the tract map approval process. To ensure the District has continued rights to access and maintain the existing 10-inch sewer main while the replacement 10-inch sewer main is being constructed, Arroyo Cap

V, LLC has granted the District a 10-foot wide and 20-foot wide sanitary sewer easement for the existing 10-inch sewer main currently located within the development.

Once the replacement sewer main is ready for District acceptance, the District will quitclaim this easement and a new Grant of Easement for the replacement 10-inch sewer main will be brought to the Board for acceptance. All other sewer mains in the development will be private, maintained by the homeowner's association.

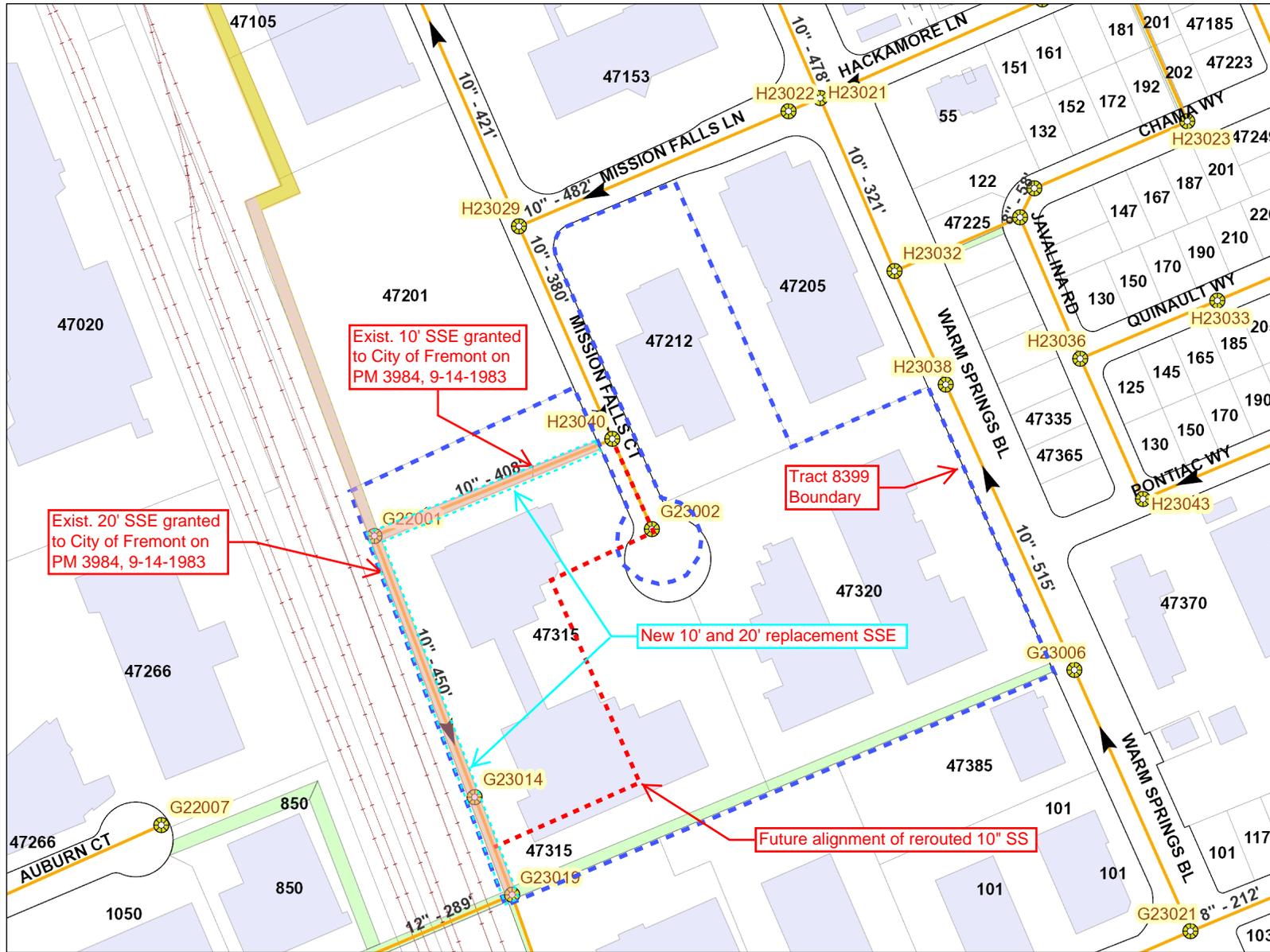
District staff has reviewed the legal description and plat map of the easement, as well as the Grant of Easement, and recommends approval.

PRE/RA/RS:dl

Attachments: Vicinity Map  
Resolution  
Grant of Easement with Exhibits A and B



# Vicinity Map, Grant of Sanitary Sewer Easement, Mission Falls Ct., Fremont



### Legend

**Sewer Manholes**

- Drop manhole
- End Cap
- Forcemain access
- Forcemain air release
- Forcemain blow off
- Junction structure
- Lamphole
- Lift station
- Manhole
- Pump Station
- Riser

**Sewer Mains**

- <all other values>
- EBDA outfall
- Forcemain
- Gravity main
- Overflow main
- Siphons
- Trunk Main

**Railroad / BART**

- <all other values>
- BART

**Other**

- Public Right of Way
- Private Right of Way
- Existing Buildings



Printed: 8/27/2018 10:00 AM

**For USD use only**

The information on this map is provided by Union Sanitary District (USD) for internal use only. Such information is derived from multiple sources which may not be current, be outside the control of USD, and may be of indeterminate accuracy. The information provided hereon may be inaccurate or out of date and any person or entity who relies on said information for any purpose whatsoever does so solely at their own risk.

Notes

**PTS 9565**  
**TR 8399**

**RESOLUTION NO. \_\_\_\_\_**

**ACCEPT A SANITARY SEWER EASEMENT FOR  
TRACT 8399 – MISSION FALLS,  
LOCATED ON MISSION FALLS COURT AT MISSION FALLS LANE,  
IN THE CITY OF FREMONT, CALIFORNIA**

RESOLVED by the Board of Directors of UNION SANITARY DISTRICT, that it hereby accepts the Grant of Easement from Arroyo Cap V, LLC, executed on August 15, 2018, as described in the Grant of Easement for Sanitary Sewer Purposes and by the legal description and plat map, attached Exhibit A and Exhibit B, respectively.

FURTHER RESOLVED by the Board of Directors of UNION SANITARY DISTRICT that it hereby authorizes the General Manager/District Engineer, or his designee, to attend to the recordation thereof.

On motion duly made and seconded, this resolution was adopted by the following vote on September 10, 2018:

AYES:

NOES:

ABSENT:

ABSTAIN:

---

ANJALI LATHI  
President, Board of Directors  
Union Sanitary District

Attest:

---

JENNIFER TOY  
Secretary, Board of Directors  
Union Sanitary District

**GRANT OF EASEMENT**

**FOR SANITARY SEWER PURPOSES**

THIS INDENTURE, made this 15<sup>th</sup> day of August 2018, by and between ARROYO CAP V, LLC, the Party/~~Parties~~ of the First Part, and UNION SANITARY DISTRICT, the Party of the Second Part,

**WITNESSETH:**

That said Party/~~Parties~~ of the First Part does hereby grant to the Party of the Second Part and to its successors and assigns forever, for the use and purposes herein stated, the rights of way and easements hereinafter described, located in the city of Fremont, county of Alameda, state of California:

**See Exhibit "A" and Exhibit "B"**

together with the right and privilege of constructing, reconstructing, cleaning, repairing and maintaining at any time, a sanitary sewer and appurtenances along, upon, over, in, through and across the above described property; together with free ingress and egress to and for the said Party of the Second Part, its successors and assigns, its agents and employees, workmen, contractors, equipment, vehicles and tools, along, upon, over, in, through and across said right of way; together with the right of access by its successors and assigns, its agents and employees, workmen, contractors, equipment, vehicles and tools to said right of way from the nearest public street, over and across the adjoining property, if such there be; otherwise by such route or routes across said adjoining property as shall occasion the least practicable damage and inconvenience to the Party/~~Parties~~ of the First Part, for constructing, cleaning, repairing and maintaining said sanitary sewer and appurtenances; together with free ingress and egress over the land immediately adjoining for maintenance, repair and replacement as well as the initial construction of said sewer.

IN WITNESS WHEREOF the said Party/~~Parties~~ of the First Part have executed this indenture the day and year first above written.

  
\_\_\_\_\_  
**Signature**  
Jeffrey B. Brouelette  
Executive Vice President

By: \_\_\_\_\_  
(Print or type name and title of signatory)  
**ARROYO CAP V, LLC**

(Notarize)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California )
County of LOS ANGELES )

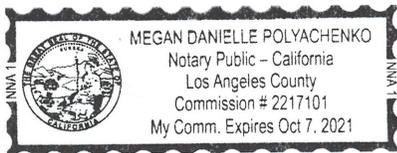
On 15 AUGUST 2018 before me, MEGAN DANIELLE POLYACHENKO (A NOTARY PUBLIC)
Date Here Insert Name and Title of the Officer

personally appeared JEFFREY BRIAN BROUETTE
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Handwritten Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: GRANT OF EASEMENT
Document Date:
Number of Pages:
Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name:
Signer's Name:
[ ] Corporate Officer - Title(s):
[ ] Partner - [ ] Limited [ ] General
[ ] Individual [ ] Attorney in Fact
[ ] Trustee [ ] Guardian or Conservator
[ ] Other:
Signer Is Representing:

**EXHIBIT A  
LEGAL DESCRIPTION  
SANITARY SEWER EASEMENT  
ADJUSTED PARCEL 4, CERTIFICATE OF COMPLIANCE, DN 2016321237  
FREMONT, CALIFORNIA**

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF  
FREMONT, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF ADJUSTED PARCEL 4, AS SAID ADJUSTED PARCEL 4 IS  
DESCRIBED IN THE CERTIFICATE OF COMPLIANCE, RECORDED DECEMBER 9, 2016,  
AS DOCUMENT NO. 2016321237, IN THE OFFICE OF THE COUNTY RECORDER OF  
ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEING A PORTION OF THAT CERTAIN TEN (10) AND TWENTY (20) FOOT WIDE  
SANITARY SEWER EASEMENT SHOWN AND SO DESIGNATED ON PARCEL MAP NO.  
3984, RECORDED SEPTEMBER 14, 1983, IN BOOK 141 OF MAPS, AT PAGE 14, IN  
SAID OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE  
PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT A POINT ON THE SOUTHWESTERLY LINE OF MISSION FALLS  
COURT, SAID POINT BEING THE CORNER COMMON TO ADJUSTED PARCEL 3 AND  
ADJUSTED PARCEL 4 IN SAID CERTIFICATE OF COMPLIANCE (DN 2016321237);

THENCE, FROM SAID **POINT OF COMMENCEMENT**, ALONG SAID SOUTHWESTERLY LINE  
OF MISSION FALLS COURT, SOUTH 24°34'58" EAST 96.39 FEET, TO THE **POINT  
OF BEGINNING** FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, CONTINUING ALONG SAID  
SOUTHWESTERLY LINE, SOUTH 24°34'58" EAST 10.00 FEET;

THENCE, LEAVING SAID SOUTHWESTERLY LINE, SOUTH 65°25'00" WEST 375.94  
FEET;

THENCE, SOUTH 21°27'02" EAST 631.59 FEET, TO THE EXTERIOR LINE OF SAID  
ADJUSTED PARCEL 4 (DN 2016321237);

THENCE, ALONG SAID EXTERIOR LINE, THE FOLLOWING TWO (2) COURSES:

- 1) SOUTH 65°47'30" WEST 20.02 FEET,
- 2) NORTH 21°27'02" WEST 641.47 FEET,

THENCE, LEAVING SAID EXTERIOR LINE, NORTH 65°25'02" EAST 395.42 FEET  
TO SAID **POINT OF BEGINNING**.

CONTAINING 16,587 SQUARE FEET OR 0.38 ACRES OF LAND, MORE OR LESS.

ATTACHED HERETO IS EXHIBIT B, A PLAT TO ACCOMPANY LEGAL DESCRIPTION,  
AND BY THIS REFERENCE MADE A PART HEREOF.

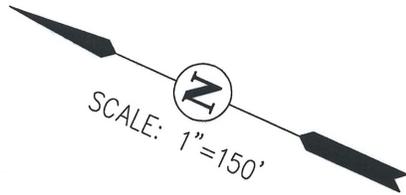
END OF DESCRIPTION



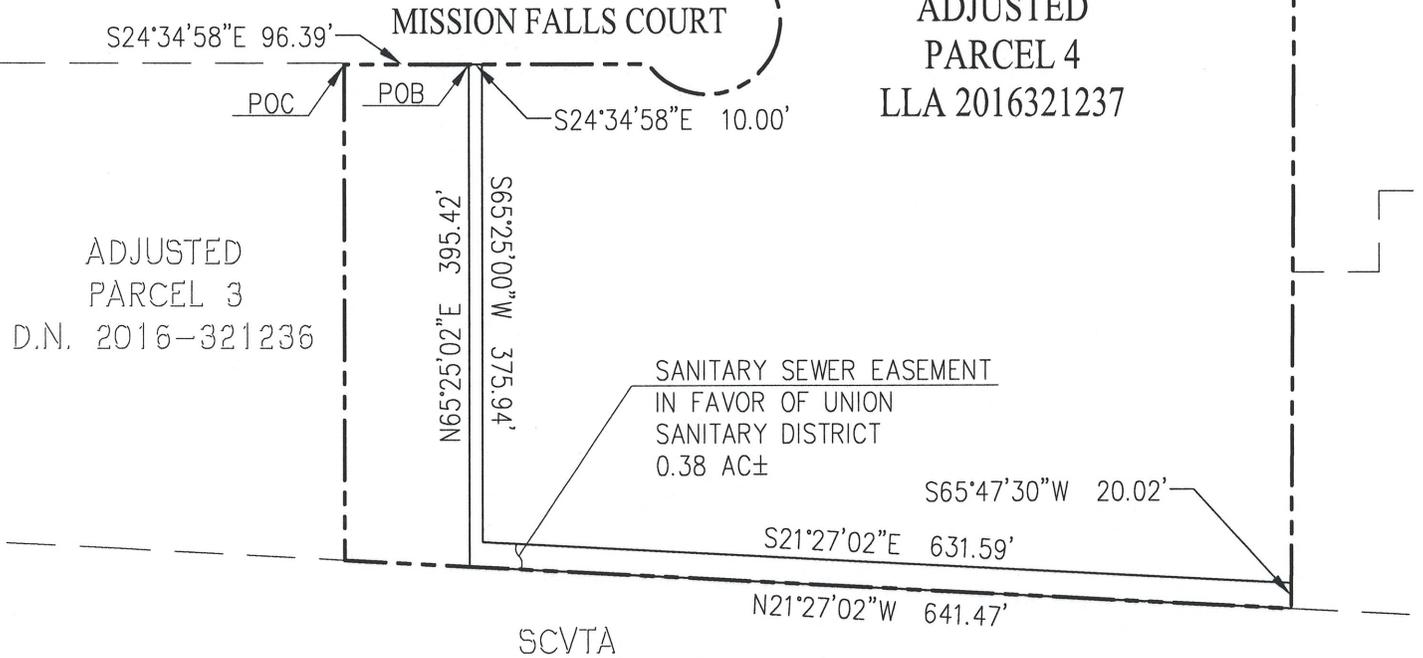
  
\_\_\_\_\_  
JOEL GARCIA, P.L.S.  
L.S. NO. 5285

08-07-2018

PARCEL 5  
141 M 18



ADJUSTED  
PARCEL 4  
LLA 2016321237



LEGEND

POB = POINT OF BEGINNING  
POC = POINT OF COMMENCEMENT

EXHIBIT B  
PLAT TO ACCOMPANY LEGAL DESCRIPTION

SANITARY SEWER EASEMENT  
ADJUSTED PARCEL 4 (PORTION)  
(DN 2016.321237)  
FREMONT, CALIFORNIA  
AUGUST 7, 2018

SHEET 1 OF 1

**Carlson, Barbee & Gibson, Inc.**

CIVIL ENGINEERS • SURVEYORS • PLANNERS  
SAN RAMON • (925) 866 - 0322  
WEST SACRAMENTO • (916) 375 - 1877



**Directors**

Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**Officers**

Paul R. Eldredge  
*General Manager/  
District Engineer*

Karen W. Murphy  
*Attorney*

**DATE:** September 4, 2018

**MEMO TO:** Board of Directors - Union Sanitary District

**FROM:** Paul R. Eldredge, General Manager/District Engineer  
Karen W. Murphy, General Counsel

**SUBJECT:** Agenda Item No. 11 - Meeting of September 10, 2018  
**Consider Recommendation on the East Bay Dischargers Authority (EBDA) JPA Negotiations from the Ad Hoc Committee**

**Recommendation**

Staff recommends that the Board consider the recommendation of the ad hoc committee on the EBDA JPA negotiations and provide direction to the General Manager to set forth the Board's direction in writing to EBDA.

**Background**

The East Bay Dischargers Authority ("EBDA") is a Joint Powers Authority of which Union Sanitary District is currently a member. EBDA was formed in 1974 by a "Joint Exercise of Powers Agreement" (the "JPA Agreement") entered into by the City of Hayward, City of San Leandro, Oro Loma Sanitary District, Union Sanitary District, and Castro Valley Sanitary District. EBDA currently provides a transport system and outfall to collect effluent from six (6) wastewater treatment plants in the East Bay, including two non-member agencies (DSRSD and Livermore, collectively LAVWMA). EBDA transports treated wastewater and removes chlorine prior to its discharge through a deep-water outfall to the San Francisco Bay.

The JPA Agreement has been amended three times since its creation in 1974. Amendments were approved in 1978, 1986, and 2007. As the current JPA Agreement is set to expire in January of 2020, discussions and negotiations have been taking place over the last few years to develop deal points and a framework for a renewed agreement.

At the regularly scheduled Board meeting of March 26, 2018, the USD Board of Directors reviewed the hydraulic model prepared by EBDA and provided direction on the JPA Agreement negotiations to staff. The Board directed staff to maintain the current USD capacity in the EBDA system and directed that any cost allocation / system capacity modifications in any revised JPA Agreement should be cost neutral for USD.

At the June 25, 2018, Board meeting, the USD Board of Directors considered a five-year extension of the JPA and directed staff to pursue that option. Since that time, it has become clear that a five-year extension would not be agreeable to all the member agencies.

At the August 13, 2018, Board meeting, the USD Board of Directors created an ad hoc committee on EBDA JPA negotiations and appointed Director Tom Handley and Secretary Jennifer Toy to the committee.

## **Discussion**

The ad hoc committee on EBDA JPA negotiations has met and evaluated options to proceed with the JPA negotiations.

As mentioned above, the initial direction of the USD Board on March 26, 2018, was that any modifications to the EBDA JPA agreement be cost neutral to USD, since USD intends to maintain its current capacity in the system. However, other agencies intend to reduce their capacity and have maintained that their costs should decrease accordingly. All cost models prepared to date have USD bearing the bulk of the extra costs associated with the reduction of capacity by other members agencies. Multiple models have been utilized thus far in an attempt to allocate those costs, but none have resulted in a distribution that USD believes is equitable. However, USD recognizes there is some benefit to the JPA membership remaining intact and it further recognizes that it is equitable for USD to pay a portion of the costs associated with the reduction of capacity by other member agencies. Therefore, the ad hoc committee recommends a simplified approach where USD would agree to make an additional, agreed upon payment annually. The ad hoc committee recommends that USD propose the following payment options to the EBDA JPA members:

### **Option 1**

- \$100,000 annual payment

### **Option 2**

- \$200,000 annual payment
- The following changes in the governance structure:
  - USD would have two seats on the EBDA Board, with the EBDA Board membership remaining at 5.
  - An amendment that requires that those decision points that currently require unanimity be amended to require only a 4/5ths vote to the extent allowed by law.

Regarding other terms of the JPA, the ad hoc committee recommends that the Board agree to a 20-year term. In addition, the ad hoc committee recommends that the Board provide direction to negotiate terms regarding: (1) an escape clause, which would allow member agencies to leave EBDA; (2) a spending cap; and (3) a penalty provision if a member agency exceeds its flows. While these terms are acceptable in concept, the specific language and details need to be discussed.

After direction from the Board, the General Manager would set forth the recommended direction in writing to EBDA and continue the current EBDA JPA negotiations.



**Directors**

Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**Officers**

Paul R. Eldredge  
*General Manager/  
District Engineer*

Karen W. Murphy  
*Attorney*

**DATE:** September 4, 2018

**MEMO TO:** Board of Directors - Union Sanitary District

**FROM:** Karen W. Murphy, General Counsel

**SUBJECT:** Agenda Item No. 12 - Meeting of September 10, 2018  
**Designate and Appoint Two Board Representatives to Ad Hoc Subcommittee on General Manager Contract Negotiations**

**Recommendation**

It is recommended that the Board designate and appoint two representatives to an ad hoc subcommittee on the General Manager's contract negotiations.

**Background**

The Amended and Restated Employment Agreement between the Union Sanitary District and Paul R. Eldredge to serve as General Manager and District Engineer, dated October 23, 2017, provides that the Board will review the General Manager's compensation annually. This agenda item requests that the Board designate two Board members to serve as the Board's representatives for contract review and compensation negotiations with the General Manager.



**Directors**

Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**Officers**

Paul R. Eldredge  
*General Manager/  
District Engineer*

Karen W. Murphy  
*Attorney*

**DATE:** August 9, 2018

**MEMO TO:** Board of Directors - Union Sanitary District

**FROM:** Paul R. Eldredge, General Manager/District Engineer  
Armando Lopez, Manager, Treatment and Disposal Services  
Tim Grillo, Coach, Research and Support Team

**SUBJECT:** Agenda Item No. 13 - Meeting of September 10, 2018  
Information Item: **Annual Report to Union City Fiscal Year 2017**

**Recommendation**

Information only.

**Background**

Union City Use Permit UP-4-95 requires the District to submit a report annually to the City Manager's Office. The purpose of the report is to:

1. Document the existing wastewater treatment plant flow
2. Provide a projection of the plant flow for the following year
3. Review compliance with effluent discharge limits
4. Provide a status report on progress made in the development of any new treatment facilities outside of the Union City limits.

A copy of the District's annual report to Union City for FY 2018 is attached for review.



**Directors**  
Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

**Officers**  
Paul R. Eldredge, P.E.  
*General Manager*  
*District Engineer*

Karen W. Murphy  
*Attorney*

September 4, 2018

Mr. Tony Acosta  
City Manager, City of Union City  
34009 Alvarado-Niles Road  
Union City, CA 94587

**SUBJECT: SUBMISSION OF ANNUAL REPORT FOR UNION SANITARY DISTRICT FOR FISCAL YEAR 2018**

Dear Mr. Acosta,

Pursuant to Union City Use Permit (UP-4-95), Union Sanitary District hereby submits its Annual Report for Fiscal Year 2018.

**Introduction**

The Union City Planning Commission approved Use Permit No. UP-4-95 on July 20j, 1995 that allowed for the expansion of the Union Sanitary District (USD) Alvarado Wastewater Treatment Plant from a capacity of 35 million gallons per day (MGD) to 38 MGD. The Use Permit requires the District to submit an annual report to the City Manager's office documenting the current wastewater flow received at the Alvarado Treatment Plant, a projection of flows for the next year, the current discharge limits imposed by the Regional Water Quality Control Board (RWQCB), and a status report on progress made toward development of any new facilities outside of Union City limits (Condition 9).

A second condition (Condition 6) requiring an annual operations audit by an independent expert was eliminated by mutual agreement of USD's General Manager, Richard Currie, and Union City's City Manager, Larry Cheeves, in January 2005 following more than 10 years of perfect NPDES permit compliance.

**Background**

Union Sanitary District, founded in 1918, collects and treats wastewater from the communities of Union City, Newark, and Fremont, California. The District owns

5072 Benson Road Union City, CA 94587-2508  
P.O. Box 5050 Union City, CA 94587-8550  
(510) 477-7500 FAX (510) 477-7505  
[www.unionsanitary.com](http://www.unionsanitary.com)

and operates a wastewater treatment plant located in Union City. Treated effluent is discharged through the Easy Bay Dischargers Authority (EBDA) outfall into San Francisco Bay. A portion of the effluent is diverted to Hayward Marsh from the EBDA force main as a beneficial use of reclaimed wastewater.

The Alvarado Wastewater Treatment Facility was completed in 1981 and was originally rated for a design flow of 19.7 MGD. A Plant Expansion Project increased treatment capacity in 1985 and further modifications were made in 1993. The firm reliable treatment capacity of 33 MGD was confirmed in 1997. Construction to renew and replace aging equipment is a continual and ongoing process.

**Current Wastewater Flow**

The following is a summary of the average dry weather flow (ADWF) and annual average daily flow (AADF) for recent fiscal years. The Alvarado Treatment Facility is permitted to treat an ADWF flow of 33 MGD under the current National Pollution Discharge Elimination System (NPDES) permit. The ADWF is defined as the average flow during the summer months of May through September. The AADF is defined as the annual average daily flow throughout the fiscal year including both wet and dry seasons.

Fiscal Year	ADWF Permitted by NPDES, MGD	Actual ADWF, MGD	Actual AADF, MGD
2014	33	24.1	23.5
2015	33	22.6	22.9
2016	33	21.9	22.8
2017	33	22.7	24.4
2018	33	24.0	24.0

During FY18, an average effluent flow of 3.1 MGD was reused at the Hayward Shoreline Marsh.

**Projected Wastewater Flow**

The annual average daily flow (AADF) decreased in FY18 due to a decrease in rainfall from the prior year. However, the ADWF increased largely due to an increase in residential construction.

We predict a flow of approximately 24.0 MGD for both the ADWF and AADF in FY19.

Though it is difficult to predict precipitation for FY 19. We expect the dry weather flow to increase in accordance with the trend seen over the last three fiscal years.

### **Discharge Compliance and Permit Limits**

The regional board reissued the NPDES permit for EBDA in 2017. The NPDES permit includes an effluent limit for ammonia at the combined final effluent discharged to the San Francisco bay. It is currently easy to comply with this limit. However, we anticipate that future changes to the ammonia limit could require substantial improvement to the treatment plant for nutrient removal.

While the flows to the treatment plant have increased marginally in recent years, the increase in the mass loading of conventional pollutants and ammonia has been more pronounced. The District is completing a capacity assessment study to determine actions necessary to maintain permit compliance in the future as the load of conventional pollutants and ammonia increase. That study should be finalized by September 2018. Results from this are likely to result in the modification of some treatment plant equipment.

There were no violations of the EBDA NPDES permit in FY18. Union Sanitary District was recognized by the National Association of Clean Water Agencies (NACWA) under their Peak Performance Award program for the 25<sup>th</sup> consecutive year. In 2018, Union Sanitary District received a ninth Platinum award from NACWA which is conferred for maintaining perfect compliance with the NPDES permit for 5 consecutive years.

### **Development of Facilities Outside Union City**

The District has no plans for construction of additional treatment outside the City of Union City.

If you have any questions or need additional information, please contact me at (510)477-7517 for email at [armandol@unionsanitary.ca.gov](mailto:armandol@unionsanitary.ca.gov).

Armando Lopez  
Manager, Treatment & Disposal



**Summary of the EBDA Commission Meeting  
Thursday, August 16, 2018, at 9:30 a.m.**

Prepared by: P. Eldredge

- Commissioners Johnson, Cutter, Handley, Becker, and Peixoto were present.
- The Consent Calendar was approved unanimously and included the Commission Meeting Minutes, List of Disbursements, and Treasurer's Report.
- The Commission unanimously approved the reports from the Managers Advisory, Financial Management, Regulatory Affairs, and Operations & Maintenance committees. The following items were discussed:
- **General Managers Report** - The General Manager noted that she attended the CASA conference along with Commissioners Becker and Johnson and Chair Handley. There was a lapse in EBDA's membership due to the fee structure. The General Manager thanked the Commission for their support in re-engaging EBDA in CASA.
- **Manager's Advisory Committee** met with the General Manager on August 15, 2018. The General Manager stated that the MAC discussed the key tenets for the next nutrients watershed permit and the position EBDA will take in negotiating permit terms as part of BACWA.
- **Financial Management Committee** met with the General Manager on August 15, 2018, and discussed the upcoming financial audit in October and subsequent report-out scheduled for November. The General Manager also explained that LAVWMA has paid off their EBDA buy-in loan and that final one-time payments related to the payoff will be remitted to the member agencies soon. The General Manager noted a correction to one of the tables in the budget that outlines expected fees for each member agency.
- **Regulatory Affairs Committee** - In addition to nutrients, the Committee discussed agency wetlands projects and the Water Board's process to revise its Wetlands Policy.
- **Operations and Maintenance (O&M) Committee** - The O&M Manager reported out on the status of EBDA facilities including the HEPS MCC project, the AEPS Pump Cavitation project, and the SCADA Upgrade. He answered questions regarding the status of electrical subcontractors on the HEPS MCC project. The Commission expressed appreciation for the graphics included in the packet.

- **Resolution Authorizing the General Manager to Enter Into a Contract with GHD in the amount of \$45,010 for Asset Advisory Services**

The General Manager explained that the Asset Management Plan is due for a comprehensive review, which will likely consist of two phases – Phase 1 to review and update the existing plan and documentation, and Phase 2 to make it more dynamic and provide recommendations and strategic enhancements. The resolution is for Phase 1.

Commissioner Peixoto moved to approve the resolution. The motion was seconded by Commissioner Johnson and carried unanimously, 5-0.

Ayes: Commissioners Johnson, Cutter, Peixoto, Becker, and Chair Handley  
Noes: None  
Absent: None  
Abstain: None

- **Resolution Authorizing the General Manager to Issue a Purchase Order to Calcon Systems, Inc. in the Amount not to Exceed \$42,720 for the Professional Services Required to Implement the SCADA System and PLC Upgrade for the Hayward Effluent Pump Station Motor Control Center Replacement Project**

The O&M Manager presented information pertaining to the Calcon scope for HEPS and MCC Replacement projects. There was also a discussion regarding backups to the SCADA system.

Commissioner Cutter moved to approve the resolution. The motion was seconded by Commissioner Becker, and approved unanimously, 5-0.

Ayes: Commissioners Johnson, Cutter, Peixoto, Becker, and Chair Handley  
Noes: None  
Absent: None  
Abstain: None

- **Resolution Allowing the Administrative Assistant to Run Negative Sick and Vacation Leave Balances**

The General Manager explained that the Administrative Assistant's leave balances will soon be exhausted. Due to EBDA's small size, the agency does not have a leave donation program as in larger organizations. This negative balance approach provides an alternative means for the Administrative Assistant to continue working part time while undergoing medical treatment. The Administrative Assistant will begin accruing sick leave and vacation balances once she is back to work full time. The General Manager mentioned that the topic is a case by case evaluation and clarified that this item will apply to the current fiscal year.

Commissioner Cutter moved to approve the resolution. The motion was seconded by Commissioner Peixoto, and approved unanimously, 5-0.

Ayes: Commissioners Johnson, Cutter, Peixoto, Becker, and Chair Handley

Noes: None  
Absent: None  
Abstain: None

- **Resolution Establishing Policy for Committee Alternates**

The General Manager explained that due to busy schedules, it would be beneficial to have standing Committee Alternates to ensure back-up attendance in the event of a schedule conflict, as suggested by Chair Handley. The Chair has historically been the automatic alternate for committees. If the alternate cannot attend, attendance will default to the Chair. A form for preferences will be routed to the Commissioners. The alternate schedule will begin with the October meetings. In subsequent years, the alternate will be part of the Committee selection process.

Commissioner Becker moved to approve the resolution. The motion was seconded by Commissioner Johnson, and approved, 5-0.

Ayes: Commissioners Johnson, Cutter, Becker, Peixoto and Chair Handley  
Noes: None  
Absent: None  
Abstain: None

- **Items from the Commission and Staff**

Commissioner Becker noted that the calculation of dues will be discussed at an upcoming CASA Board Meeting. Chair Handley mentioned that he will take the tour of the EBDA facilities on Monday, August 20th, and invited the meeting participants to attend.

**UNION SANITARY DISTRICT  
CHECK REGISTER  
08/18/2018-08/31/2018**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168746	8/23/2018	110	170120180810	PACIFIC GAS AND ELECTRIC	SERV TO 07/19/2018 PLANT	\$556,743.53	\$556,743.53
168717	8/23/2018	110	3110	EAST BAY DISCHARGERS AUTHORITY	O&M ASSESSMENT, JUL-SEP 2018	\$338,406.58	\$338,406.58
168796	8/30/2018		16646	LOOKINGPOINT INC	VMWARE DELL R AND R	\$195,418.20	\$195,418.20
168702	8/23/2018	143	11322711	BROWN & CALDWELL CONSULTANTS	PRIMARY DIGESTER NO. 7	\$169,863.02	\$169,863.02
168754	8/23/2018	110	30104957	SYNAGRO WEST LLC	JUNE 2018 BIOSOLIDS DISPOSAL	\$71,471.00	\$71,471.00
168821	8/30/2018	143	153067	WOODARD & CURRAN INC	HEADWORKS SCREEN NO. 3	\$22,486.33	\$39,974.27
	8/30/2018	143	153155		NEWARK BASIN MASTER PLAN/PACP UPDATE	\$17,487.94	
168756	8/23/2018	143	218100	TANNER PACIFIC INC	PROJ: FORCE MAIN CORROSION REPAIR - PHASE 2	\$13,435.25	\$29,624.00
	8/23/2018	141	218099		PROJ: TWIN FORCE MAIN RELOCATION - PHASE 1	\$16,188.75	
168759	8/23/2018	110	893143	UNIVAR USA INC	4399.2 GALS SODIUM HYPOCHLORITE	\$3,157.11	\$23,001.35
	8/23/2018	110	893027		4700.4 GALS SODIUM HYPOCHLORITE	\$3,373.27	
	8/23/2018	110	893510		4800.8 GALS SODIUM HYPOCHLORITE	\$3,445.32	
	8/23/2018	110	893928		3899.9 GALS SODIUM HYPOCHLORITE	\$2,798.78	
	8/23/2018	110	894286		4899.1 GALS SODIUM HYPOCHLORITE	\$3,515.86	
	8/23/2018	110	894150		4649.7 GALS SODIUM HYPOCHLORITE	\$3,336.88	
	8/23/2018	110	894485		4701.6 GALS SODIUM HYPOCHLORITE	\$3,374.13	
168712	8/23/2018	123	17813023440	CORIX WATER PRODUCTS INC	45 MANHOLE CASTINGS	\$14,766.88	\$14,766.88

**UNION SANITARY DISTRICT  
CHECK REGISTER  
08/18/2018-08/31/2018**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168725	8/23/2018		11062490	HACH COMPANY	LAB\PLANT OPERATIONS DATA MANAGEMENT SYSTEM (ODMS)	\$13,290.00	\$13,799.09
	8/23/2018		11073326		2 PACKS CHLORINE REAGENT	\$509.09	
168745	8/23/2018	122	42972	OWEN EQUIPMENT SALES	REPAIRS FOAMER TRUCK	\$844.58	\$12,209.51
	8/23/2018	122	42967		REPAIRS FOAMER TRUCK	\$11,364.93	
168779	8/30/2018		169483	CAROLLO ENGINEERS	DIGESTER NO. 3 INSP & REHAB	\$4,615.38	\$11,582.53
	8/30/2018		169195		PLANT SOLIDS SYSTEM/CAPACITY ASSESSMENT	\$519.02	
	8/30/2018	143	169444		PLANT ASSET CONDITION ASSESSMENT UPDATE	\$6,448.13	
168705	8/23/2018		33627	CALIFORNIA WATER TECHNOLOGIES	44,000 LBS FERROUS CHLORIDE	\$5,721.49	\$10,460.25
	8/23/2018		33589		38,560 LBS FERROUS CHLORIDE	\$4,738.76	
168737	8/23/2018		28327	MB CONTRACT FURNITURE INC	CENTERVILLE CONFERENCE ROOM TABLES	\$8,637.22	\$8,637.22
168782	8/30/2018	131	305006	COMTEL SYSTEMS TECHNOLOGY	ADMIN SERVER ROOM DOOR LOCK & SOFTWARE EXPANSION	\$8,628.87	\$8,628.87
168707	8/23/2018	131	818113224	CB PACIFIC INC	LONGWATCH INTRUSION DETECTION AT BOYCE	\$7,578.76	\$7,578.76
168692	8/23/2018	172	196185	ADVANCED CHEMICAL TRANSPORT	HAZARDOUS MATERIAL MANAGEMENT	\$4,760.09	\$7,512.48
	8/23/2018	172	195824		HAZARDOUS MATERIAL MANAGEMENT	\$360.16	
	8/23/2018	172	195955		HAZARDOUS MATERIAL MANAGEMENT	\$2,392.23	
168704	8/23/2018	150	229805	BURKE, WILLIAMS & SORENSON LLP	EBDA - JUNE 2018	\$1,048.32	\$7,098.74
	8/23/2018	150	229804		GENERAL LEGAL - JUNE 2018	\$6,050.42	

**UNION SANITARY DISTRICT  
CHECK REGISTER  
08/18/2018-08/31/2018**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168719	8/23/2018		1121029	ENTHALPY ANALYTICAL LLC	56 LAB SAMPLE ANALYSIS	\$3,545.00	\$7,075.00
	8/23/2018		1120768		21 LAB SAMPLE ANALYSIS	\$1,100.00	
	8/23/2018		1121410		22 LAB SAMPLE ANALYSIS	\$2,055.00	
	8/23/2018	113	1121633		10 LAB SAMPLE ANALYSIS	\$375.00	
168815	8/30/2018	110	895810	UNIVAR USA INC	4897.5 GALS SODIUM HYPOCHLORITE	\$3,514.72	\$6,888.27
	8/30/2018	110	895329		4700.8 GALS SODIUM HYPOCHLORITE	\$3,373.55	
168797	8/30/2018	123	6061	MALONE CONTROLS CORPORATION	HVAC - UPGRADES	\$6,847.50	\$6,847.50
168799	8/30/2018		9750.1	MEDRANO ELECTRIC INC	REFUND # 21322	\$5,000.00	\$6,180.00
	8/30/2018	120	9750		REFUND # 21323	\$1,180.00	
168694	8/23/2018	123	180702097	AIRTECH MECHANICAL INC	SERVICE CALL: BLDG 70 CONTROL BUILDING	\$2,963.16	\$5,618.16
	8/23/2018	170	180702082		HVAC QUARTERLY MAINT BLDGS 53,63,67,68,74,76,77,78,79,80,81,90	\$1,008.75	
	8/23/2018	123	180702076		HVAC QUARTERLY MAINTENANCE BLDGS 70, 82, 83	\$1,646.25	
168714	8/23/2018	170	312777	DEL CONTE'S LANDSCAPING INC	WEED ABATEMENT WORK AUGUST 2018	\$2,765.00	\$5,140.00
	8/23/2018	170	40278		WEED ABATEMENT WORK AUGUST 2018	\$970.00	
	8/23/2018	122	40279		LANDSCAPE MAINTENANCE SERVICES - AUGUST 2018	\$1,405.00	
168777	8/30/2018		33651	CALIFORNIA WATER TECHNOLOGIES	40,300 LBS FERROUS CHLORIDE	\$4,982.88	\$4,982.88
168800	8/30/2018	171	40492506	MICRO MOTION INC	SLUDGE TRANSFER FLOW METER	\$4,892.46	\$4,892.46

**UNION SANITARY DISTRICT  
CHECK REGISTER  
08/18/2018-08/31/2018**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168701	8/23/2018		862538	BRENNTAG PACIFIC, INC.	3846 LBS SODIUM HYDROXIDE	\$1,039.94	\$4,161.98
	8/23/2018	121	861486		2564 LBS SODIUM HYDROXIDE	\$695.90	
	8/23/2018		861488		5128 LBS SODIUM HYDROXIDE	\$1,385.46	
	8/23/2018		861489		1282 LBS SODIUM HYDROXIDE	\$347.95	
	8/23/2018	121	861487		2564 LBS SODIUM HYDROXIDE	\$692.73	
168764	8/23/2018	170	4753	WORKSMART AUTOMATION INC	SCADA SUPPORT SERVICES	\$725.00	\$4,065.50
	8/23/2018	143	4752		ON-SITE PROGRAMMING SERVICES	\$3,340.50	
168785	8/30/2018		1122134	ENTHALPY ANALYTICAL LLC	50 LAB SAMPLE ANALYSIS	\$2,310.00	\$3,985.00
	8/30/2018		1122133		28 LAB SAMPLE ANALYSIS	\$1,575.00	
	8/30/2018	113	1122515		2 LAB SAMPLE ANALYSIS	\$100.00	
168792	8/30/2018	144	9	STEPHANIE HUGHES, CHE P.E.	HUGHES CONSULTING SERVICES	\$3,874.50	\$3,874.50
168808	8/30/2018	110	18080715	S&S TRUCKING	GRIT HAULING 07/17/2018 & 07/19/2018	\$1,566.55	\$3,783.47
	8/30/2018	110	18080640		GRIT HAULING 07/31/2018	\$750.00	
	8/30/2018	110	18080611		GRIT HAULING 07/24/2018 & 07/26/2018	\$1,466.92	
168762	8/23/2018	121	41446	WECO INDUSTRIES LLC	CAMERA REPAIRS	\$333.10	\$2,852.88
	8/23/2018	121	41441		CAMERA REPAIRS	\$1,269.02	
	8/23/2018	121	41442		CAMERA REPAIRS	\$1,250.76	

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Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168761	8/23/2018	113	8083127128	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$398.96	\$2,716.70
	8/23/2018	113	8083202486		LAB SUPPLIES	\$42.71	
	8/23/2018		8083151768		LAB SUPPLIES	\$357.37	
	8/23/2018		8083161998		LAB SUPPLIES	\$75.53	
	8/23/2018	113	8083133811		LAB SUPPLIES	\$234.68	
	8/23/2018	113	8083141628		LAB SUPPLIES	\$67.70	
	8/23/2018	113	8083133812		LAB SUPPLIES	\$50.67	
	8/23/2018		8083151769		LAB SUPPLIES	\$83.98	
	8/23/2018		8083133813		LAB SUPPLIES	\$1,405.10	
168724	8/23/2018	170	9847236834	GRAINGER INC	1 PISTOL GRIP GREASE GUN	\$61.96	\$2,665.60
	8/23/2018	170	9849094447		1 PUMP & ASTD PARTS & MATERIALS	\$193.72	
	8/23/2018	170	9850173874		1 UTILITY LID	\$28.32	
	8/23/2018		9847426377		4 YELLOW VESTS	\$22.48	
	8/23/2018	122	9847745073		1 REAR VIEW CAMERA KIT	\$260.77	
	8/23/2018	170	9851871310		1 MANUAL CHAIN HOIST	\$470.05	
	8/23/2018		9849579066		1 PACK ABSORBENT PADS	\$44.45	
	8/23/2018		9849233565		ASTD PARTS & MATERIALS	\$1,583.85	
168691	8/23/2018	121	68096	3T EQUIPMENT COMPANY INC	(4) SIX WIRE NOZZLE EXTENSIONS	\$273.29	\$2,582.43
	8/23/2018	121	68094		1-1" PIRANAH SEWER HOSE	\$2,309.14	

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168816	8/30/2018		9813173856	VERIZON WIRELESS	WIRELESS SERV 07/21/2018 - 08/20/2018	\$2,513.92	\$2,513.92
168749	8/23/2018		8971	PULTE HOME CORPORATION	REFUND # 20858	\$2,500.00	\$2,500.00
168804	8/30/2018		9815	RESCUE RESPONSE GROUP INC	REFUND # 21318	\$2,500.00	\$2,500.00
168783	8/30/2018		20180823	DOUGLAS DATTAWALKER	TUITION REIMB - SUMMER 2018	\$2,494.78	\$2,494.78
168744	8/23/2018		5553	OJO TECHNOLOGY INC	FRONT DRIVEWAY CAMERAS	\$2,095.44	\$2,095.44
168711	8/23/2018	170	20180728	COMMUNICATION & CONTROL INC	UTILITY FEE/ANTENNA RENTAL X 2 MTHS	\$2,026.42	\$2,026.42
168720	8/23/2018		Y418264	ENVIROSIM ASSOCIATES LTD	BIOWIN ANNUAL LICENSE RENEWAL	\$2,000.00	\$2,000.00
168781	8/30/2018		68295528	COMCAST OF CALIFORNIA,	FIBER INTERNET BACKUP - AUGUST 2018	\$1,999.38	\$1,999.38
168771	8/30/2018		11742347	AT&T	SERV: 07/10/18 - 08/09/18	\$1,996.04	\$1,996.04
168766	8/30/2018	170	180802102	AIRTECH MECHANICAL INC	SERVICE CALL: BLDG 68 MINTENANCE	\$1,978.43	\$1,978.43
168734	8/23/2018	123	37406	LMK TECHNOLOGIES LLC	ASTD PARTS & MATERIALS	\$1,895.76	\$1,895.76
168721	8/23/2018	173	2017291	FARALLON GEOGRAPHICS INC	PLANT GIS MIGRATION TO GEOCORTEX	\$1,877.50	\$1,877.50
168698	8/23/2018	170	148323	BABBITT BEARING CO INC	CERAMIC COATING OF DRIVE SHAFT	\$878.00	\$1,757.88
	8/23/2018	170	148322		CERAMIC COAT MOYNO SLEEVE WAREHOUSE	\$879.88	
168760	8/23/2018	123	8960	VON EUW TRUCKING	48.77 TONS 3/4" CL II AB	\$1,686.05	\$1,686.05
168730	8/23/2018	141	ADPZ933	IRON MOUNTAIN	OFF-SITE STORAGE AND SERVICE - JULY 2018	\$819.15	\$1,462.60
	8/23/2018	141	ADNU950		OFF-SITE STORAGE AND SERVICE - JULY 2018	\$338.53	
	8/23/2018	173	201662487		DATA/MEDIA OFF-SITE STORAGE - JULY 2018	\$304.92	
168696	8/23/2018	121	11160	AMERICAN DISCOUNT SECURITY	07/02/18 - 07/31/18 GUARD AT DISTRICT GATE	\$1,449.00	\$1,449.00

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168820	8/30/2018	143	2035858	WEST YOST ASSOCIATES	3RD SLUDGE DEGRITTER SYSTEM	\$787.50	\$1,379.25
	8/30/2018	143	2035810		HYPO TANKS AND PIPING REPLACEMENT	\$381.00	
	8/30/2018	143	2035848		FORCE MAIN CORROSION REPAIRS - PHASE 2	\$210.75	
168776	8/30/2018		229803	BURKE, WILLIAMS & SORENSON LLP	CIP - JUNE 2018	\$1,375.92	\$1,375.92
168718	8/23/2018		20180821	PAUL ELDREDGE	EXP REIMB: SF MEAL/MILEAGE/PARKING/CASA LODGING & PER DIEM	\$1,368.15	\$1,368.15
168751	8/23/2018	170	355168	RKI INSTRUMENTS INC	(10) FILTERS	\$82.31	\$1,317.00
	8/23/2018	170	354692		(10) BATTERIES	\$740.81	
	8/23/2018	170	354691		(40) C BATTERIES / (10) 12V BATTERIES	\$493.88	
168755	8/23/2018	173	174995	SYN-TECH SYSTEMS INC	ANNUAL MAINTENANCE FOR FUELMASTER	\$1,275.00	\$1,275.00
168735	8/23/2018	173	16557	LOOKINGPOINT INC	ANNUAL PHONE AND NETWORK SUPPORT	\$1,225.00	\$1,225.00
168818	8/30/2018		8083275644	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$1,182.28	\$1,182.28
168738	8/23/2018	121	70457650	MCMASTER SUPPLY INC	2 STEEL GROUND PROBING RODS	\$84.05	\$1,121.66
	8/23/2018		71238261		ASTD PARTS & MATERIALS	\$969.45	
	8/23/2018	170	70457651		4 BRASS PIPE FITTINGS	\$68.16	
168703	8/23/2018		97378	BRUCE BARTON PUMP SERVICE INC	1 SUMP PUMP	\$1,114.51	\$1,114.51
168709	8/23/2018	122	54K128970	CINTAS CORPORATION NO. 2	ASTD DUST MOPS, WET MOPS & TERRY TOWEL	\$17.22	\$1,105.85
	8/23/2018		54K128971		UNIFORM LAUNDERING & RUGS	\$244.12	
	8/23/2018		54K128969		UNIFORM LAUNDERING SERVICE	\$844.51	
168741	8/23/2018	170	24040736	MOTION INDUSTRIES INC	ASTD NUTS AND BOLTS	\$1,094.42	\$1,094.42

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168765	8/23/2018		4809	ZELAYA DESIGNS	PUBLIC OUTREACH	\$1,065.00	\$1,065.00
168742	8/23/2018	123	130410	MUNICIPAL MAINT EQUIPMENT INC	1 NOZZLE	\$1,062.63	\$1,062.63
168733	8/23/2018	120	9797.1	LIL ROOTER	REFUND # 21306	\$500.00	\$1,000.00
	8/23/2018		9797		REFUND # 21305	\$500.00	
168802	8/30/2018	111	820143138	RED WING BUS ADVANTAGE ACCT	SAFETY SHOES: M. FULKERSON	\$199.62	\$980.90
	8/30/2018	171	820143731		SAFETY SHOES: M. TATAKAMOTONGA	\$191.73	
	8/30/2018	143	169151043		SAFETY SHOES: T. LAM	\$186.56	
	8/30/2018	123	820143095		SAFETY SHOES: A. TARNOWSKI	\$208.00	
	8/30/2018	123	820143732		SAFETY SHOES: F. CUOTO	\$194.99	
168789	8/30/2018	170	93962873	H & E EQUIPMENT SERVICES INC	LIFT RENTAL 7/31/18	\$977.95	\$977.95
168752	8/23/2018	143	26293	RMC WATER AND ENVIRONMENT	HEADWORKS SCREEN NO. 3	\$976.50	\$976.50
168747	8/23/2018	141	20180822	MICHELLE POWELL	EXP REIMB: LODGING, PER DIEM, MILEAGE - CASA CONF 2018 MONTEF	\$809.53	\$809.53
168819	8/30/2018	121	41614	WECO INDUSTRIES LLC	SMALL TRUCK/CAMERA REPAIRS & PARTS	\$788.33	\$788.33
168790	8/30/2018	123	1930350	HANSON AGGREGATES INC	10.02 TONS 1/2 MED TYPE A AC-R	\$774.47	\$774.47
168723	8/23/2018		10183	FREMONT EXPRESS COURIER SVC	COURIER SVCS: JULY 2018 DAILY MAIL/1 BOARDMEMBER DELIVERY	\$770.00	\$770.00
168693	8/23/2018		9955399236	AIRGAS NCN	CYLINDER RENTAL	\$694.92	\$694.92
168806	8/30/2018	170	65614	ROCHESTER MIDLAND CORPORATION	HOT WATER LOOP SERVICE	\$687.46	\$687.46
168732	8/23/2018	132	1464539	LIEBERT CASSIDY WHITMORE	LEGAL SERVICES - CALPER AUDIT- UNIFORMS	\$675.00	\$675.00
168772	8/30/2018		2522129379	BANK OF NEW YORK	JULY 2018 SERVICE FEES	\$663.77	\$663.77

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Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168787	8/30/2018		1841084102	GOODYEAR COMM TIRE & SERV CTRS	4 TIRES	\$636.88	\$636.88
168716	8/23/2018	173	400573	DLT SOLUTIONS, LLC	AWS CLOUD STORAGE - JUNE 2018	\$633.81	\$633.81
168726	8/23/2018	123	1925471	HANSON AGGREGATES INC	7.97 TONS 1/2 MED TYPE A AC-R	\$617.70	\$617.70
168739	8/23/2018	170	180848	METROMOBILE COMMUNICATIONS INC	ANNUAL RADIO SERVICE - AUGUST 2018	\$599.08	\$599.08
168801	8/30/2018		8474335	OVIVO USA LLC	ASTD CLARIFIER PARTS	\$457.90	\$587.61
	8/30/2018		8474334		CLARIFIER PARTS	\$129.71	
168798	8/30/2018	170	71506279	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	\$160.83	\$579.09
	8/30/2018	123	71506280		2 PAIR METAL SCISSORS	\$99.45	
	8/30/2018	122	71632338		ASTD PARTS & MATERIALS	\$104.10	
	8/30/2018	122	71238262		10 PLASTIC WASTE CONTAINERS	\$117.42	
	8/30/2018	170	71409678		ASTD TIE-DOWN RINGS	\$97.29	
168743	8/23/2018		196557	NAYLOR STEEL INC	ASTD PARTS & MATERIALS	\$563.28	\$563.28
168778	8/30/2018		21583945	CARBOLINE COMPANY	6 GAL PAINT	\$543.85	\$543.85
168812	8/30/2018		1864681002	SAN LEANDRO ELECTRIC SUPPLY	ASTD ELECTRICAL SUPPLIES	\$513.16	\$513.16
168757	8/23/2018		1065956880	TPX COMMUNICATIONS	WIRELESS INTERNET BACKUP - AUGUST	\$505.97	\$505.97
168769	8/30/2018		8724	ALLSTAR PLUMBING	REFUND # 21309	\$500.00	\$500.00
168795	8/30/2018		9627	ANIL KESWANI	REFUND # 21311	\$500.00	\$500.00
168807	8/30/2018		9690	ROOTER HERO	REFUND # 21312	\$500.00	\$500.00
168817	8/30/2018		9709	GORDON VRDOLJAK	REFUND # 21317	\$500.00	\$500.00

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Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168822	8/30/2018		8735	YANSCAPE DESIGN	REFUND # 21310	\$500.00	\$500.00
168805	8/30/2018	170	355582	RKI INSTRUMENTS INC	5 OXYGEN SENSORS	\$493.88	\$493.88
168758	8/23/2018	122	123979	TRI-SIGNAL INTEGRATION INC	FIRE PROTECTION SERVICE - MONTHLY CHARGE MONITORING AGREE	\$133.33	\$483.33
	8/23/2018	122	123980		FIRE PROTECTION SERVICE - UL CERTIFICATE	\$350.00	
168774	8/30/2018	130	12816670	BLAISDELL'S	1 TONER	\$172.34	\$443.20
	8/30/2018		12807520		1 PHRASE DATER STAMP	\$35.11	
	8/30/2018	170	12811010		ASTD OFFICE SUPPLIES	\$68.96	
	8/30/2018	111	12797090		ASTD OFFICE SUPPLIES	\$166.79	
168710	8/23/2018	150	69071	CITYLEAF INC	PLANT MAINTENANCE - AUGUST 2018	\$431.86	\$431.86
168780	8/30/2018		54K130227	CINTAS CORPORATION NO. 2	UNIFORM LAUNDERING SERVICE	\$215.01	\$422.24
	8/30/2018		54K130228		ASTD DUST MOPS, WET MOPS & TERRY TOWEL	\$17.22	
	8/30/2018		54K130229		UNIFORM LAUNDERING & RUGS	\$190.01	
168768	8/30/2018	170	5190324	ALL INDUSTRIAL ELECTRIC SUPPLY	ASTD PARTS & MATERIALS	\$411.56	\$411.56
168794	8/30/2018	170	545829	INSTRUMART	1 RECLAIM PH PROBE I572103	\$398.54	\$398.54
168740	8/23/2018		26632	MISSION CLAY PRODUCTS LLC	CREDIT FOR COUPLINGS ON INV 680083	\$-139.84	\$365.08
	8/23/2018	123	680084		2 BOXES CLAY FITTINGS	\$117.74	
	8/23/2018		691651		4 CLAY COUPLINGS	\$387.18	
168748	8/23/2018		141586	PREFERRED ALLIANCE INC	JULY 2018 SERVICE FEE	\$360.96	\$360.96
168706	8/23/2018		588103	CALTEST ANALYTICAL LABORATORY	4 LAB SAMPLE ANALYSIS	\$349.20	\$349.20

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168784	8/30/2018		20180829	DMV RENEWAL	TITLE TRANSFER FEES - TRAILER	\$339.00	\$339.00
168793	8/30/2018	113	3035054945	IDEXX DISTRIBUTION INC	FECAL COLIFORM TEST KITS	\$155.55	\$324.69
	8/30/2018	113	3035054928		1 CASE VESSELS	\$169.14	
168775	8/30/2018	136	20180824	Laurie Brenner	EXP REIMB: FAST TEAM RECOGNITION	\$308.31	\$308.31
168811	8/30/2018		1864681001	SAN LEANDRO ELECTRIC SUPPLY	ASTD ELECTRICAL SUPPLIES	\$294.11	\$294.11
168809	8/30/2018	170	85340220180822	SAN FRANCISCO WATER DEPT	SERVICE 07/24/2018 TO 08/21/2018	\$258.63	\$258.63
168791	8/30/2018	170	3M5053	HARRINGTON INDUSTRIAL PLASTICS	ASTD PVC PARTS & MATERIALS	\$84.78	\$212.38
	8/30/2018	170	3M5182		ASTD PVC FITTINGS	\$127.60	
168786	8/30/2018	113	1000519035	ENVIRONMENTAL EXPRESS	ASTD LAB SUPPLIES	\$211.75	\$211.75
168773	8/30/2018		21538200	BECK'S SHOES	SAFETY SHOES: J. SALDANA	\$208.00	\$208.00
168753	8/23/2018	121	20180820	JOEL SALDANA	EXP REIMB: CWEA COLL SERV GRADE 2 CERT EXAM	\$180.00	\$180.00
168722	8/23/2018		4788892	FISHER SCIENTIFIC	3 SPIGOT QUICK ACTION PP/TFE	\$178.28	\$178.28
168810	8/30/2018		1865530002	SAN LEANDRO ELECTRIC SUPPLY	ASTD ELECTRICAL SUPPLIES	\$157.91	\$172.83
	8/30/2018		1866857001		ASTD ELECTRICAL SUPPLIES	\$14.92	
168750	8/23/2018	122	17662	R & S ERECTION OF S ALAMEDA	SERVICE: PM SERVICE ON ALL GATES	\$171.25	\$171.25
168729	8/23/2018	132	23093	ICE SAFETY SOLUTIONS INC	FIRST AID & AED SUPPLIES	\$140.00	\$168.80
	8/23/2018	150	23094		FIRST AID & AED SUPPLIES	\$28.80	
168763	8/23/2018	132	28853	WILEY PRICE & RADULOVICH LLP	LABOR & EMPLOYMENT LAW FEES	\$157.50	\$157.50
168814	8/30/2018	123	180908618	TRENCH PLATE RENTAL COMPANY	5 DAYS TRENCH SHORING EQUIPMENT RENTAL	\$140.85	\$140.85

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Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168713	8/23/2018	123	12863	CUSTOM TOOL REPAIR	ASTD PARTS & MATERIALS	\$140.36	\$140.36
168695	8/23/2018	170	5189448	ALL INDUSTRIAL ELECTRIC SUPPLY	1 BELT DRIVE MOTOR	\$135.41	\$135.41
168731	8/23/2018	143	20180822	THOMAS LAM	EXP REIMB: PE LICENSE RENEWAL	\$115.00	\$115.00
168803	8/30/2018		96154	REMOTE SATELLITE SYSTEMS INT'L	IRIDIUM SVC FEE SEPTEMBER 2018	\$112.00	\$112.00
168788	8/30/2018	170	9858456123	GRAINGER INC	1 FLANGE	\$108.31	\$108.31
168697	8/23/2018	170	638818	A-PRO PEST CONTROL INC	PEST CONTROL - RODENTS	\$90.00	\$90.00
168770	8/30/2018	170	638819	A-PRO PEST CONTROL INC	PEST CONTROL - RODENTS	\$90.00	\$90.00
168727	8/23/2018	170	3M5022	HARRINGTON INDUSTRIAL PLASTICS	10 ASAHI CHEMPROLINE P 1" TEE	\$87.80	\$87.80
168736	8/23/2018	170	77902173	MATHESON TRI-GAS INC	MONTHLY CYLINDER RENTAL - JULY 2018	\$85.32	\$85.32
168700	8/23/2018	130	12797460	BLAISDELL'S	1 RM XEROX PAPER	\$6.14	\$81.67
	8/23/2018		12799870		ASTD OFFICE SUPPLIES	\$75.53	
168813	8/30/2018	132	20180829	KAROLINE TERRAZAS	EXP REIMB: MILEAGE, PARKING - CSRMA SEMINAR	\$76.23	\$76.23
168699	8/23/2018	143	6190285	BAY AREA NEWS GROUP EAST BAY	ADS: MITIGATED NEGATIVE DECLARAION ON EMERGENCY OUTFALL P	\$66.69	\$66.69
168715	8/23/2018		615320180820	DISH NETWORK	SEP 2018 - SERVICE FEE	\$60.90	\$60.90
168708	8/23/2018	113	453638	CHEMETRICS INC	IRON TEST KIT	\$59.44	\$59.44
168728	8/23/2018	122	5789674	HOSE & FITTINGS ETC	ASTD PARTS & MATERIALS	\$36.38	\$36.38
168767	8/30/2018		8122768080918	ALHAMBRA	BOTTLESS COOLERS RENTAL	\$19.98	\$19.98

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Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt	
<b>Invoices:</b>					<b>Checks:</b>			
			Credit Memos :	1			-139.84	
			\$0 - \$1,000 :	136	\$0 - \$1,000 :	68	26,930.98	
			\$1,000 - \$10,000 :	69	\$1,000 - \$10,000 :	51	165,688.27	
			\$10,000 - \$100,000 :	8	\$10,000 - \$100,000 :	9	226,888.88	
			Over \$100,000 :	4	Over \$100,000 :	4	1,260,431.33	
			<b>Total:</b>	<b>218</b>	<b>Total:</b>	<b>132</b>	<b>1,679,939.46</b>	

# The New York Times

## *Should I Flush It? Most Often, the Answer Is No*



Raking wipes and other waste into a bin for disposal at the Newtown Creek Wastewater Treatment Plant in Brooklyn. Credit Karsten Moran for The New York Times

**By Christina Caron**

- Aug. 25, 2018

It might seem harmless at first: a thread of dental floss tossed in the toilet, a contact lens swirling down the drain of the bathroom sink. But even the tiniest of items can contaminate waterways.

The small fragments of plastic contact lenses are believed to be contributing to the growing problem of microplastic pollution. Pharmaceuticals, which are also frequently flushed down the drain, have been found in our drinking water, and the consequences are not fully known.

Larger products like wipes and tampons are also clogging sewer systems, resulting in billions of dollars in maintenance and repair costs.

Wondering what's safe to flush or wash down the drain? We spoke with several wastewater management experts who explained why many frequently disposed items belong in a garbage can, not the toilet.

## **Disposable wipes**

Many wipes claim on their packaging to be “flushable,” but almost all of them contain rayon or viscose, said Rob Villée, executive director of the Plainfield Area Regional Sewerage Authority in Middlesex, N.J.

“Unfortunately, the natural water bodies these get into do not have the heat or micro-organism levels to effectively degrade these,” he added. “That is why we see rayon accumulating in the oceans.”

While toilet paper will break down in anywhere from a minute to four minutes, wipes take at least six hours to disintegrate, Mr. Villée said.

Furthermore, the pumps at collection systems that move waste downstream to treatment plants cannot tear them apart.

“We see pumps that are designed to pump up to half a million gallons a day clogging,” Mr. Villée said. Now that wipes are used around the world, he added, “it’s a problem internationally.”

## **Dental floss**

Dental floss, which is usually made of nylon or Teflon, should also stay out of the toilet.

“It seems like, ‘Oh, it’s just a little string,’ but it tends to wrap things up,” Mr. Villée said. “It’ll collect other things and make kind of a big wad of stuff. It’s incredibly strong.”

## **Contact lenses**

When contact lenses are flushed down the toilet or washed down the sink, they do not biodegrade easily. As a result, they may make their way into surface water, causing environmental damage, new research has shown.

The lenses are also impervious to the bacteria that break down biological waste at treatment plants. When researchers at Arizona State University submerged contacts in chambers with the bacteria, they found that the lenses appeared intact seven days later.

“We discourage any kind of plastics because it can make its way through a treatment plant and end up in the receiving water,” said Vincent Sapienza, the commissioner of the New York City Department of Environmental Protection.

Contact lenses “have densities similar to water, so they don’t readily float or sink at wastewater treatment plants,” he added, which means they are not captured and removed at the plant.

## **Tampons**

It is often assumed that tampons can be flushed down the toilet, in part because they are so small. But their absorbent materials, including the string, do not break down easily: They cannot be processed by wastewater treatment centers, and can damage septic systems.

Kotex, Playtex and Tampax advise women to throw them away instead.

“It’s best to simply wrap a used tampon in toilet paper and toss it in the garbage or, if you’re in a public washroom, place it in the waste receptacle for feminine hygiene products,” Playtex says on its website.

## **Medications**

Wastewater treatment plants are not designed to filter out pharmaceuticals, so drugs that are disposed of in the toilet or the sink drain end up entering streams, rivers and lakes.

The first major study to document this, conducted by the United States Geological Survey, found low levels of organic wastewater compounds, including prescription and nonprescription drugs and hormones, in 139 streams across the United States during 1999 and 2000. One or more of these chemicals were found in 80 percent of the streams sampled.

A more recent study, which sampled water from 25 drinking-water treatment plants in the United States, found that some pharmaceuticals persisted despite water treatment processes.

The technology that would be required to remove pharmaceuticals from the water at treatment plants is cost-prohibitive, said Ed Gottlieb, the industrial pretreatment coordinator at the Ithaca Area Wastewater Treatment Facility. It is far cheaper to use take-back programs that collect unused medications before they enter the water supply, he added, because those cost only \$2 to \$5 for each pound of medication collected.

During its nationwide take-back event in April, the Drug Enforcement Administration collected 474.5 tons of pharmaceuticals. The next National Prescription Drug Take Back Day is Oct. 27.

“The amount of pounds they collect is phenomenal,” Mr. Gottlieb said. “It’s huge. And yet there are studies done that show only a very small percentage of what’s out there is being collected.”

## **Kitty litter**

Kitty litter will not dissolve in water and can create clogs, even if it is labeled flushable.

Gene Weingarten, a syndicated columnist, described what happened when he flushed a small amount of cat litter down his daughter’s toilet last year.

“Cat litter is a preternaturally absorptive substance, apparently designed to expand to roughly 60,000 times its original volume in some horrible malignant process like cancer, only worse,” he wrote. “Molly’s toilet resembled one of those baking-soda-and-vinegar volcanoes the dumb kids in middle school made every year for science fairs.”

## **Condoms**

Condoms should never be flushed.

“I’ve heard condoms called sewer lilies because they fill with air or gas and float to the top,” said Cynthia Finley, the director of regulatory affairs at the National Association of Clean Water Agencies.

“As a society, I think we’ve become more germophobic,” she said, adding that there is a tendency to want to flush anything that has bodily fluids. But wastewater treatment plants are not designed to handle anything except for human waste and toilet paper, she said.

## **Facial tissues, paper towels and cotton swabs**

Facial tissues might seem safe to flush because they look so much like toilet paper. But unlike toilet paper, facial tissues have been treated with a chemical binder that takes time to release and break apart when flushed, Ms. Finley said.

Likewise, paper towels and cotton swabs are also formulated to stay intact.

## **When in doubt, throw it out (in a trash can)**

If you're not sure, follow a simple rule: If it is not human waste or toilet paper, it should not be disposed of in the toilet, Ms. Finley said.

The cost of both drinking water and wastewater go into a water bill, said Mr. Sapienza, the New York environmental official. When cities have to send crews to unclog sewers or, in worst-case scenarios, replace them, the cost is passed down to everyone who gets a water bill, he added.

"If you define flushable as 'Yes, it will go down the toilet,' then everything here is flushable," Tracy Stevens, a pretreatment technician, says in the video. If you define it as whether it will make it to the treatment plant, she added, some of the waste will and some will not.

More important, the treatment plants are not equipped to process these products.

If hundreds of thousands of people are flushing those items, "they're going to cause trouble," she said.