

MONTECITO SANITARY DISTRICT



2019 ANNUAL SUMMARY REPORT

NPDES No. CA0047899

Order No. R3-2012-0016



Montecito Sanitary District

1042 Monte Cristo Lane
Santa Barbara, CA 93108
General Manager: Diane M. Gabriel, P.E.

A Public Service Agency

PHONE: (805) 969-4200
FAX: (805) 969-9049
E-MAIL: dgabriel@montsan.org

January 30, 2020

California Regional Water Quality Control Board
Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

SUBJECT: NPDES Permit No. CA 0047899
Order No. R3-2012-0016
Annual Summary Report 2019

Staff of the Regional Board:

On February 7, 2018 the District received a letter from the Central Coast RWQCB (RWQCB) notifying the District that the Water Board had administratively extended the expiration date of the District's NPDES permit until such time as the permit is reissued. The letter also informed us that the District's application for renewal was deemed complete on June 9, 2017. Additionally, the District received correspondence from the RWQCB dated January 28, 2020 informing us that a draft of the reissued NPDES permit would likely be issued in the spring of 2021 due to a back log in RWQCB workload.

In accordance with the requirements of the general provisions of the District's NPDES Permit No. CA0047899, which is still in effect and binding, we are pleased to transmit the District's Annual Report for 2019.

The monitoring data compiled throughout the calendar year 2019 is presented in both tabular and graphic form.

The report includes the names and job titles of District personnel, the Governing Board of Directors, and an organizational chart.

Throughout the 2019 calendar year the following treatment operators were employed by the District:

- Daniel Jacquez, Chief Plant Operator, III-28608, exp. date 06/30/2021
- Marco Felix, Operator, V-41171, exp. 11/20/2020
- Marc Ciarlo, Operator, V-41067, exp. date 10/20/2020
- Michael Arce, Operator, III-43612, exp. date 06/22/2021
- Luis Rizo, Operator in Training, exp. date 01/01/2023

Additional Certifications were passed in 2019, by the following staff members:

- Daniel Jacquez, Advanced Water Treatment Operator, No.108, issued 08/26/19
- Marc Ciarlo, Advanced Water Treatment Operator, No. 100, issued 08/12/19
- Marc Ciarlo, Water Distribution Operator D2, No. 52097, issued 11/2019

District staff continues to perform the majority of required analytical tests on-site in the District's ELAP accredited Laboratory. The District's Laboratory Manager, Carole Rollins, holds certification as a Grade 4 Laboratory Analyst; Marc Ciarlo holds certification as a Grade 2 Laboratory Analyst; and Operators Jacquez, Felix, and Arce maintain Grade 1 Laboratory Analyst certifications.

Required annual samples were collected August 7 thru August 12, 2019. The required analyses were performed by Fruit Growers Laboratory, Inc. and their subcontractors. All results were within acceptable limits.

On November 5, 2019, Harbor Offshore Inc. completed the annual inspection of the District's ocean outfall pipeline. The exterior of the outfall pipeline was inspected and videotaped. The full inspection report is being submitted to the Water Board via CIWQS with the Annual Summary Report. The outfall pipeline was found to be in good condition.

The District's Wastewater Treatment Plant Operations and Maintenance Manual was reviewed in December 2019 and it was determined that no updates were necessary.

Comments regarding the District's Collection System Maintenance and Renovation Program, as required by the NPDES permit, are included in this report on pages 23 through 25. Also included on pages 26 through 29 is a brief summary of the history of the District, our accomplishments in recent years, and goals for the future. Please feel free to contact me if you have any questions or desire additional information.

Sincerely,

A handwritten signature in cursive script that reads "Diane Gabriel".

Diane Gabriel, P.E.
General Manager/District Engineer

**Montecito Sanitary District
2019 Annual Report**

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MONTECITO SANITARY DISTRICT

January 2019 – December 2019

GOVERNING BOARD

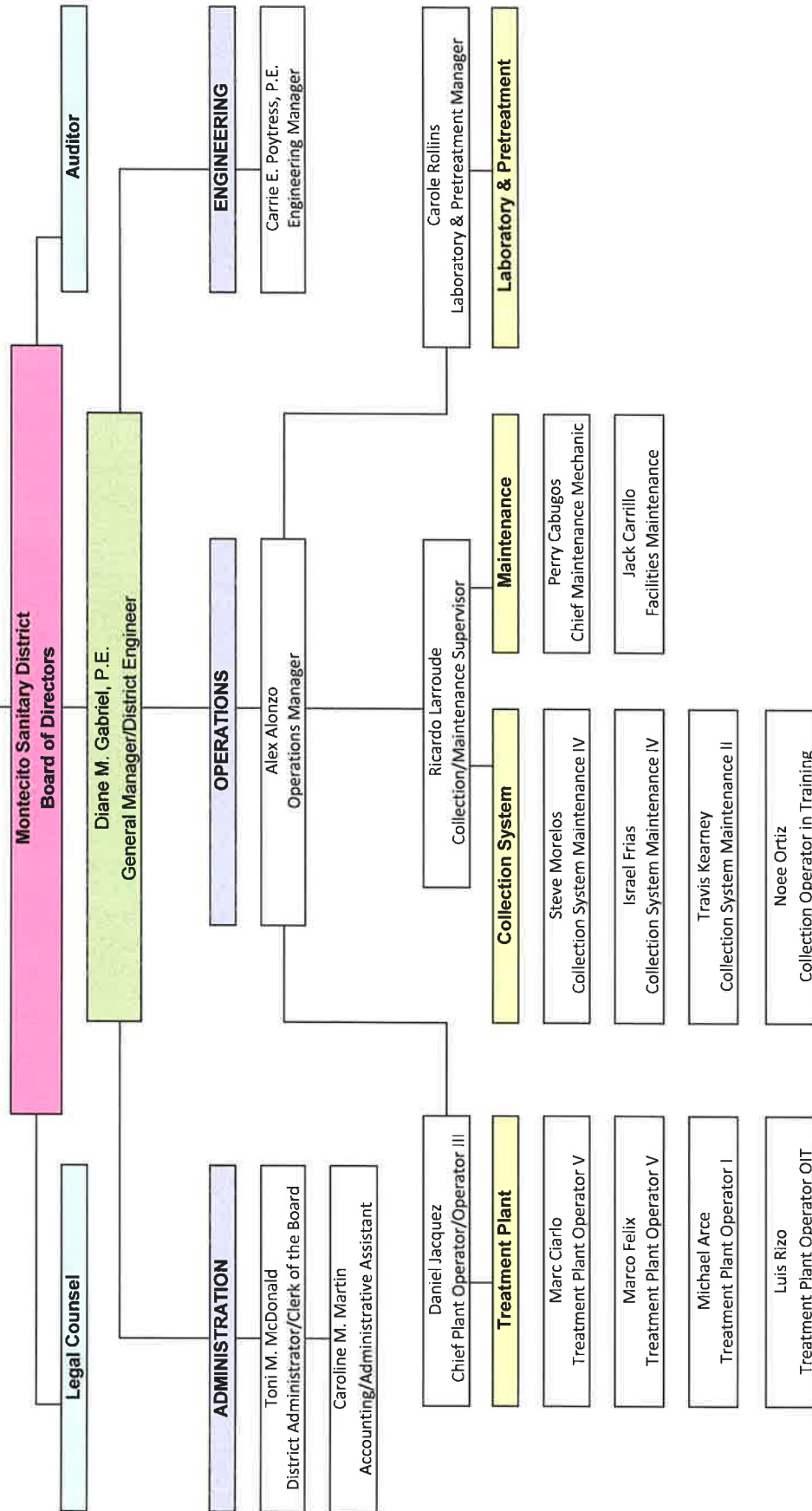
Thomas Bollay	President
Jeff Kerns	Vice President
Tom Kern	Treasurer
Ellwood Barrett II	Secretary
Dana Newquist	Director

January 2019 – December 2019

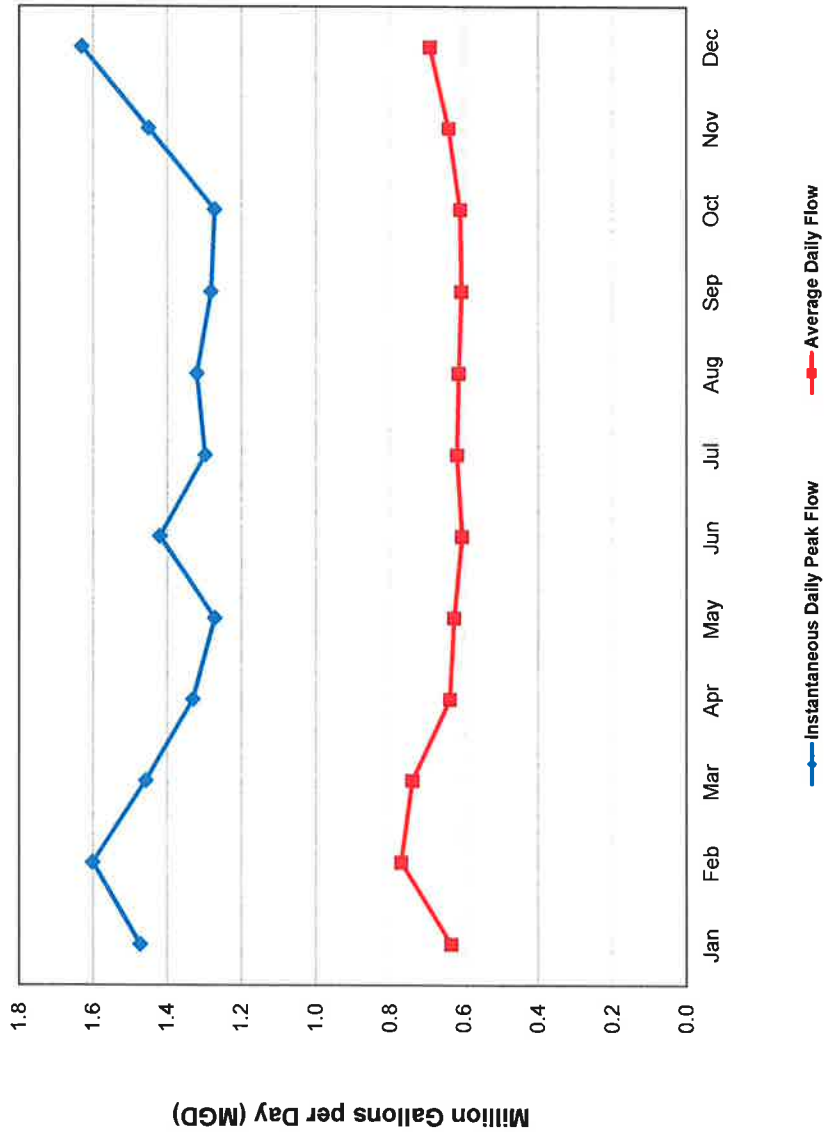
STAFF

Diane M. Gabriel, P.E.	General Manager/District Engineer
Carrie Poytress, P.E.	Engineering Manager
Toni McDonald	District Administrator
Caroline M. Martin	Accounting/Administrative Assistant
Alex Alonzo	Operations Manager
Daniel Jacquez	Chief Plant Operator III
Marco Felix	Treatment Plant Operator V
Marc Ciarlo	Treatment Plant Operator V
Michael Arce	Treatment Plant Operator III
Luis Rizo	Treatment Plant Operator OIT (<i>hired part-time on 12/20/19</i>)
Carole Rollins	Laboratory & Pretreatment Manager
Ricardo Larroude	Collection/Maintenance Supervisor
Perry Cabugos	Chief Maintenance Mechanic
Jack Carrillo	Facilities Maintenance
Steve Morelos	Collection System Maintenance IV
Israel Frias	Collection System Maintenance IV
Alex Valenzuela	Collection System Maintenance III (<i>Resigned 8/18/19</i>)
William "Travis" Kearney	Collection System Maintenance II
Noee Ortiz	Collection Operator in Training (<i>Hired 10/21/19</i>)

Property Owners Within the Montecito Sanitary District

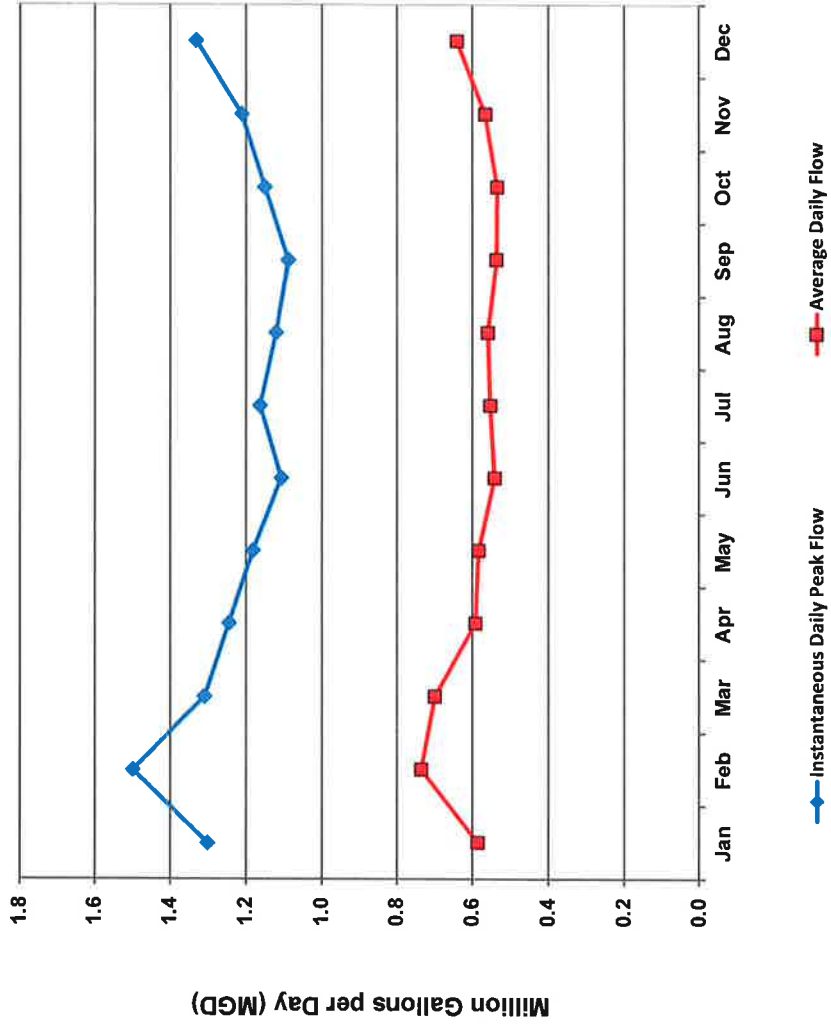


INFLUENT Daily Flow 2019



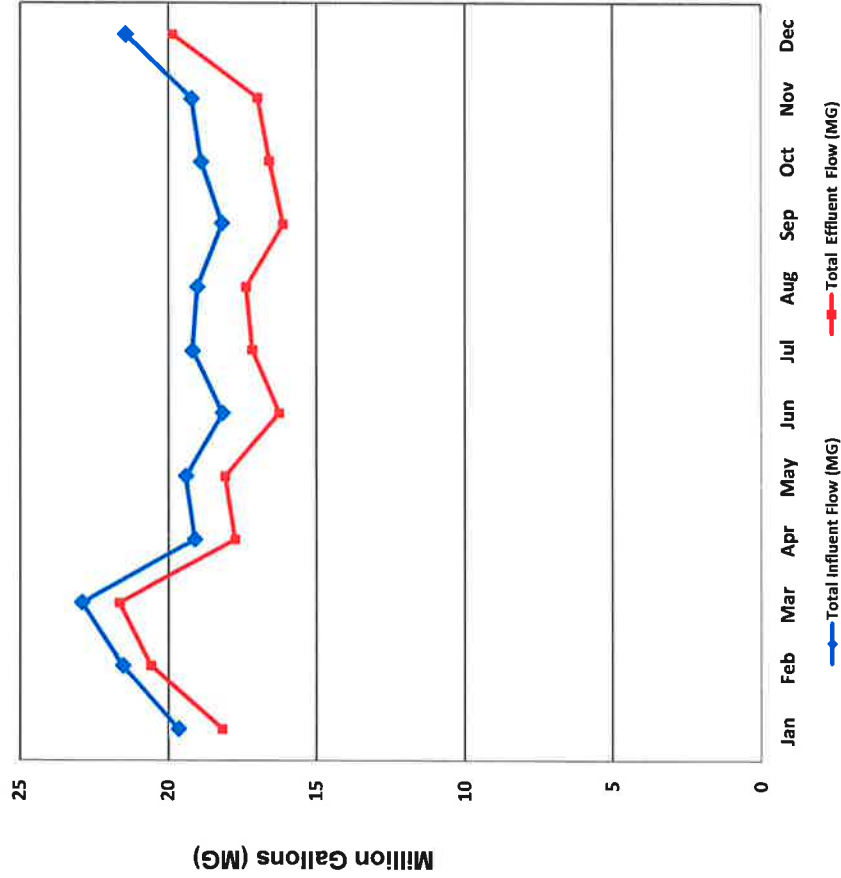
MILLION GALLONS PER DAY (MGD)		
Month	Instant Daily Peak	Average Daily Flow
Jan	1.47	0.634
Feb	1.60	0.769
Mar	1.46	0.739
Apr	1.33	0.637
May	1.27	0.627
Jun	1.42	0.606
Jul	1.30	0.619
Aug	1.32	0.614
Sep	1.28	0.607
Oct	1.27	0.610
Nov	1.45	0.641
Dec	1.63	0.692
Avg	1.40	0.650

EFFLUENT Daily Flow 2019



MILLION GALLONS PER DAY (MGD)		
MONTH	Instant Daily Peak	Average Daily Flow
Jan	1.302	0.586
Feb	1.499	0.735
Mar	1.310	0.699
Apr	1.245	0.591
May	1.183	0.583
Jun	1.108	0.542
Jul	1.164	0.553
Aug	1.122	0.560
Sep	1.089	0.537
Oct	1.151	0.535
Nov	1.212	0.566
Dec	1.332	0.641
AVG	1.226	0.594

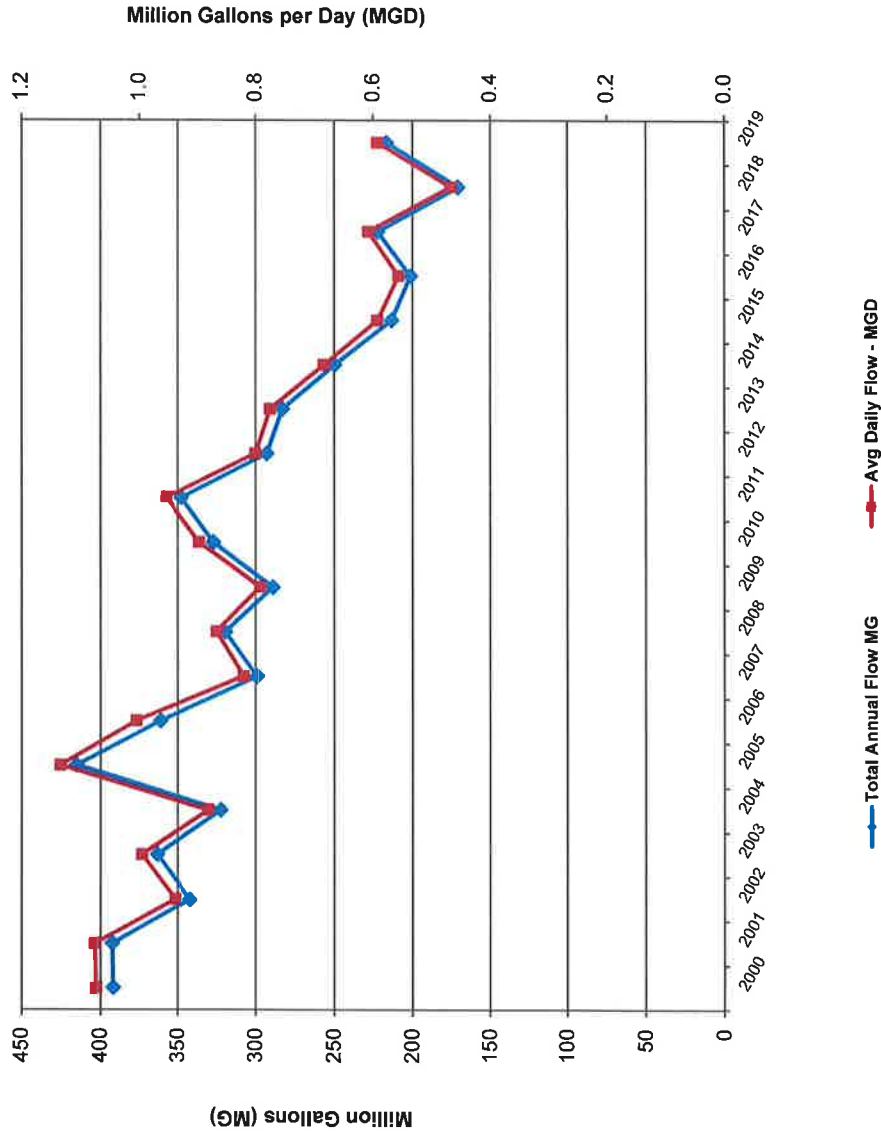
INFLUENT & EFFLUENT Monthly Flows 2019



Month	Total Influent Flow (MG)	Total Effluent Flow (MG)
Jan	19.66	18.18
Feb	21.54	20.59
Mar	22.92	21.66
Apr	19.12	17.74
May	19.42	18.08
Jun	18.18	16.25
Jul	19.20	17.15
Aug	19.04	17.35
Sep	18.20	16.11
Oct	18.91	16.59
Nov	19.23	16.98
Dec	21.45	19.86
Total Annual Flows	236.86	216.54

Note: Influent and Effluent flow differences are due to process recycled flows and process cleaning or maintenance which drains water back to the influent flow.

**Historical Total and Average Daily Effluent Flows
2000 to 2019**

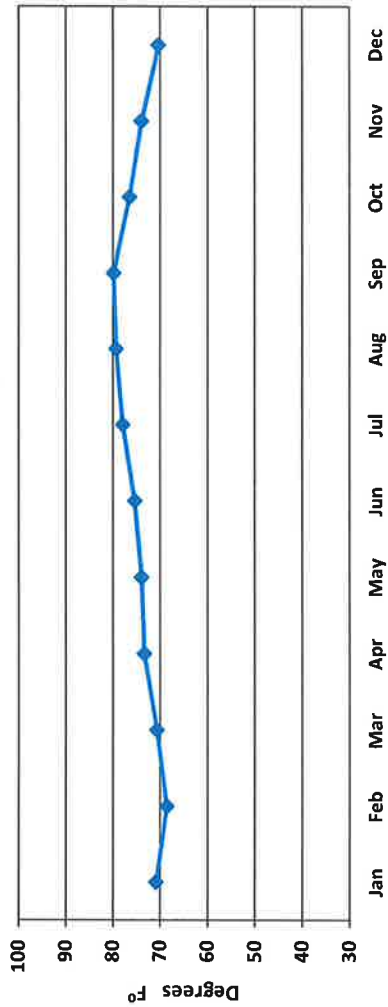


YEAR	Total Annual Flow MG	Avg Daily Flow MGD
2000	392.0	1.074
2001	392.6	1.076
2002	342.2	0.938
2003	363.4	0.996
2004	322.4	0.881
2005	415.3	1.135
2006	361.2	1.005
2007	299.2	0.820
2008	319.5	0.867
2009	289.0	0.792
2010	327.4	0.897
2011	348.0	0.954
2012	292.9	0.800
2013	282.7	0.775
2014	249.6	0.684
2015	213.4	0.593
2016	201.2	0.557
2017	222.1	0.608
2018	170.8	0.468
2019	216.5	0.593

NOTE: Low flows for 2018 correspond to the January 9th Thomas Fire Debris Flow and evacuations of the service area.

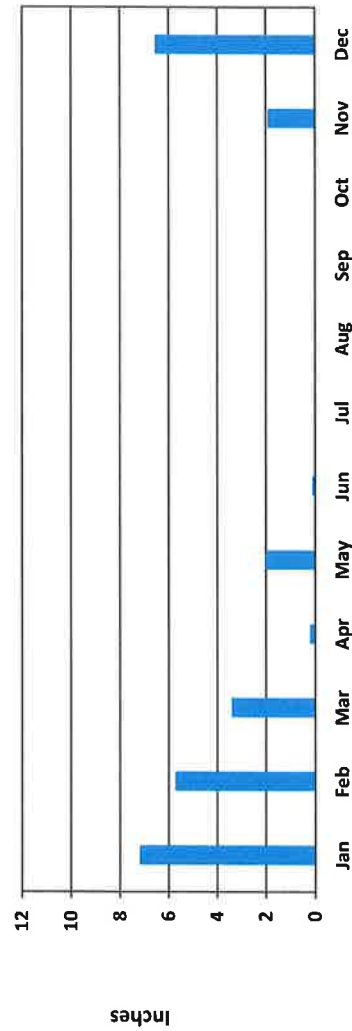
2019

EFFLUENT Highest Monthly Temperatures



Month	High Temp. °F
Jan	70.9
Feb	68.5
Mar	70.7
Apr	73.4
May	73.9
Jun	75.4
Jul	77.9
Aug	79.3
Sep	79.9
Oct	76.5
Nov	73.9
Dec	70.3

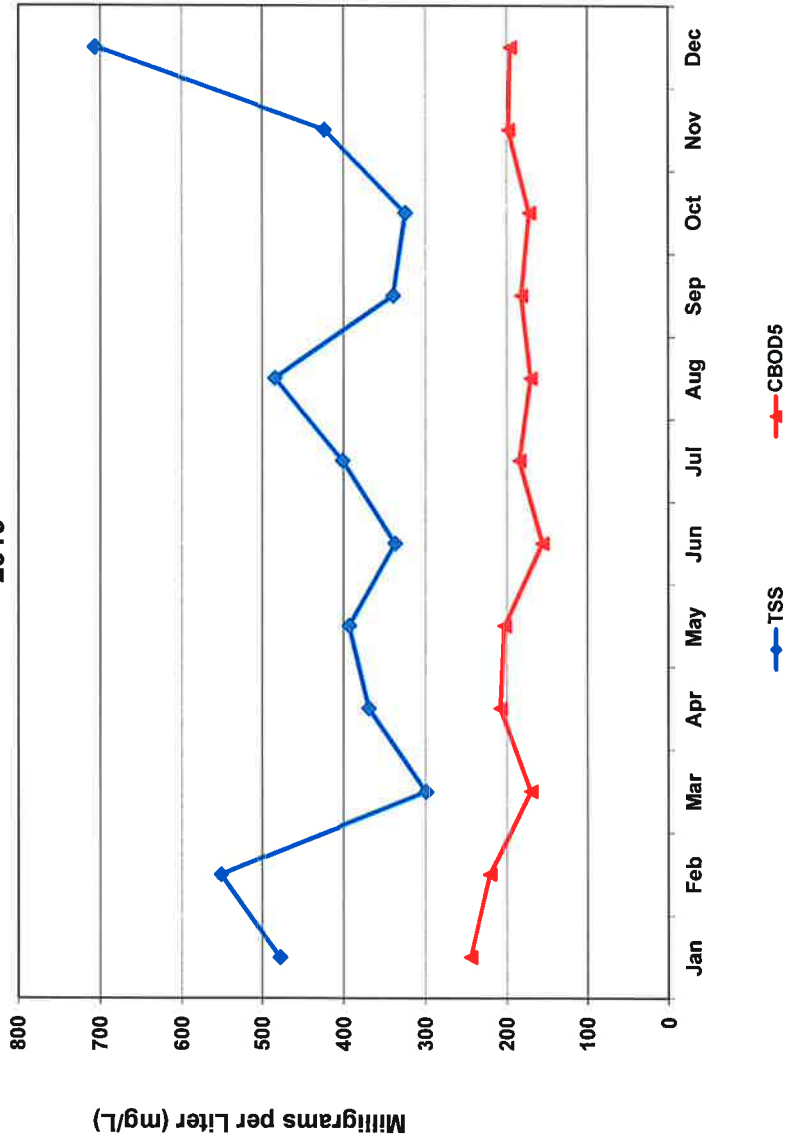
Total Monthly Rainfall



Month	Rainfall Inches
Jan	7.19
Feb	5.73
Mar	3.42
Apr	0.21
May	2.01
Jun	0.12
Jul	0.00
Aug	0.00
Sep	0.00
Oct	0.00
Nov	1.92
Dec	6.55

TOTAL	27.15
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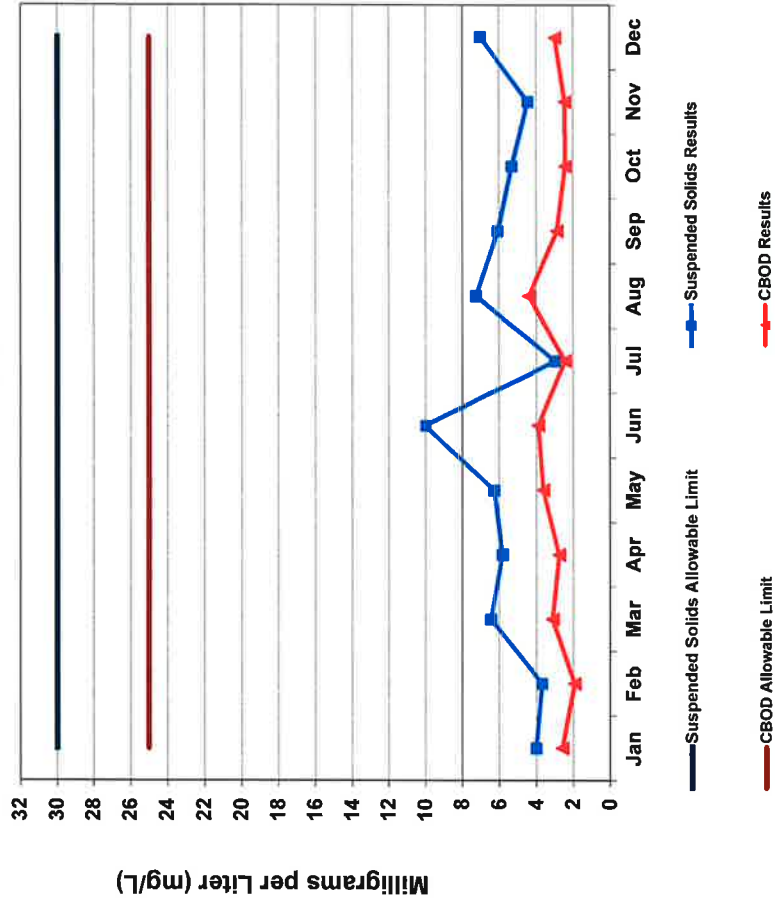
INFLUENT Total Suspended Solids & Carbonaceous Biochemical Oxygen Demand 2019



Month	TSS mg/L	CBOD ₅ mg/L
Jan	478	245
Feb	552	221
Mar	300	170
Apr	370	208
May	394	203
Jun	338	156
Jul	402	185
Aug	485	171
Sep	340	183
Oct	325	172
Nov	424	198
Dec	707	196

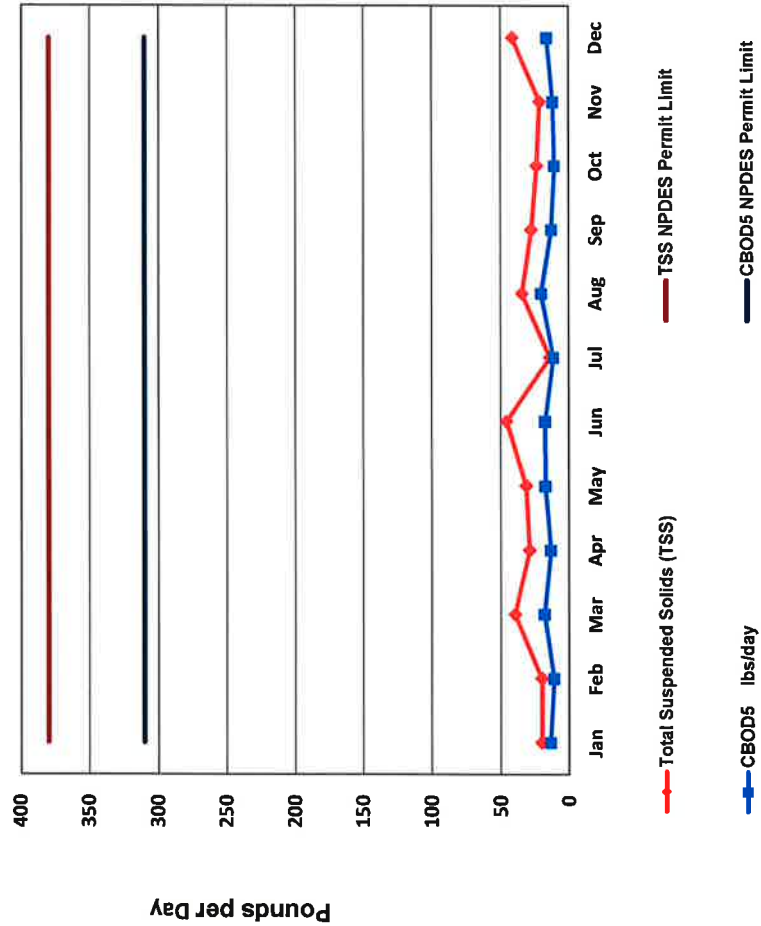
AVG	426	192
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EFFLUENT Total Suspended Solids & Carbonaceous Biochemical Oxygen Demand 2019



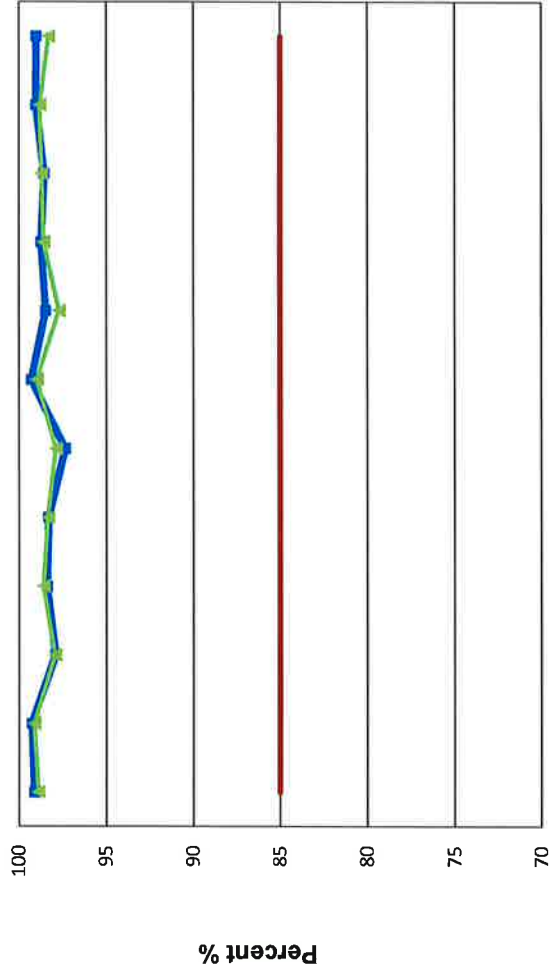
	TSS		CBOD ₅	
	Permit Limit	Results	Permit Limit	Results
	mg/L	mg/L	mg/L	mg/L
Jan	30	4.0	25	2.6
Feb		3.7		1.9
Mar		6.5		3.1
Apr		5.8		2.8
May		6.3		3.6
Jun		10.0		3.9
Jul		3.0		2.4
Aug		7.3		4.4
Sep		6.1		2.9
Oct		5.3		2.4
Nov		4.5		2.4
Dec		7.0		3.0
AVG		5.8		3.0

EFFLUENT Total Suspended Solids & Carbonaceous Biochemical Oxygen Demand 2019



Month	TSS lbs/day	TSS NPDES Permit Upper Limit	CBOD5 lbs/day	CBOD5 NPDES Permit Upper Limit
Jan	20	380	14	310
Feb	20			
Mar	40			
Apr	29			
May	31			
Jun	46			
Jul	14			
Aug	34			
Sep	27			
Oct	24			
Nov	21			
Dec	41			
AVG	29		15	

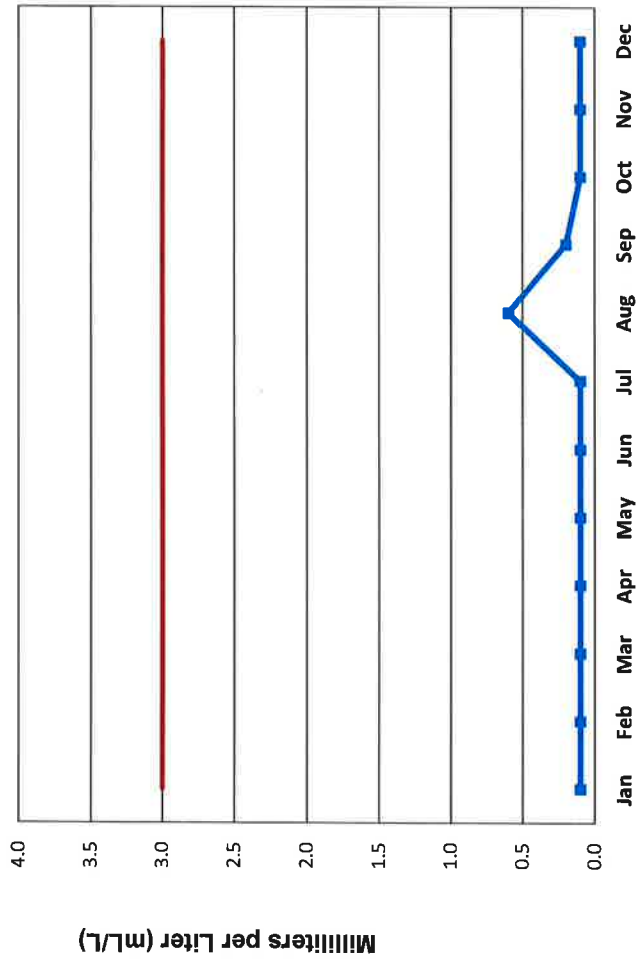
EFFLUENT Total Suspended Solids & Carbonaceous Biochemical Oxygen Demand Percent Removal 2019



■ Total Suspended Solids (TSS) Percent Removal
■ CBOD Percent Removal
— TSS Percent Removal Lower Limit
— CBOD Percent Removal Lower Limit

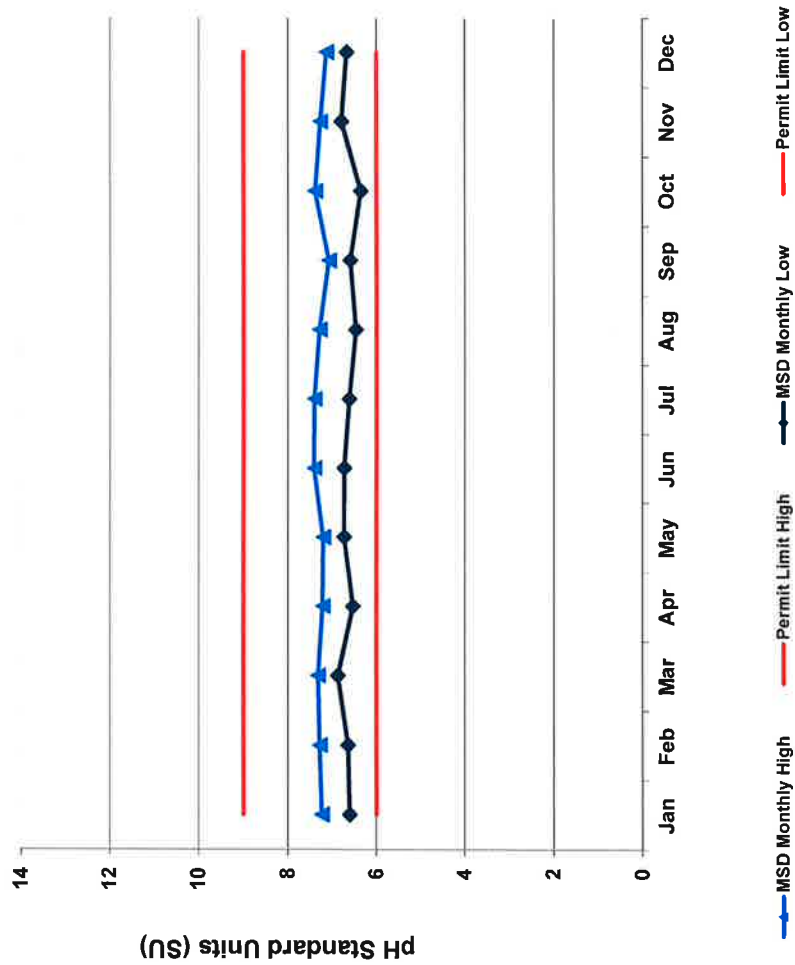
Month	NPDES PERMIT LOWER LIMIT %	TSS Average Percent Removal %	NPDES PERMIT LOWER LIMIT %	CBOD ₅ Average Percent Removal %
Jan	85	99	85	99
Feb		99		
Mar		98		
Apr		98		
May		98		
Jun		97		
Jul		99		
Aug		98		
Sep		99		
Oct		99		
Nov		99		
Dec		99		
AVG		99		99

EFFLUENT Settleable Solids Monthly Maximum 2019



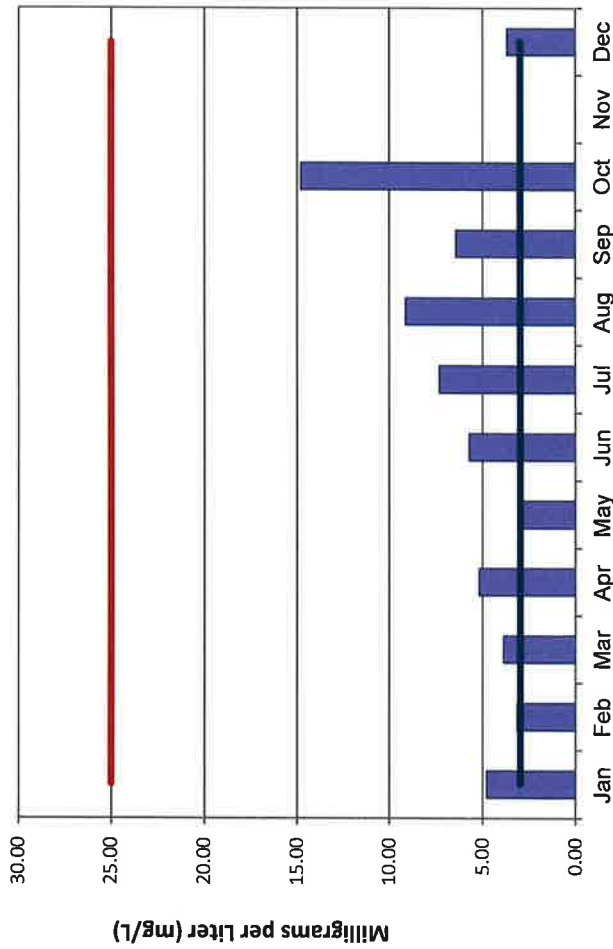
Month	NPDES Permit Limit mL/L	Monthly Maximum mL/L
Jan	3.0	0.1
Feb		<0.1
Mar		0.1
Apr		<0.1
May		<0.1
Jun		0.1
Jul		0.1
Aug		0.6
Sep		0.2
Oct		0.1
Nov		<0.1
Dec		<0.1

EFFLUENT pH 2019



Month	MSD Monthly Low	NPDES Low Limit	MSD Monthly High	NPDES High Limit
Jan	6.61	6.0	7.24	9.0
Feb	6.65		7.29	
Mar	6.88		7.33	
Apr	6.54		7.22	
May	6.74		7.21	
Jun	6.73		7.41	
Jul	6.62		7.40	
Aug	6.47		7.29	
Sep	6.60		7.08	
Oct	6.36		7.39	
Nov	6.80		7.28	
Dec	6.68		7.14	
Avg	6.64		7.27	

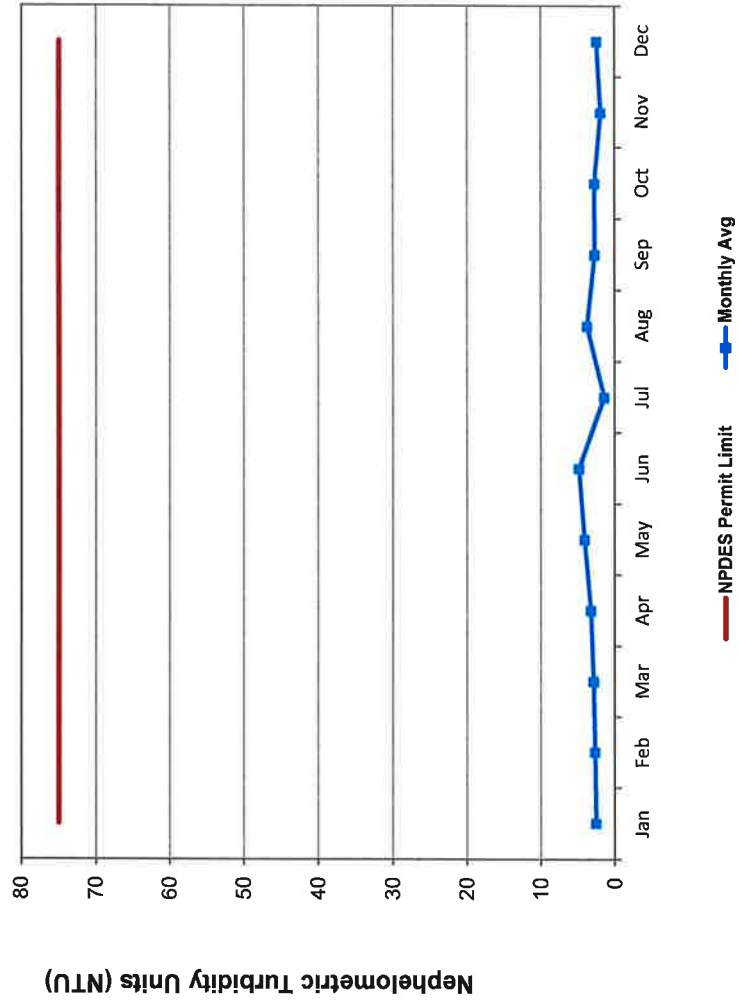
**EFFLUENT
Oil & Grease
2019**



ND = below detection

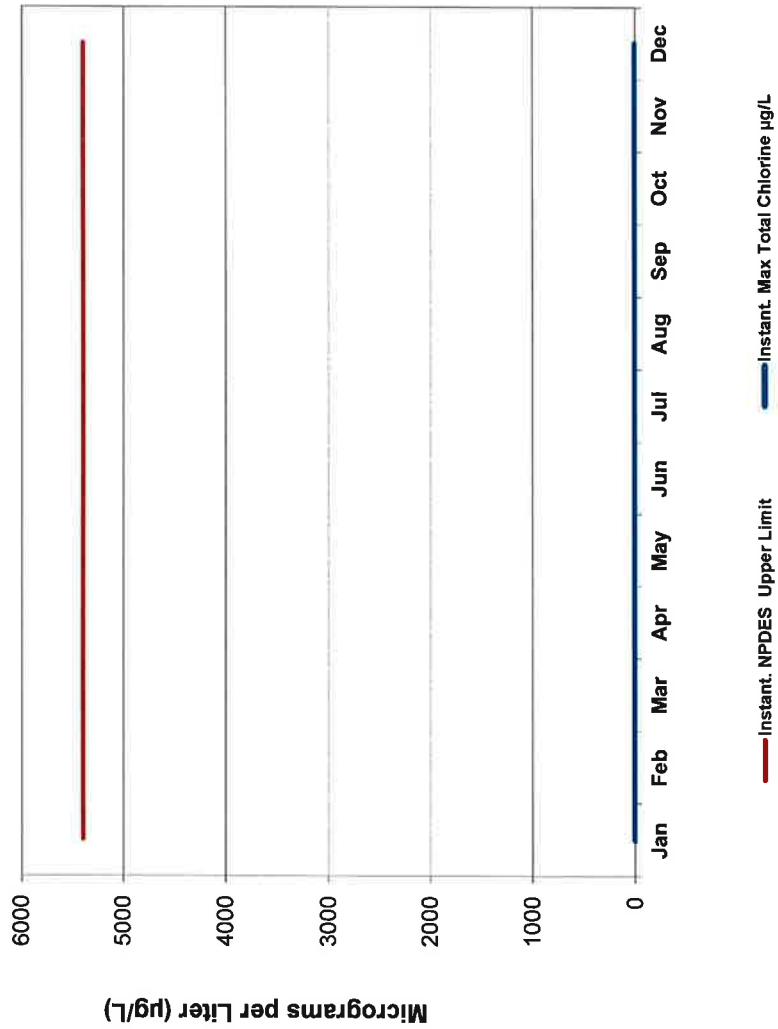
Month	Oil & Grease	
	Results mg/L	NPDES Limit
Jan	4.78	25
Feb	3.17	
Mar	3.90	
Apr	5.17	
May	3.08	
Jun	5.72	
Jul	7.31	
Aug	9.12	
Sep	6.44	
Oct	14.80	
Nov	ND	
Dec	3.69	

EFFLUENT Turbidity 2019



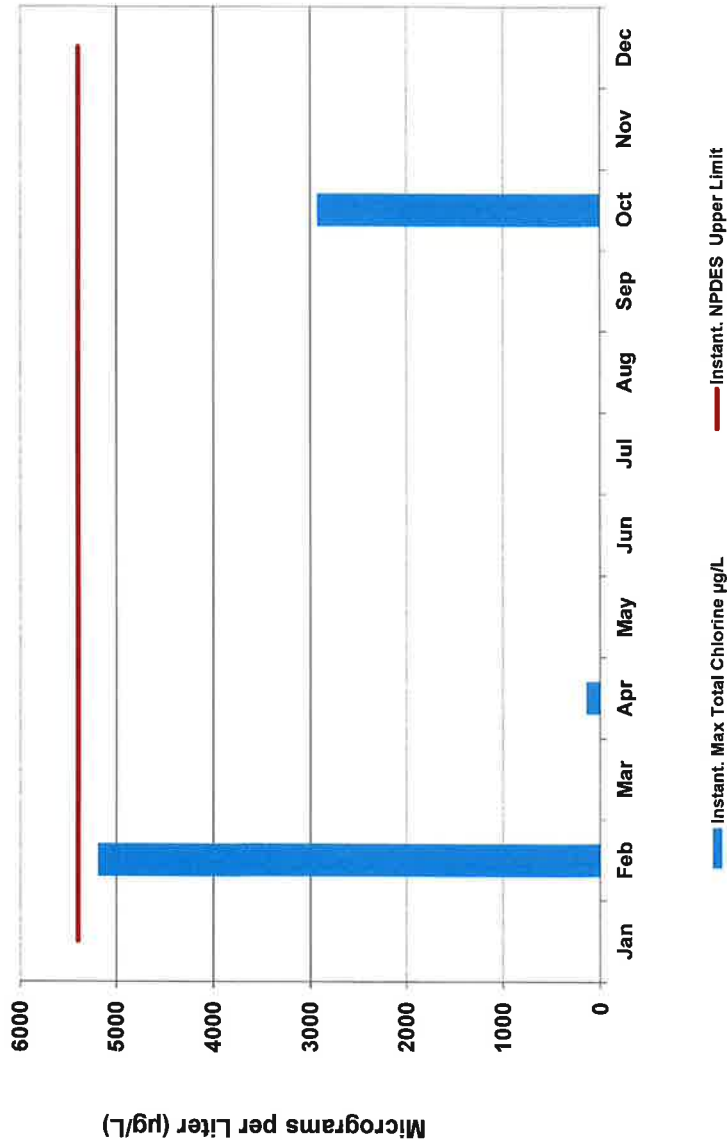
Turbidity - NTU		
Month	NPDES Limit	Monthly Avg
Jan	75	2.6
Feb		2.7
Mar		2.9
Apr		3.3
May		4.1
Jun		4.8
Jul		1.4
Aug		3.7
Sep		2.7
Oct		2.7
Nov		1.9
Dec		2.4
AVG		2.9

**FINAL EFFLUENT
Total Chlorine Residual - Instantaneous Max (Grab) 2019**



Month	Instant. NPDES Upper Limit	Instant. Max Total Chlorine µg/L
Jan	5400	0
Feb		0
Mar		0
Apr		0
May		0
Jun		0
Jul		0
Aug		0
Sep		0
Oct		0
Nov		0
Dec		0

FINAL EFFLUENT
Total Chlorine Residual - Instantaneous Max (Meter)
2019

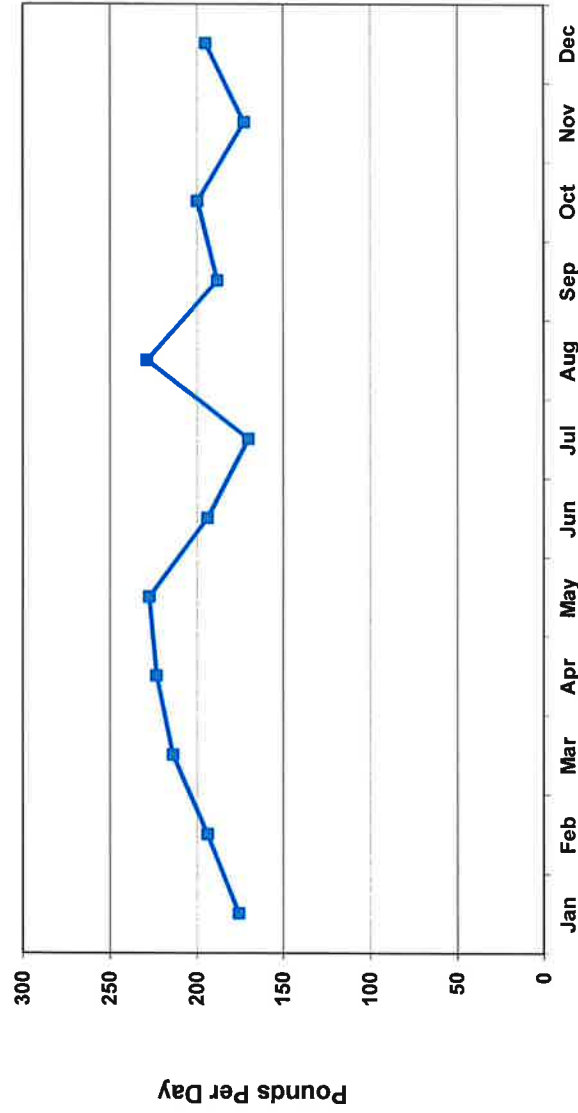


Month	NPDES Instant. Upper Limit µg/L	Instant. Max Total Chlorine µg/L
Jan	5400	0
Feb		5198
Mar		0
Apr		140
May		0
Jun		0
Jul		0
Aug		0
Sep		0
Oct		2929
Nov		0
Dec		0

*Higher total chlorine residual due to chlorine feed pump malfunction.

Note: "Meter" refers to instrumentation that continuously monitors and analyzes data.

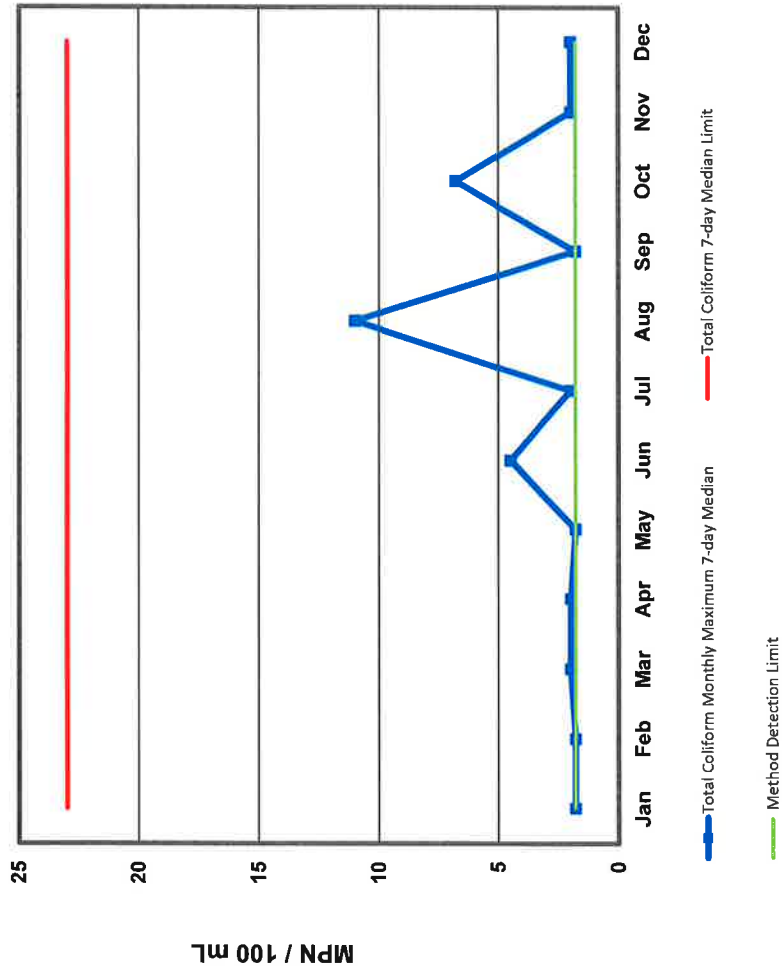
EFFLUENT Chlorine Used 2019



— Average Daily Chlorine Use

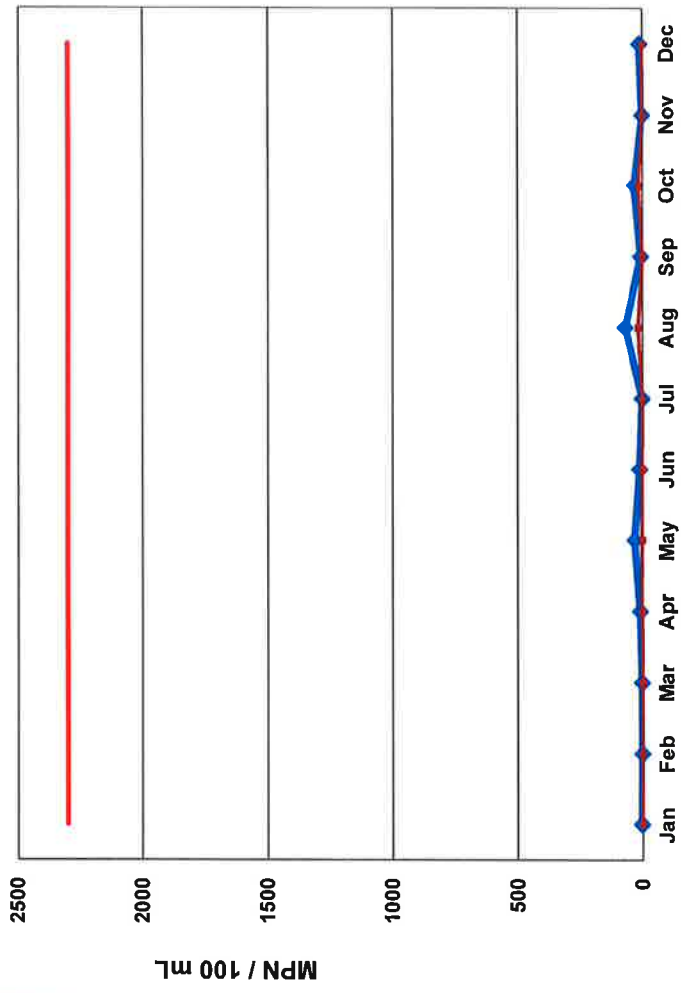
Month	Chlorine Used lbs/day
Jan	176
Feb	194
Mar	214
Apr	223
May	228
Jun	194
Jul	170
Aug	229
Sep	188
Oct	200
Nov	173
Dec	195
AVG	199

EFFLUENT Total Coliform Monthly Maximum 7-day Median 2019



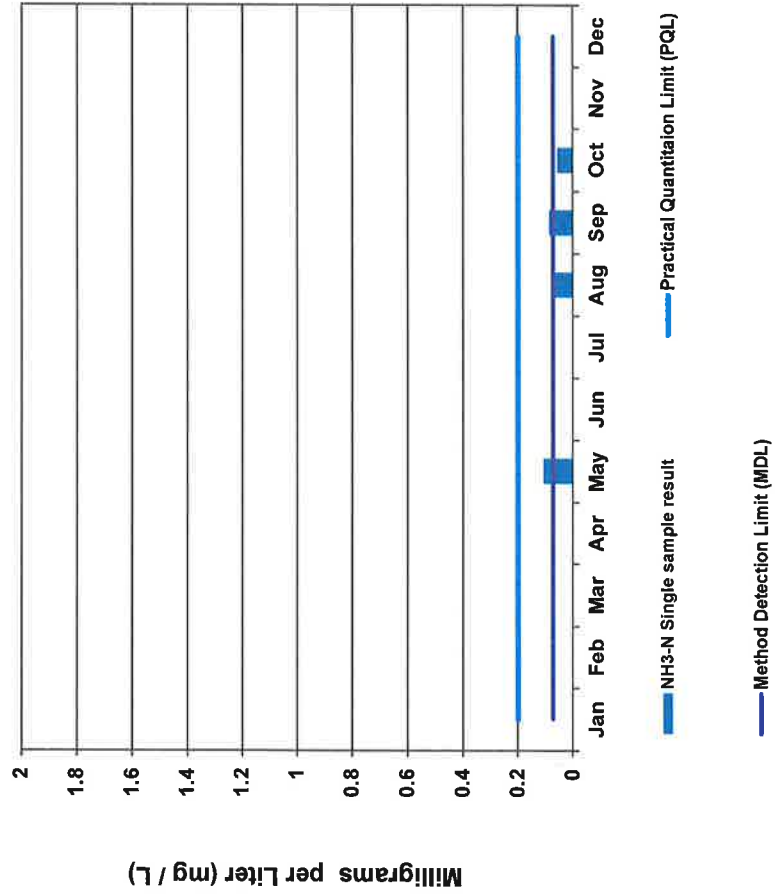
MPN/100mL			
Month	Total Coliform Monthly Maximum 7-day Median	Total Coliform 7-day Median Limit	Method Detection Limit
Jan	1.8	23	1.8
Feb	1.8		
Mar	2.0		
Apr	2.0		
May	1.8		
Jun	4.5		
Jul	2.0		
Aug	11		
Sep	1.8		
Oct	6.8		
Nov	2.0		
Dec	2.0		

EFFLUENT Total and Fecal Coliform Monthly Single-Sample Maximums 2019



Month	MPN/100mL		
	Total Coliform Monthly Maximum	Fecal Coliform Monthly Maximum	Total Coliform Single Sample Limit
Jan	4.0	1.8	2300
Feb	2.0	2.0	
Mar	4.5	1.8	
Apr	11	4.0	
May	33	2.0	
Jun	13	2.0	
Jul	2.0	2.0	
Aug	70	17	
Sep	7.8	1.8	
Oct	33	17	
Nov	2.0	2.0	
Dec	13	2.0	

EFFLUENT Ammonia as Nitrogen (NH₃-N) 2019



Ammonia / NH ₃ -N				
Results	Method Detection Limit (MDL)	Practical Quantitation Limit (PQL)	NPDES Permit Limit	
mg/L	mg/L	mg/L	mg/L	mg/L
Jan	0.072	0.200	NA	
Feb	0.072	0.200	NA	
Mar	0.072	0.200	NA	
Apr	0.072	0.200	NA	
May	0.072	0.200	NA	
Jun	0.072	0.200	NA	
Jul	0.072	0.200	NA	
Aug	0.072	0.200	NA	
Sep	0.072	0.200	NA	
Oct	0.072	0.200	NA	
Nov	0.072	0.200	NA	
Dec	0.072	0.200	NA	

Note: MDL is the lowest value the test method can detect. PQL is the concentration below which data cannot be reported with accuracy.

Tabular Data for 2019 Summary Report

2019 Month	INFLUENT						
	Monthly Total FlowMG	Avg Inst Peak MGD	Avg Flow MGD	Avg TSS mg/L	Avg TSS lbs/day	Avg CBOD ₅ mg/L	Avg CBOD ₅ lbs/day
Jan	19.66	1.47	0.63	478	2561	245	1176
Feb	21.54	1.60	0.77	552	3089	221	1244
Mar	22.92	1.46	0.74	300	2024	170	1111
Apr	19.12	1.33	0.64	370	1986	208	1085
May	19.42	1.27	0.63	394	2072	203	1073
Jun	18.18	1.42	0.61	338	1650	156	759
Jul	19.20	1.30	0.62	402	2050	185	961
Aug	19.04	1.32	0.61	485	2451	171	840
Sep	18.20	1.28	0.61	340	1648	183	889
Oct	18.91	1.27	0.61	325	1636	172	864
Nov	19.23	1.45	0.64	424	2224	198	1051
Dec	21.45	1.63	0.69	707	4226	196	1097
AVG	19.74	1.40	0.65	426	2120	192	1430
TOTALS	236.86						

Total Rain Inches	FINAL EFFLUENT						
	Total Monthly Flow MG	Avg Inst Peak Flow MGD	Max Flow MGD	Avg Flow MGD	Avg TSS mg/L	Avg TSS lbs/day	Avg Monthly TSS %Removal
7.19	18.18	1.30	0.99	0.59	4.0	20	99
5.73	20.59	1.50	1.23	0.74	3.7	20	99
3.42	21.66	1.31	1.16	0.70	6.5	40	98
0.21	17.74	1.24	0.64	0.59	5.8	29	98
2.01	18.08	1.18	0.71	0.58	6.3	31	98
0.12	16.25	1.11	0.60	0.54	10.0	46	97
0.00	17.15	1.16	0.62	0.55	3.0	14	99
0.00	17.35	1.12	0.60	0.56	7.3	34	98
0.00	16.11	1.09	0.61	0.54	6.1	27	99
0.00	16.59	1.15	0.56	0.54	5.3	24	99
1.92	16.98	1.21	0.69	0.57	4.5	21	99
6.55	19.86	1.33	1.15	0.64	7.0	41	99
27.15	18.04	1.23	0.80	0.59	5.8	30	98
	216.54						

Tabular Data for 2019 Summary Report

FINAL EFFLUENT																			
2019 Month	Avg CBOD ₅ mg/L	Avg CBOD ₅ lbs	Avg CBOD ₅ % Removal	NH ₃ -L mg/L	NH ₃ -N lbs	O & G mg/L	O & G lbs/day	Avg Turb NTU	pH High SU	pH Low SU	Maximum Effluent Cl ₂ (Grab) µg/L	Avg Cl ₂ mg/L Before Avg ClDechlor	Avg Total lbs/day	Maximum Temp °F	Max Total Coliform MPN	Total Coliform Max Median MPN/100 mL	Fecal Coliform Maximum MPN/100 mL	Maximum Effluent Cl ₂ (Meter) µg/L	Maximum Settleable Solids mL/L
Jan	2.59	13.7	99	ND	ND	4.78	20	2.55	7.24	6.61	0.00	21.05	175.7	70.9	4.0	1.8	1.8	0.00	0.1
Feb	1.93	11.1	99	ND	ND	3.17	24	2.66	7.29	6.65	0.00	24.34	194.1	68.5	2.0	1.8	2.0	5198	<0.1
Mar	3.11	18.2	98	ND	ND	3.90	30	2.88	7.33	6.88	0.00	21.15	214.0	70.7	4.5	2.0	1.8	0.00	0.1
Apr	2.77	13.5	99	ND	ND	5.17	26	3.25	7.22	6.54	0.00	19.29	223.4	73.4	11	2.0	4.0	140	<0.1
May	3.63	17.5	98	DNQ0.107	DNQ0.48	3.08	14	4.07	7.21	6.74	0.00	19.57	227.5	73.9	33	1.8	2.0	0.00	<0.1
Jun	3.89	17.6	98	ND	ND	5.72	27	4.82	7.41	6.73	0.00	25.01	193.9	75.4	13	4.5	2.0	0.00	0.1
Jul	2.45	11.4	99	ND	ND	7.31	34	1.42	7.40	6.62	0.00	18.35	170.2	77.9	2.0	2.0	2.0	0.00	0.1
Aug	4.40	20.4	98	DNQ0.065	DNQ0.31	9.12	43	3.74	7.29	6.47	0.00	30.92	228.8	79.3	70	11	17	0.00	0.6
Sep	2.87	13.0	99	DNQ0.085	DNQ0.40	6.44	30	2.70	7.08	6.60	0.00	21.68	188.2	79.9	7.8	1.8	1.8	0.00	0.2
Oct	2.42	10.8	99	DNQ0.055	DNQ0.24	14.80	64	2.75	7.39	6.36	0.00	26.25	199.9	76.5	33	6.8	17	2929	0.1
Nov	2.43	11.8	99	ND	ND	ND	ND	1.91	7.28	6.80	0.00	18.92	172.6	73.9	2.0	2.0	2.0	0.00	<0.1
Dec	2.97	16.2	98	ND	ND	3.69	20	2.43	7.14	6.68	0.00	23.19	195.0	70.3	13	2.0	2.0	0.00	<0.1
AVG	2.95	14.6	99					2.93	7.27	6.64		22.48	198.6	74.2					

MONTECITO SANITARY DISTRICT

Collection System Maintenance and Renovation Program 2019

OBJECTIVE

To reduce Sanitary Sewer Overflows (SSO's), increase system reliability, optimize service life of all collection system components through continued systematic assessment and maintenance, and plan for future facility rehabilitation and/or replacement.

GOALS – SHORT AND LONG TERM

Short Term:

1. Continue a systematic maintenance program based on past years data to prevent SSO's. Identify lines that need to be evaluated by Closed Circuit Television (CCTV) using the NASSCO pipe rating system.
2. Continue a systematic CCTV program based on the pipeline segment ratings to identify intrusion of roots, grease and/or structural defects and also check on the effectiveness of the District's cleaning procedures and equipment.
3. Continue to enforce District Ordinance No. 13 - To Regulate and Reduce Fat, Oil, and Grease in the Sewer System and to Require Fat, Oil, and Grease Removal Devices.
4. Continue to enhance the District's Geographic Information System (GIS) of the collection system piping, including routine updating of the District's maintenance activities consisting of cleaning, CCTV, and manhole inspection.
5. Continue to repair collection system piping when and if damage is found during regular CCTV'ing activities.
6. Rehabilitate pipe sections that have been identified as needing repair/replacement.
7. Continue to promote and fund a program that provides a financial incentive to property owners (offering a rebate up to \$2,000) for the rehabilitation and/or replacement of private sewer laterals. The District's FY 2019-20 funding for this program is \$50,000.
8. Continue a proactive lift station maintenance program consisting of de-ragging pumps, exercising valves, maintaining backup generators at each of the lift stations.

Long Term:

1. Clean and CCTV the entire collection system for inspection and condition assessment purposes. Complete this condition assessment using the District owned and operated CCTV equipment in accordance with the NASSCO pipe rating system for each line segment.
2. Rehabilitate / reline District VCP pipelines as determined necessary by the NASSCO rating.
3. Rehabilitate and replace manholes as determined necessary.
4. Continue to investigate the inflow and infiltration issues that may still exist within the District.

ACTIONS COMPLETED IN 2019

1. District staff performed CCTV inspection of approximately 10.4 miles of District pipeline.
2. District staff cleaned approximately 89.3 miles of collection system piping.
3. Promoted and provided financial incentive for the rehabilitation/replacement of private sewer laterals. In 2019, twenty-three property owners participated in the Private Lateral Rehabilitation Program by replacing or repairing their deteriorated or damaged laterals. The District issued rebates for a total of \$44,579.81 to property owners for these repairs.
4. Identified and rehabilitated and/or raised to grade 28 manholes and 1 cleanout in various locations due to County and private road overlays throughout the District for a total cost \$66,344.
5. The District funded and completed an 8" diameter sewer mainline extension of approximately 1,720 linear feet on Olive Road enabling 11 properties to convert from septic to sewer. The property owners are required to pay the District their proportionate share of the construction cost before they are issued a permit to abandon their septic system and tie into the public sewer system. Total cost of the project was \$626,942.
6. Survey work was performed for the design of a sewer main extension in Romero Canyon Road for a total cost of \$9,500; survey work in the amount of \$33,000 was also performed for a possible sewer main extension in the Riven Rock Development.

2019 SANITARY SEWER OVERFLOW (SSO) REPORT SUMMARY

PRIVATE

1. 06/03/19 – 1345 Danielson Lane; Property line cleanout to a private sewer lateral located on the northwest corner of property overflowed resulting in a spill of approximately 20 gallons. The Collections Crew was notified by property owner's plumber requesting staff to set a grate so he could clear the blockage. Upon arrival, Collections Crew identified that wastewater had flowed out of the property and into the public right of way. At that time, the owner was given a written Notice to CCTV their private sewer lateral and to provide a video inspection to the District to determine if repairs are required. A video inspection was performed on June 3, 2019 and the owner was required to replace approximately 126' of sewer lateral. A permit was issued and the replacement was completed on 07/05/2019.

DISTRICT

NONE

MONTECITO SANITARY DISTRICT

Mission, History and Future Goals

OUR MISSION

To provide the residents of Montecito with a community service to protect public health and to preserve the natural environment through the collection, treatment, and disposal of wastewater in the most cost effective way possible.

To meet all regulatory discharge requirements as directed by Local, State, and Federal agencies.

OUR BACKGROUND

The Montecito Sanitary District (MSD) is an independent special district voted into existence in 1947 by the residents of Montecito. A few highlights of MSD's history include the following:

- 1947: The Montecito Sanitary District was voted into existence by the residents.
- 1947-1960: The community worked toward implementation of service by approving a bond issue, selecting a plant site, and establishing a District boundary.
- 1960: A \$900,000 bond issue was passed to build a 750,000 gallon per day extended aeration secondary treatment plant, an ocean outfall, and trunk sewer system.
- 1961-1969: Six assessment districts were formed to finance the installation of 70 miles of collection system pipelines.
- 1981: Voters approved a \$3.1 million revenue bond issue to incorporate new technology and expand the plant's capacity to 1.5 MGD.
- 1982-1999: During this time period a second activated sludge reactor basin was added to the treatment plant; two additional secondary clarifiers were constructed; the volume of the aerobic digester was increased; a dissolved air flotation thickener and a belt filter press were installed; a second chlorine contact chamber was constructed along with a de-chlorination chamber; a 250 KW emergency generator was installed at the treatment plant. In the mid 1990's, sodium hypochlorite and sodium bisulfite liquids, replaced gaseous chlorine and sulfur dioxide for safety reasons.

MONTECITO SANITARY DISTRICT
Mission, History and Future Goals -- Continued

- 2000-2006: During this time period the District completed the following capital improvement projects: bulk chemical storage tanks were replaced with larger, double wall containment with earthquake restraints; six new disinfection chemical feed pumps for sodium hypochlorite and sodium bisulfite were installed, improving reliability and adding redundancy; a paperless data trend process recorder was installed; an aeration system optimization project was completed, the laboratory was upgraded; the influent pump station was replaced, increasing the station's pumping capacity from 3.5 MGD to 5.0 MGD; a SCADA control center and the construction of a new 3,600 square foot maintenance building.
- 2007-2008: Board of Director's approved "mission critical" capital improvement projects totaling approximately \$11 million. The District then issued Certificates of Participation (COP's) to fund the capital program. A new SCADA server with expandability for future was put on line for the influent pump station control; the waste activated sludge pump was replaced; the aeration air header made of deteriorated ductile iron pipe was replaced with a new stainless steel pipe; a new 125 KW portable emergency generator that can be used to power a portion of the treatment plant or as a redundant back up at pump stations was purchased; the Posilipo Lift Station (Lift Station No. 4) was completely refurbished including the replacement of the existing 6" dual force mains with dual 8" lines; a new fully redundant pumping system (three new pumps) were installed along with an automatic switch over to generator power.
- 2009-2010: The influent channel grinders were replaced with two new units increasing flow volume from 3.5 mgd to 6.0 mgd; the secondary clarifiers (3 & 4) and the effluent channel were refurbished. The District completed the refurbishment of two motor control centers (MCC) and replacement of another (MCC); installation of a new 450 KW emergency diesel powered generator providing 100 percent of the treatment plant and associated facilities power requirements during main power outages. The total cost of these treatment plant electrical upgrades was \$540,000. The new laboratory building design and site grading was completed in the fall of 2010.
- 2011-2012: The new laboratory building construction was completed. Upgrades to the treatment plant SCADA monitoring system and additional essential treatment plant equipment was added to the SCADA system. An after-hours alarm notification system was added to the SCADA system as the primary notification system with the existing auto dialer (ADA) becoming the back up. Three effluent disinfection chemical dosing pumps were replaced with new pumps.

MONTECITO SANITARY DISTRICT
Mission, History and Future Goals -- Continued

- 2012-2013 Refurbishment of all four Secondary Clarifiers; installation of two new sodium hypochlorite chemical feed pumps and one sodium bisulfite chemical feed pump; all three Influent Pumps were retrofitted with new high chrome impellers and volutes and the Influent Variable Frequency Drive motors were replaced with new energy efficient units. Capital projects completed included the remodel of the former lab into an Operations Control Center; the refurbishment of the Belt Filter Press System; the replacement of the sodium hypochlorite and sodium bisulfite analyzers and the replacement of a 3,000-gallon hypochlorite tank.
- 2014-2015: Preventative maintenance was completed on the Secondary Treatment Clarifiers No. 2 and No. 3; the Aeration Basin Blower No.1 and the Belt Press. The Influent grinders at the wastewater treatment plant were replaced. The Montecito District Laboratory received accreditation by California ELAP, effective June 1, 2015. Subsequently, the District added coliform analyses by method SM9221B, E to its list of approved laboratory tests. Completed the installation of Mission boxes at the treatment plant for the internet SCADA system to monitor flows.
- 2016–2017: The District completed the Plant Paving and Resurfacing project, the Aeration Air Header Replacement project, installed new swing-fusers in the Aeration Basin. Purchased a new plant compressor. Capital Improvement Projects included repairs to the air headers in Aeration Basin #1, replacement of the meter and metering pump on the sodium hypochlorite tank, and impeller replacement at Lift Station 4 pumps.
- 2018: The District endured the tragic January 9th Thomas Fire Debris Flow event. On July 31, 2018, the MSD Board of Directors approved a Purchase Order contract with IDE Technologies for the design, manufacturing and delivery of an ultrafiltration and reverse osmosis recycled water pilot project.
- 2019: Significant District accomplishments included: rough grading for the Essential Services Building (ESB); the ESB design was completed and went out for bid in April; the MSD Board awarded the ESB construction contract to Menemsha Development Group in June, however construction was postponed due to County issues; the Dissolved Air Flootation Thickener (DAFT) supplied by World Water Works was installed by District staff working in conjunction with Cushman Contracting; the Recycled Water Pilot Project skid mounted ultrafiltration and reverse osmosis systems were delivered, commissioned and put into operation in September.

MONTECITO SANITARY DISTRICT
Mission, History and Future Goals -- Continued

- 2020: Current / Future District Projects include the following:
 - Operation and analysis of the Recycled Water Pilot Project will continue throughout the entire year.
 - The design of a Recycled Water Project to serve the irrigation needs of the Santa Barbara Cemetery will begin in 2020.
 - The construction / installation of a number of projects are on hold pending the County's approval of the MSD Coastal Development Plan including any additional recycled water treatment facilities, solar panel structures and the MSD Essential Services Building.