



ANNUAL REPORT 2021



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



January 27, 2022

SUBJECT: NPDES Permit No. CA0048054
ORDER No. R3-2013-0042
Annual Report-2021

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 2021. 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, Operations Manager, Grade III-42178, expiration date 11/20/2023. Mr. Vega holds a Collections System Maintenance Grade I #1308216043 CWEA. Expiration date 09/30/2022.
- Eduardo Nava, Lead Collections/ Treatment Plant Operator II, Grade II- 42423 expiration date 05/09/2023. Mr. Nava holds a Collections System Maintenance Grade 2 # 1308221151 CWEA. Expiration date 03-31-2022.
- Ronnie Perez, Operator II, Grade II-44916, expiration date 08/19/2024.
- Servando A. Aguilar, Sr. Operator I, Grade I-9369, expiration date 12/31/2023.

During 2021, 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 2021, a total of 48.70 tons of biosolids were hauled to San Joaquin Composting facility in Kern County by Liberty Composting.

On August 17, 2021, 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 2374625.

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 District Atlas with any changes that may be needed (new service connections, new manholes, collection system repairs etc.).
- As the collection system is televised, update property connection data for future reference. This entails getting footage from the nearest manhole to property lateral connection into the 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 2021:

- In 2021, approx. 52,879 feet of collection mainline was cleaned by District staff using trailer jetter. Approx. 7,686 feet of mainline was televised by District staff with closed circuit televising equipment.
- On January 26, 2021, Robotic Sewer Solutions sealed an abandoned service lateral within the district's collections system on Ortega Hill Road by installing a sectional liner.
- On June 30, 2021, Tierra Contracting replaced a section of mainline that was cracked and offset within the district's collection system on Golden Gate Avenue. A new section of SDR35 pipe was installed to replace the fractured section.
- On November 30, 2021, Tierra Contracting replaced a section of mainline that was cracked and offset within the district's collection system on Wallace Avenue. A new section of SDR35 pipe was installed to replace the fractured section.

- On August 17, 2021, Salty Dog Diving Services cleared both the east and west ocean outfall pipeline diffusers.
- On November 15, 2021, Salty Dog Dive Service removed the old outfall marker buoy and worn chain. They installed a new buoy with a stainless-steel eye and internal radar reflector. The buoy is labeled with a “No Mooring / Outfall” reflective sticker on it. They also replaced the worn chain from the buoy down to the clump weight.
- A high-water level back up float switch was installed at lift station #2. The backup float switch was installed to prevent sanitary sewer overflows from occurring if the first water level meter fails. If the first meter were to fail, the backup float switch will function as an alternative to the first meter and activate the sludge pumps to pump down the lift station well just as the first meter does daily.
- Annual and routine maintenance of three lift stations and four on-site generators.

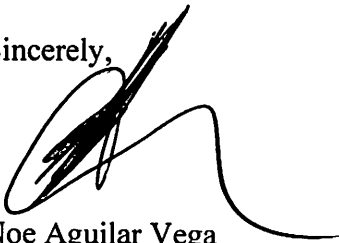
2021 Reported Overflows:

- No sanitary sewer overflows were report for the calendar year 2021.

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,

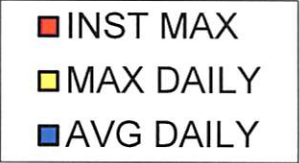
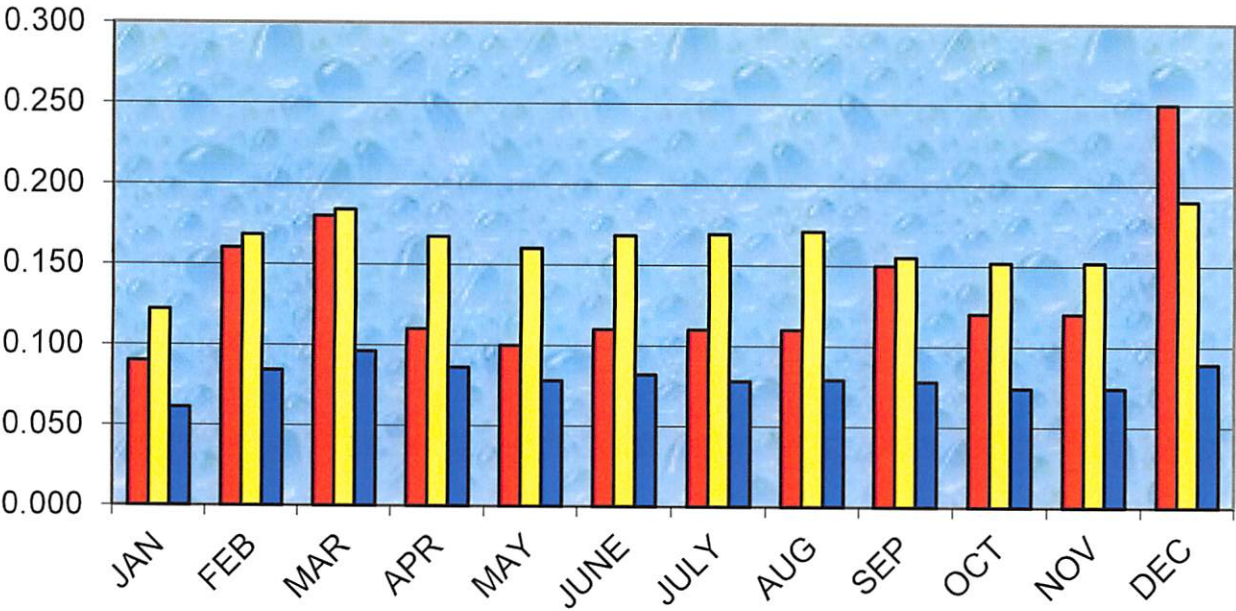
A handwritten signature in black ink, appearing to read 'Noe Aguilar Vega', with a long, sweeping underline that extends to the right.

Noe Aguilar Vega
Operations Manager
Summerland Sanitary District

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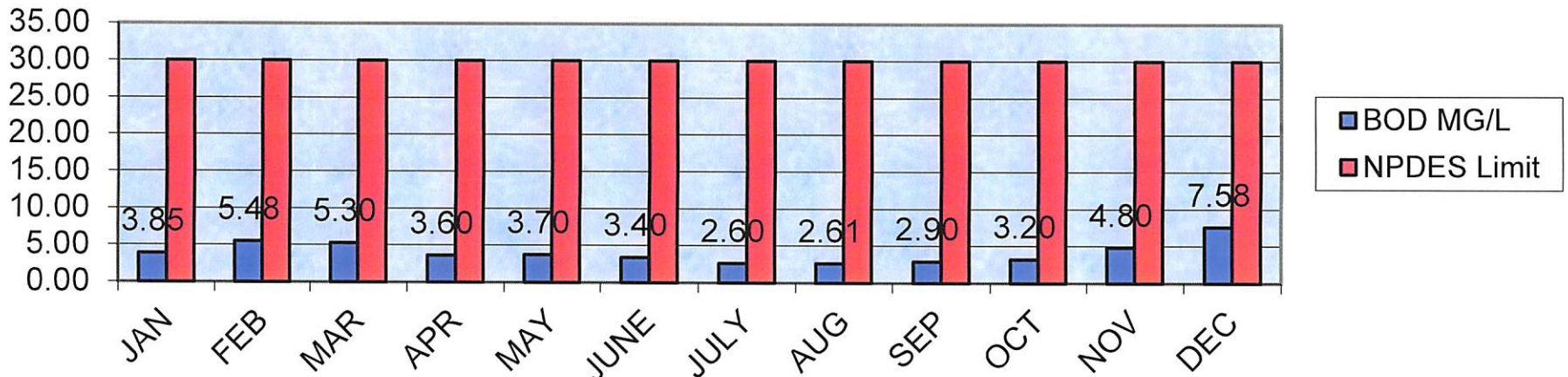
SSD FLOW DATA MGD 2021



Yearly Averages

InstMax	MaxDaily	Avg.Daily
0.134	0.163	0.08

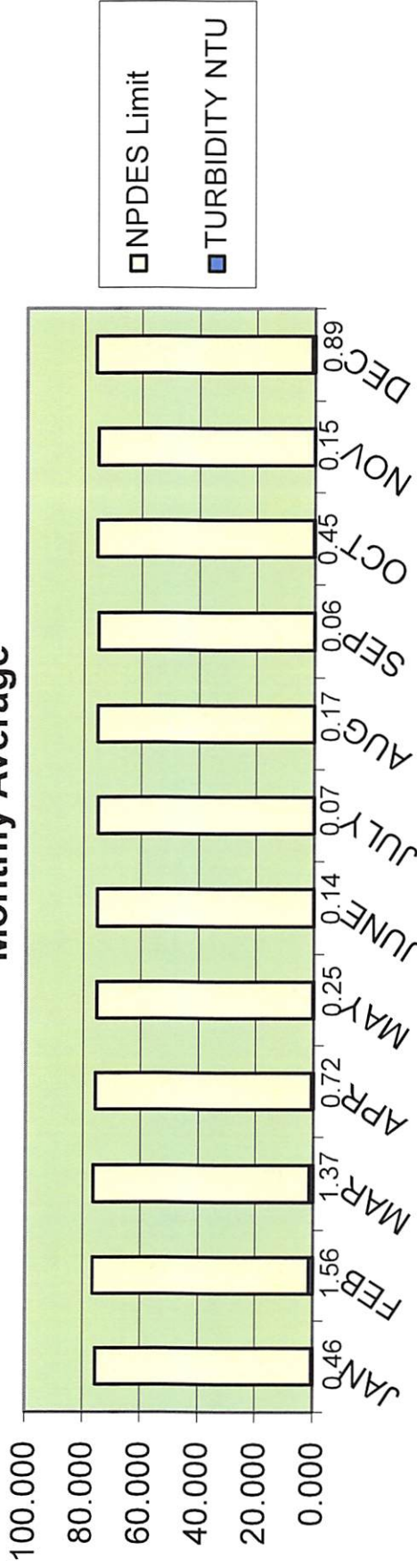
SSD BOD MG/L 2021 Monthly Average



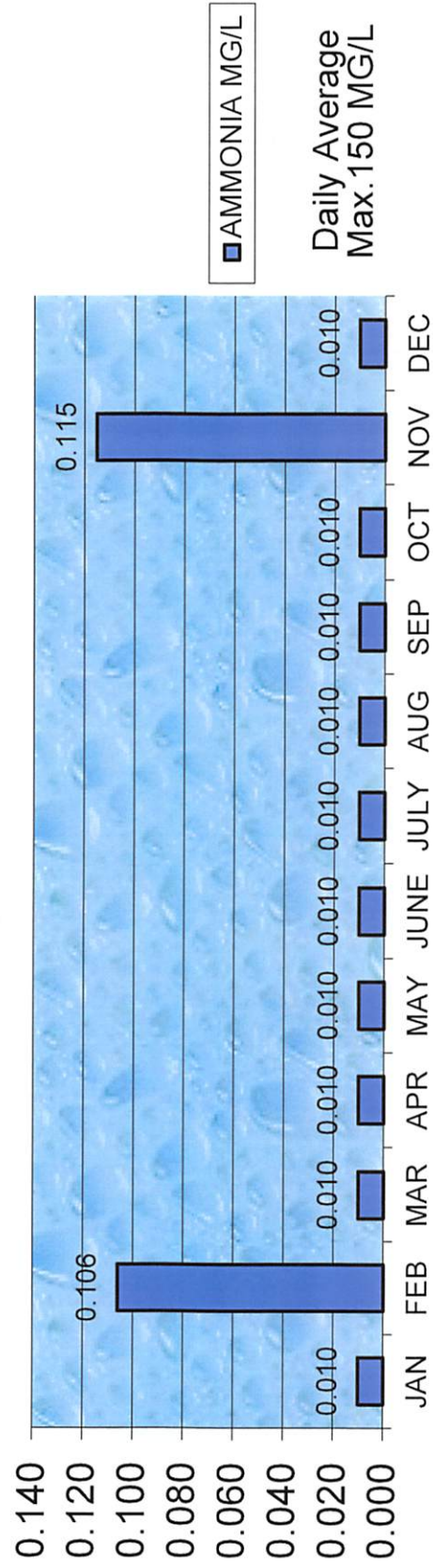
SSD TURBIDITY 2021

NTU

Monthly Average

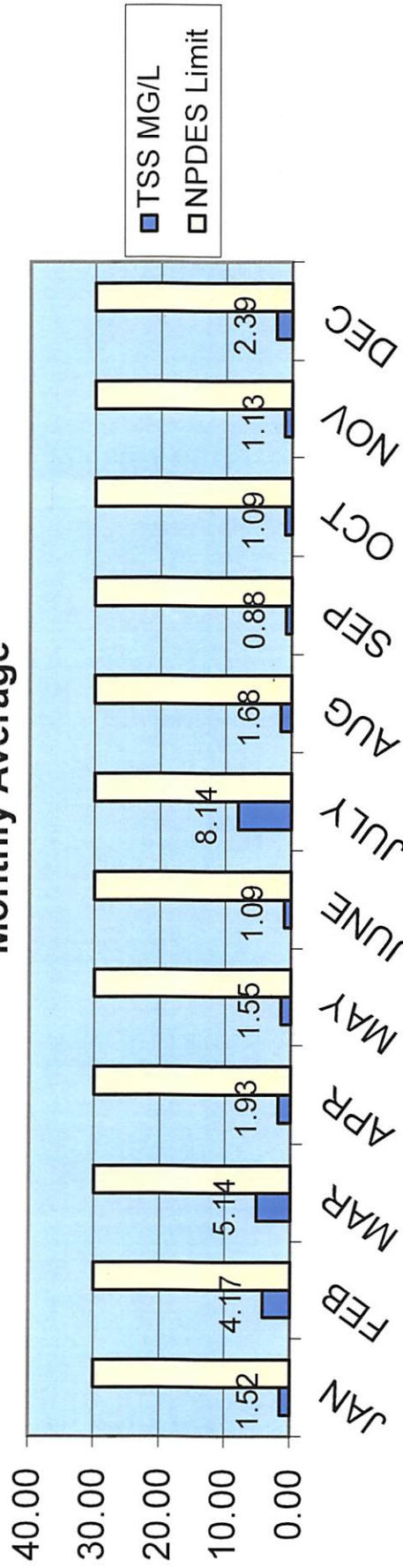


SSD AMMONIA MG/L 2021 Monthly Average

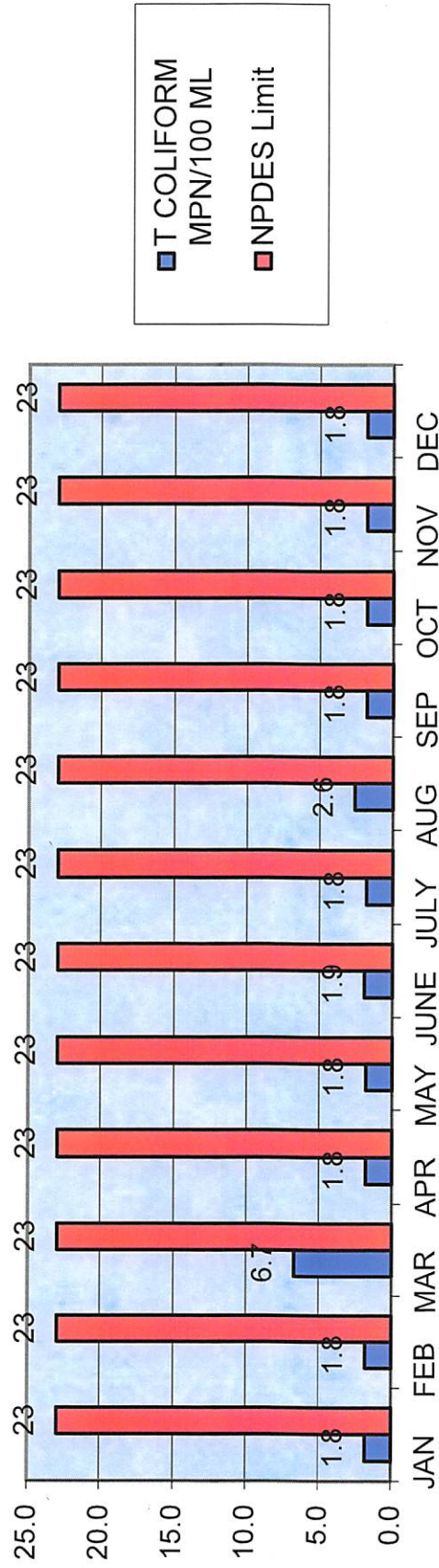


SSD TSS MG/L 2021

Monthly Average

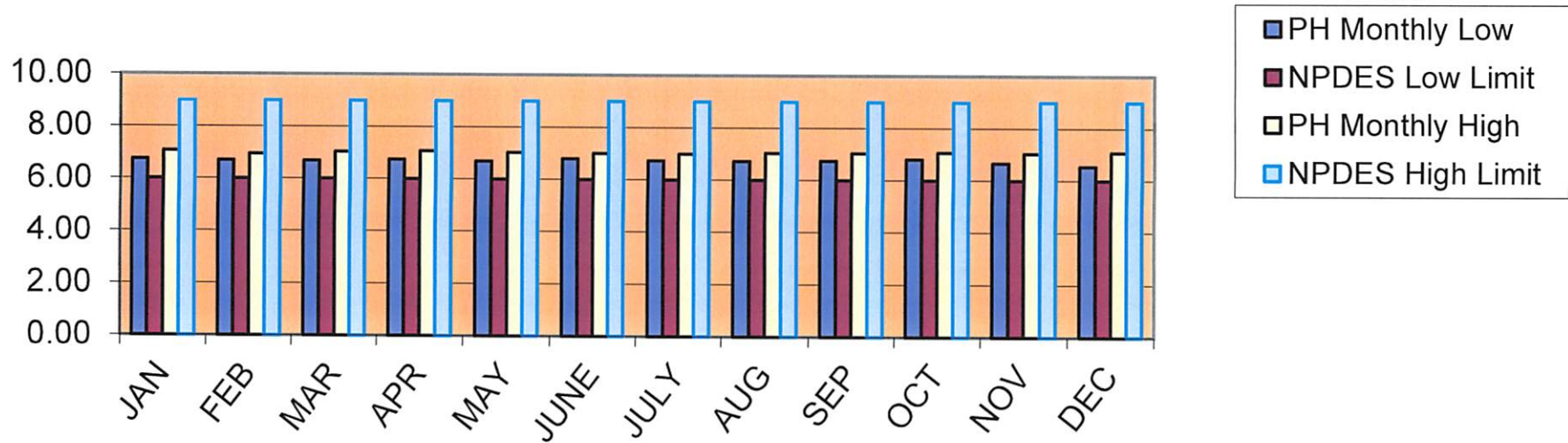


SSD TOTAL COLIFORM 2021

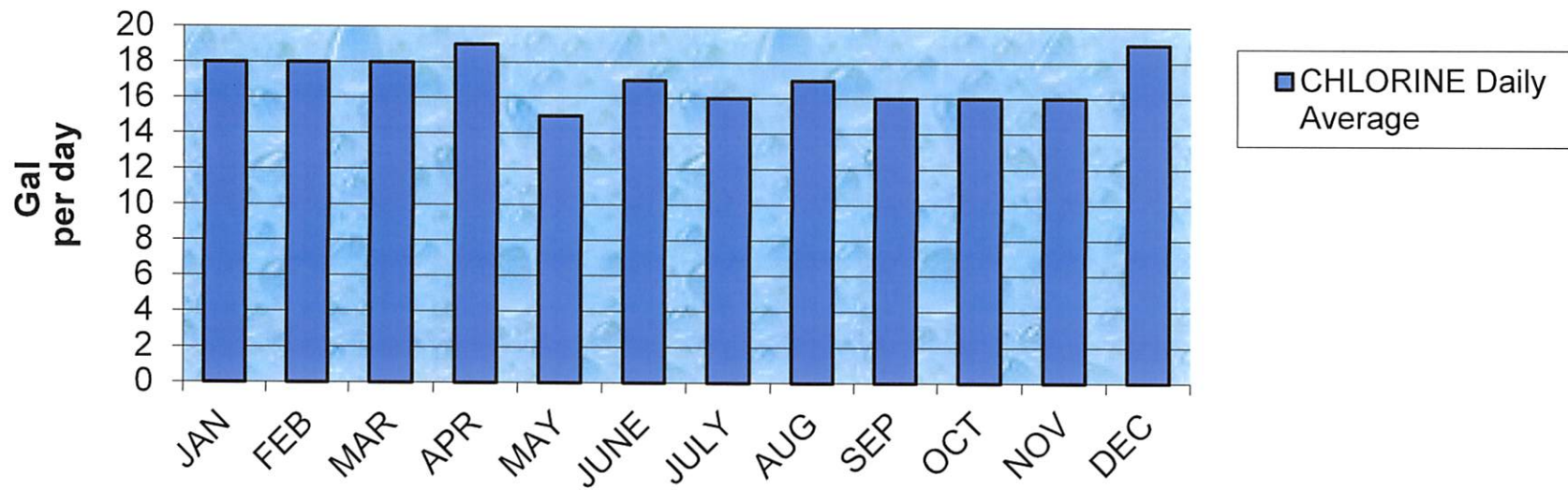


Seven day median shall not exceed 23 MPN.
 Any single sample shall not exceed 2300 MPN.

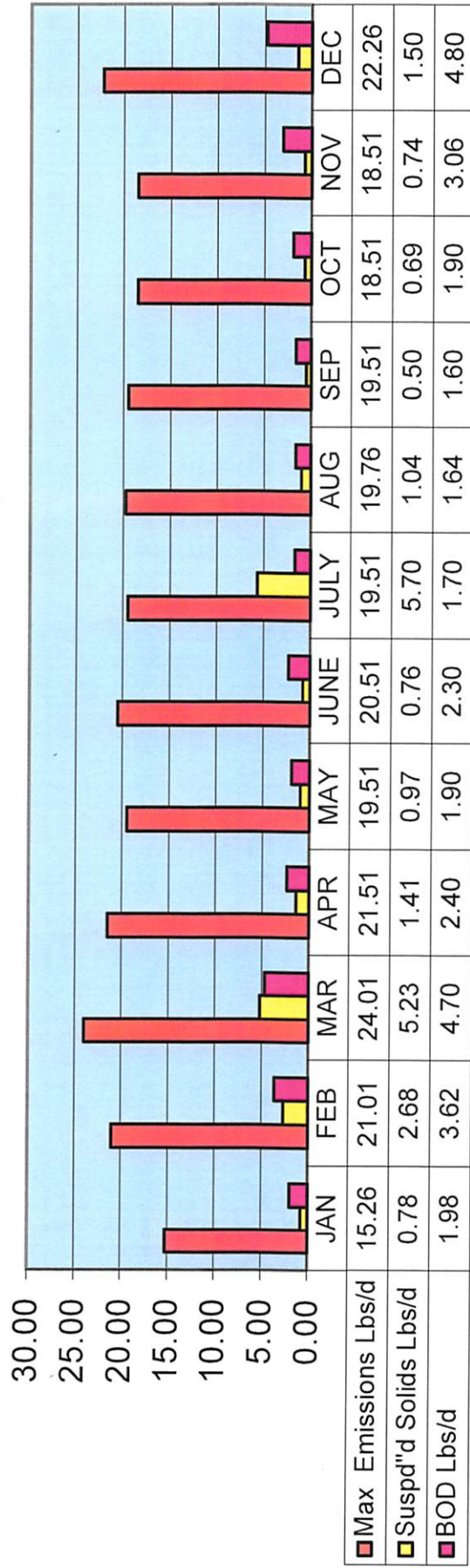
SSD pH Standard Units 2021



SSD CHLORINE Gal/day 2021 Monthly Average



SSD EFFLUENT Mass Emissions Monthly 2021



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

Summerland Sanitary District Annual 2021

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	0.090	0.122	0.061	3.85	30	0.458	75	0.010	150	1.52	30
FEB	0.160	0.168	0.084	5.48	30	1.556	75	0.106	150	4.17	30
MAR	0.180	0.184	0.096	5.30	30	1.374	75	0.010	150	5.14	30
APR	0.110	0.167	0.086	3.60	30	0.719	75	0.010	150	1.93	30
MAY	0.100	0.160	0.078	3.70	30	0.250	75	0.010	150	1.55	30
JUNE	0.110	0.168	0.082	3.40	30	0.136	75	0.010	150	1.09	30
JULY	0.110	0.169	0.078	2.60	30	0.072	75	0.010	150	8.14	30
AUG	0.110	0.171	0.079	2.61	30	0.168	75	0.010	150	1.68	30
SEP	0.150	0.155	0.078	2.90	30	0.062	75	0.010	150	0.88	30
OCT	0.120	0.152	0.074	3.20	30	0.445	75	0.010	150	1.09	30
NOV	0.120	0.152	0.074	4.80	30	0.147	75	0.115	150	1.13	30
DEC	0.250	0.190	0.089	7.58	30	0.892	75	0.010	150	2.39	30
AVERAGE	0.134	0.163	0.080	4.09	30	0.523	75	0.027	150	2.56	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	1.8	23	6.75	6	7.06	9	18		15.26	0.78	1.98
FEB	1.8	23	6.70	6	6.95	9	18		21.01	2.68	3.62
MAR	6.7	23	6.69	6	7.04	9	18		24.01	5.23	4.70
APR	1.8	23	6.75	6	7.06	9	19		21.51	1.41	2.40
MAY	1.8	23	6.68	6	7.02	9	15	48.70	19.51	0.97	1.90
JUNE	1.9	23	6.79	6	7.00	9	17		20.51	0.76	2.30
JULY	1.8	23	6.73	6	6.99	9	16		19.51	5.70	1.70
AUG	2.6	23	6.72	6	7.03	9	17		19.76	1.04	1.64
SEP	1.8	23	6.74	6	7.04	9	16		19.51	0.50	1.60
OCT	1.8	23	6.81	6	7.06	9	16		18.51	0.69	1.90
NOV	1.8	23	6.67	6	7.03	9	16		18.51	0.74	3.06
DEC	1.8	23	6.55	6	7.08	9	19		22.26	1.50	4.80
AVERAGE	2.3	23	6.72	6	7.03	9	17	48.70	19.99	1.83	2.63

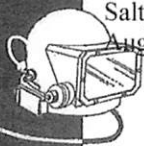
Salty Dog Dive Service

Summerland Sanitary District Outfall Dive Inspection Report August 17, 2021

On August 17, 2021 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 3'-5'. Below are our findings:

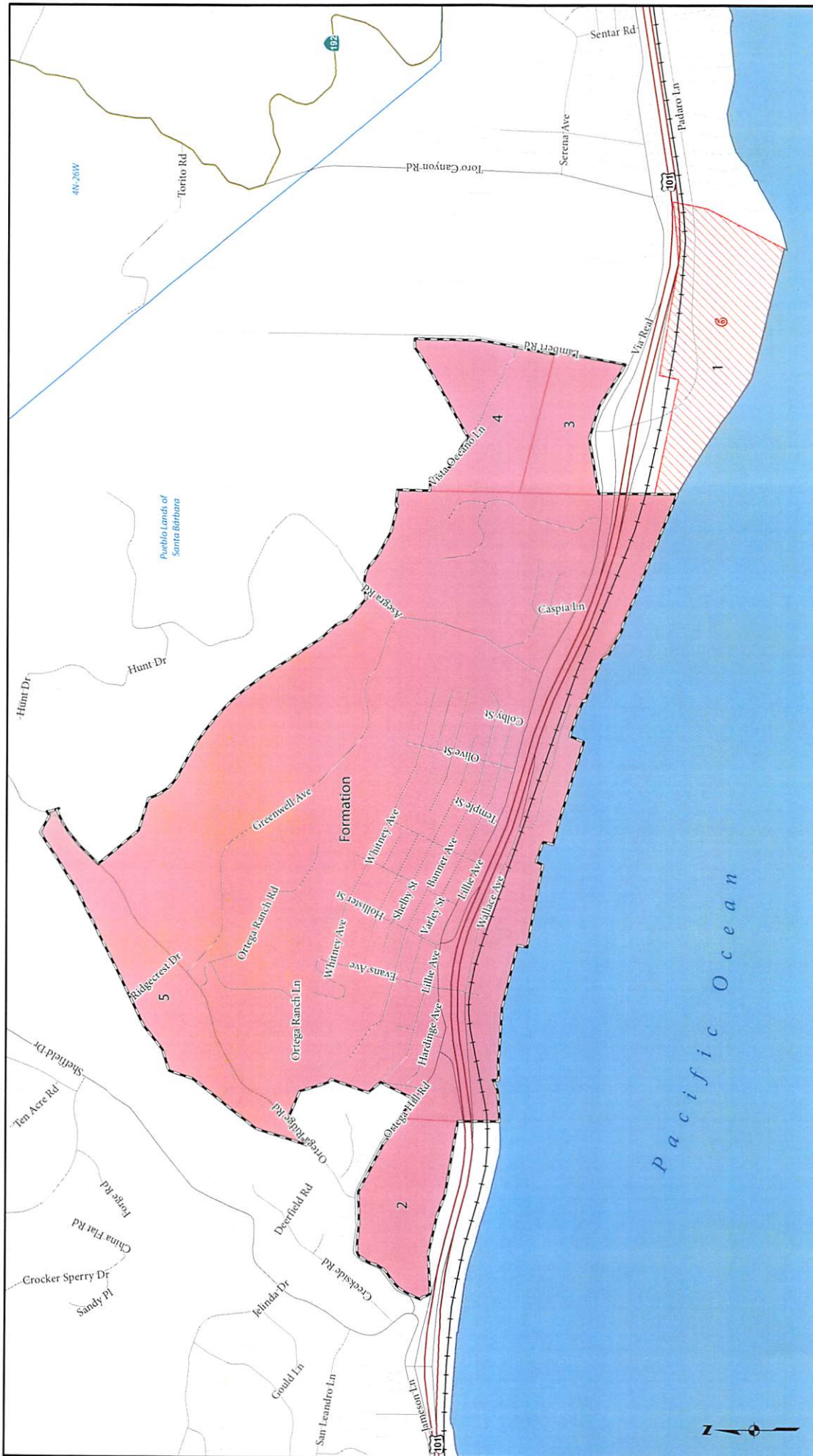
- On the first dive we cleaned the buoy and the chain from the buoy down to the clump weight. The buoy and chain were covered with mussels and hard marine growth. We scraped and scrubbed the buoy clean and also cleaned the top of the buoy, which was covered with guano. The anti-fouling bottom paint on 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. 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 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 west diffuser visibly flowing and no flow from the east diffuser. We then inspected the outfall pipe until it became completely buried in sand. We were able to inspect inshore to the 25th pipe. The pipe became buried at that point. We inspected the patch and hardware. It looks secure with all of the bolts intact. No effluent was visible coming from the repaired area.
- The diffusers and the outfall pipe are completely covered with very heavy marine growth as well as having kelp growing on it. There are small rust spots showing through the growth in some areas. We conservatively scraped the growth off the pipe in a few spots and the pipe appears to be rough with some pitting. We cleared some of kelp off the diffusers so we could inspect them better. We did not see any areas of the pipeline that were damaged and there was also no effluent leaking from the pipeline.
- 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 at the 26th pipe.

Report prepared by Rick Sanchez
Salty Dog Dive Service
August 20, 2021

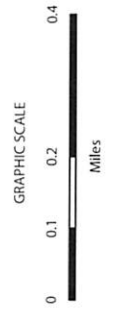


Marine Contracting and Dive Service

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>.

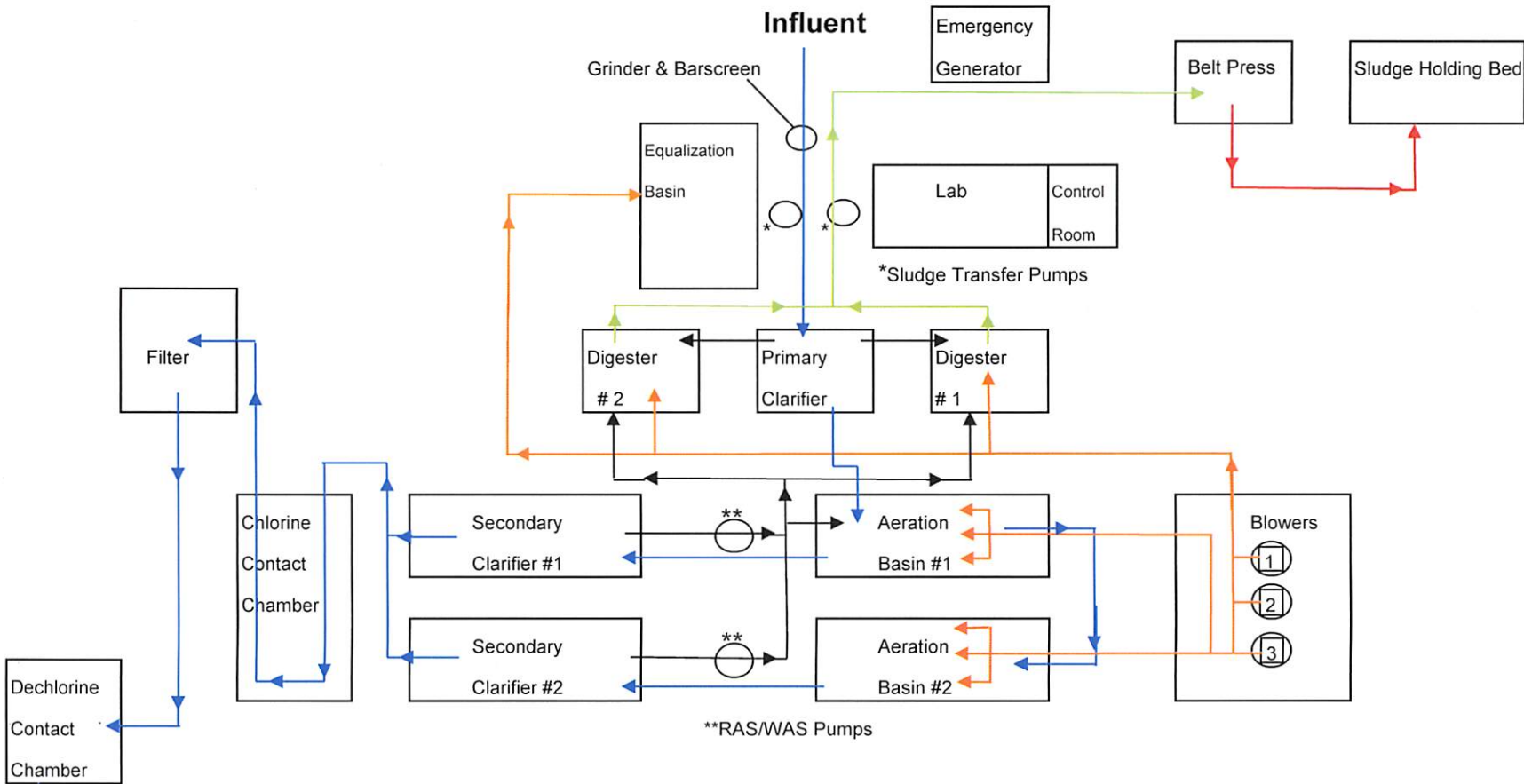
NOTICE OF PUBLIC SALE: The information on this map has been made to ensure the accuracy of information, errors and conditions originating from physical sources or data providers. The County Surveyor will not be liable for any errors, omissions, or damages that result from inappropriate use of this document. 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					



Effluent Outfall Pipe
 To Ocean Outfall
 Santa Barbara Channel
 34° 25' 00" North Latitude 119° 35' 48" West Longitude

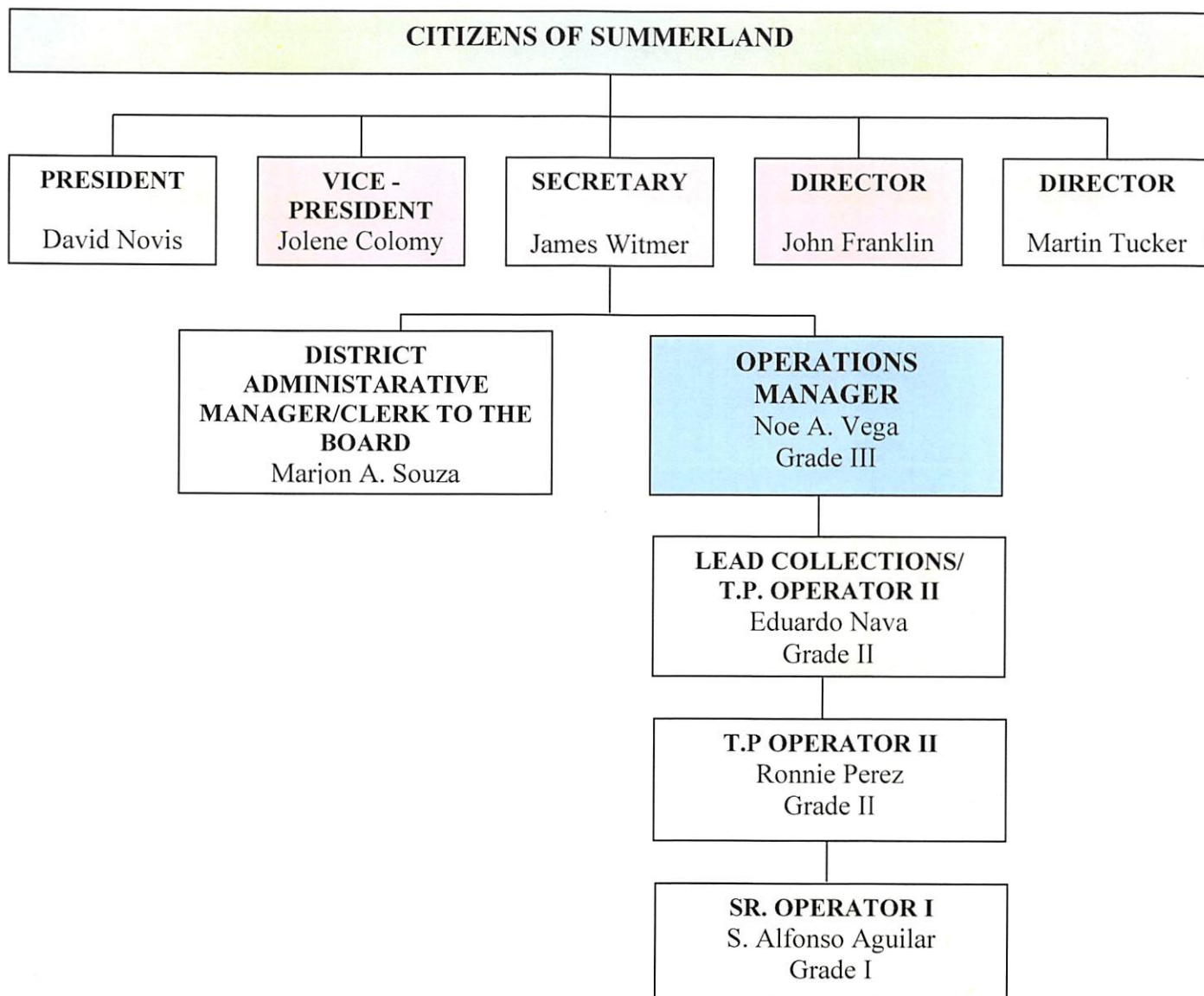
SUMMERLAND SANITARY DISTRICT

Treatment Plant Flow Diagram
 Design Flow .3 MGD
 Average Daily Flow .08 MGD

- Legend:
- Blue → Wastewater Flow
 - Orange → Air Flow
 - Black → RAS/WAS Flow
 - Green → Sludge Flow to Dewatering
 - Red → Biosolids Handling

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

SUMMERLAND SANITARY DISTRICT ORGANIZATION CHART



August 26, 2021

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

Lab ID : SP 2110392-001
 Customer ID : 2-2306

Sampled On : August 2, 2021-12:50
 Sampled By : Eduardo Nava
 Received On : August 2, 2021-15:30
 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
Metals, Total												
Boron	124	5.3	0.10	mg/kg	0.8547	h	3050	209147	08/10/21	17:54	6010B	212431-IT204 08/11/21-22:25AC
Cadmium	0.827	0.32	0.028	mg/kg	0.8547		3050	209147	08/10/21	17:54	6010B	212431-IT204 08/11/21-22:25AC
Chromium	14.8	0.53	0.13	mg/kg	0.8547		3050	209147	08/10/21	17:54	6010B	212431-IT204 08/11/21-22:25AC
Copper	1210	2.3	0.063	mg/kg	4.2735		3050	209147	08/10/21	17:54	6010B	212439-IT204 08/12/21-11:28AC
Lead	11.2	1.1	0.22	mg/kg	0.8547		3050	209147	08/10/21	17:54	6010B	212431-IT204 08/11/21-22:25AC
Nickel	15.4	0.53	0.14	mg/kg	0.8547		3050	209147	08/10/21	17:54	6010B	212431-IT204 08/11/21-22:25AC
Phosphorus	14400	45	0.60	mg/kg	8.547	P	3050	209147	08/10/21	17:54	6010B	212439-IT204 08/12/21-11:34AC
Silver	4.57	4.5	0.86	mg/kg	4.2735	hP	3050	209147	08/10/21	17:54	6010B	212439-IT204 08/12/21-11:28AC
Zinc	758	1.1	0.92	mg/kg	0.8547	P	3050	209147	08/10/21	17:54	6010B	212431-IT204 08/11/21-22:25AC
Wet Chemistry												
Ammonia Nitrogen	1930	34	2.1	mg/kg	8	l	4500NH3B	209222	08/13/21	07:45	4500NH3G	212507-FI209 08/13/21-10:07jdd
% Moisture	5.90	0.099	0.030	%	0.9947		2540G	208821	08/03/21	19:47	2540B	212097-WT215 08/06/21-17:09LCR
Nitrate Nitrogen	1170	110	0.26	mg/kg	10		300	209077	08/09/21	13:45	300.0	212387-IC210 08/10/21-16:46NJB
Nitrogen, Total Kjeldahl	12400	850	15	mg/kg	32	l	351.2	209318	08/15/21	13:35	EPA351.2	212613-FI209 08/16/21-09:25jdd
pH	6.33	---		units	3		9045C	209744	08/24/21	16:54	4500HB	213123-PH214 08/24/21-17:11jba
DQF Flags Definition:												
h The MS/MSD did not meet QC criteria.												
l The MS/MSD did not meet QC criteria.												
P Post Digestion Spike (PDS) not within Acceptance Range (AR).												

ND=Non-Detected. PQL=Practical Quantitation Limit.



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 2110392

Report Date: 01-Sep-2021

Work Order Number: C1H0782
 Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

C1H0782-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Biosolids	Sludge	08/02/21 12:50	08/05/21 9:47

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Solids								
Total Solids	94	0.10	0.10	%	SM 2540G	08/05/21 09:47	CLN	
Aggregate Organic Compounds								
Oil & Grease (HEM)	ND	0.10	0.10	%	EPA 9071B	08/19/21 09:20	EV	
Metals and Metalloids; EPA SW846 Series								
Mercury	0.015	0.050	0.0045	mg/kg	EPA 7471A	08/21/21 16:49	HRL	J

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 2021

Month	Wet Tons	% Solids	Dry Tons
Jan			-
Feb			-
Mar			-
April			-
May	48.70	23.4%	10.34
June			-
July			-
Aug			-
Sept			-
Oct			-
Nov			-
Dec			-
Total	48.70	23.4%	10.34