



# ANNUAL REPORT 2020



**NPDES NO. CA0048054  
ORDER NO. R3-2013-0042**



January 23, 2021

**SUBJECT:** NPDES Permit No. CA0048054  
ORDER No. R3-2013-0042  
Annual Report-2020

In accordance with the requirements of the general provisions of the Summerland Sanitary District's NPDES Permit No. CA0048054, we are transmitting the District's Annual Report for 2020. The monitoring data is compiled throughout the year and is presented in both tabular and graphic form.

As required, the following is a list of certified operators currently employed by the District:

- Noe Aguilar Vega, Treatment Plant Operations Supervisor, Grade III-42178, expiration date 11/20/2023. Mr. Vega holds a Collections System Maintenance Grade I #1308216043 CWEA. Expiration date 09/30/2021.
- Eduardo Nava, Lead Collections/ Treatment Plant Operator II, Grade II- 42423 expiration date 05/09/2023. Mr. Nava holds a Collections System Maintenance Grade I #1308216042 CWEA. Expiration date 09-30-2021.
- Servando A. Aguilar, Sr. Operator I, Grade I-9369, expiration date 12/31/2023.
- Angel Diosdado, Operator I, Grade I-45020, expiration date 09/10/2023.

During 2020, all parameters of the effluent quality were within the limits set by the District's discharge permit. The monthly grease and oil, ammonia (nitrogen), total and fecal coliform, BOD, total suspended solids and turbidity were analyzed by Fruit Growers Laboratory (FGL) of Santa Paula, California. FGL also completed the analysis for the annual effluent, ocean and sludge sampling. Aquatic Bioassay & Consulting Laboratories, Inc (ABC Labs) in Ventura, California, performed the chronic toxicity testing.

For 2020, a total of 99.25 tons of biosolids were hauled to San Joaquin Composting facility in Kern County by Liberty Compost.

On August 10, 2020, Salty Dog Dive Service of Santa Barbara California completed the inspection of the District's ocean outfall pipeline. The entire outfall inspection report is attached as a separate document and is uploaded under the CIWQS reporting system ID 2374609.

## Collection System Maintenance and Renovation Program

### Objective:

To reduce sanitary overflows, increase system reliability, optimize service life of collection system components, plan for facility replacement and educate public on importance of maintaining private laterals.

### Goals- Short Term:

- Continue systematic cleaning and closed-circuit televising of collection system to identify problem areas and effectiveness of cleaning efforts. Repair problem areas if found.
- As needed, locate, raise, and repair District manholes and cleanouts.
- Monthly updating of GIS system to reflect maintenance work as well as property owner information.
- Monthly updating of District Atlas with any changes that may be needed (new service connections, new manholes, collection system repairs etc.).
- As collection system is televised, update property connection data for future reference. This entails getting footage from nearest manhole to property lateral connection into District main sewer line. Other property information will be entered if pertinent to sewer service.

### Goals- Long Term:

- Repair collection system mainlines if problems found by means of point repair or slip-lining of collection mainline.
- To have the collection system in a state of operation where only minor repairs are needed.
- To continue to bring property owners sewer service who are currently on septic systems for their sanitary needs.
- Continue to stay abreast of future reclamation needs in conjunction with local water district.
- Continue educating the public on wastewater issues with Summerland Sanitary District newsletters.

### Actions completed in 2020:

- In 2020, approx. 35,654 feet of collection mainline was cleaned by District staff using trailer jetter. Approx. 3,171 feet of mainline was televised by District staff with closed circuit televising equipment.
- On July 17, 2020 Tierra Contracting repaired a mainline offset in the District's collection system on Golden Gate Avenue. A new section of PVC pipe was installed to replace the fractured section.

- On August 14, 2020 Salty Dog Diving Services cleared both east and west ocean outfall pipeline diffusers.
- On September 18, 2020 Harbor Offshore installed a twelve-inch stainless steel repair clamp on the Districts ocean outfall pipeline to prevent a small fracture from expanding that was discovered during its annual outfall inspection.
- Two mainline extension projects were completed including the Ortega Ridge Road Mainline Extension and Whitney Avenue Mainline Extension, making sewer service available to two property owners.
- Electrical feed to primary clarifier was replaced.
- Annual and routine maintenance of three lift stations and four on-site generators.

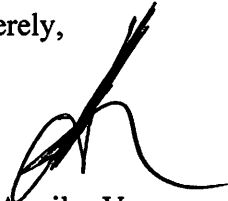
### 2020 Reported Overflows:

- Two overflow spills were report for calendar year 2020.

Please feel free to contact me if you have any questions or need additional information.

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.” [40 CFR §122.22(d)].

Sincerely,

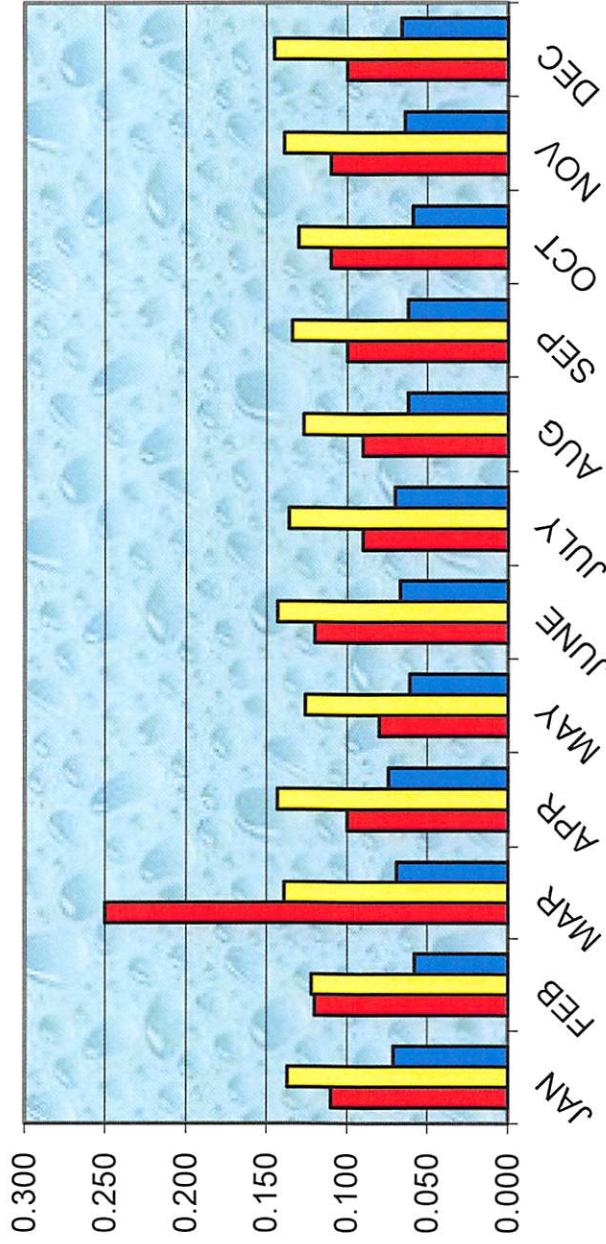


Noe Aguilar Vega  
Treatment Plant Operations Supervisor  
Summerland Sanitary District

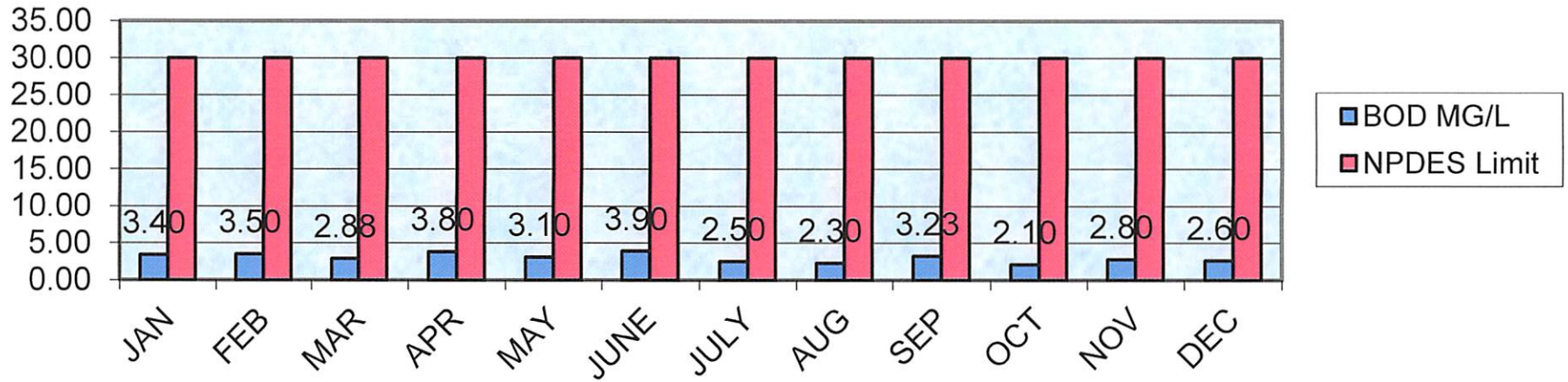
## TABLE OF CONTENTS

<b>MONITORING DATA</b>	<b>PAGE NUMBER</b>
Flow Data MGD	1
Monthly Average Biochemical Oxygen Demand	2
Monthly Average Turbidity	3
Monthly Average Ammonia	4
Monthly Average Total Suspended Solids	5
Total Coliform	6
Monthly pH	7
Chlorine Monthly Average	8
SSD Effluent Mass Emissions Monthly	9
Annual Results Table	10
Attachment A – Outfall Report 2020	
Attachment B – Map	
Attachment C – Flow Schematic	
Attachment D – Organization Chart	
Attachment E - Biosolids Report 2020	

## SSD FLOW DATA MGD 2020



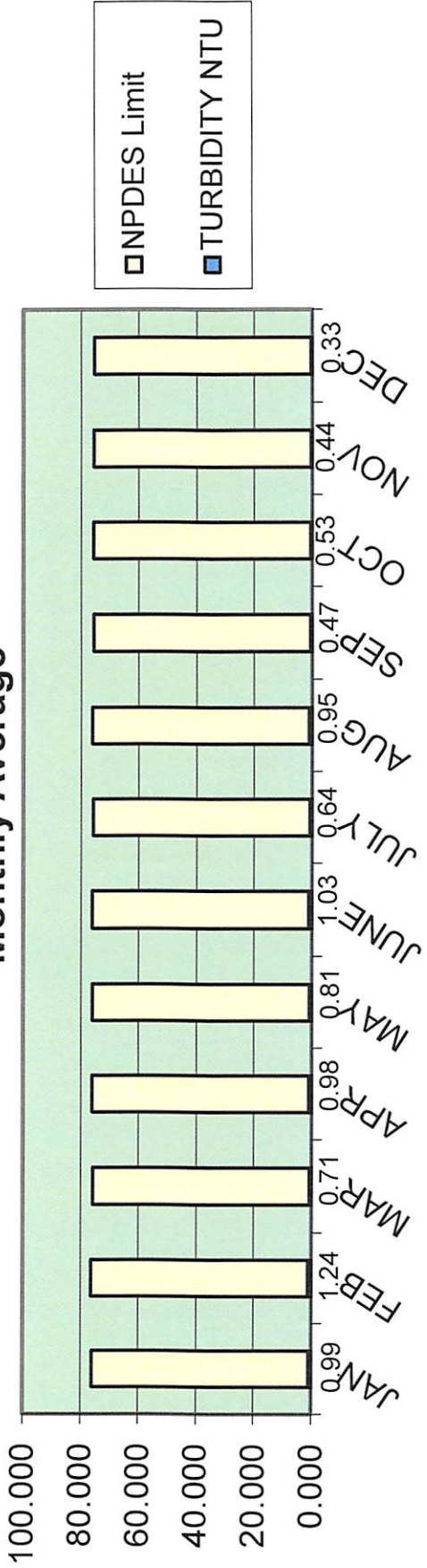
### SSD BOD MG/L 2020 Monthly Average



# SSD TURBIDITY 2020

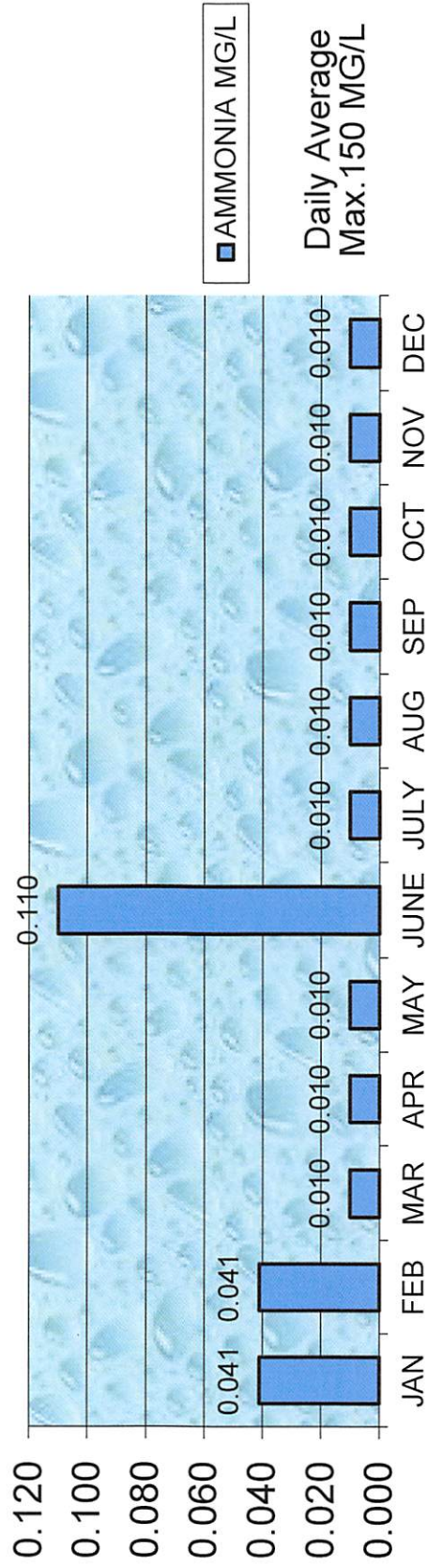
## Monthly Average

NTU



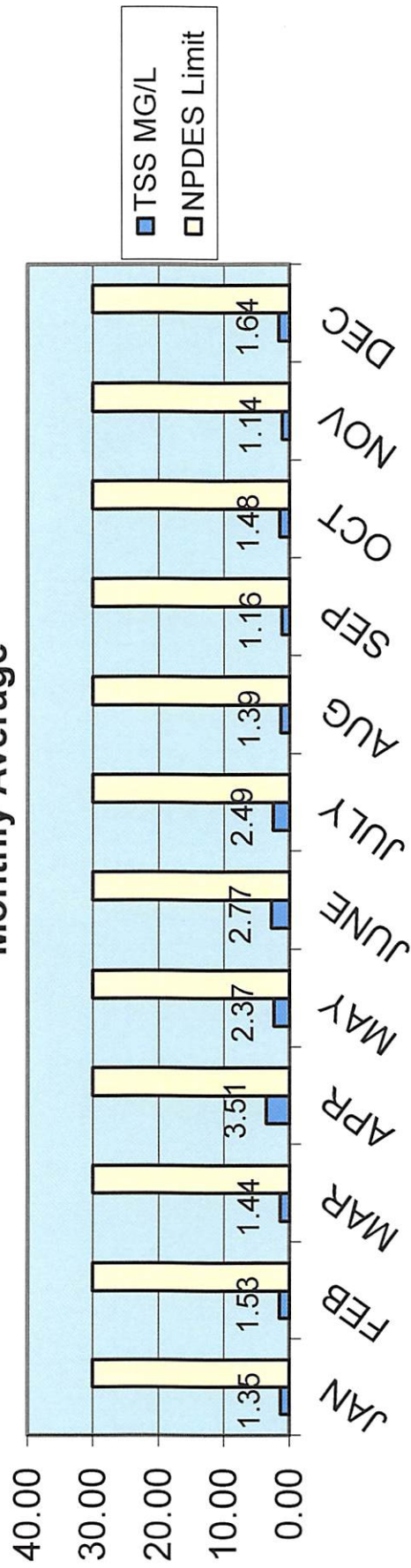


## SSD AMMONIA MG/L 2020 Monthly Average

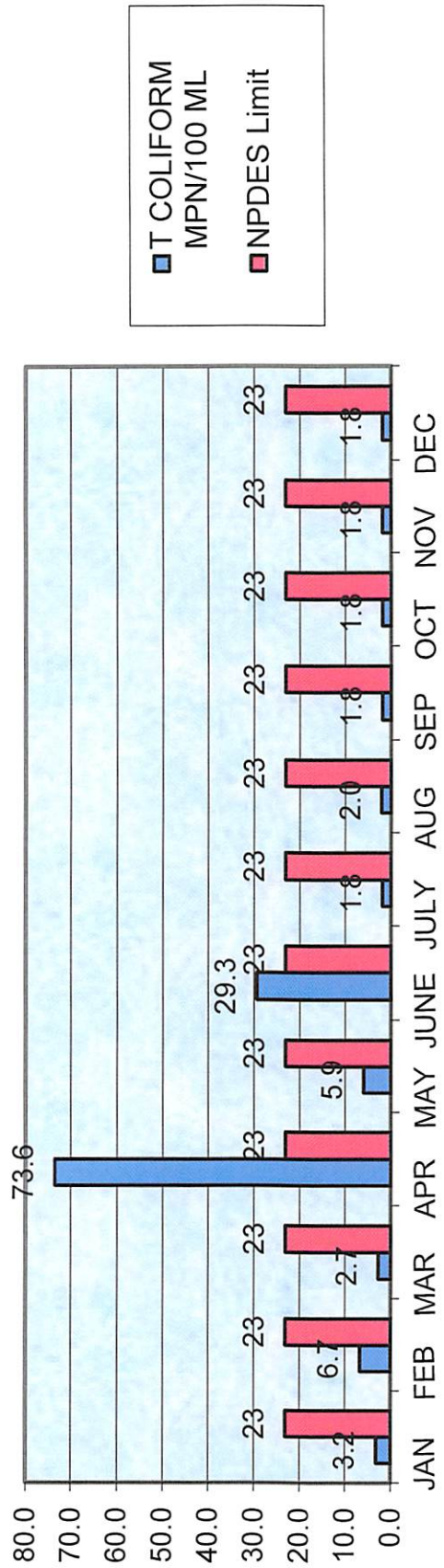


# SSD TSS MG/L 2020

## Monthly Average

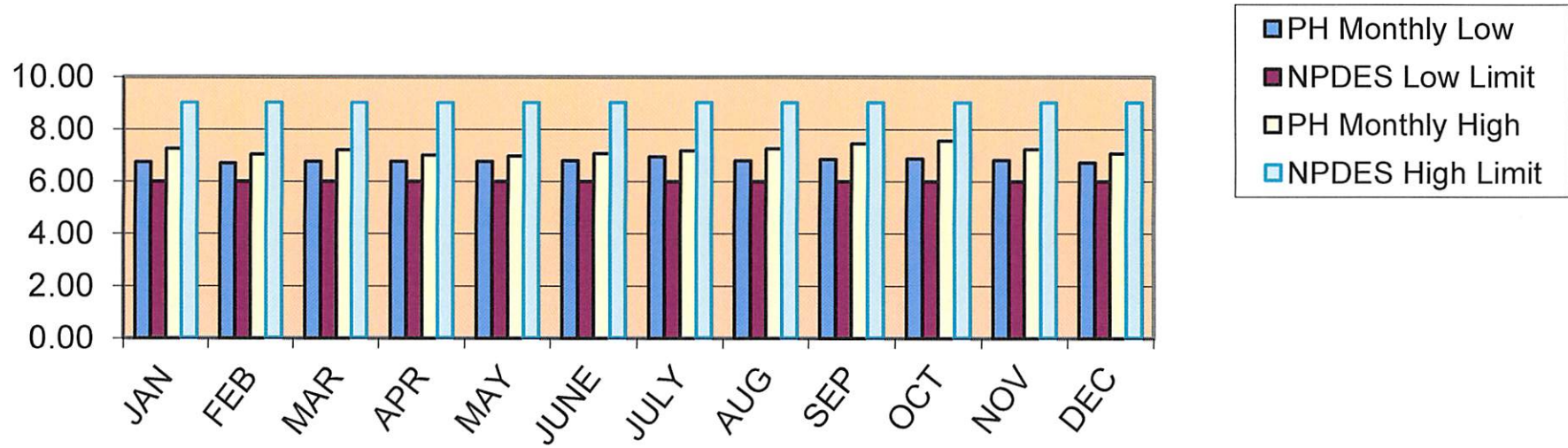


## SSD TOTAL COLIFORM 2020

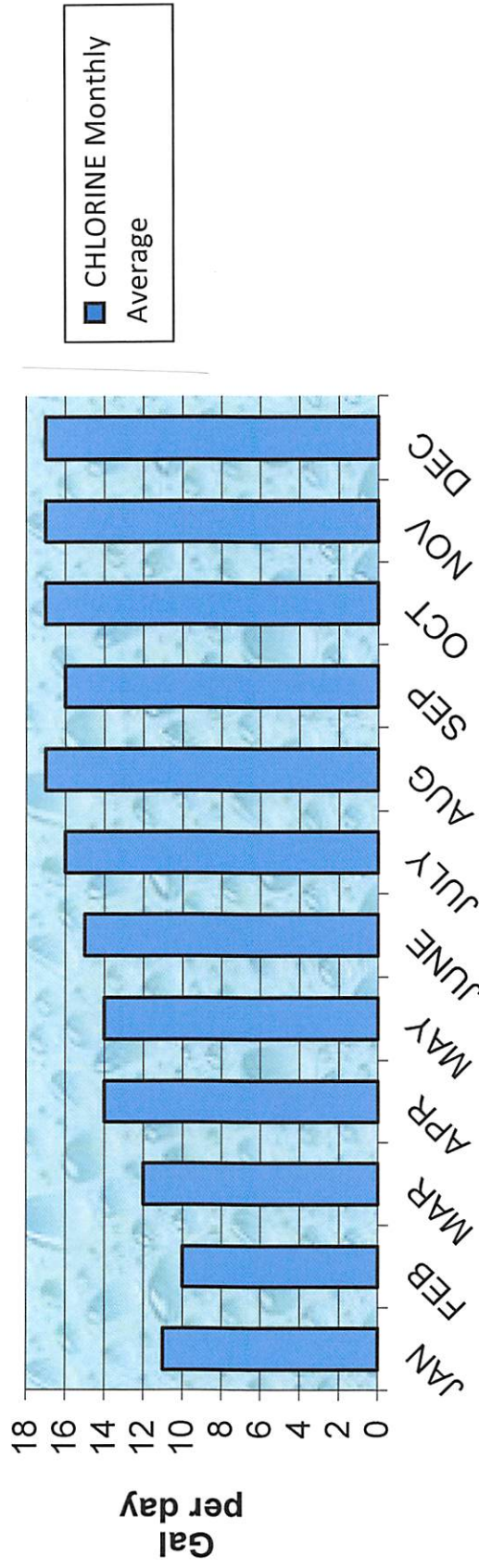


Seven day median shall not exceed 23 MPN.  
Any single sample shall not exceed 2300 MPN.

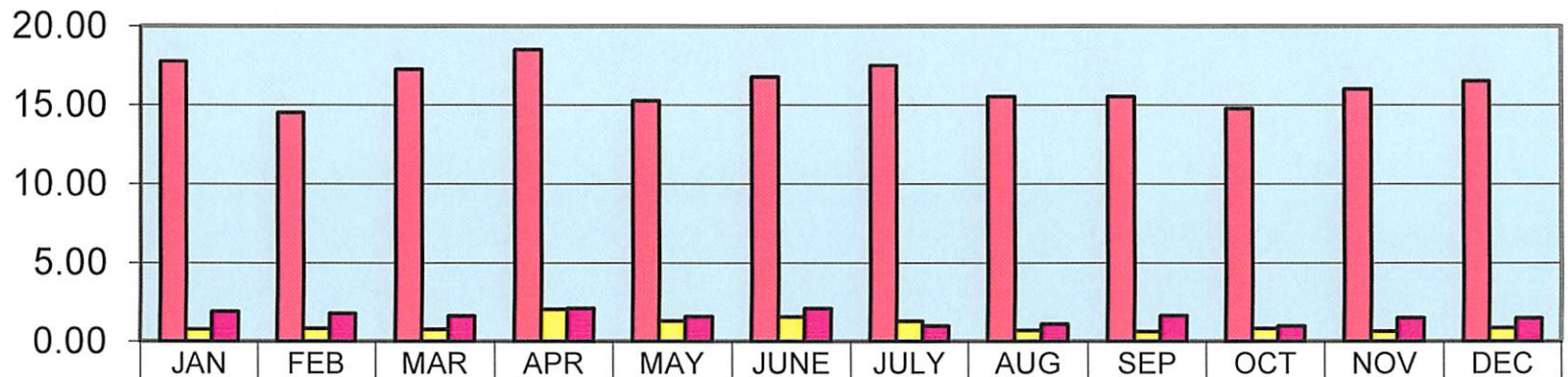
### SSD pH Standard Units 2020



### SSD CHLORINE Gal/day Monthly Average



### SSD EFFLUENT Mass Emissions Monthly 2020



	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
■ Max Emissions Lbs/d	17.76	14.51	17.26	18.51	15.26	16.76	17.51	15.51	15.51	14.76	16.01	16.51
■ Suspended Solids Lbs/d	0.76	0.81	0.78	2.05	1.32	1.57	1.29	0.72	0.61	0.82	0.65	0.87
■ BOD Lbs/d	1.90	1.80	1.61	2.10	1.60	2.10	1.00	1.10	1.66	1.00	1.50	1.47

■ Max Emissions Lbs/d     
 ■ Suspended Solids Lbs/d     
 ■ BOD Lbs/d

**Summerland Sanitary District  
Annual 2020**

MONTH	INST MAX	MAX DAILY	AVG DAILY	BOD MG/L	NPDES Limit	TURBIDITY NTU	NPDES Limit	AMMONIA MG/L	NPDES Limit	TSS MG/L	NPDES Limit
JAN	0.110	0.137	0.071	3.40	30	0.989	75	0.041	150	1.35	30
FEB	0.120	0.122	0.058	3.50	30	1.237	75	0.041	150	1.53	30
MAR	0.250	0.139	0.069	2.88	30	0.714	75	0.010	150	1.44	30
APR	0.100	0.143	0.074	3.80	30	0.980	75	0.010	150	3.51	30
MAY	0.080	0.126	0.061	3.10	30	0.805	75	0.010	150	2.37	30
JUNE	0.120	0.143	0.067	3.90	30	1.029	75	0.110	150	2.77	30
JULY	0.090	0.136	0.070	2.50	30	0.635	75	0.010	150	2.49	30
AUG	0.090	0.127	0.062	2.30	30	0.951	75	0.010	150	1.39	30
SEP	0.100	0.134	0.062	3.23	30	0.474	75	0.010	150	1.16	30
OCT	0.110	0.130	0.059	2.10	30	0.534	75	0.010	150	1.48	30
NOV	0.110	0.139	0.064	2.80	30	0.437	75	0.010	150	1.14	30
DEC	0.100	0.145	0.066	2.60	30	0.333	75	0.010	150	1.64	30
AVERAGE	<b>0.115</b>	<b>0.135</b>	<b>0.065</b>	<b>3.01</b>	30	<b>0.760</b>	75	<b>0.024</b>	150	<b>1.86</b>	30

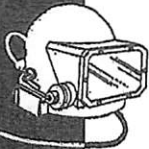
MONTH	T COLIFORM MPN/100 ML	NPDES Limit	PH Monthly Low	NPDES Low Limit	PH Monthly High	NPDES High Limit	CHLORINE Daily Av.	SLUDGE TONS	Max Emissions Lbs/d	TSS Lbs/d	BOD Lbs/d
JAN	3.2	23	6.75	6	7.25	9	11		17.76	0.76	1.90
FEB	6.7	23	6.70	6	7.04	9	10	48.80	14.51	0.81	1.80
MAR	2.7	23	6.77	6	7.21	9	12		17.26	0.78	1.61
APR	73.6	23	6.76	6	7.01	9	14		18.51	2.05	2.10
MAY	5.9	23	6.77	6	6.97	9	14		15.26	1.32	1.60
JUNE	29.3	23	6.80	6	7.06	9	15		16.76	1.57	2.10
JULY	1.8	23	6.95	6	7.18	9	16		17.51	1.29	1.00
AUG	2.0	23	6.80	6	7.25	9	17		15.51	0.72	1.10
SEP	1.8	23	6.85	6	7.45	9	16		15.51	0.61	1.66
OCT	1.8	23	6.87	6	7.55	9	17	50.45	14.76	0.82	1.00
NOV	1.8	23	6.82	6	7.24	9	17		16.01	0.65	1.50
DEC	1.8	23	6.71	6	7.06	9	17		16.51	0.87	1.47
AVERAGE	<b>11.0</b>	23	<b>6.80</b>	6	<b>7.19</b>	9	15	<b>49.62</b>	<b>16.32</b>	<b>1.02</b>	<b>1.57</b>

# Salty Dog Dive Service

## Summerland Sanitary District Outfall Dive Inspection Report August 10, 2020

On August 10, 2020 Salty Dog Dive Service performed an under water inspection of the Summerland Sanitary District outfall pipe and diffusers. We also cleaned and inspected the pipeline marker buoy, chain, swivel and shackles. Underwater visibility varied between 4'-6'. Below are our findings:

- On the first dive we cleaned the buoy and the chain from the buoy down to the clump weight. The buoy and chain were covered with mussels and hard marine growth. We scraped and scrubbed the buoy clean and also cleaned the top of the buoy, which was covered with guano. The anti-fouling bottom paint on the buoy is thin, about 80% gone and not very effective. The plastic cap on the top of the buoy is intact and secure. The stainless steel eye at the bottom of the buoy shows some wear but is still solid. The buoy is still listing a little and should be monitored as it is compromised. The chain from the bottom of the buoy to the clump weight on the bottom is slightly worn but solid for this season. The swivel under the buoy is solid and working well. All of the shackles are only slightly worn and they are secure and seized.
- On the second dive we inspected the outfall and diffusers. We started the outfall pipe inspection from the offshore end of the outfall, working toward the beach. First, we inspected the diffusers and found the east diffuser visibly flowing and no flow from the west diffuser. We then inspected the outfall pipe until it became completely buried in sand. There is 1 area where we saw flow coming from around the pipe which we later identified more clearly when looking for dye that was put into the pipe at the plant.
- The diffusers and the outfall pipe are completely covered with very heavy marine growth as well as having a lot of kelp growing on it and rust spots showing through in some areas. We cleared some of kelp off the diffusers so we could inspect them better.
- We did not see anything lying on the pipe.
- As we followed the pipe into the surf zone it became completely buried in the sand.



### Marine Contracting and Dive Service

6 Harbor Way #205, Santa Barbara, CA 93109 phone (805) 962-9009 • fax (805) 962-1979  
CA State License #763868



# Salty Dog Dive Service

We were able to inspect 30 joints and sections of pipe.

- Pipe / Joint 1: This pipe is laying flat in the sand, 80% buried. No scoured areas.
- Pipe / Joint 2: This pipe is laying flat in the sand, 60% buried. No scoured areas.
- Pipe / Joint 3: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 4: This pipe is laying flat in the sand, 40% buried. No scoured areas.
- Pipe / Joint 5: This pipe is laying flat in the sand, 50% buried. No scoured areas. There is very heavy growth on this pipe.
- Pipe / Joint 6: This pipe is laying flat in the sand, 50% buried. No scoured out areas. There are some rust spots visible through the growth.
- Pipe / Joint 7: This pipe is laying flat in the sand, but there is a short section where the sand is scoured out 2" – 3". The rest of this pipe is 30% buried. There is kelp growing off this pipe.
- Pipe / Joint 8: This pipe is laying flat in the sand, 20% buried with a few areas scoured out 2" – 3".
- Pipe / Joint 9: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 10: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 11: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 12: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 13: This pipe is laying flat in the sand, 60% buried. No scoured areas.
- Pipe / Joint 14: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 15: This pipe is laying flat in the sand, except for a small section towards #16 where the sand is about 3" scoured out. The rest of the pipe is 40% buried.
- Pipe / Joint 16: This pipe is laying flat in the sand, but there is 1 area where the sand is scoured out from under the pipe. The pipe appears to be leaking at this area. There are some cement bags around the pipe in this area.
- Pipe / Joint 17: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 18: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 19: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 20: This pipe is laying flat in the sand except a short section where the sand is scoured out 2" - 4", the rest is 50% buried.



## Marine Contracting and Dive Service

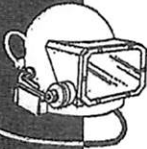
6 Harbor Way #205, Santa Barbara, CA 93109 phone (805) 962-9009 • fax (805) 962-1979  
CA State License #763868

# Salty Dog Dive Service

- Pipe / Joint 21: This pipe is laying flat in the sand, about 40% buried. There are some small rocks around the pipe. There is a short section with 2" – 4" of sand scoured out from under the pipe.
- Pipe / Joint 22: This pipe is laying flat in the sand, about 50% buried. There is a short section where the sand is scoured out about 2" – 4".
- Pipe / Joint 23: This pipe is laying flat in the sand, 50% buried. There is heavy growth and kelp on the pipe. No scoured areas.
- Pipe / Joint 24: This pipe is laying flat in the sand, 50% buried. No scoured areas. The pipe has kelp and heavy growth on it.
- Pipe / Joint 25: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 26: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 27: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Joint 28: This pipe is laying flat in the sand, mostly exposed and 10% buried. No scoured areas.
- Pipe / Joint 29: This pipe is laying flat in the sand, most of this pipe is about 50% buried. There is a short section about 1' where 2" – 4" of sand is scoured out.
- Pipe / Joint 30: The first few feet of this pipe is laying flat in the sand, about 50% buried and then it becomes completely buried in the sand.
- No other sections were visible after this point.

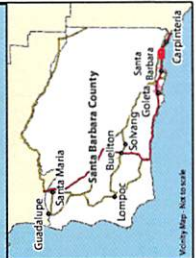
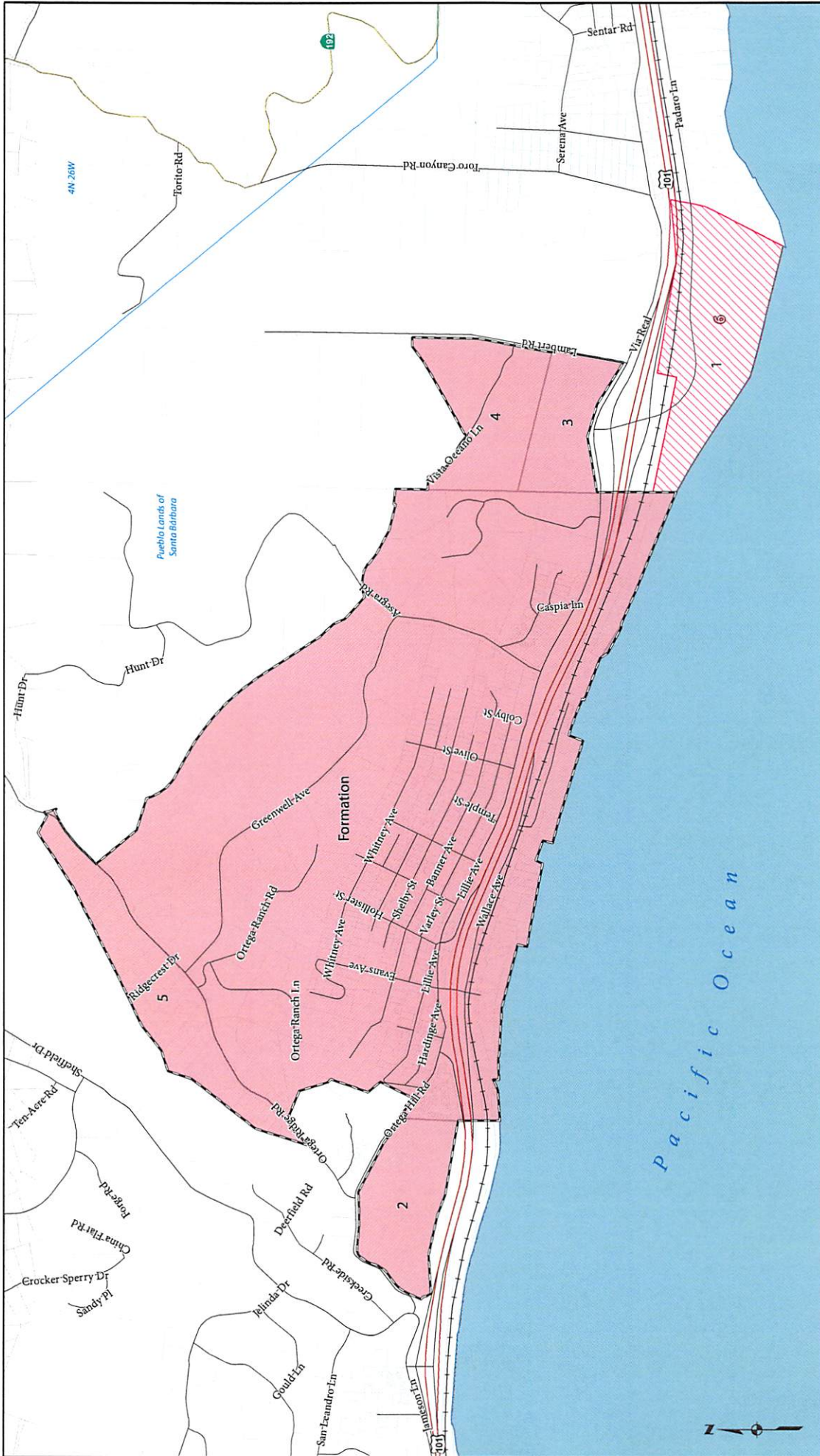
The recommendation at this time is to repair the leak in the pipe. The outfall marker buoy should also be monitored as it is listing and probably should be replaced in the near future.

Report prepared by Rick Sanchez  
Salty Dog Dive Service  
6 Harbor Way #205  
Santa Barbara CA 93109  
August 18, 2020

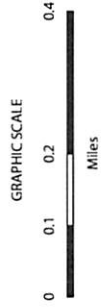


## Marine Contracting and Dive Service

6 Harbor Way #205, Santa Barbara, CA 93109 phone (805) 962-9009 • fax (805) 962-1979  
CA State License #763868



- Legend**
- Freeways
  - Highways
  - Roads
  - Railroads
  - Parcels
  - Sections
  - Ranchos and Townships
  - County Boundary
  - Sphere of Influence
  - Formation
  - Annexation
  - Detachment



### Summerland Sanitary District

Compiled by the Office of the County Surveyor on 5/9/2014. Formed 2/25/1957 by Board of Supervisors Resolution 16511. Last Action: 6 West Padaro Lane Reorganization, LAFCO 13-10, 2/10/2014. Sphere: 11/4/2010, modified 2/10/2014. See Boundary Activity Table at <http://www.countyofsb.org/pwd/pwsurveyor.aspx?id=23260>.

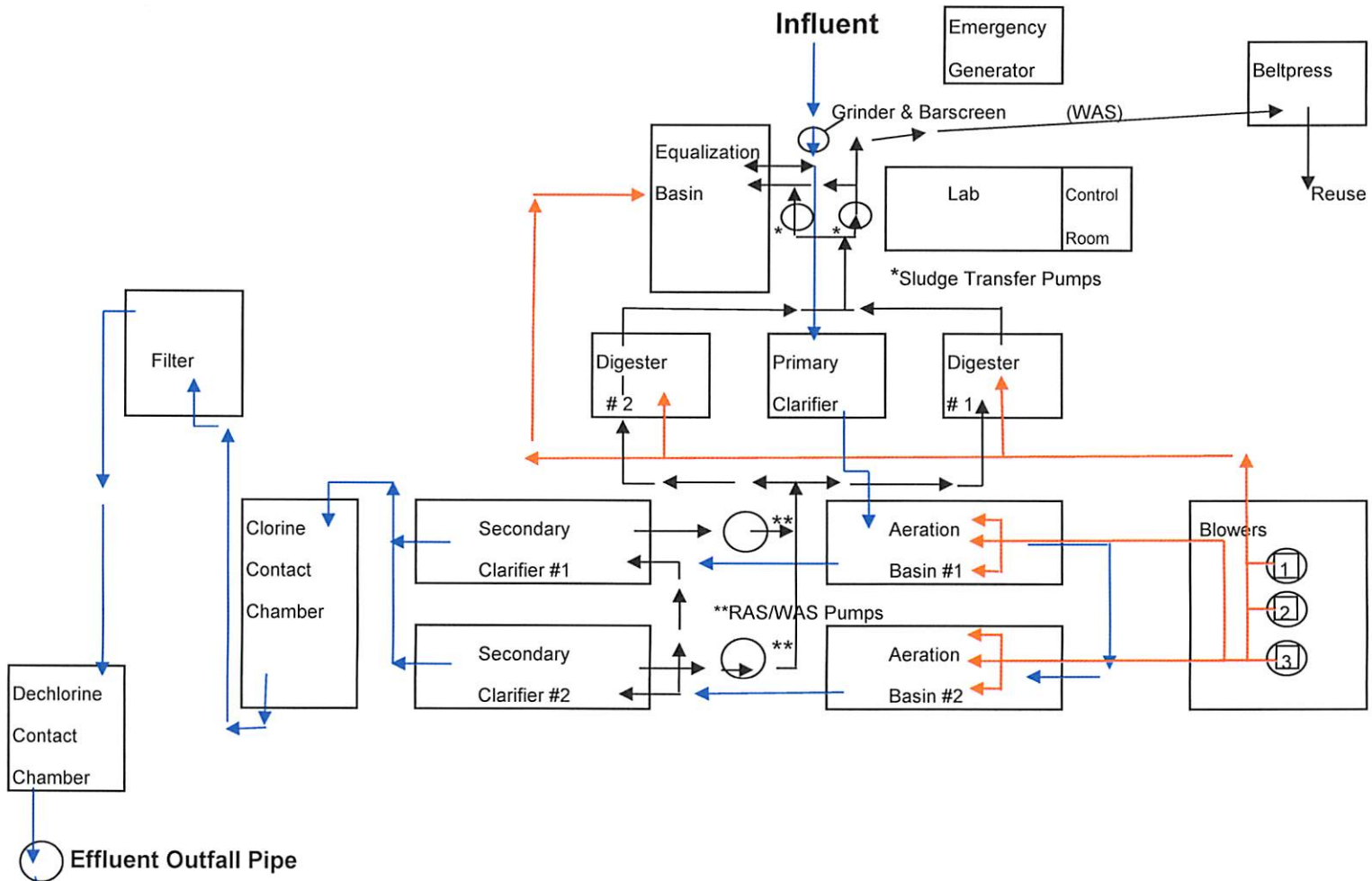
NOTICE OF DISCLAIMER: This data is for reference only. Although every effort has been made to ensure the accuracy of information, errors and conditions originating from physical sources used to develop the database may be reflected in this data. Santa Barbara County shall not be liable for any errors, omissions, or damages that result from inappropriate use of this document. No level of accuracy is claimed for the boundary lines shown hereon and lines should not be used to obtain coordinate values, bearings or distances.



# Summerland Sanitary District Boundary Activity

See map at <http://www.countyofsb.org/pwd/pwsurveyor.aspx?id=23260>

InternalNo	Title	Type	Effective	County_Res	County_DT	LAFCO_Res	Instrument	Recorded
0	Summerland Sanitary District Formation	Formation	2/25/1957	16511	2/25/1957			
1	Bailard Annexation 1-A, 1-B	Annexation	7/25/1960	20597	7/25/1960			
2	Jostens Inc. Annexation	Annexation	1/16/1961	21076	1/16/1961			
3	Carpinteria Valley Farms Annexation	Annexation	8/1/2003			02-17	2003-0105803	8/1/2003
4	Pacifica/Fell Annexation	Annexation	1/5/2004			03-14	2004-0003269	1/5/2004
5	Copus Annexation	Annexation	12/15/2004			04-04	2004-0132245	12/15/2004
6	West Padaro Lane Reorganization	Detachment	2/10/2014			13-10	2014-0006109	2/10/2014
	Summerland Sanitary District Sphere of Influence	SOI	11/4/2010					



**SUMMERLAND SANITARY DISTRICT**

Treatment Plant Flow Diagram

Design Flow .3 MGD

Average Daily Flow .065 MGD

legend:

Blue → Flow

Orange → Air

Black → RAS/WAS

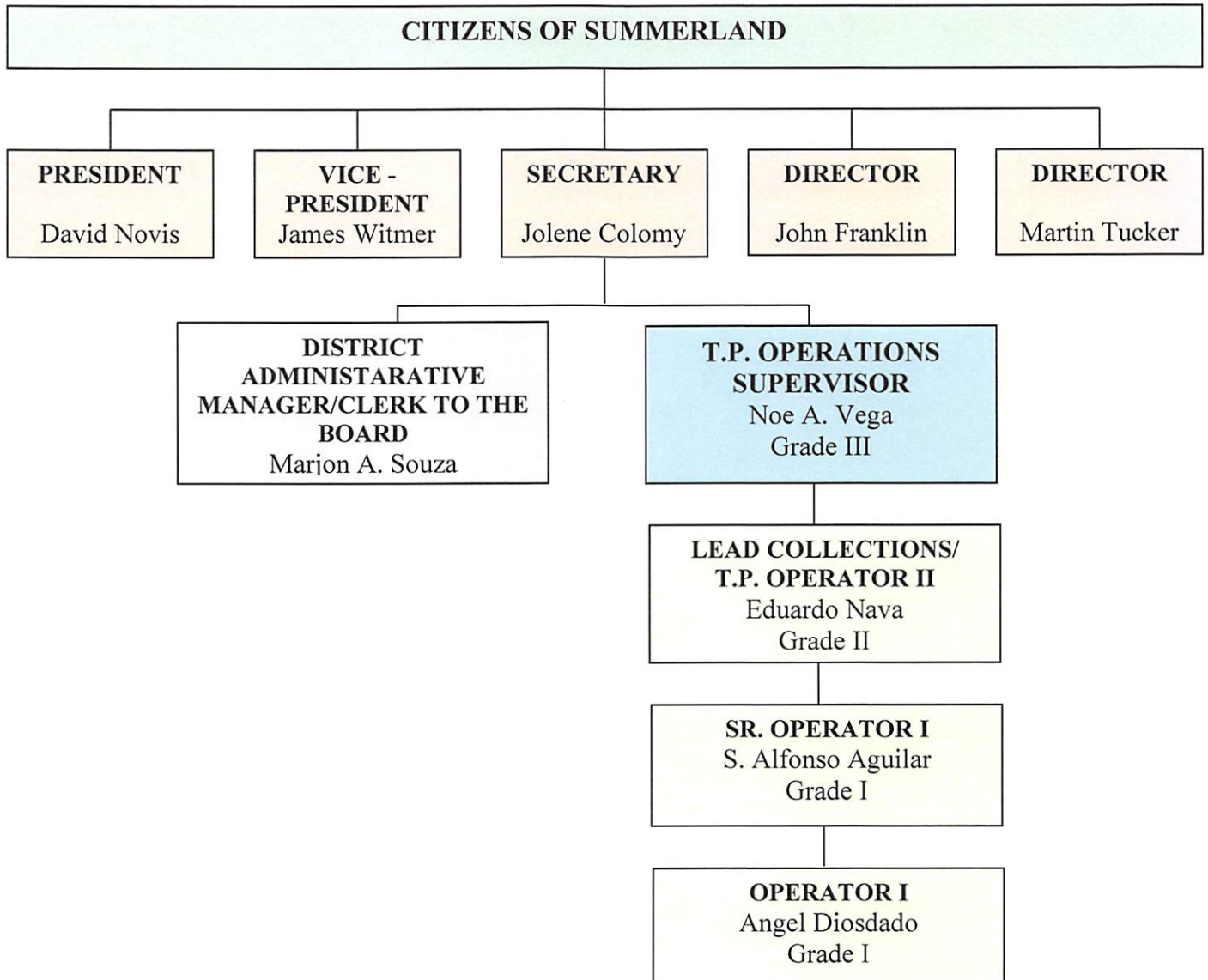
To Ocean Outfall

Santa Barbara Channel

34° 25' 00" North Latitude 119° 35' 48" West Longitude

NPDES No. CA0048054  
Order No. R3-2013-0042

### SUMMERLAND SANITARY DISTRICT ORGANIZATION CHART





September 11, 2020

**Summerland Sanitary District**  
P.O. Box 0417  
Summerland, CA 93067-0417

Lab ID : SP 2011054-001  
Customer ID : 2-2306

Sampled On : August 17, 2020-12:15  
Sampled By : Ed Nava  
Received On : August 17, 2020-15:20  
Matrix : Biosolids

Description : Biosolids  
Project : RWQCB Biosolids Monitoring

**Sample Result - Inorganic(Dry Weight)**

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation		Sample Analysis				
							Method	ID	Time	Method	ID	Time	
<b>Metals, Total</b>													
Boron	128	5.4	0.10	mg/kg	0.96154		3050	209957	08/26/20	08:07	200.7	213701-IT204	08/28/20-16:24ac
Cadmium	0.624	0.32	0.051	mg/kg	0.96154		3050	209957	08/26/20	08:07	200.7	213701-IT204	08/28/20-16:24ac
Chromium	12.7	0.54	0.030	mg/kg	0.96154	h	3050	209957	08/26/20	08:07	200.7	213701-IT204	08/28/20-16:24ac
Copper	769	0.54	0.064	mg/kg	0.96154		3050	209957	08/26/20	08:07	200.7	213701-IT204	08/28/20-16:24ac
Lead	9.33	1.1	0.065	mg/kg	0.96154		3050	209957	08/26/20	08:07	200.7	213701-IT204	08/28/20-16:24ac
Nickel	14.3	0.54	0.14	mg/kg	0.96154	h	3050	209957	08/26/20	08:07	200.7	213701-IT204	08/28/20-16:24ac
Phosphorus	18700	52	0.60	mg/kg	9.6154	P	3050	209957	08/26/20	08:07	6010B	214375-IT205	09/09/20-02:21AC
Silver	0.331	16	0.025	mg/kg	4.8077	UhP	3050	209957	08/26/20	08:07	6010B	214163-IT205	09/03/20-20:43AC
Zinc	630	1.1	0.94	mg/kg	0.96154	hP	3050	209957	08/26/20	08:07	200.7	213701-IT204	08/28/20-16:24ac
<b>Wet Chemistry</b>													
Ammonia Nitrogen	421	17	0.17	mg/kg	4		4500NH3B	210409	09/04/20	10:00	4500NH3G	214180-FI209	09/04/20-11:30JDD
% Moisture	7.40	0.1	0.030	%	0.99629	b	2540G	209806	08/21/20	17:54	2540B	213369-WT215	08/22/20-15:44AMM
Nitrate Nitrogen	1040	160	0.26	mg/kg	14.97		300	210177	08/31/20	11:45	300.0	213921-IC211	09/01/20-04:34JMR
Nitrogen, Total Kjeldahl	3420	200	0.0	mg/kg	8		351.2	209699	08/20/20	08:16	EPA351.2	213319-FI209	08/21/20-12:36JDD
pH	5.48	--	0.0	units	1	T	9045C	210662	09/10/20	14:52	4500HB	214497-PH203	09/10/20-15:04JBA



**BABCOCK Laboratories, Inc.**  
*The Standard of Excellence for Over 100 Years*

Client Name: FGL Environmental, Inc.  
 Contact: Cindy Aguirre  
 Address: 853 Corporation Street  
 Santa Paula, CA 93060

Analytical Report: Page 2 of 6  
 Project Name: No Project  
 Project Number: SP 2011054 - (2-2306)

Report Date: 18-Sep-2020

**Work Order Number: C0H2449**  
 Received on Ice (Y/N): Yes Temp: 3 °C

Laboratory Reference Number  
**C0H2449-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Biosolids	Sludge	08/17/20 12:15	08/19/20 10:10

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
<b>Solids</b>								
Total Solids	93	0.10	0.10	%	SM 2540G	08/19/20 10:10	CLN	
<b>Aggregate Organic Compounds</b>								
Oil & Grease (HEM)	ND	0.11	0.11	% dry	EPA 9071B	08/25/20 11:30	CAA	
<b>Metals and Metalloids; EPA SW846 Series</b>								
Mercury	0.19	0.11	0.0098	mg/kg dry	EPA 7471A	08/21/20 12:53	AJH	

*mailing*  
 P.O Box 432  
 Riverside, CA 92502-0432

*location*  
 6100 Quail Valley Court  
 Riverside, CA 92507-0704

P 951 653 3351  
 F 951 653 1662  
 www.babcocklabs.com

CA ELAP No. 2698  
 EPA No. CA00102  
 NELAP No. OR4035  
 LACSD No. 10119



SUMMERLAND 2020

Month	Wet Tons	% Solids	Dry Tons
Jan			-
Feb	48.80	18.9%	8.37
Mar			-
April			-
May			-
June			-
July			-
Aug			-
Sept			-
Oct	50.45	25%	11.44
Nov			-
Dec			-
Total	99.25	22.0%	19.76