

CRESTLINE SANITATION DISTRICT

2023

Annual Report



CRESTLINE SANITATION DISTRICT ANNUAL REPORT

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**Crestline Sanitation District
Annual Report
Summation
2023**

Crestline Sanitation District collected, treated, and discharged 338.9 million gallons of wastewater in 2023. We had a total of 94 flow violations in 2023 in which all were 24 hour violations. These violations were due to storm events which occurred in February and March of 2023 in which the District received 31.5 inches of rain for the year. This rain and snow storm event affected the whole region causing road closures roof collapse's at the local hardware and Grocery store as well as many members of the community.

Throughout 2023 the District's Maintenance Crew systematically televised 2.3 miles of pipe. During 2023 the District Hydroed 17.25 miles of pipeline exceeding the Sanitary Sewer Management Plan (SSMP) mark of 15.2 miles for the year.

The District's Huston Creek construction upgrade project is progressing and on schedule and approximately 85 percent completed. The majority of the contracted work has been completed and we are waiting on back ordered electrical switch gear to finish the project, that is scheduled to arrive sometime in August 2024

During the month of October the District conducted smoke testing. The District smoke tested 47,587 feet of line or 9 miles. This smoke testing includes customer laterals. Any deficiencies found were repaired at District cost to repair the issue.

An Annual Audit of the District was performed in 2023 by Smith Marion & CO. This accounting firm did a thorough job finding Crestline Sanitation's records to be well prepared, which allowed the audit to be completed in a timely manner and concluded with no findings.

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Treatment Facility Total Volume Flows

YEAR: **2023**

Site	Huston Plant	Seeley Plant	Cleghorn Plant	Las Flores	Las Flores Ponds	
Readings	daily	daily	daily	daily	daily	monthly
Violations						
Design limits	0.7 mg/d design	0.5 mg/d design	0.2 mg/d design			
	total volume month	total volume month	total volume month	total volume to irrigation	total volume to ponds	free board
All flow rates in million gallons						feet
	Huston Creek	Seeley Creek	Cleghorn	District Effluent	District Effluent	Flow to ponds
JANUARY	25.31	12.19	0.441	43.01	0.00	empty
FEBRUARY	18.53	7.76	0.294	25.97	0.00	empty
MARCH	27.29	14.11	0.813	57.90	0.00	empty
APRIL	23.04	10.98	0.365	41.14	0.00	empty
MAY	17.75	8.82	0.197	30.58	0.00	empty
JUNE	14.46	7.01	0.260	24.46	0.00	empty
JULY	12.86	5.52	0.344	21.08	0.00	empty
AUGUST	13.13	5.99	0.182	21.58	0.00	empty
SEPTEMBER	12.37	5.74	0.096	19.40	0.00	empty
OCTOBER	12.45	5.12	0.058	18.37	0.00	empty
NOVEMBER	12.18	4.68	0.043	17.33	0.00	empty
DECEMBER	12.95	5.13	0.031	18.46	0.00	empty
2023 Treatment Facility Total Volume Flow						
Totals	202.32	93.05	3.12	339.27	0.00	

* Las Flores Total flows are represented by the addition of the Huston Creek, Seeley Creek, Cleghorn and Pilot Rock plant flow as measured as the flow discharges to the district outfall.

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Treatment Facility Maximum Instantaneous Flow Rates

Year: **2023**

Site	Huston Creek	Seeley Creek	Cleghorn	Las Flores	Las Flores
Reading	daily	daily	daily	daily	daily
Violations					
Design limits	2.5 mg maximum	1.0 mg maximum	0.4 mg maximum		
	max flow rate month	max flow rate month	max flow rate month	max flow rate month	max flow rate month
All flow rates in million gallons					
	Huston	Seeley	Cleghorn	District Effluent	Flow to ponds
JANUARY	1.890	0.900	0.175	4.001	empty
FEBRUARY	0.920	0.541	0.370	1.919	empty
MARCH	1.500	0.880	0.360	4.450	empty
APRIL	1.140	0.540	0.152	2.518	empty
MAY	0.830	0.480	0.125	1.626	empty
JUNE	0.865	0.380	0.238	1.438	empty
JULY	0.810	0.350	0.190	1.246	empty
AUGUST	1.740	1.010	0.230	3.798	empty
SEPTEMBER	0.660	0.410	0.070	1.326	empty
OCTOBER	0.813	0.418	0.080	1.240	empty
NOVEMBER	0.715	0.405	0.080	1.081	empty
DECEMBER	0.954	0.410	0.070	1.239	empty
2023 Treatment Facility Maximum Instantaneous Flow Rate					
Maximum	1.890	1.010	0.370	4.450	

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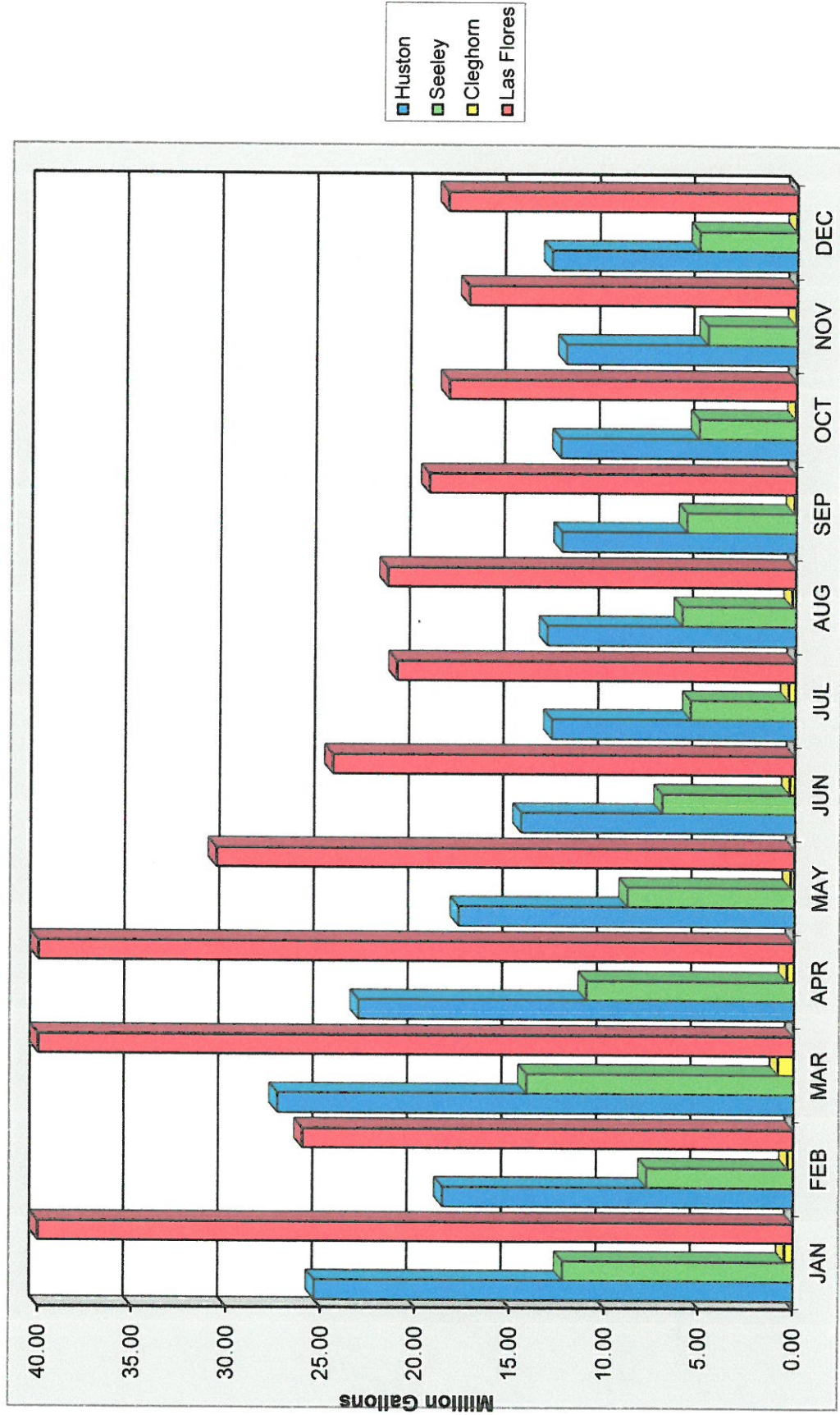
Treatment Facility Average Flow Rates

Year: **2023**

Site	Huston Creek	Seeley Creek	Cleghorn	Las Flores	Las Flores
Readings	daily	daily	daily	daily	daily
Violations					
Design limits	0.7 mg/d average	0.5 mg/d average	0.2 mg/d average		
	average flow month	average flow month	average flow month	average flow month	average flow month
All flows in million gallons per day					
	Huston	Seeley	Cleghorn	District Effluent	Flow to ponds
JANUARY	0.817	0.393	0.014	1.387	empty
FEBRUARY	0.598	0.277	0.011	0.928	empty
MARCH	0.880	0.455	0.026	1.868	empty
APRIL	0.768	0.366	0.012	1.371	empty
MAY	0.573	0.285	0.006	0.987	empty
JUNE	0.482	0.234	0.009	0.815	empty
JULY	0.415	0.178	0.011	0.680	empty
AUGUST	0.423	0.193	0.006	0.696	empty
SEPTEMBER	0.412	0.191	0.003	0.647	empty
OCTOBER	0.402	0.165	0.002	0.593	empty
NOVEMBER	0.406	0.156	0.001	0.578	empty
DECEMBER	0.418	0.165	0.001	0.596	empty
2023 Treatment Facility Average Flow Rate					
Average	0.550	0.255	0.009	0.929	

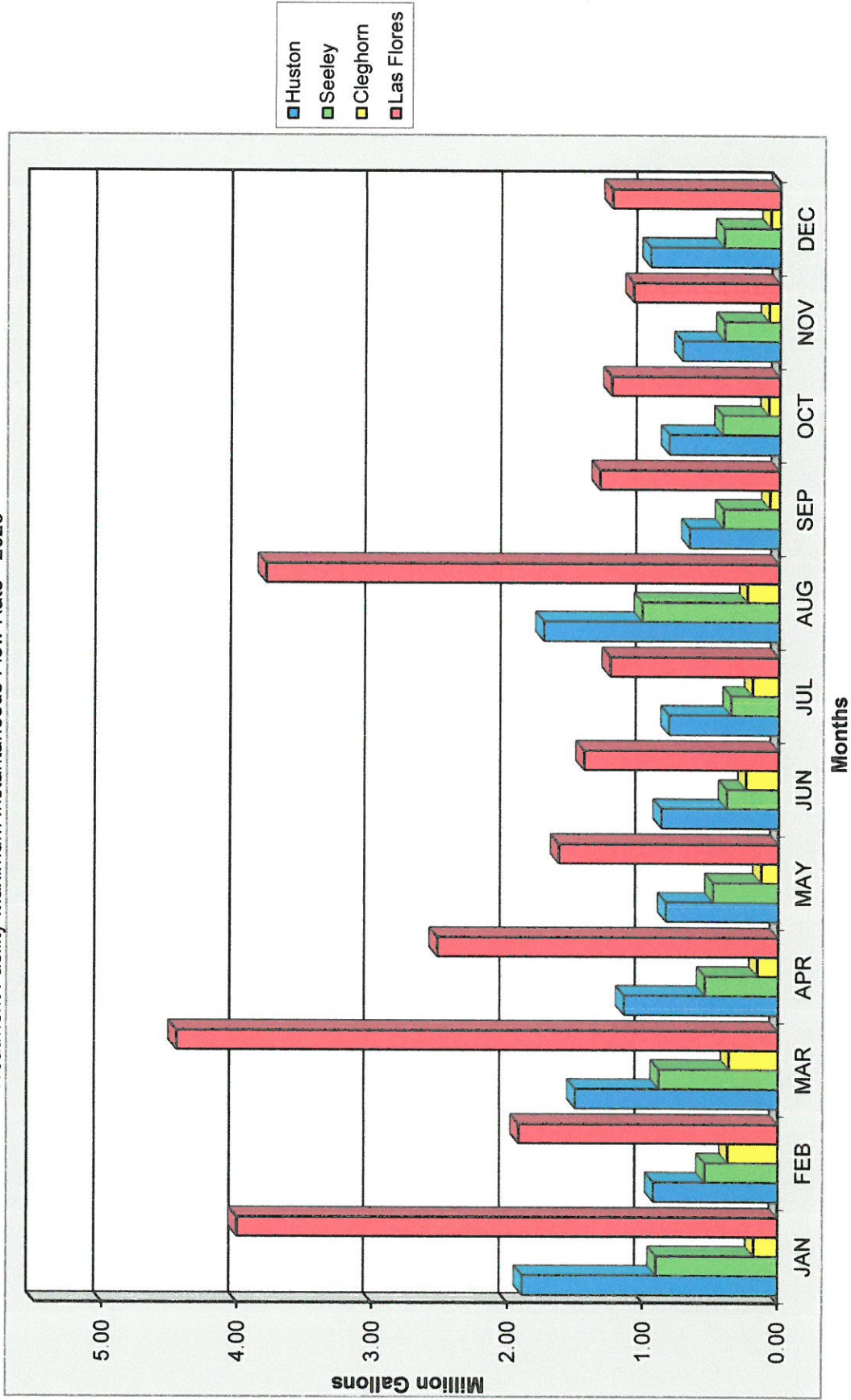
CRESTLINE SANITATION DISTRICT

Treatment Facility Total Volume Flows - 2023



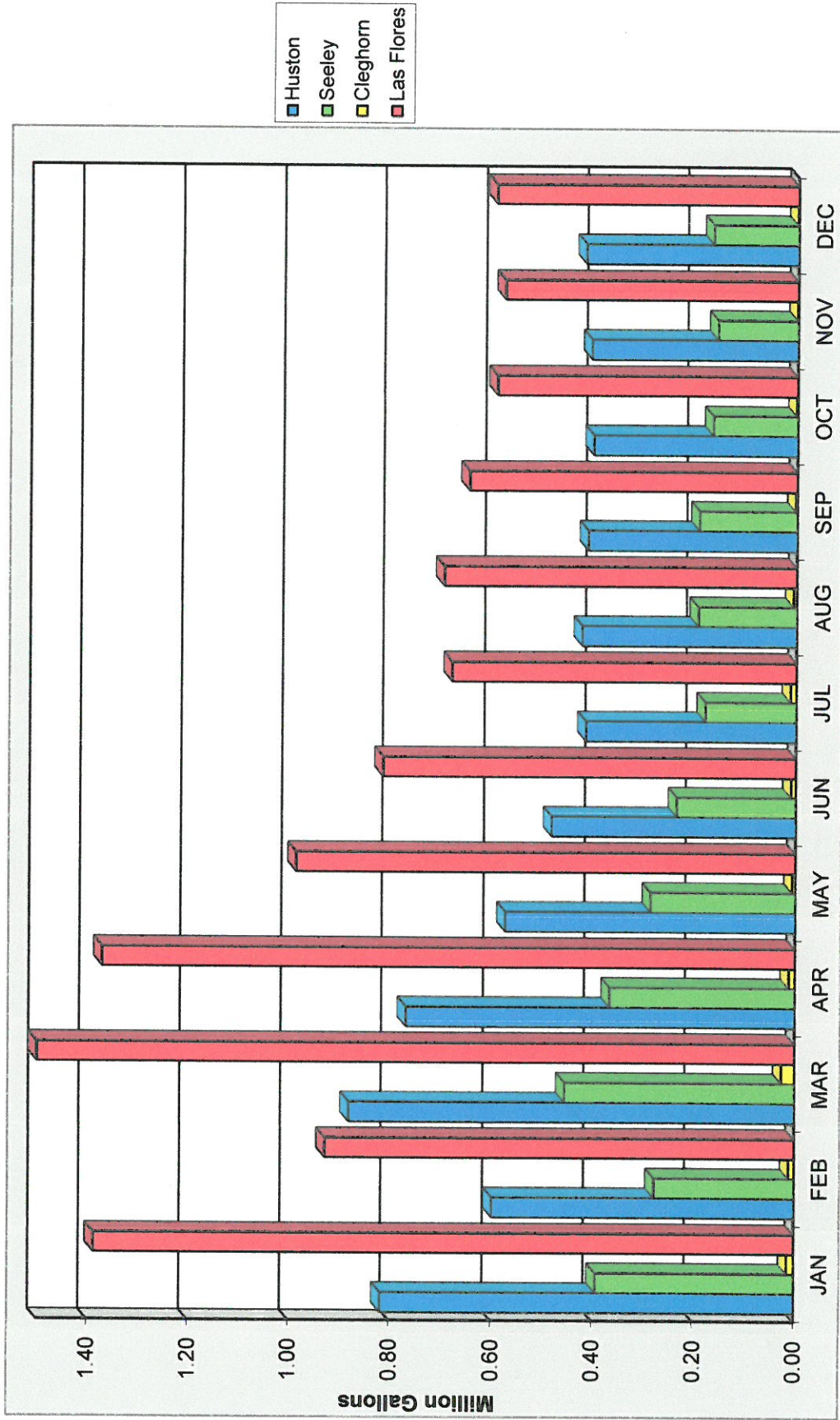
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Treatment Facility Maximum Instantaneous Flow Rate - 2023



CRESTLINE SANITATION DISTRICT

Treatment Facility Average Flow Rates - 2023



CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Effluent Monitoring - Treatment Facilities
Monthly Median / Averages

Year: **2023**

Site	Huston Creek		Seeley Creek		Cleghorn	
Sample	Disinfected Final Effluent	Chlorine Residual	Disinfected Final Effluent	Chlorine Residual	Disinfected Final Effluent	Chlorine Residual
Frequency	2 / week	mg/l	2 / week	mg/l	2 / week	mg/l
Requirement	23 / 100 ml *		23 / 100 ml *		23 / 100 ml *	
Purpose	D		D		D	
Violations						
Test	Total Coliform		Total Coliform		Total Coliform	
month	MPN		MPN		MPN	
JANUARY	2	7.1	2	5.4	2	4.8
FEBRUARY	2	14.3	2	5.4	2	7.0
MARCH	2	7.0	2	4.5	2	5.0
APRIL	2	9.9	2	7.3	2	6.1
MAY	2	12.9	2	5.0	2	7.4
JUNE	2	12.9	2	9.0	2	8.5
JULY	2	14.4	8	4.3	2	7.3
AUGUST	2	13.8	2	5.1	2	7.0
SEPTEMBER	2	17.0	2	5.3	2	8.4
OCTOBER	2	17.6	2	4.8	2	10.9
NOVEMBER	2	16.1	2	5.8	2	12.8
DECEMBER	2	15.9	2	3.7	2	12.9

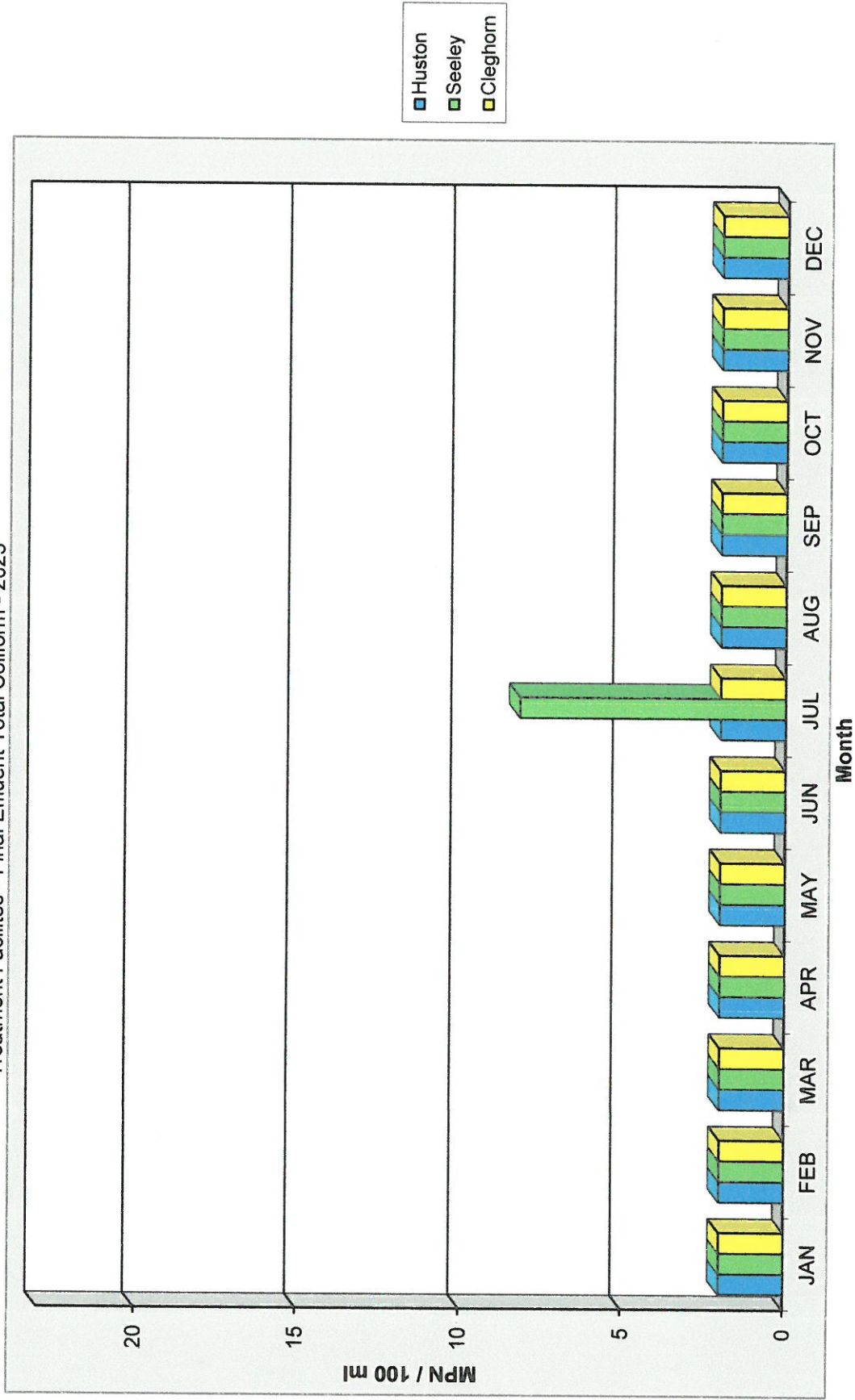
D - Sample has Effluent / Discharge Limitations

M - Sample has Effluent Monitoring Requirements

* median does not exceed 23/100 millileters and does not exceed 240/100 milliliters in any two consecutive samples

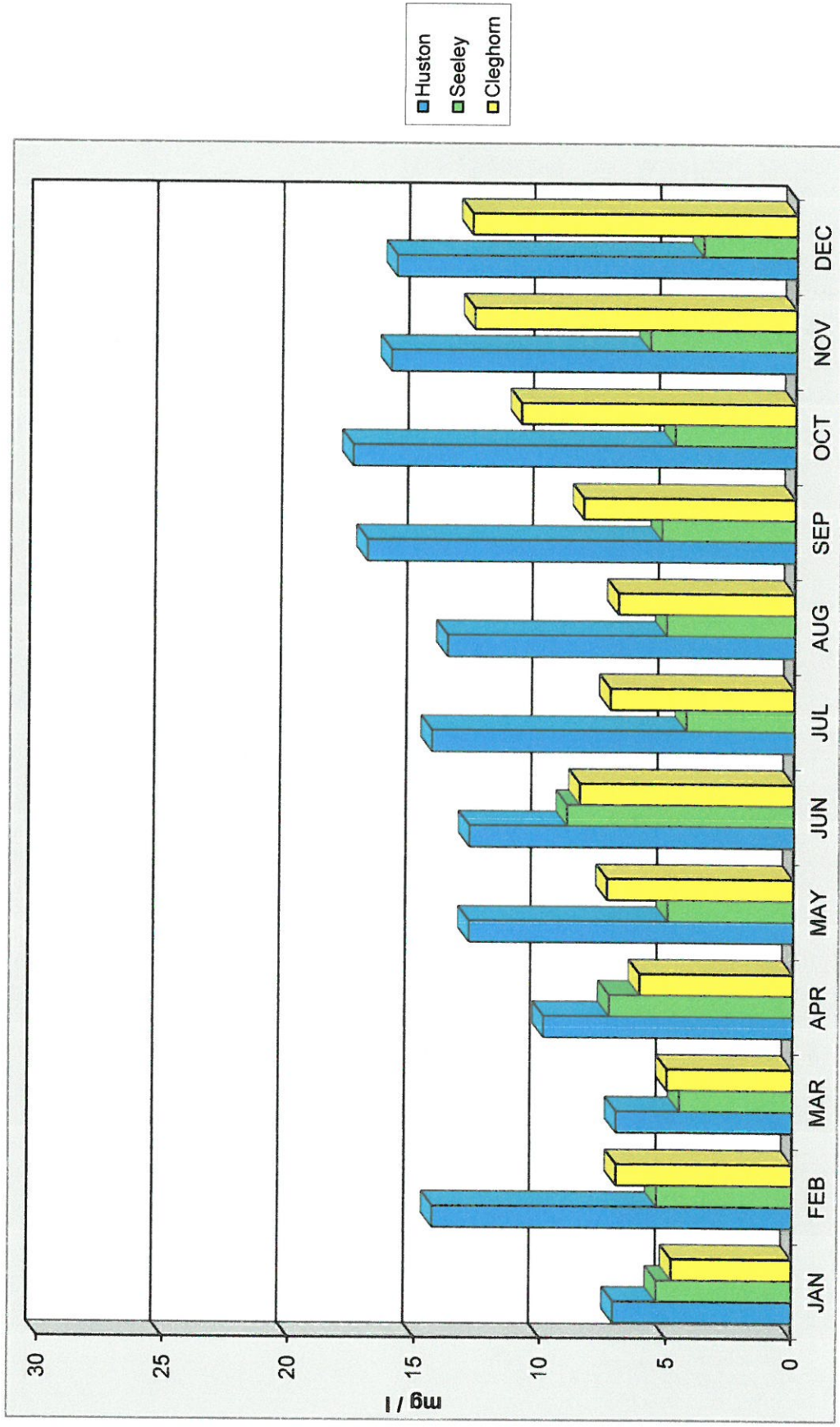
CRESTLINE SANITATION DISTRICT

Treatment Facilities - Final Effluent Total Coliform - 2023



CRESTLINE SANITATION DISTRICT

Treatment Facilities - Final Effluent Chlorine Residual - 2023



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ANNUAL REPORT

Effluent Monitoring

District Final Effluent - Monitoring Data

Las Flores Ranch Irrigation / Percolation

Year: **2023**

Sample Frequency	2 / Week	2 / Week	Weekly	Weekly	Weekly	2 / Month	2 / Month	2 / Month	2 / Month	Monthly	Monthly	Monthly
	Violations											
Sample Type			D M	D M	D M	D M	M	D M	M	M	M	M
Maximum			0.5 ml/l	< 9	< 9	45.0	2.0	2.0	A	A	A	A
Mean/Minimum				> 1.0	> 6	30.0	1.0					
Median	23 / 100 *											
Test	Total Coliform	CL2 Res	Settleable Solids	D. O.	pH	BOD	COD	MBAS	Oil & Grease	TKN	NO3-N	NH3-N
Units	MPN	mg/l	ml/l	mg/l	units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Month												
JANUARY	<2.0	4.8	<0.10	7.4	7.4	21.0	56.0	ND	ND	17.30	11.80	16.50
FEBRUARY	ND	5.7	<0.10	8.7	7.4	15.5	45.0	ND	ND	15.80	11.60	15.30
MARCH	<2.0	4.8	<0.10	8.9	6.9	17.2	36.0	ND	ND	19.20	12.40	18.00
APRIL	<2.0	8.6	<0.10	9.8	7.4	18.0	87.0	ND	ND	12.00	9.20	11.30
MAY	<2.0	5.7	<0.10	8.4	7.2	20.8	71.0	ND	ND	17.00	11.70	16.80
JUNE	<2.0	5.0	<0.10	6.8	7.0	23.6	85.0	ND	ND	18.00	11.40	17.80
JULY	<2.0	5.7	<0.10	7.4	7.2	26.5	112.0	ND	ND	16.20	12.40	15.80
AUGUST	<2.0	1.9	<0.10	5.8	7.2	31.0	150.0	ND	ND	17.20	13.50	16.50
SEPTEMBER	<2.0	2.9	<0.10	6.7	7.1	18.0	70.0	ND	ND	16.20	10.80	15.80
OCTOBER	<2.0	5.7	<0.10	8.5	7.3	21.0	65.0	ND	ND	18.00	13.80	17.20
NOVEMBER	<2.0	5.0	<0.10	8.2	7.5	28.0	106.0	ND	ND	19.80	13.60	19.00
DECEMBER	<2.0	3.8	<0.10	8.5	7.5	17.0	51.0	ND	ND	19.40	12.60	18.20
AVERAGES		5.0	<0.10	7.9	7.3	21.5	77.8	ND	ND	17.18	12.07	16.52

D - Sample has Effluent / Discharge Limitations

M - Sample has Effluent Monitoring Requirements

A - Result not an average (only one sample collected per month)

* median does not exceed 23/100 milliliters and does not exceed 240/100 milliliters in any two consecutive samples

CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Effluent Monitoring
District Final Effluent - Monitoring Data
Las Flores Ranch Irrigation / Percolation

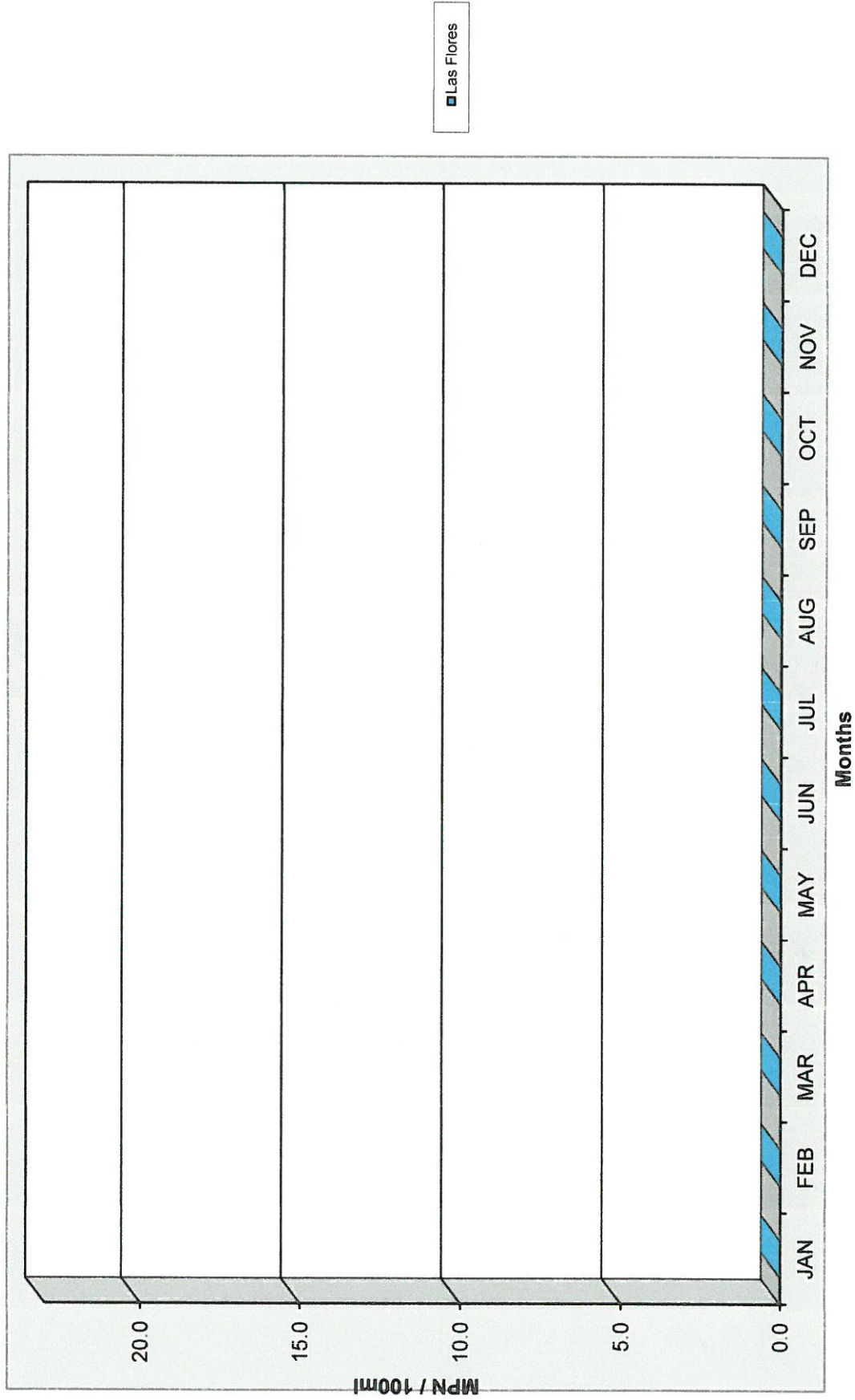
Year: **2023**

Sample Frequency	Semiannual Testing						Annual Testing					
	M	M	M	M	M	M	M	M	M	M	M	M
Violations												
Sample Type	A	A	A	A	A	A	A	A	A	A	A	A
Mean/Minimum												
Median												
Test	TDS	Chloride	Sodium	Sulfate	Boron	Flouride	Total Cyanides	Total Phenols	Base/Neutral/Acid Extractable Organics	Heavy Metals	Total Petroleum Hydrocarbons	
Units	mg/l	mg/l	ml/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	
Month												
JANUARY												
FEBRUARY												
MARCH	370.0	83.0	45.0	95.0	0.09	0.54						
APRIL												
MAY												
JUNE												
JULY												
AUGUST												
SEPTEMBER	520	112.0	74.0	80.0	0.13	0.35	A	A	A	A	A	A
OCTOBER												
NOVEMBER												
DECEMBER												

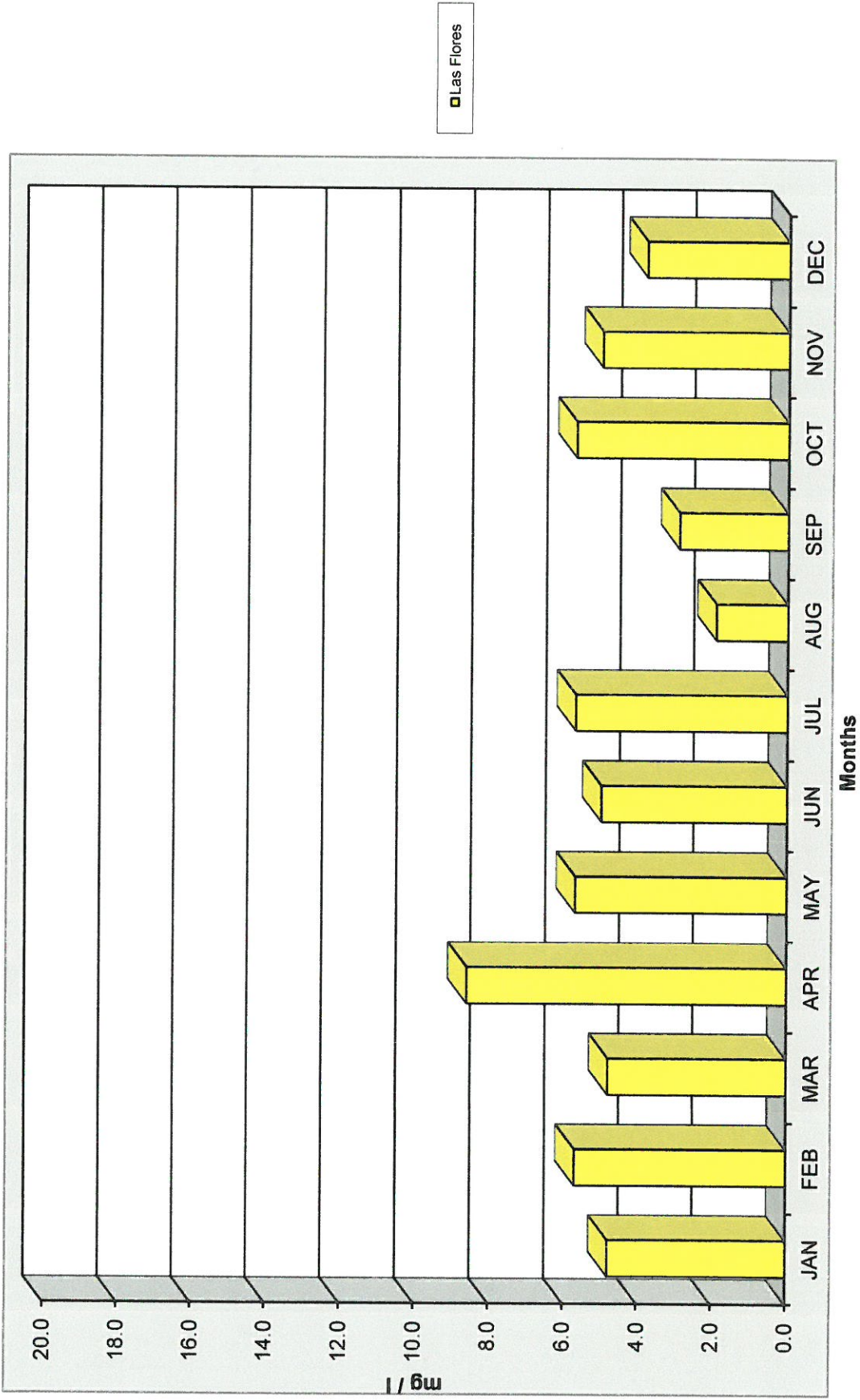
D - Sample has Effluent / Discharge Limitations M - Sample has Effluent Monitoring Requirements

A - For Sample Results see Appendix "A"

CRESTLINE SANITATION DISTRICT
 District Final Effluent - Median Total Coliform - 2023

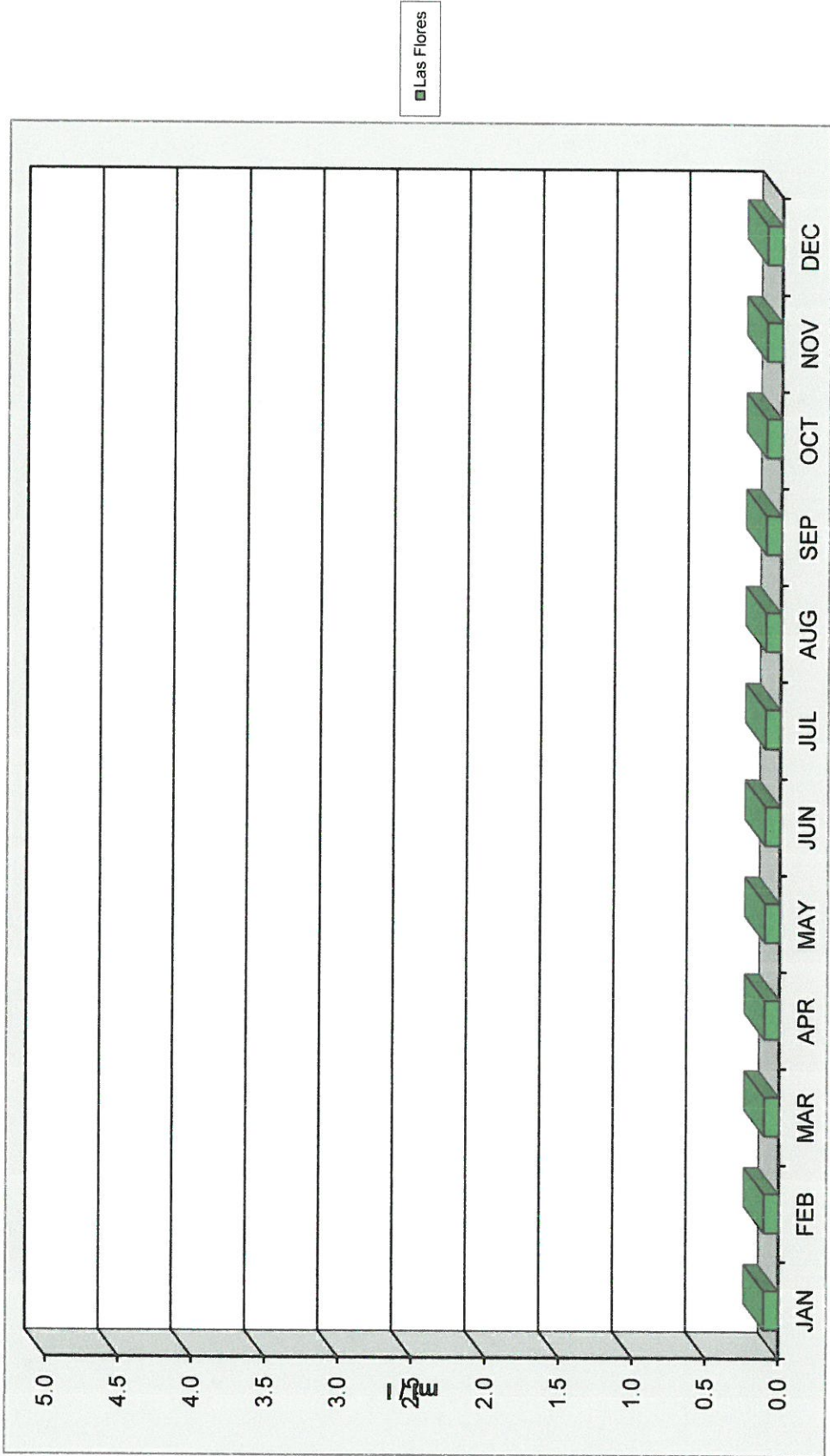


CRESTLINE SANITATION DISTRICT
District Final Effluent - Average Chlorine Residual - 2023

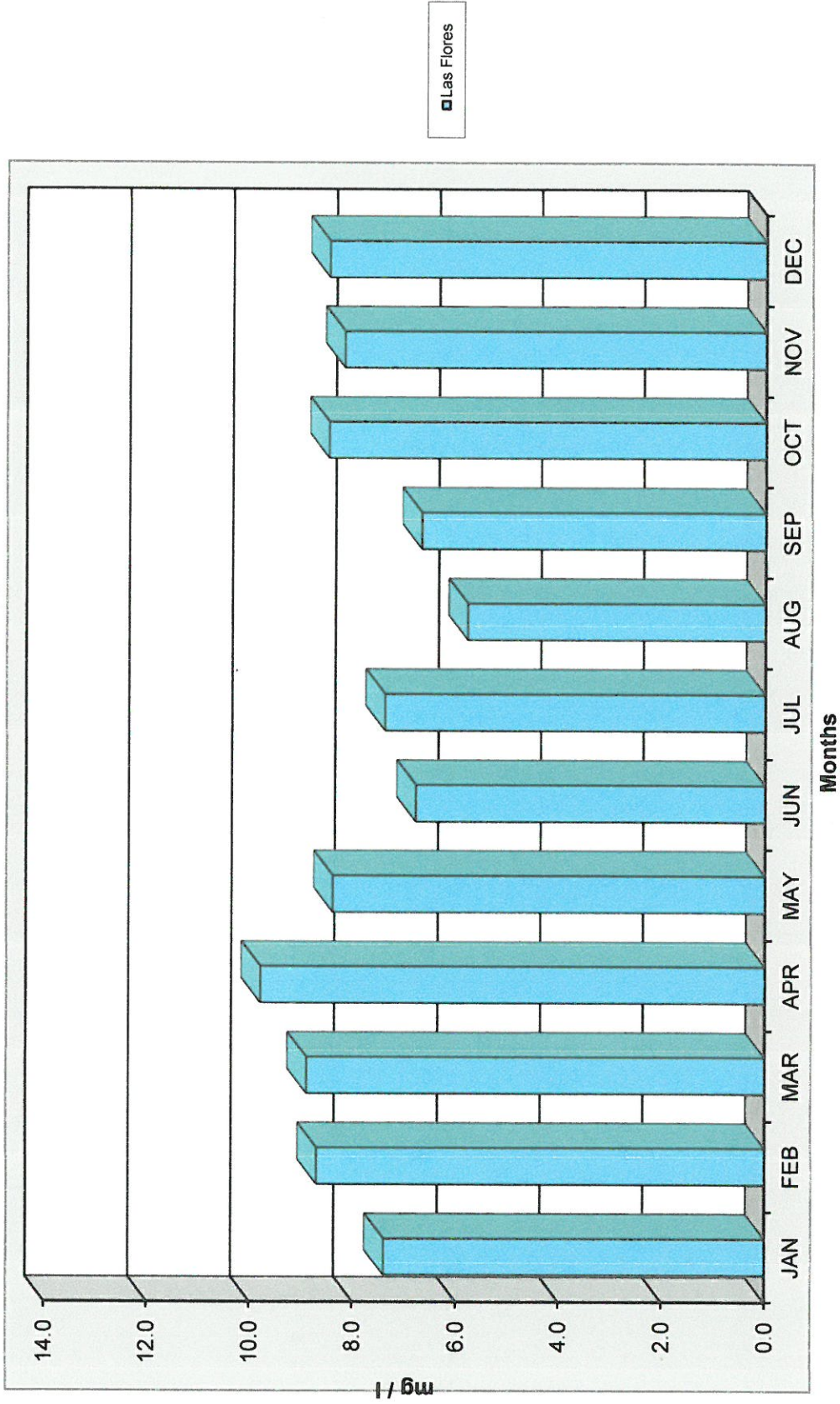


CRESTLINE SANITATION DISTRICT

District Final Effluent - Average Settleable Solids - 2023

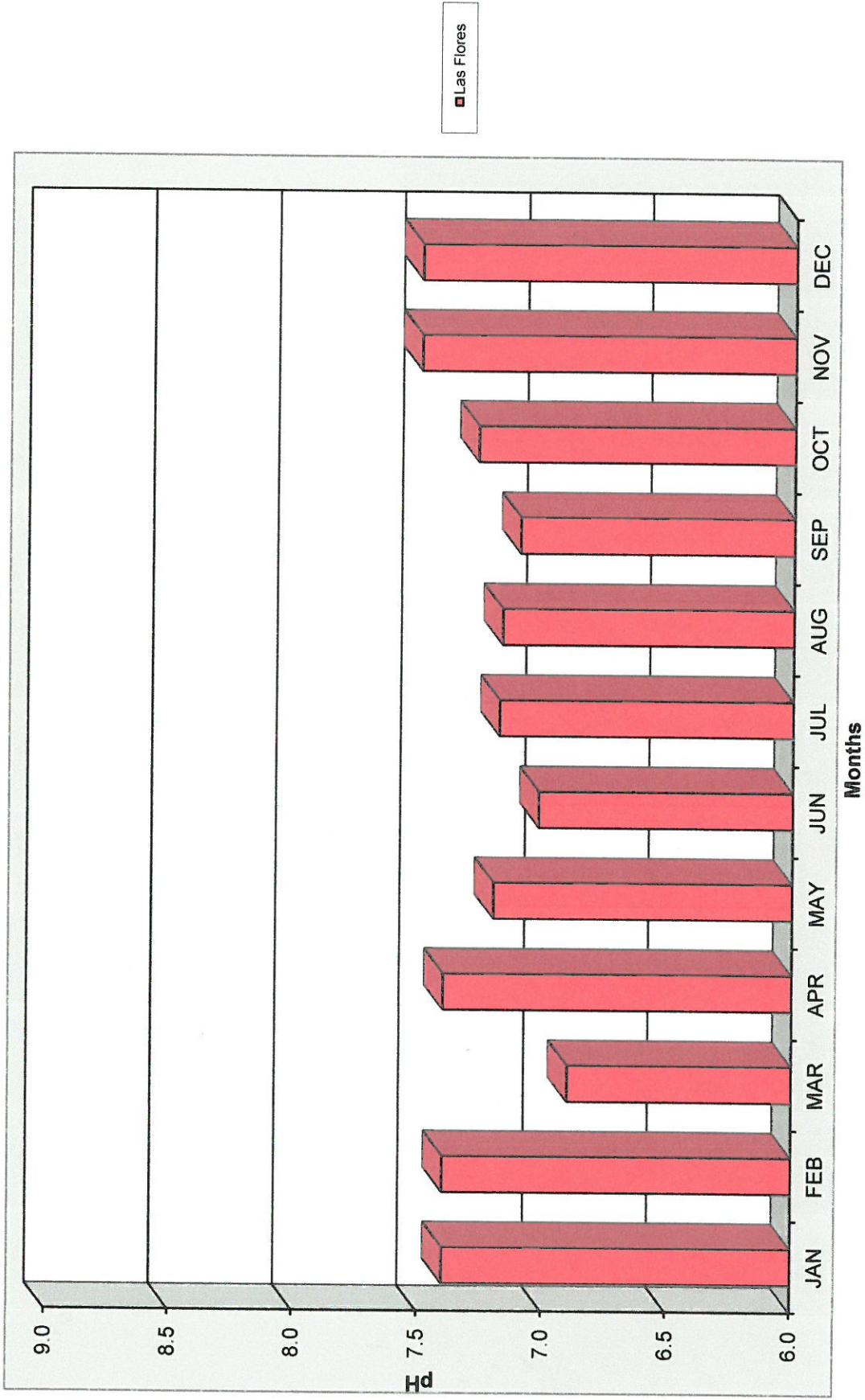


CRESTLINE SANITATION DISTRICT
 District Final Effluent - Average Dissolved Oxygen - 2023

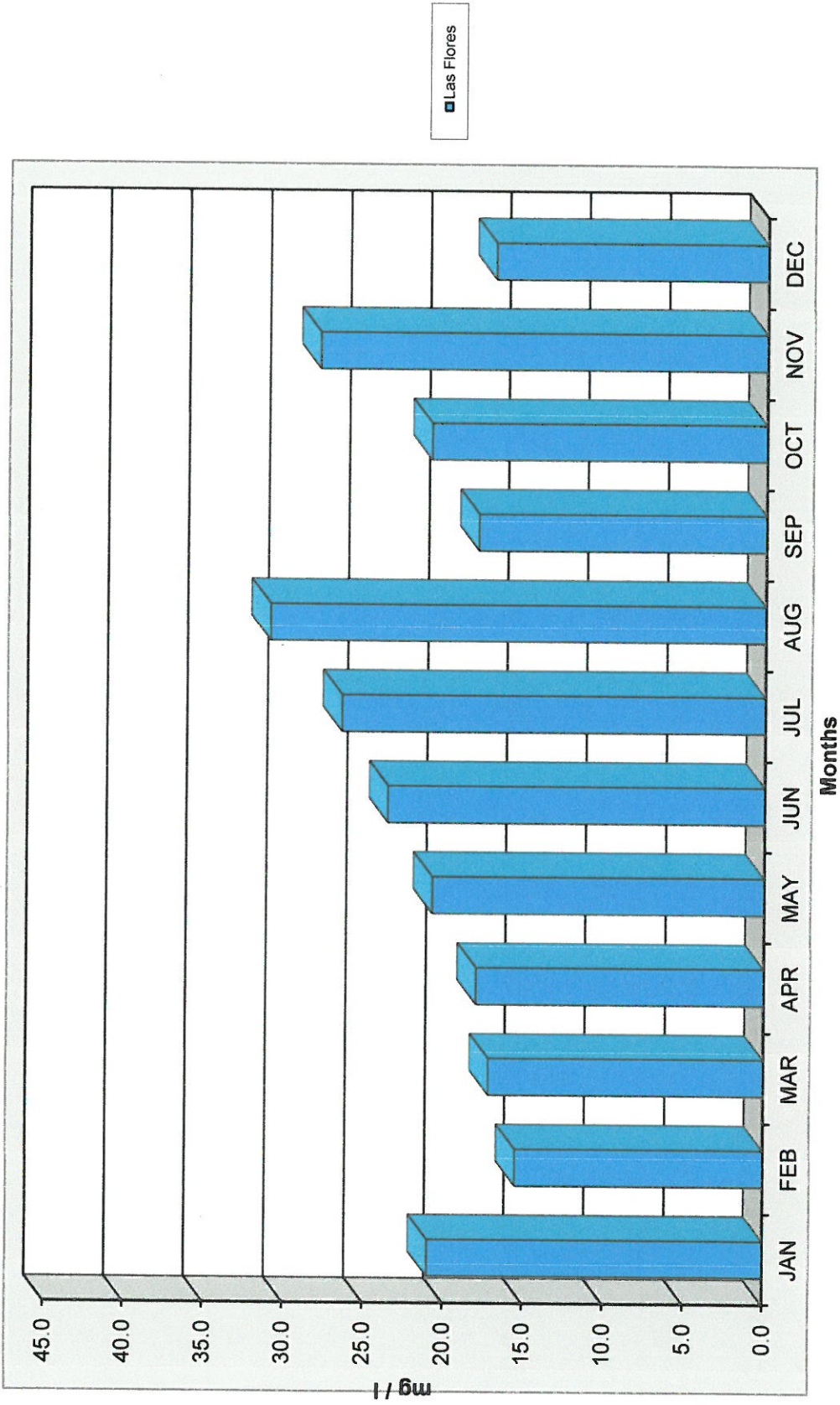


CRESTLINE SANITATION DISTRICT

District Final Effluent - pH - 2023

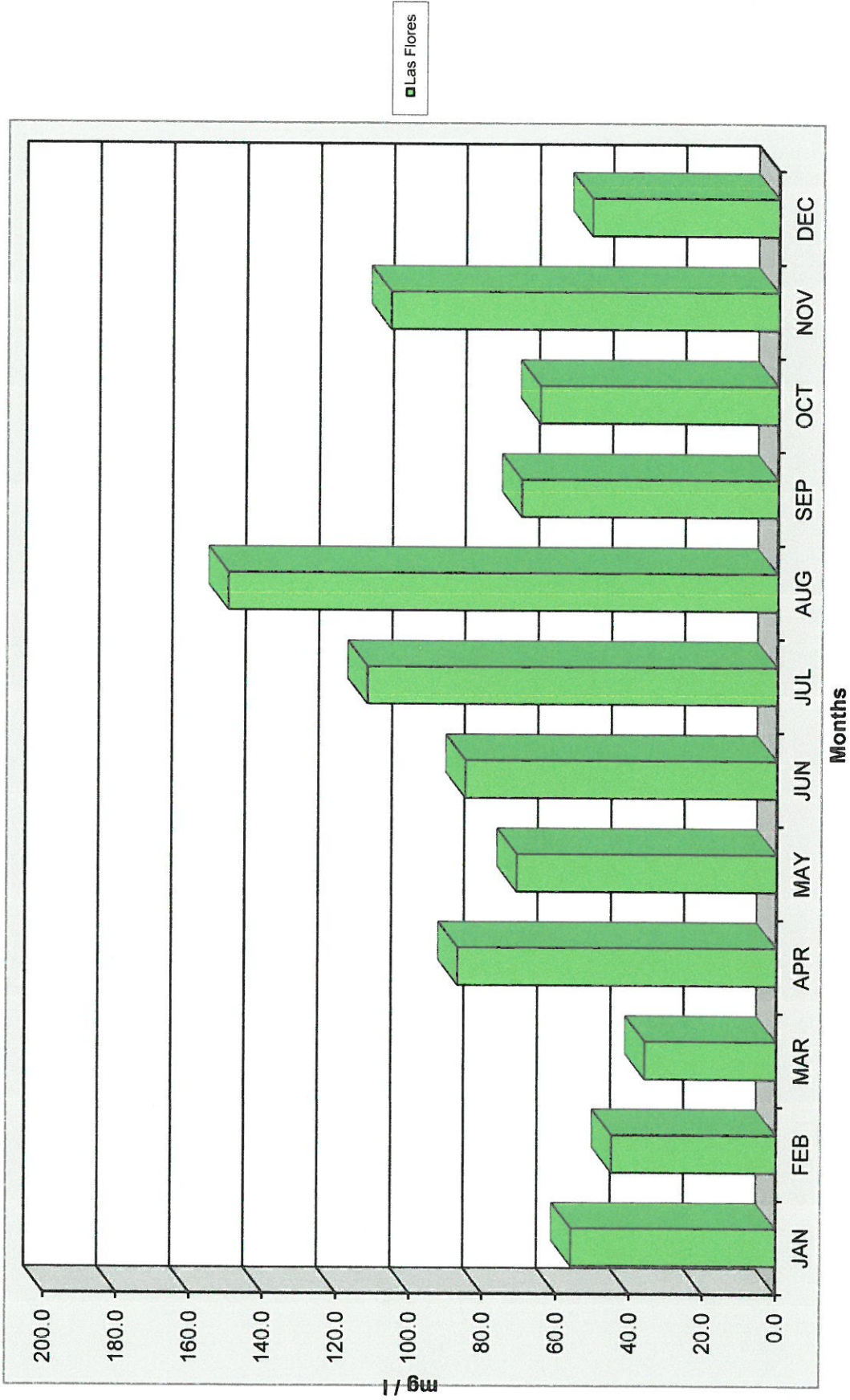


CRESTLINE SANITATION DISTRICT
District Final Effluent - Average BOD - 2023

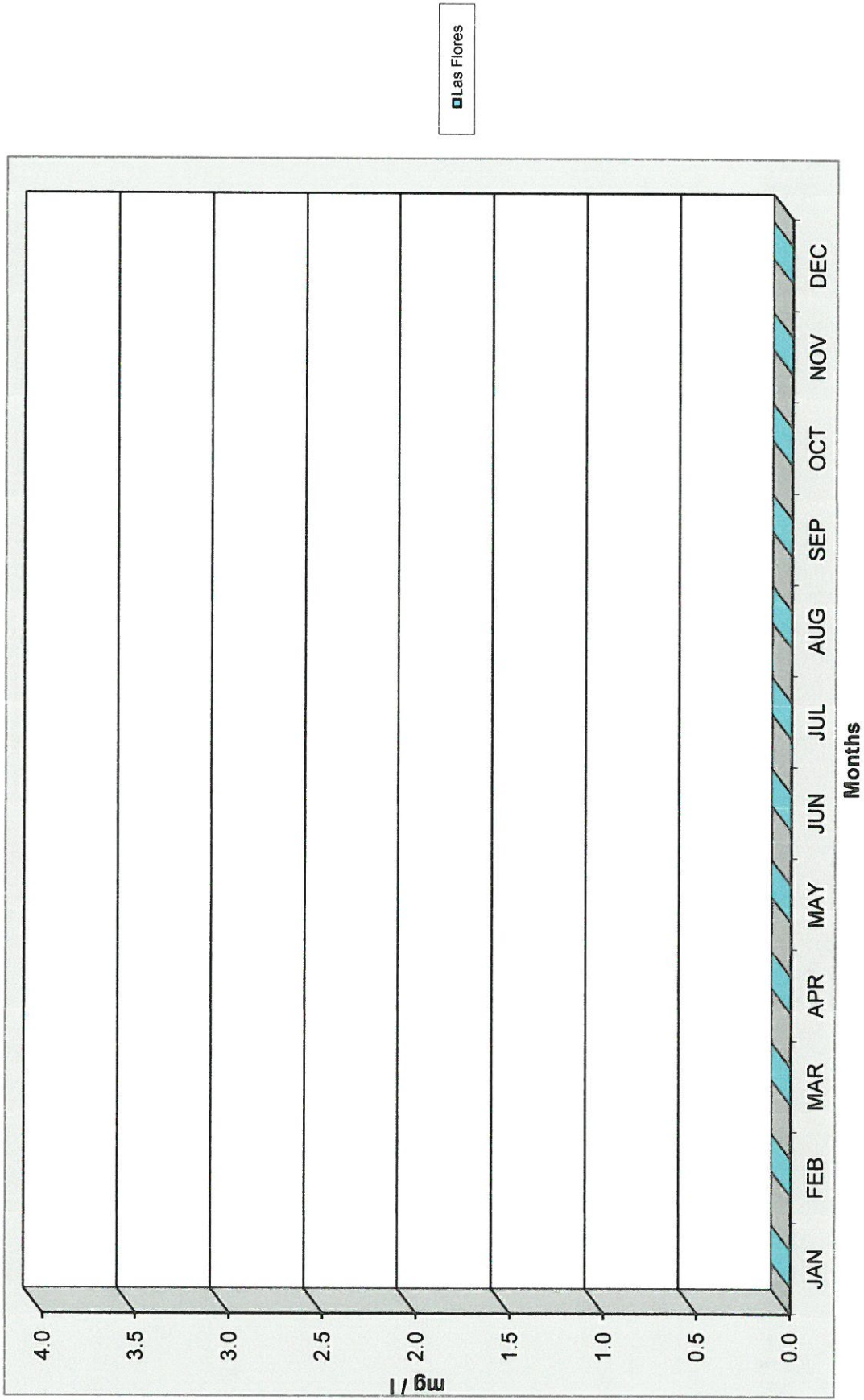


CRESTLINE SANITATION DISTRICT

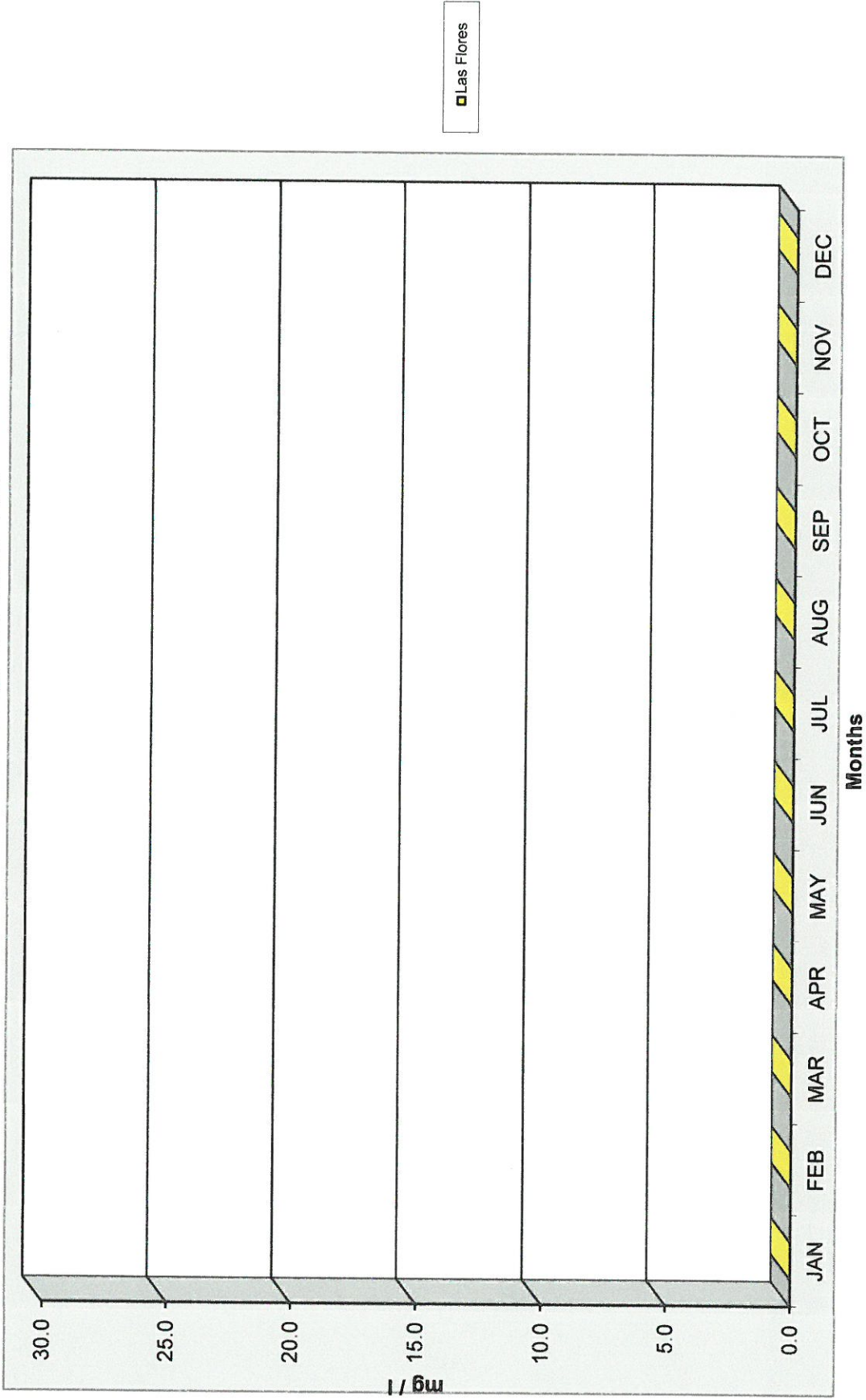
District Final Effluent - Average COD - 2023



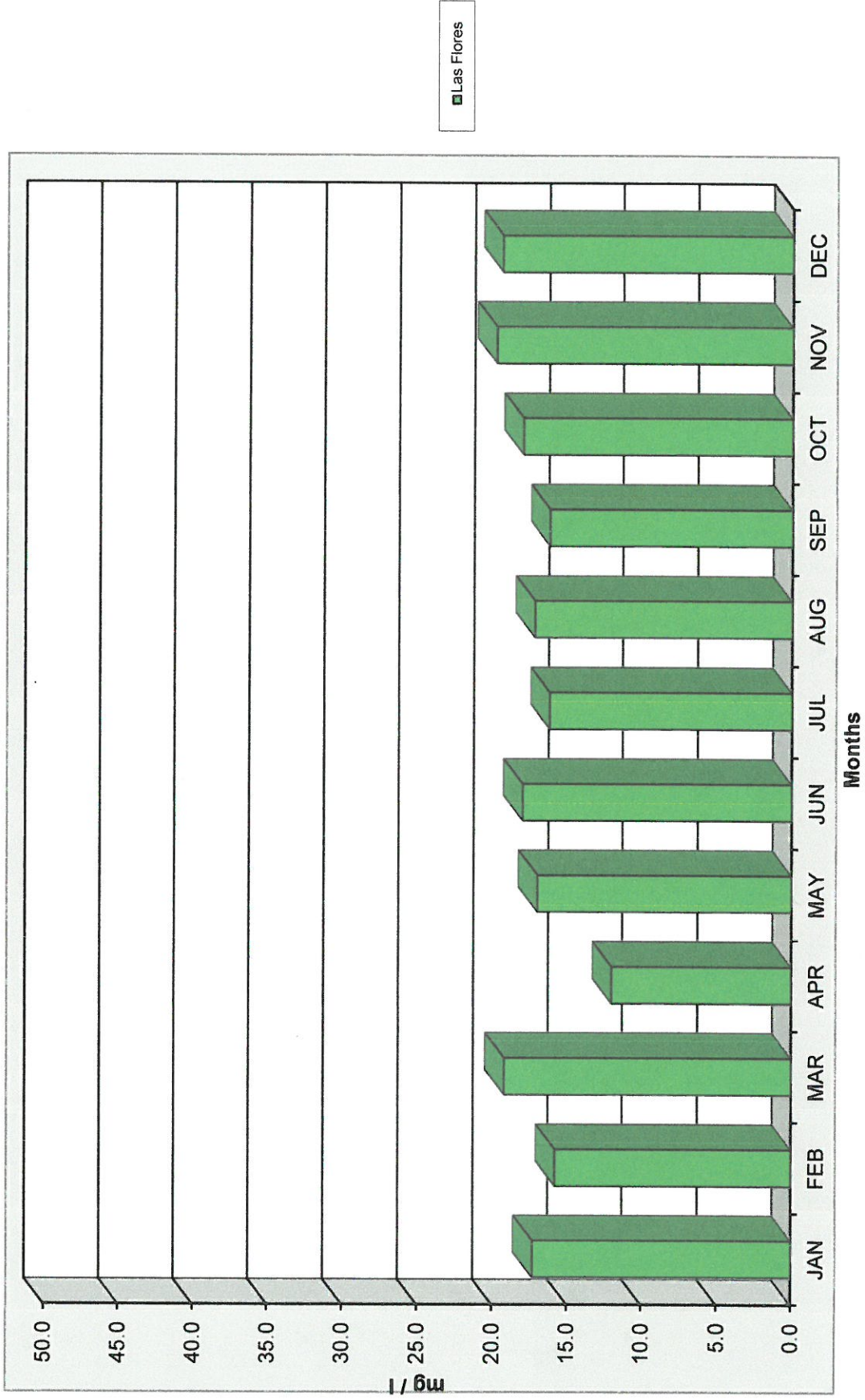
CRESTLINE SANITATION DISTRICT
District Final Effluent - Average MBAS - 2023



CRESTLINE SANITATION DISTRICT
District Final Effluent - Average Oil & Grease - 2023



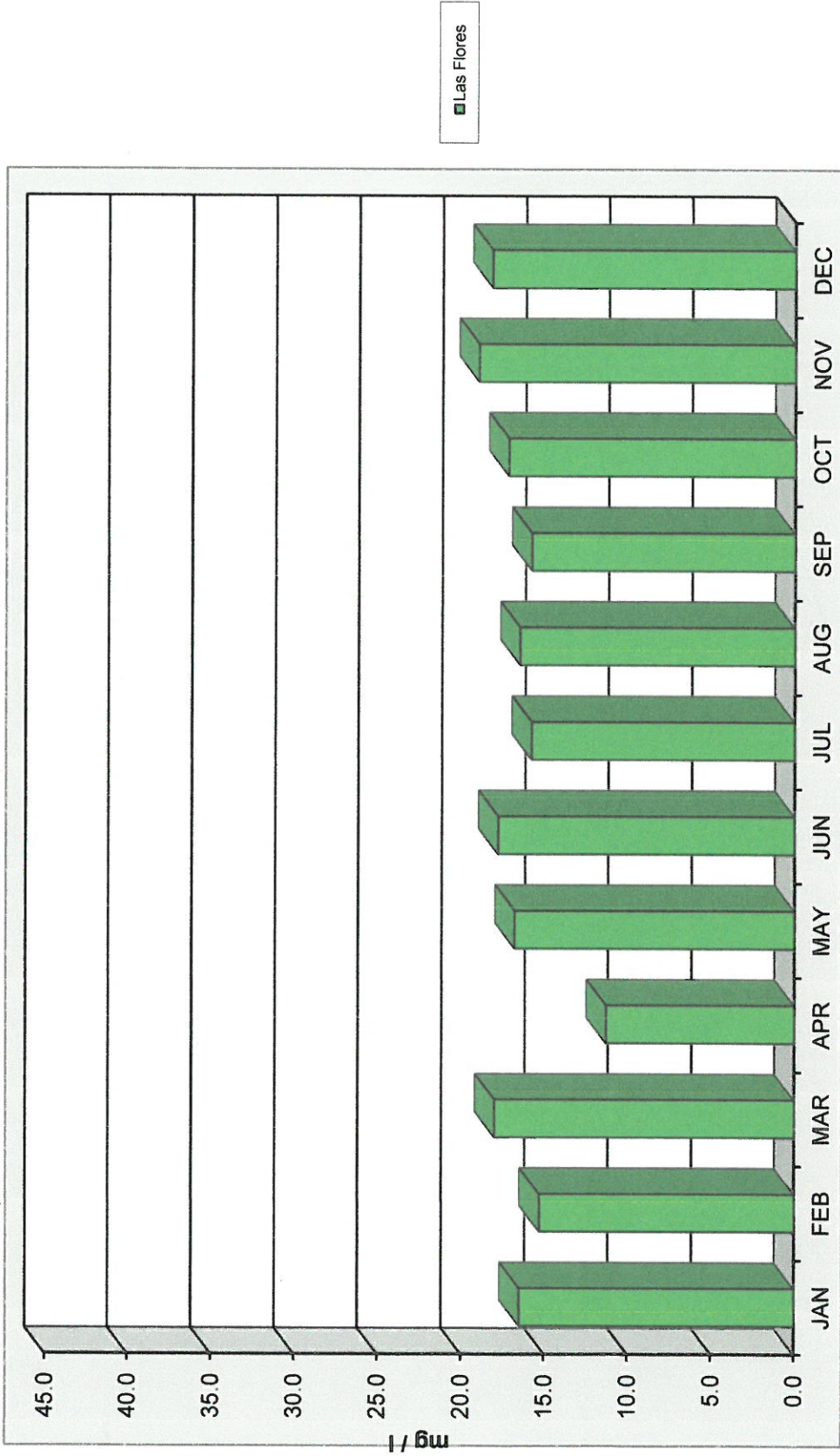
CRESTLINE SANITATION DISTRICT
District Final Effluent - Average Kjeldahl Nitrogen - 2023



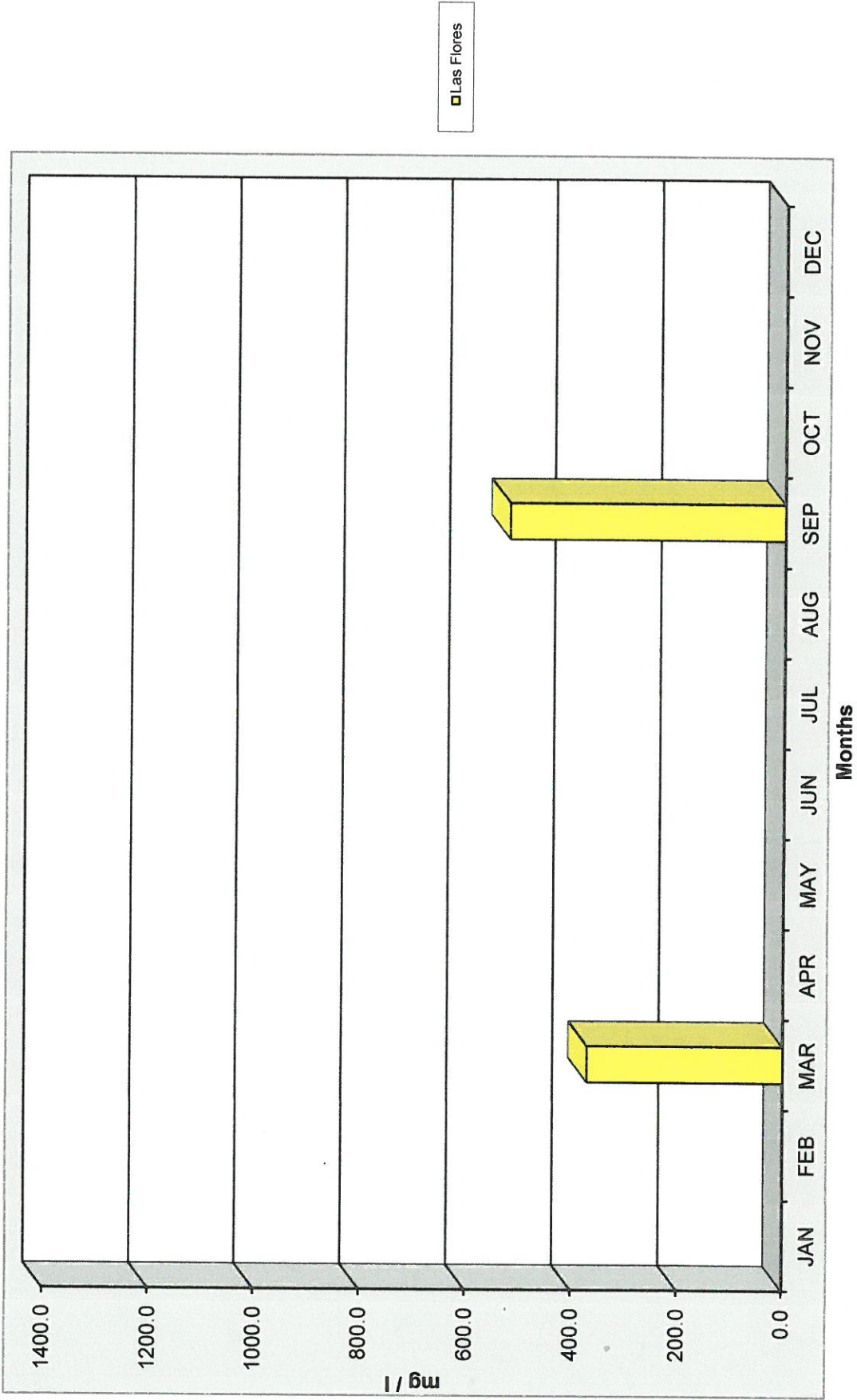
CRESTLINE SANITATION DISTRICT
District Final Effluent - Average Nitrate Nitrogen -2023



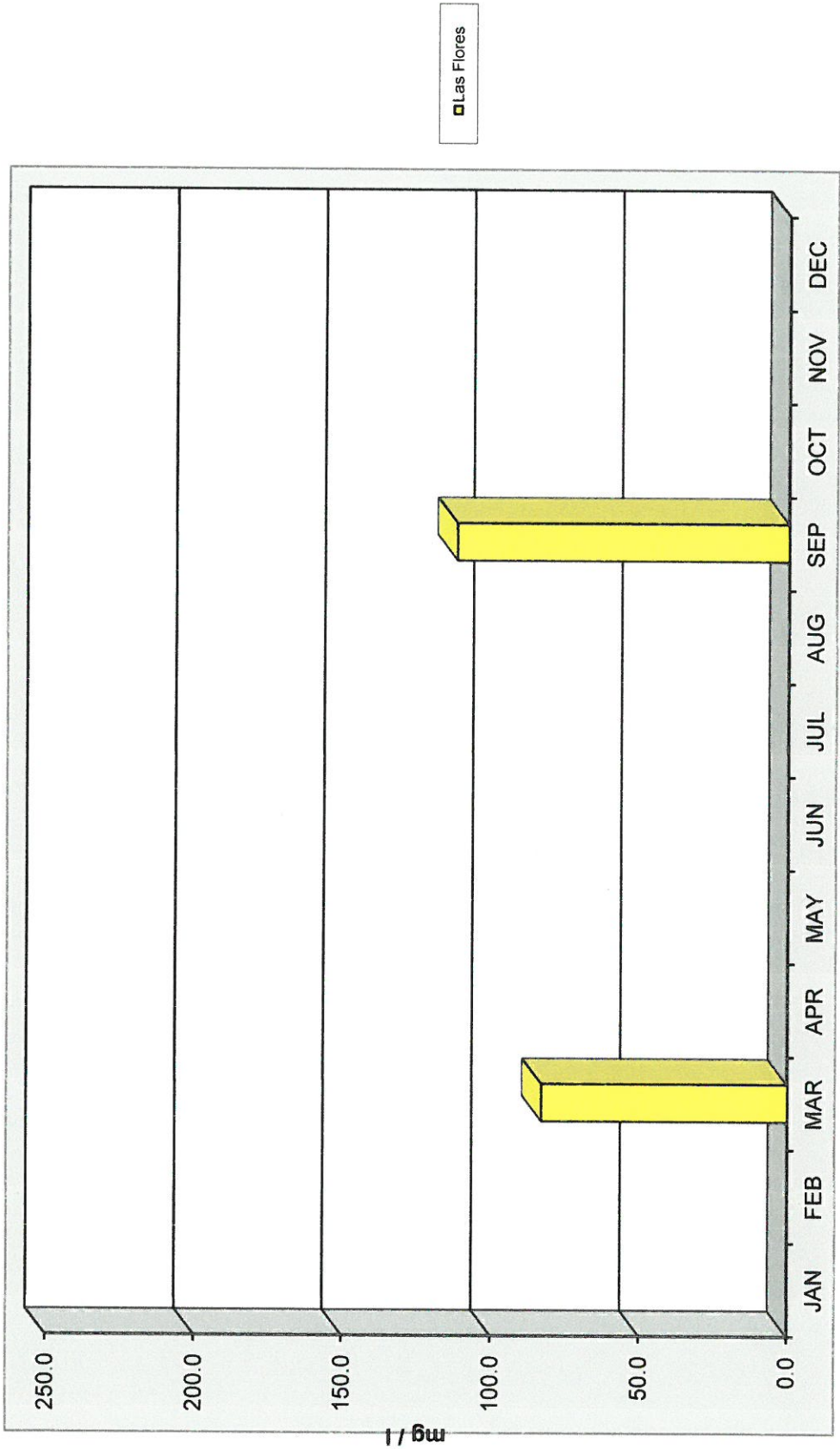
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Average Ammonia Nitrogen - 2023



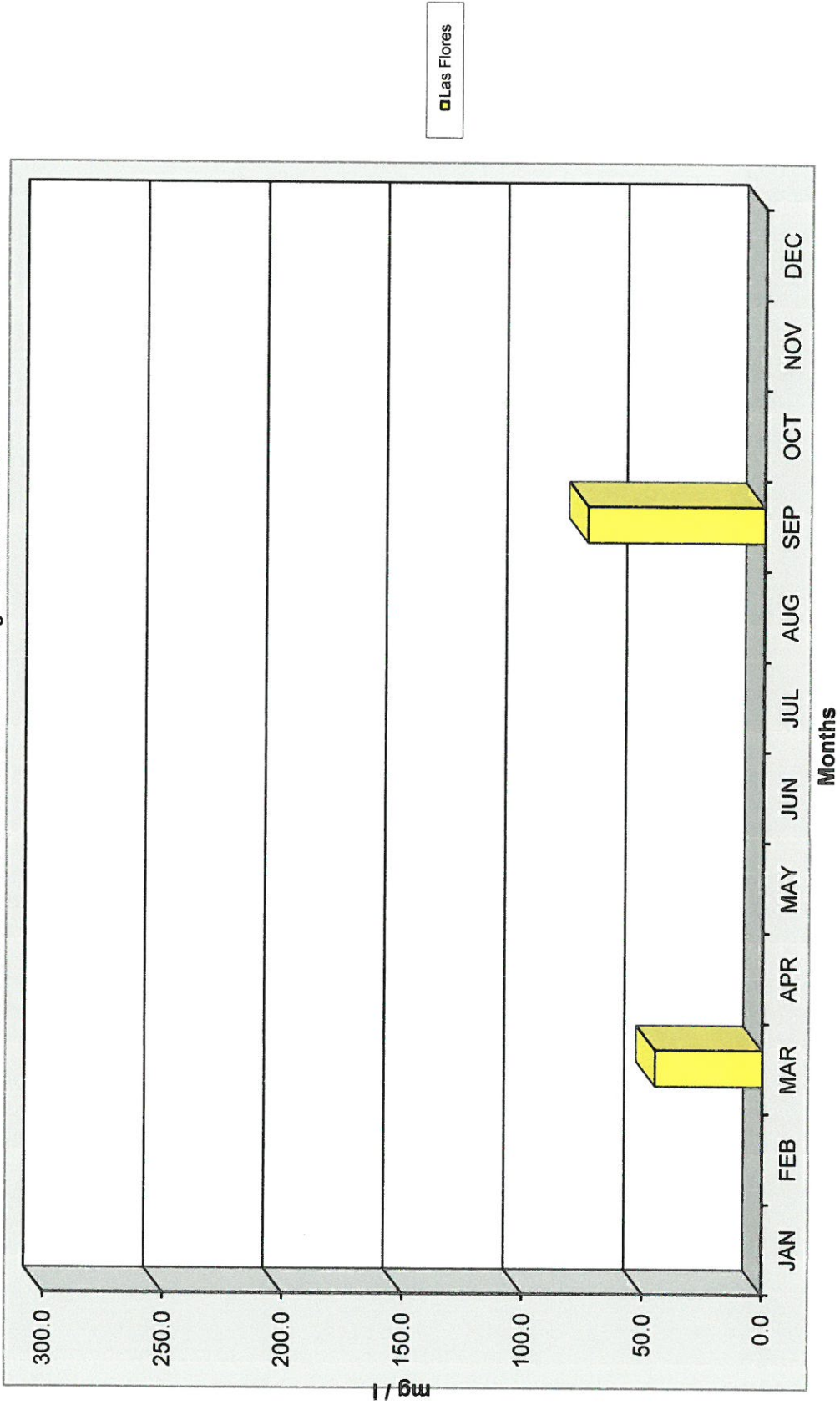
CRESTLINE SANITATION DISTRICT
District Final Effluent - Semi & Annual Testing - TDS - 2023



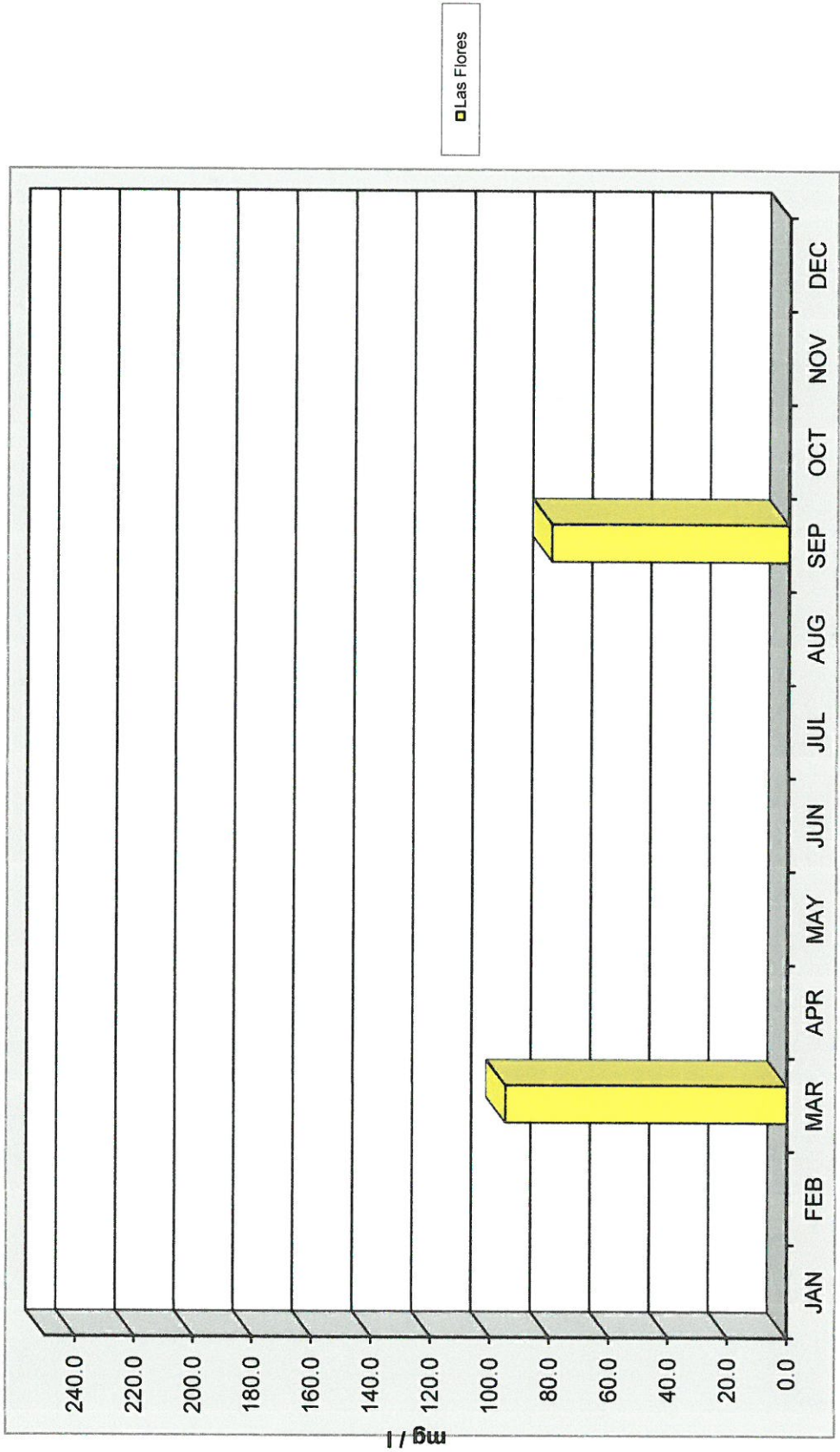
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Semi & Annual Testing - Chloride - 2023



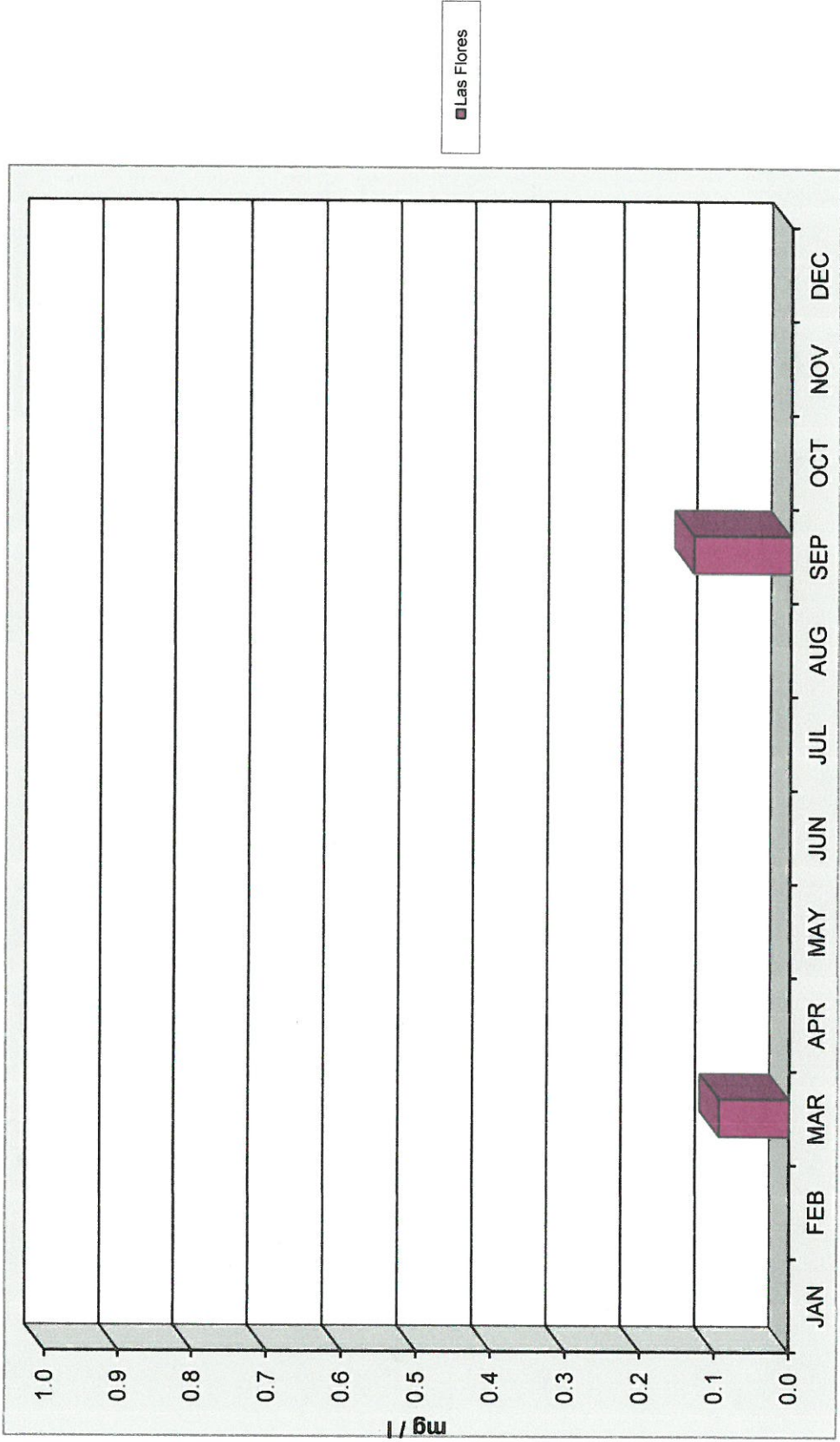
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Semi & Annual Testing - Sodium - 2023



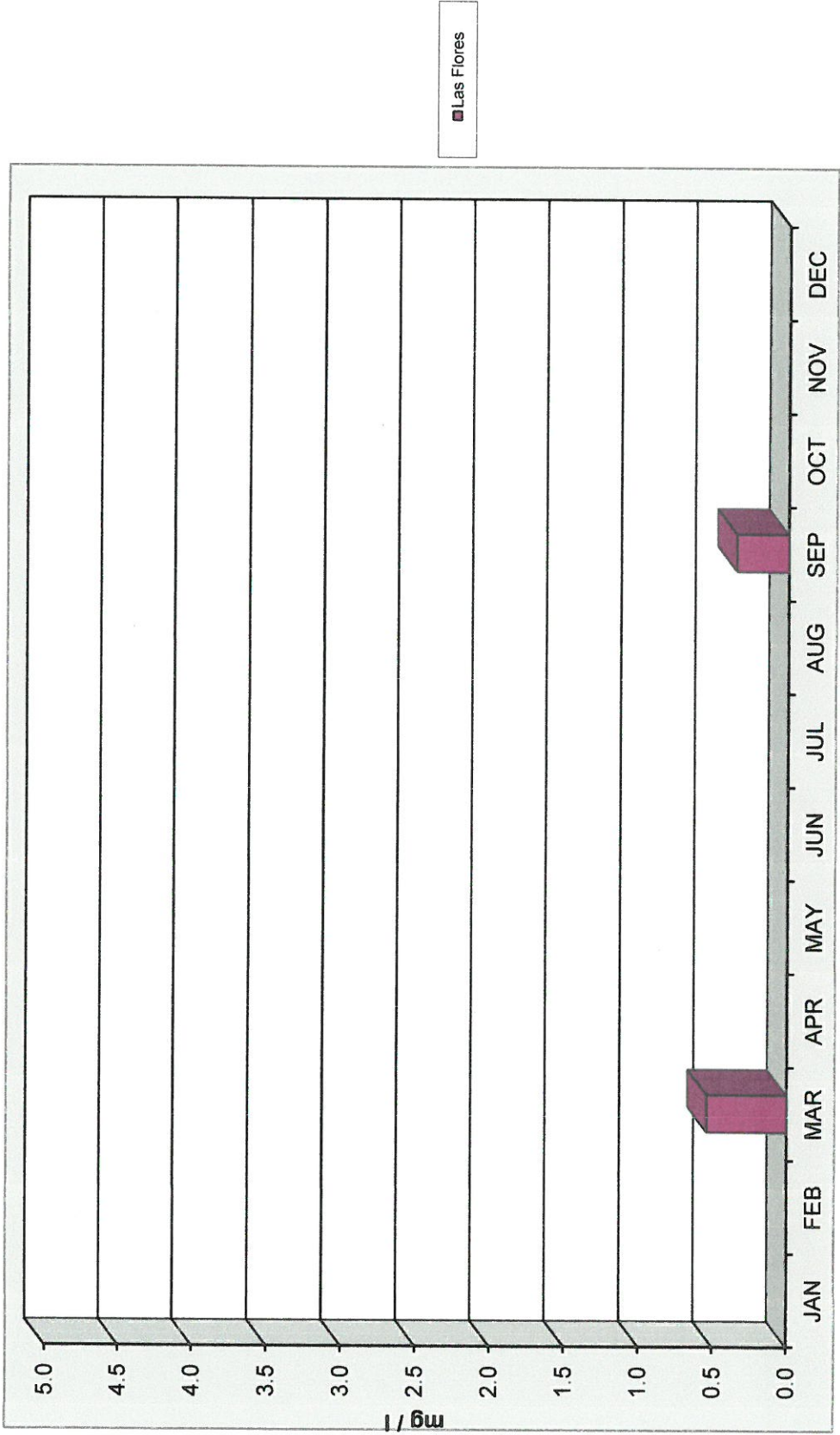
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Semi & Annual Testing - Sulfate - 2023



CRESTLINE SANITATION DISTRICT
District Final Effluent - Semi & Annual Testing - Boron - 2023



CRESTLINE SANITATION DISTRICT
 District Final Effluent - Semi & Annual Testing - Flouride - 2023



**CRESTLINE SANITATION DISTRICT
ANNUAL REPORT**

Sludge Monitoring

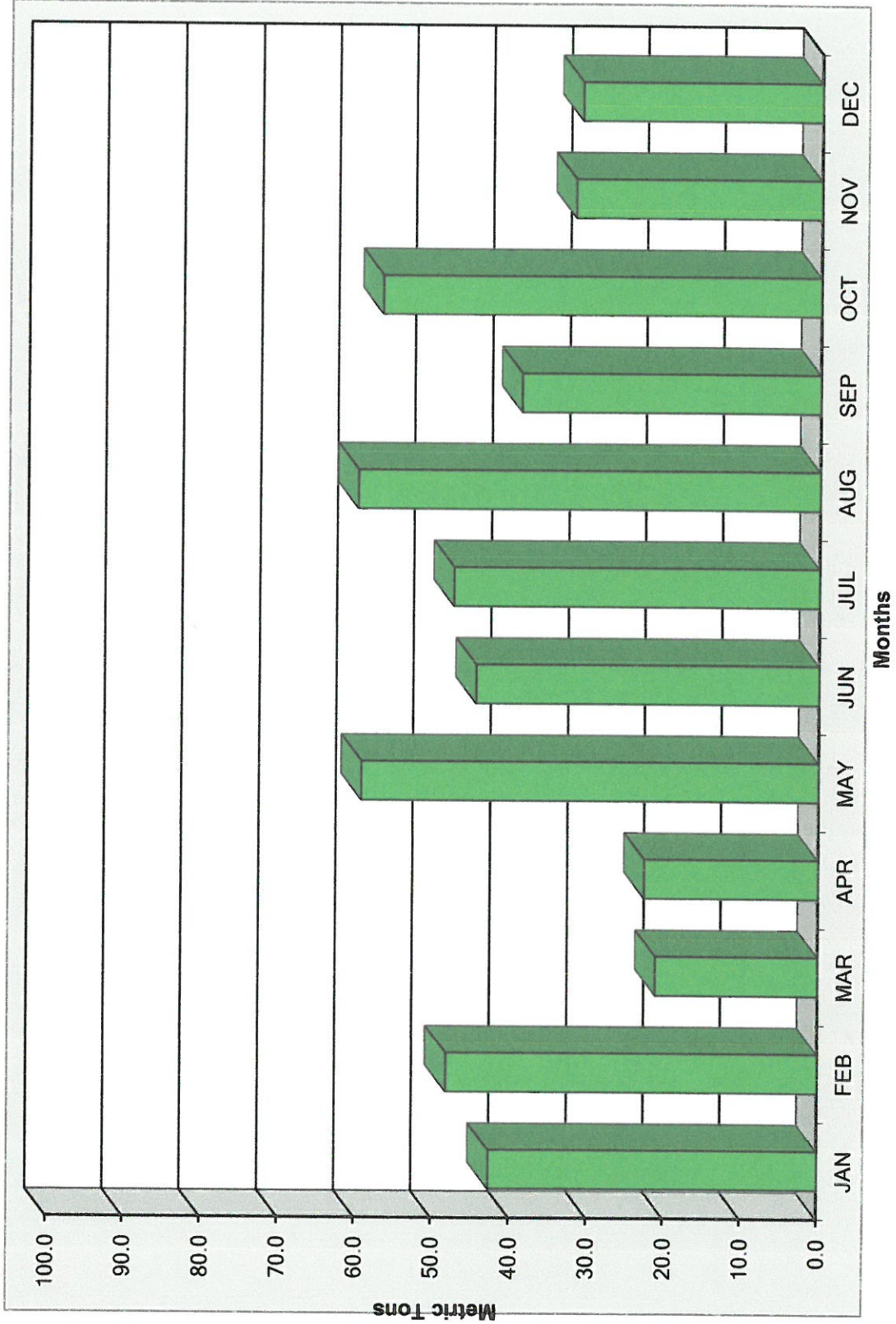
Year: **2023**

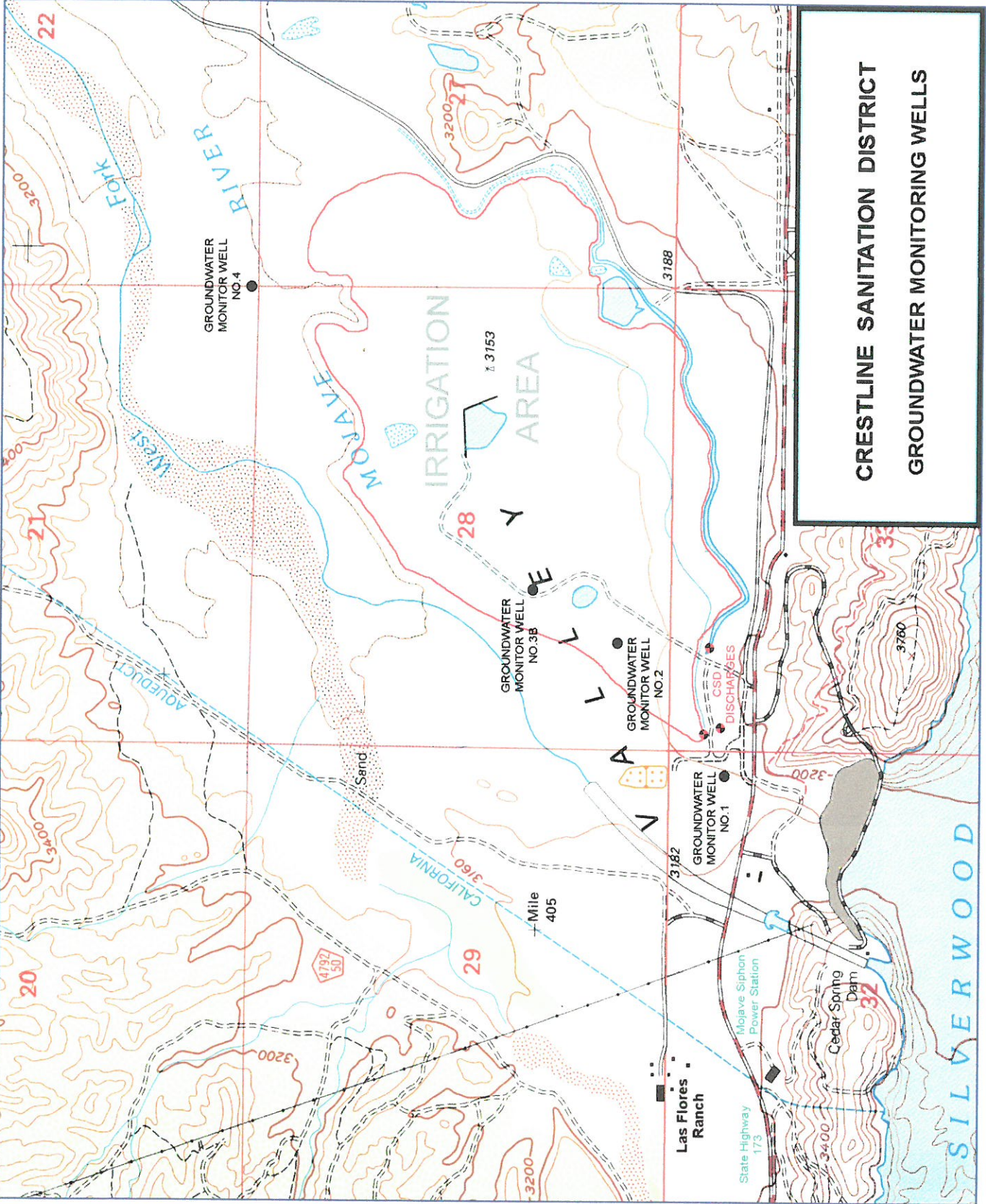
	Sludge Generated	Sludge Removed from Site	Sludge Disposal Method	Sludge Stockpiled on Site
Month				
January	42.7 tons	42.7 Tons	(a)	0.0 Tons
February	48.2 tons	48.2 Tons	(a)	0.0 Tons
March	21.1 tons	21.1 Tons	(a)	0.0 Tons
April	22.6 tons	22.6 Tons	(a)	0.0 Tons
May	59.3 tons	59.3 Tons	(a)	0.0 Tons
June	44.5 tons	44.5 Tons	(a)	0.0 Tons
July	47.4 tons	47.4 Tons	(a)	0.0 Tons
August	59.9 tons	59.9 Tons	(a)	0.0 Tons
September	38.8 tons	38.8 Tons	(a)	0.0 Tons
October	56.8 tons	56.8 Tons	(a)	0.0 Tons
November	31.9 tons	31.9 Tons	(a)	0.0 Tons
December	31.1 tons	31.1 Tons	(a)	0.0 Tons
TOTAL	504.3 tons	504.3 Tons	(a)	0.0 Tons

(a) Sludge is collected from Crestline's three treatment plants and Pilot Rock, mixed and pressed at the Huston Creek Treatment Plant. After pressing; the solids are disposed of at One Stop Landscape (13024 San Timoteo Canyon Road, Redlands, CA 92373) for composting and eventual recycling.

Note: Laboratory Analysis of the sludge is not required at this time in recognition that there are no significant industrial waste inputs to the sewer system, and because sludge sampling is required by the disposal facility that accepts the Discharger's sludge. The Regional Board may require qualitative laboratory testing of the sludge if sludge disposal practices and/or locations, as disclosed in the waste discharge requirements, are altered. (Monitoring and Reporting Program 94-57)

CRESTLINE SANITATION DISTRICT
Annual Sludge Production per Month - 2023





**CRESTLINE SANITATION DISTRICT
GROUNDWATER MONITORING WELLS**

CRESTLINE SANITATION DISTRICT
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Pasture Monitoring Well Number 1
Laboratory Monitoring Data

Year: **2023**

Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	
Sample Type	A	A	A	A	A	A	A	A	A	
Sample Units	Sulfate	Sodium	MBAS	Chloride	TDS	TKN	NH3-N	NO3-N	Water Depth	Well
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	feet *	Number
JANUARY										
FEBRUARY										
MARCH	58.5	58.0	ND	36.2	240	0.19	0.17	1.60	3160.3	1
APRIL										
MAY										
JUNE	148.0	79.0	ND	21.0	310	0.24	0.22	1.70	3154.2	1
JULY										
AUGUST										
SEPTEMBER	144.0	73.0	ND	22.0	310	0.24	0.22	1.80	3154.0	1
OCTOBER										
NOVEMBER										
DECEMBER	150.0	72.0	ND	20.0	280	0.18	0.17	1.90	3157.0	1

A - Monitoring Requirement

* = Depth in feet from surface to groundwater

Lab results of ND (none detected) entered as 0.0 for graphing purpose

CRESTLINE SANITATION DISTRICT
Pasture Monitoring Well Number 2
Laboratory Monitoring Data

Year: **2023**

Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	
Sample Type	A	A	A	A	A	A	A	A	A	
Sample	Sulfate	Sodium	MBAS	Chloride	TDS	TKN	NH3-N	NO3-N	Water Depth	Well
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	feet *	Number
JANUARY										
FEBRUARY										
MARCH	160.0	91.0	ND	133.0	530	0.13	0.12	7.10	3159.9	2
APRIL										
MAY										
JUNE	91.2	58.0	ND	95.0	380	0.30	0.28	6.20	3157.2	2
JULY										
AUGUST										
SEPTEMBER	109.0	72.0	ND	114.0	460	0.27	0.24	6.80	3153.8	2
OCTOBER										
NOVEMBER										
DECEMBER	110.0	71.0	ND	118.0	480	0.27	0.24	7.40	3157.0	2

A - Monitoring Requirement

* = Depth in feet from surface to groundwater

Lab results of ND (none detected) entered as 0.0 for graphing purpose

CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Pasture Monitoring Well Number 3
Laboratory Monitoring Data

Year: **2023**

Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	
Sample Type	A	A	A	A	A	A	A	A	A	
Sample Units	Sulfate	Sodium	MBAS	Chloride	TDS	TKN	NH3-N	NO3-N	Water Depth	Well
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	feet *	Number
JANUARY										
FEBRUARY										
MARCH	99.0	59.0	ND	58.4	370	0.15	0.13	5.60	3156.9	3
APRIL										
MAY										
JUNE	130.0	83.0	ND	135.0	570	0.26	0.25	5.20	3152.3	3
JULY										
AUGUST										
SEPTEMBER	132.0	76.0	ND	130.0	550	0.29	0.27	6.00	3150.8	3
OCTOBER										
NOVEMBER										
DECEMBER	130.0	75.0	ND	126.0	510	0.30	0.28	6.40	3148.9	3

A - Monitoring Requirement

* = Depth in feet from surface to groundwater

Lab results of ND (none detected) entered as 0.0 for graphing purpose

CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Pasture Monitoring Well Number 4
Laboratory Monitoring Data

Year: **2023**

Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	
Sample Type	A	A	A	A	A	A	A	A	A	
Sample	Sulfate	Sodium	MBAS	Chloride	TDS	TKN	NH3-N	NO3-N	Water Depth	Well
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	feet *	Number
JANUARY										
FEBRUARY										
MARCH	130.0	52.0	ND	111.0	560	0.15	0.14	5.90	3117.9	4
APRIL										
MAY										
JUNE	144.0	47.0	ND	112.0	550	0.31	0.29	4.30	3112.6	4
JULY										
AUGUST										
SEPTEMBER	185.0	43.0	ND	150.0	510	0.43	0.40	4.80	3110.8	4
OCTOBER										
NOVEMBER										
DECEMBER	170.0	45.0	ND	168.0	600	0.39	0.36	5.30	3110.2	4

A - Monitoring Requirement

* = Depth in feet from surface to groundwater

Lab results of ND (none detected) entered as 0.0 for graphing purpose

**CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Pasture Monitoring Wells
Laboratory Monitoring Data**

Annual Samples

2023

Frequency	Annual			
Sample Type	A	A	A	
Sample	Purgable Halocarbons *	Purgable Aromatics	Base/Neutral/Acid Extractable Organics	Well Number
Units	ug/l	ug/l	ug/l	
Month				
September	B	B	B	1
September	B	B	B	2
September	B	B	B	3
September	B	B	B	4

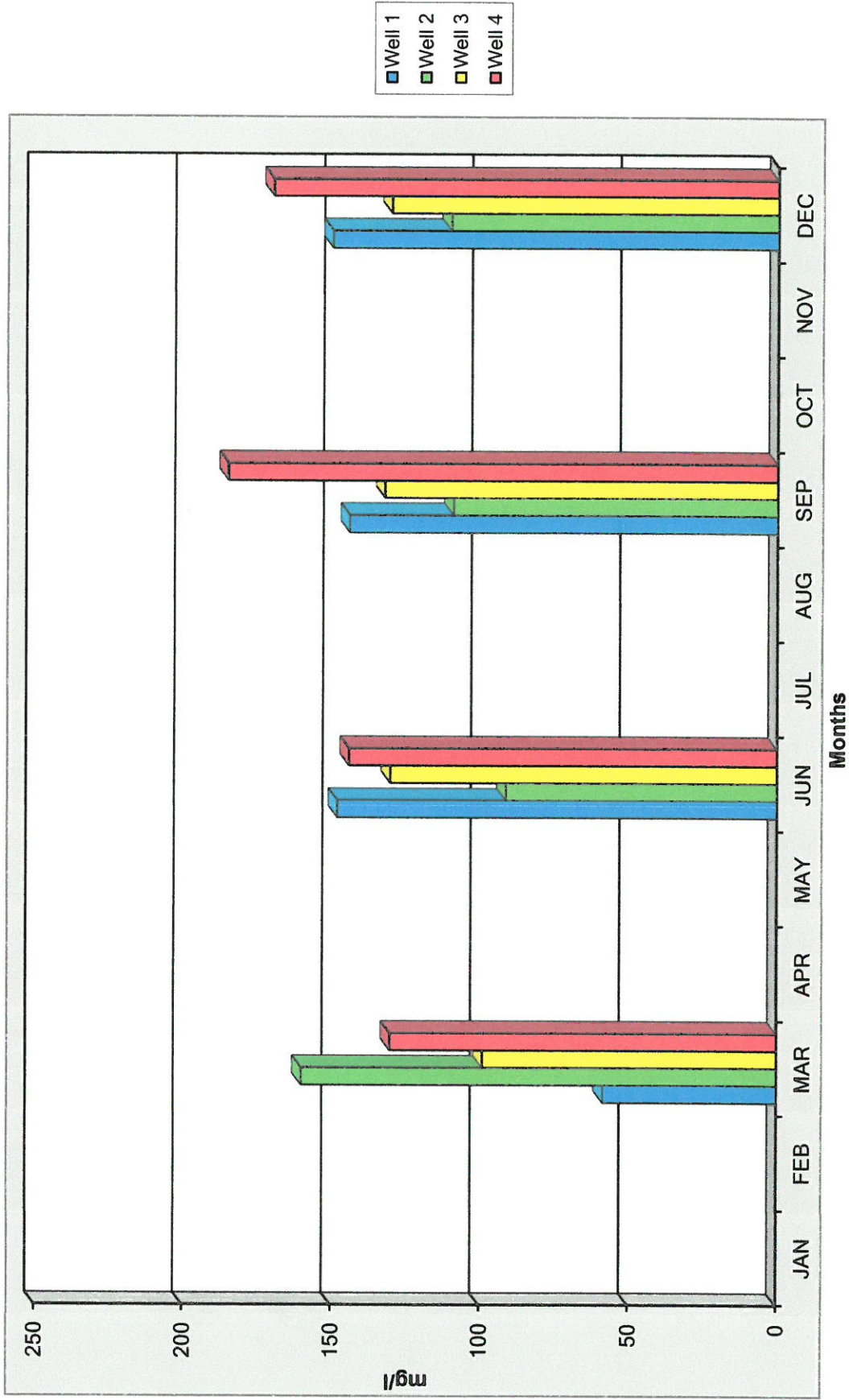
A - Monitoring Requirement

B - For Sample Results see Appendix "B"

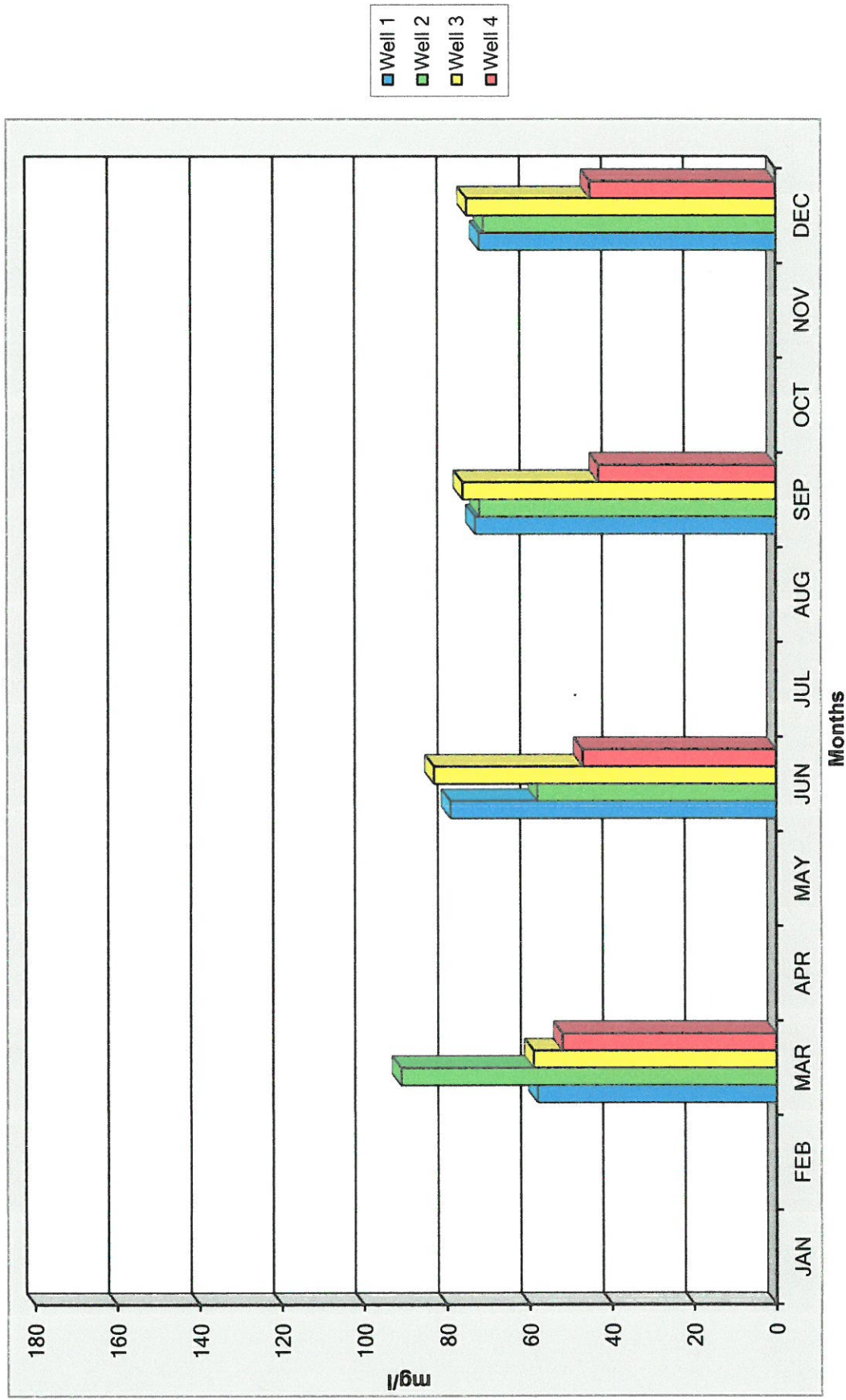
* Analysis shall be conducted for those substances included on the EPA list of priority pollutants and all other toxic substances known to be discharged to the Discharger's system using EPA test methods 603, 608, 624, 625 and other appropriate tests for heavy metals.

CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - Sulfate - 2023

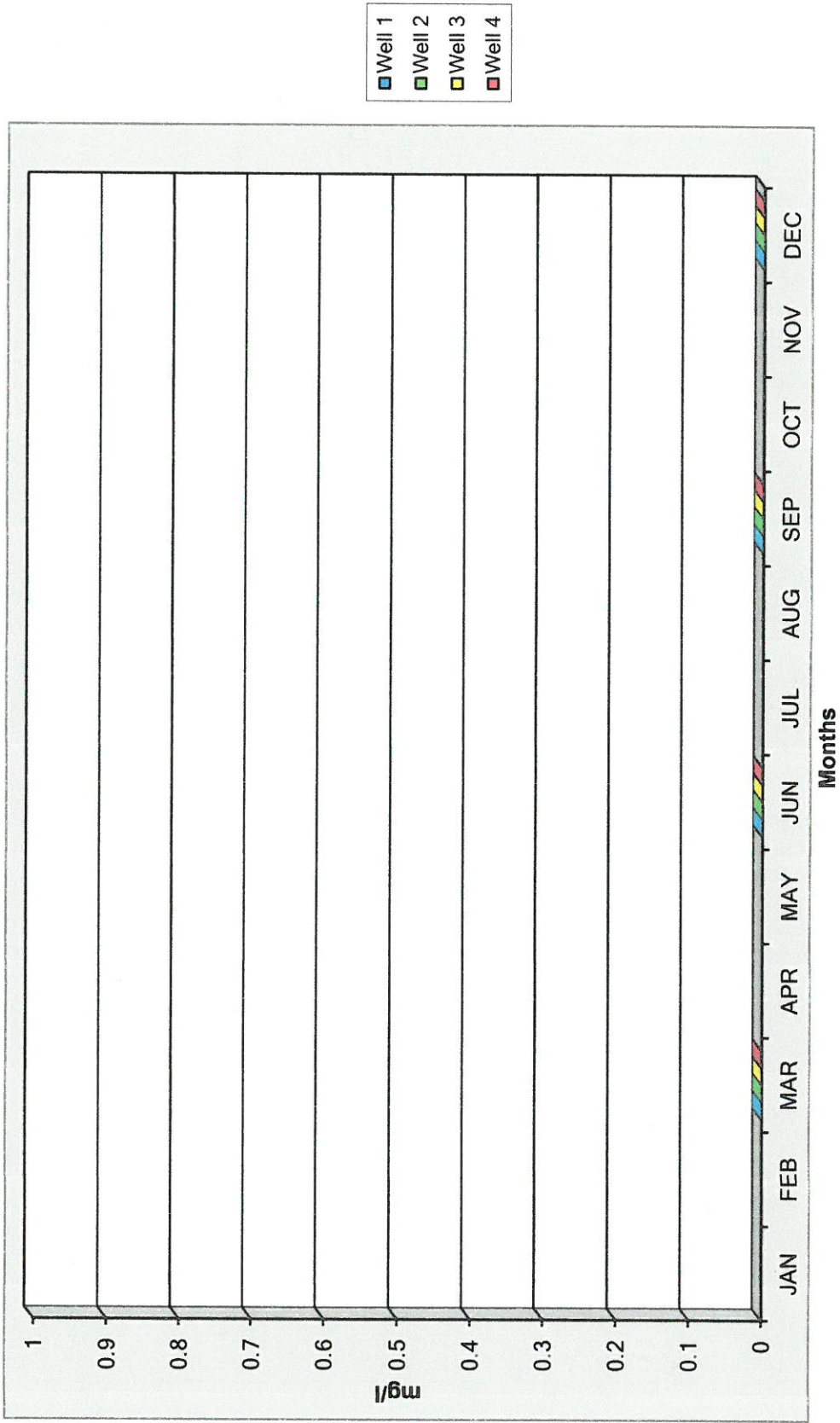


CRESTLINE SANITATION DISTRICT
 Pasture Monitoring Well Testing - Sodium - 2023



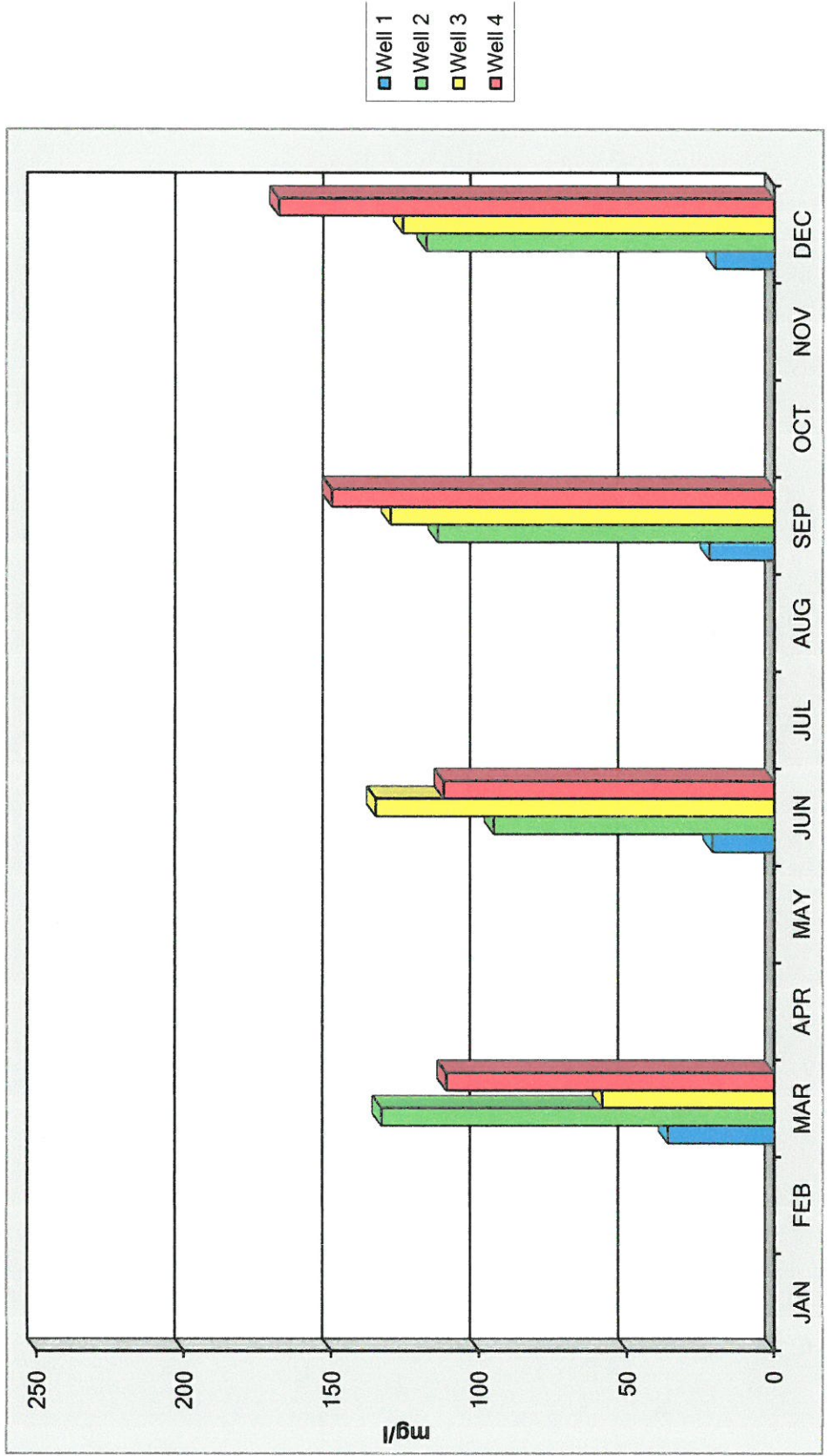
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - MBAS - 2023



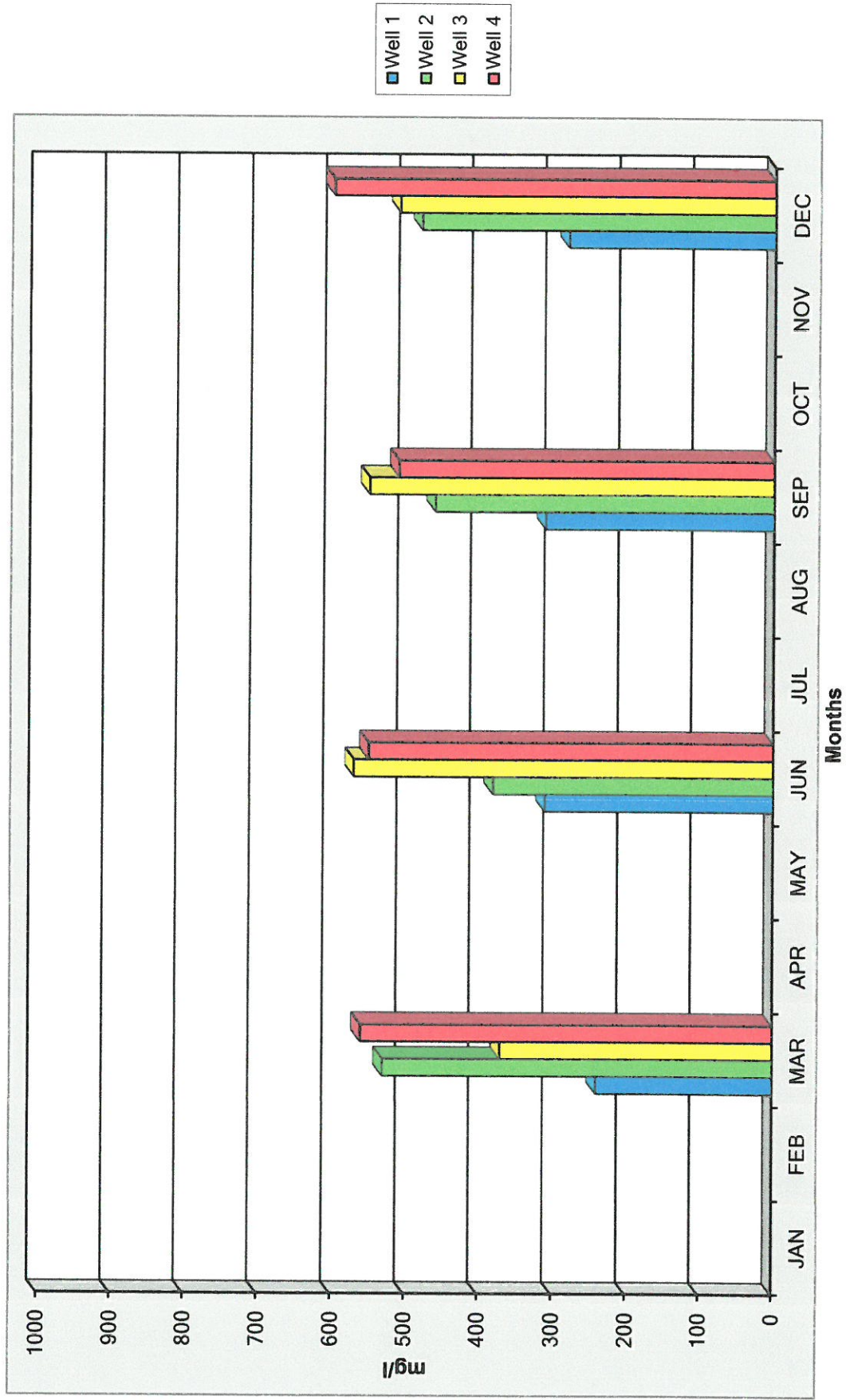
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - Chloride - 2023



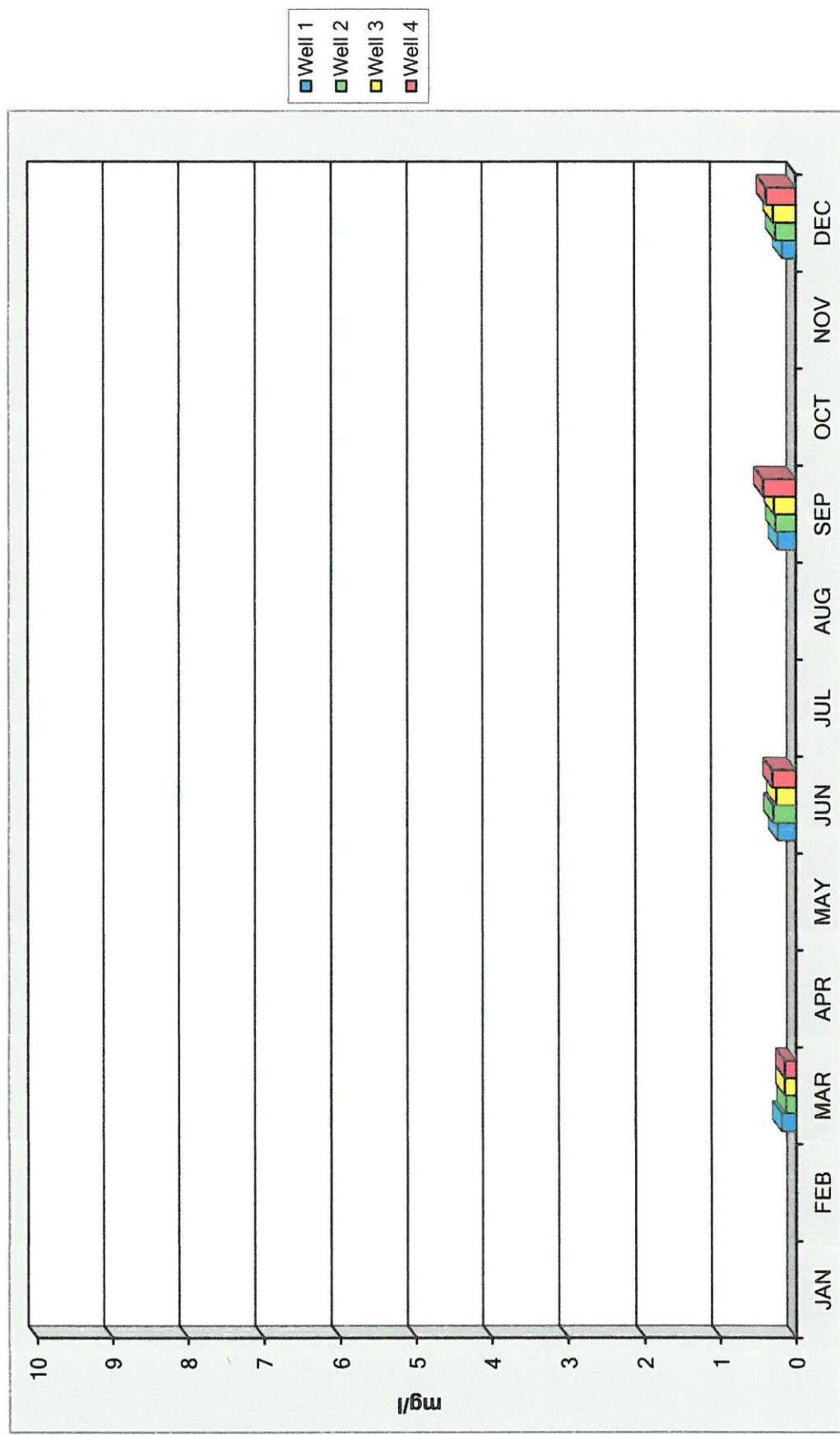
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - TDS - 2023

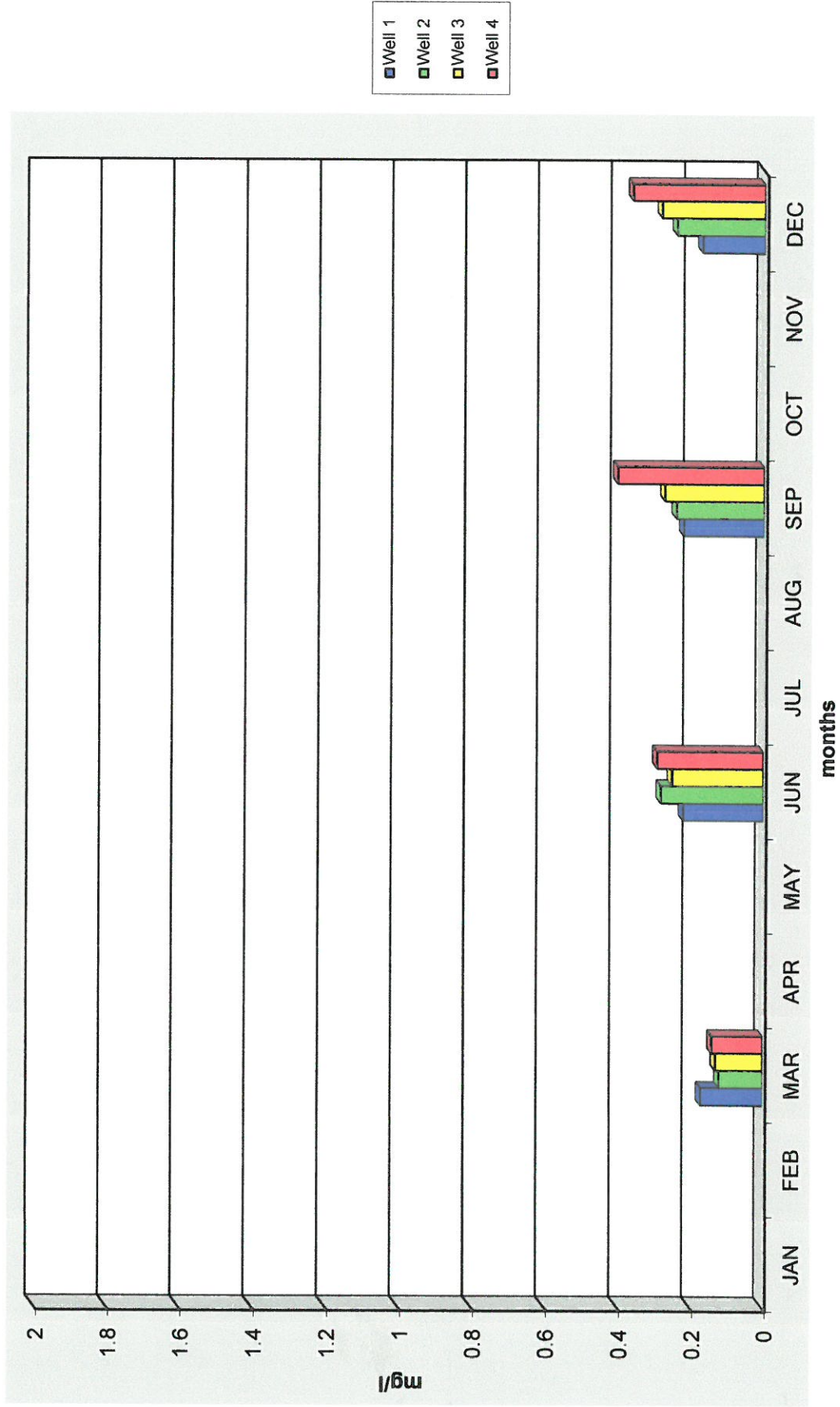


CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - TKN - 2023

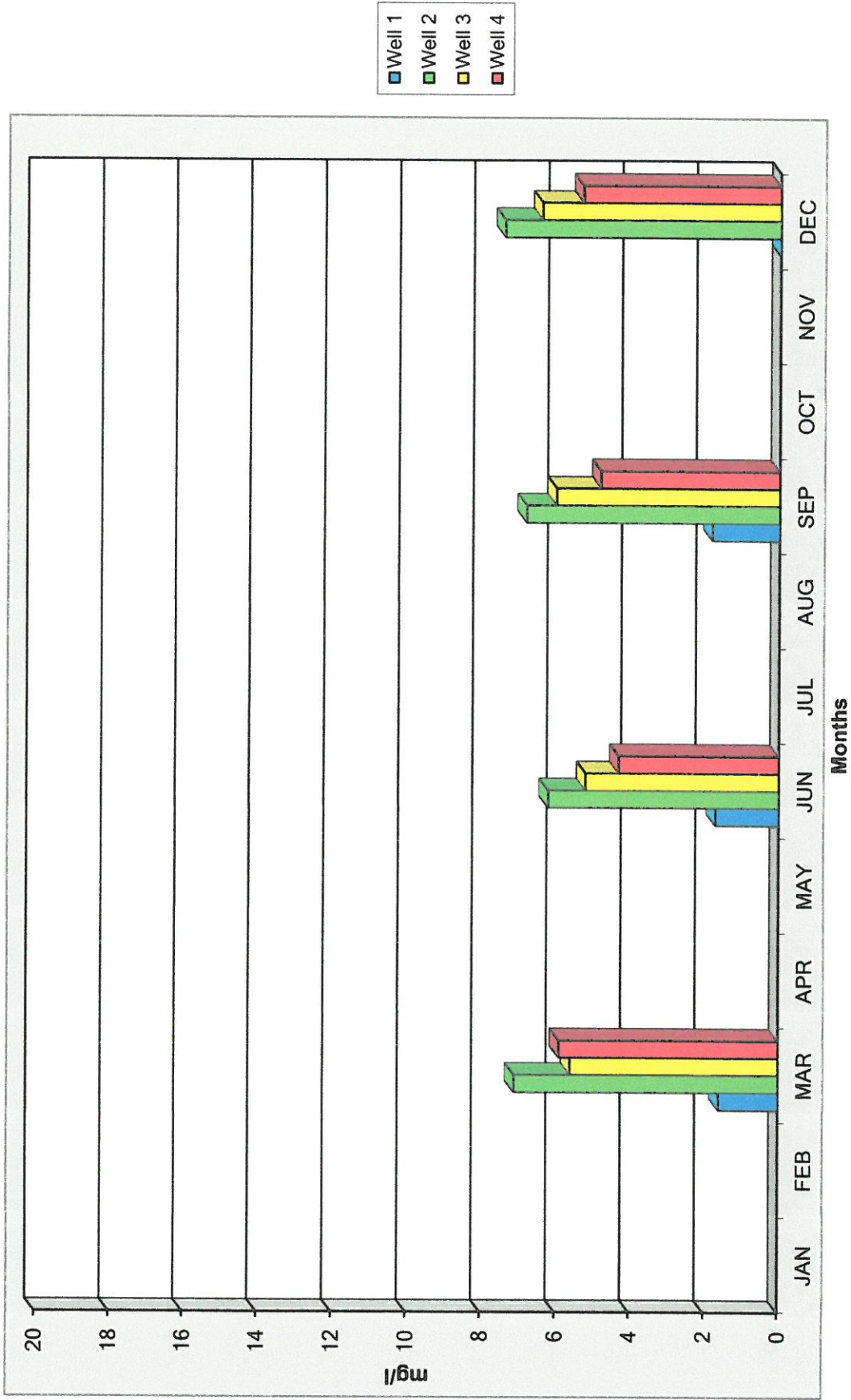


CRESTLINE SANITATION DISTRICT
Pasture Monitoring Well Testing - NH3-N - 2023



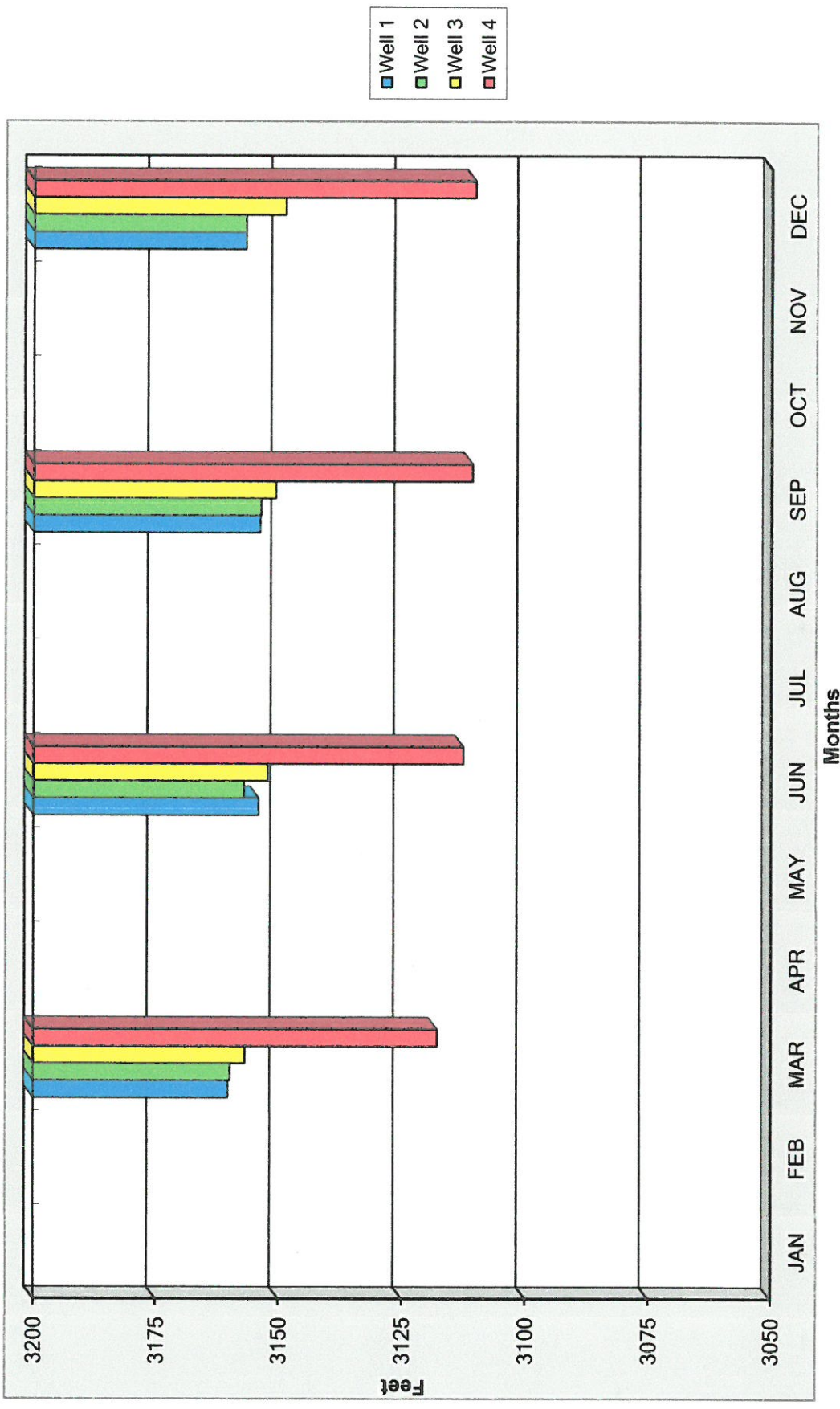
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - NO3-N - 2023



CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - Elevation of Water Depth - 2023



CRESTLINE SANITATION DISTRICT
Semi Annual Supply Water Monitoring Data

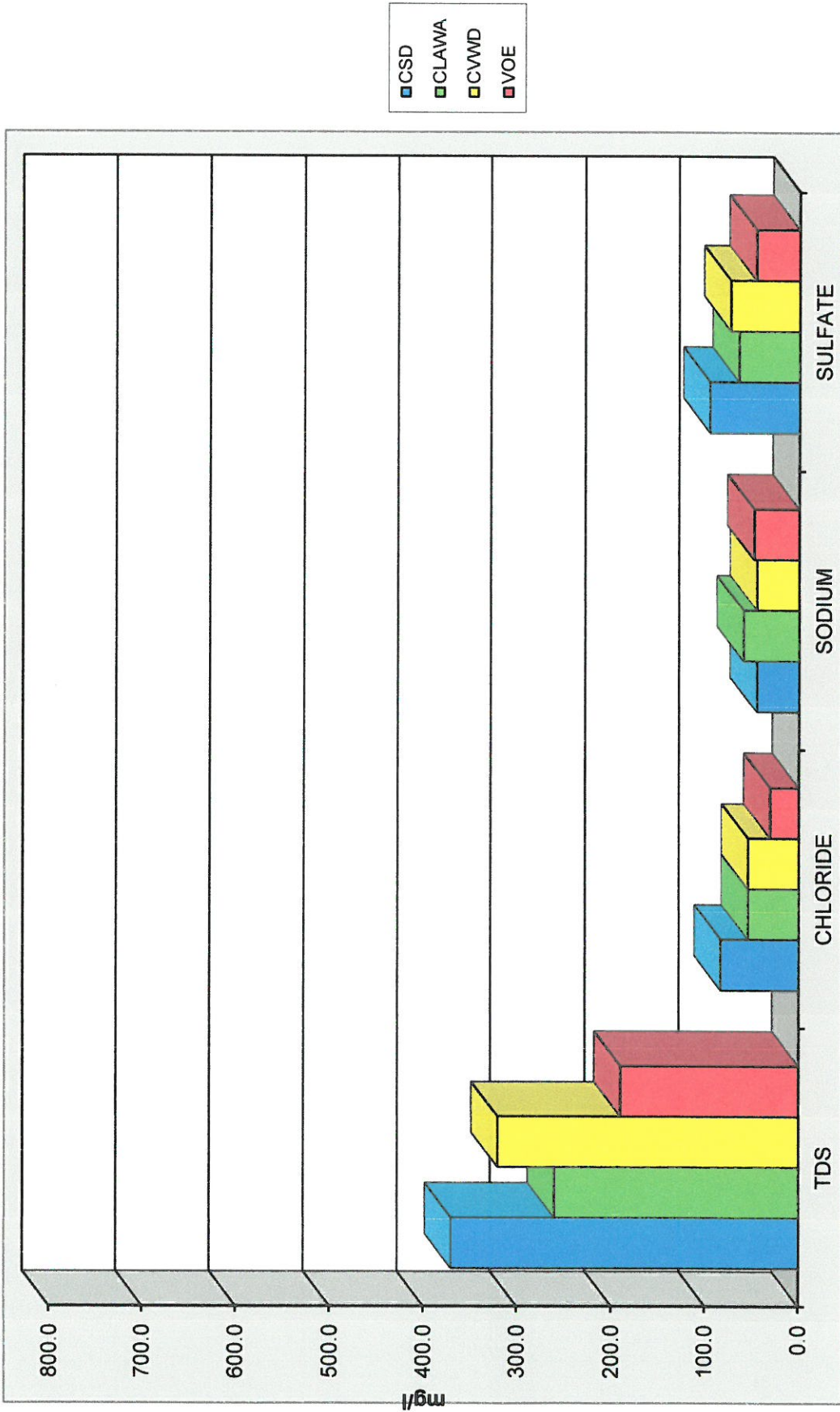
Year: **2023**

	Sample Dates	Frequency	Semi-Annual			Semi-Annual	Total Flow in MG	Local Water	Purchased Water	
			Violations	Monitor	Monitor					Monitor
			Sample Type	Monitor	Monitor					Monitor
			Maximum							
Crestline Sanitation District (Final Effluent)	3/17/2023	MG/L	370.0	83.0	45.0	95.0	179.75			
		POUNDS	554,673	124,427	67,460	142,416				
Crestline Lake Arrowhead Water Agency (Silverwood)	3/17/2023	MG/L	260	54.0	59.0	64.0	14.58			
		POUNDS	31,615	6,566	7,174	7,782				
Crestline Village Water District	3/17/2023	MG/L	320	54.0	45.0	73.0	99.86	49.35	50.51	
		POUNDS	266,506	44,973	37,477	60,797				
Valley of Enchantment Mutual Water Company	3/17/2023	MG/L	190	30.5	48.0	46.0	23.55	7.67	15.88	
		POUNDS	37,317	5,990	9,428	9,035				
Calculated Constituent Concentrations		MG/L	291.5	50.0	47.0	67.4	138.0			
	POUNDS	335,439	57,530	54,079	77,614					

"CALCULATED CONSTITUENT CONCENTRATIONS" above, were mathematically calculated on samples collected from the three water purveyors contributing to the sewer system.

Samples collected in March Flow Dates : October 1, 2022 thru March 31, 2023

CRESTLINE SANITATION DISTRICT
 Supply Water Testing - March, 2023



CRESTLINE SANITATION DISTRICT
Semi Annual Supply Water Monitoring Data

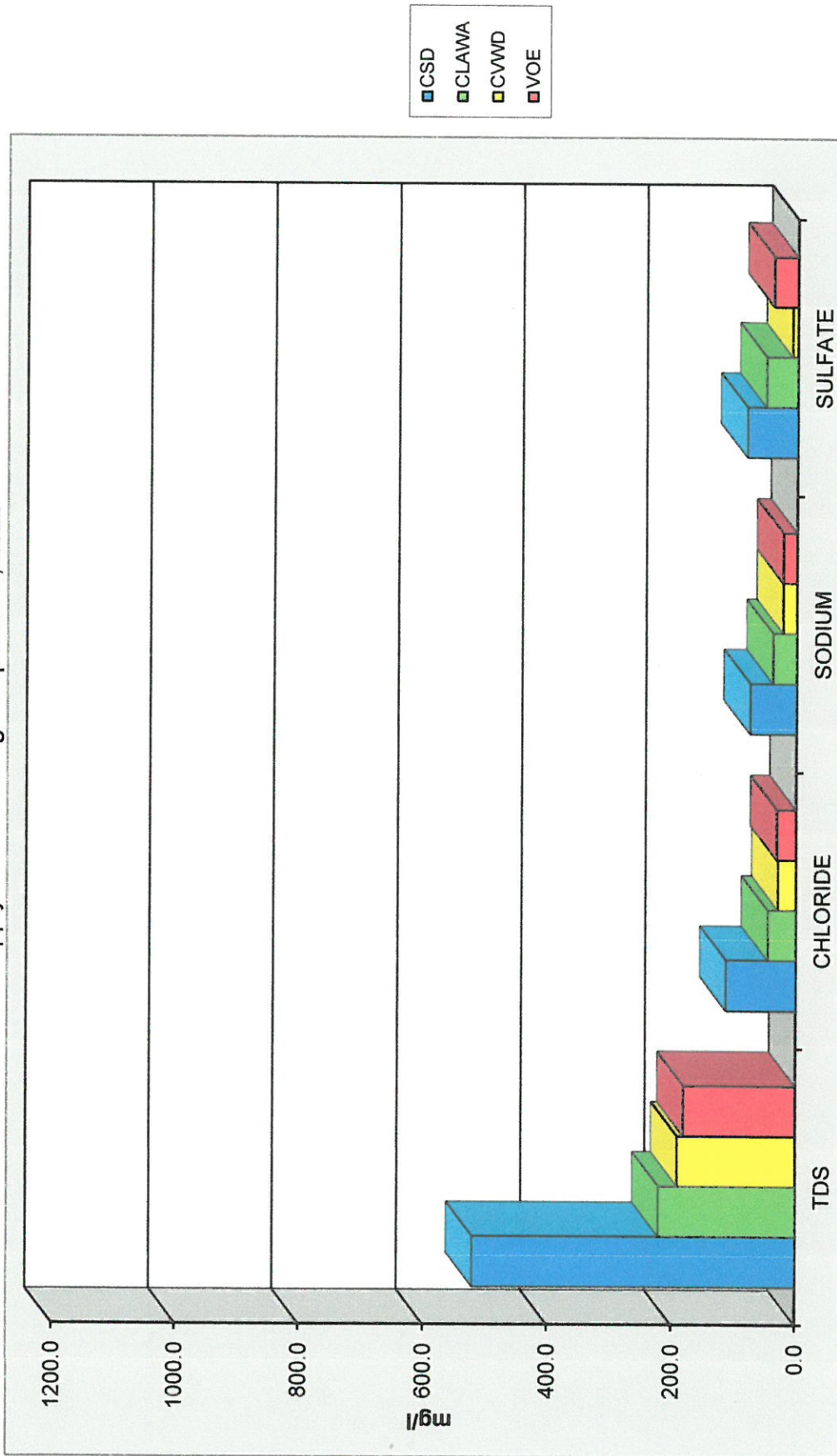
Year: **2023**

Sample Dates	Frequency	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual	Total Flow in MG	Local Water	Purchased Water
Sample type	Maximum	Mean/Min.	Median	TDS	Chloride	Sodium	Sulfate			
Crestline Sanitation District (Final Effluent)	09/14/23	MG/L	520.0	112.0	74.0	80.0	158.24			
		POUNDS	686,264	147,811	97,661	105,579				
Crestline Lake Arrowhead Water Agency (Silverwood)	09/19/23	MG/L	220.0	45.0	38.0	50.0	19.56			
		POUNDS	35,891	7,341	6,199	8,157				
Crestline Village Water District	09/12/23	MG/L	190.0	28.8	22.0	8.4	119.56	86.17	33.39	
		POUNDS	189,458	28,718	21,937	8,376				
Valley of Enchantment Mutual Water Company	09/19/23	MG/L	180.0	30.8	22.0	38.0	16.43	9.60	6.82	
		POUNDS	24,662	4,220	3,014	5,206				
Calculated Constituent Concentrations		MG/L	192.7	31.0	24.0	16.8	155.6			
		POUNDS	250,010	40,279	31,151	21,739				

"CALCULATED CONSTITUENT CONCENTRATIONS" above, were mathematically calculated on samples collected from the three water purveyors contributing to the sewer system.

Samples collected in SEPTEMBER Flow Dates : April 1, 2023 thru September 30, 2023

CRESTLINE SANITATION DISTRICT
 Supply Water Testing - September, 2023

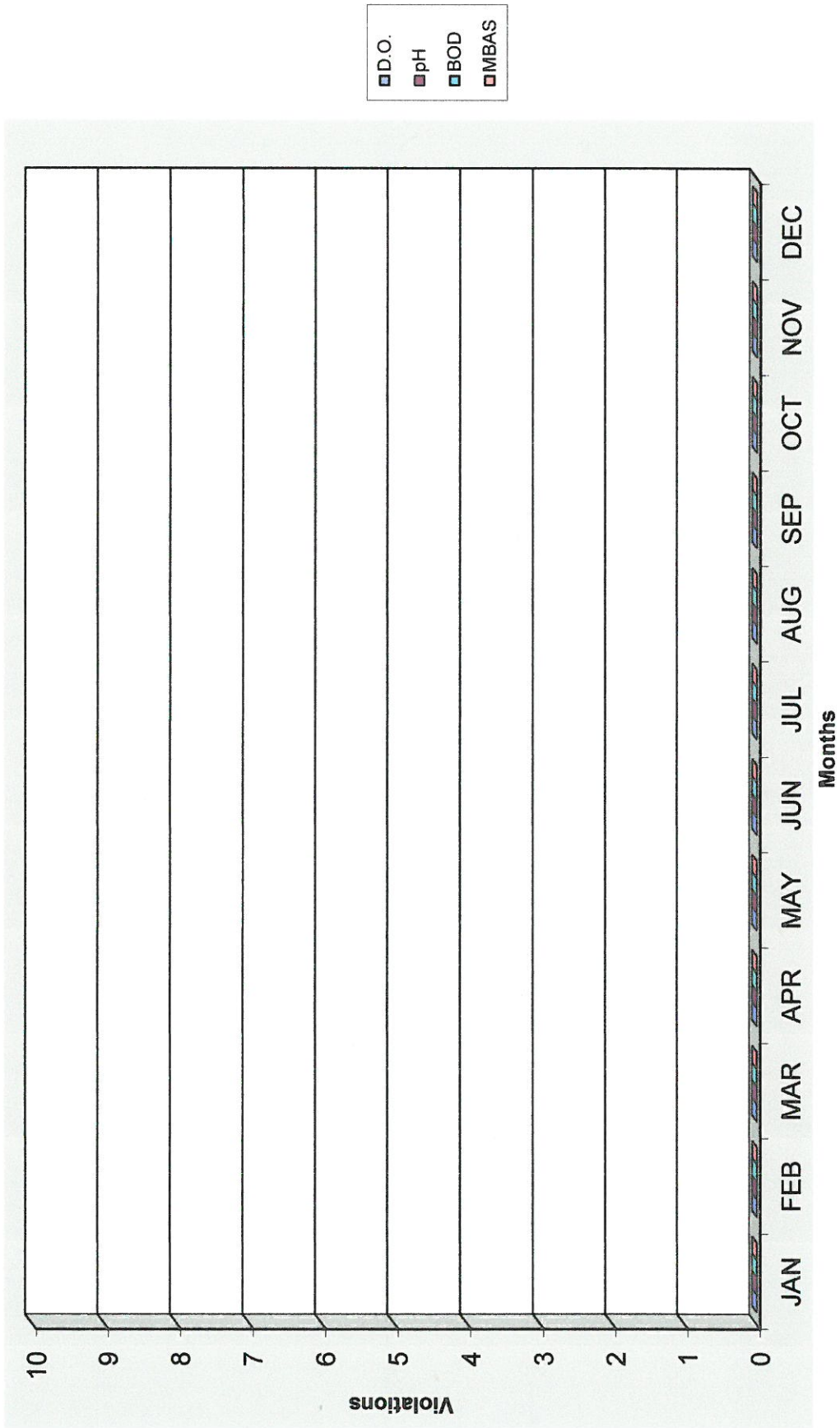


CRESTLINE SANITATION DISTRICT											
ANNUAL REPORT											
Final Effluent Disposal Site (Las Flores) Constituent Violations											
											Year: 2023
Frequency	2 week	weekly	weekly	weekly	2 month	2 month	2 month	2 month	2 month	monthly	monthly
Violations											
Sample Type	D/M	D/M	D/M	D/M	D/M	M	D/M	M	M	M	M
Maximum		0.5 ml/l		< 9	45.0		2.0				
Mean/Min.*	23.0 *		> 1	> 6	30.0		1.0				
	Total	Settleable						Oil &			
	Coliform	Solids	D.O.	pH	BOD	COD	MBAS	Grease	TKN	NO3-N	NH3-N
	MPN	ml/l	mg/l	pH	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
January	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-
Year Total	0	0	0	0	0	0	0	0	0	0	0

D - Has Effluent / Discharge Limitations M - Has Effluent Monitoring Requirements

CRESTLINE SANITATION DISTRICT

Final Effluent Constituent Violations - 2023



CRESTLINE SANITATION DISTRICT

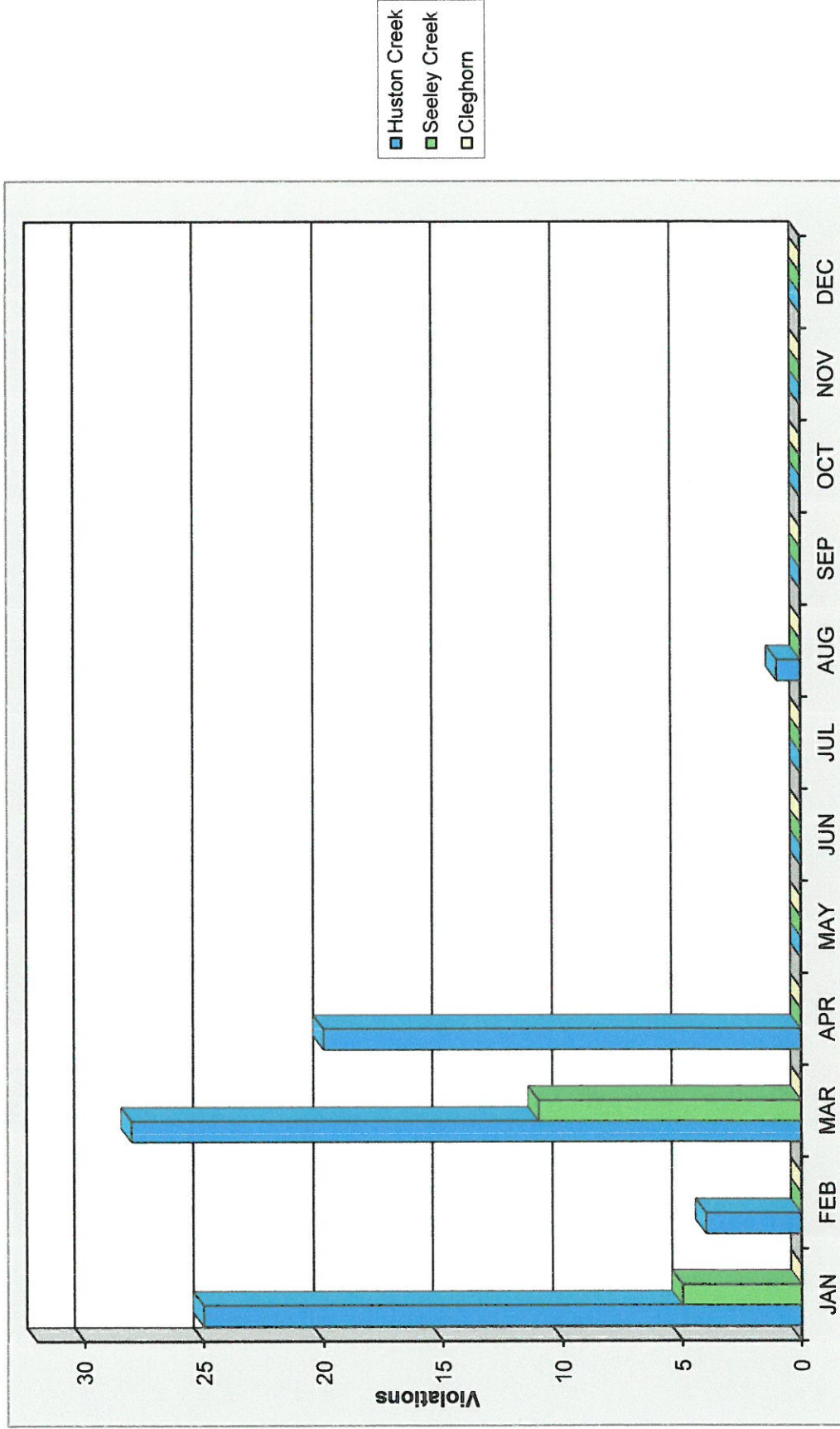
ANNUAL REPORT

Treatment Facilities Flow Violations

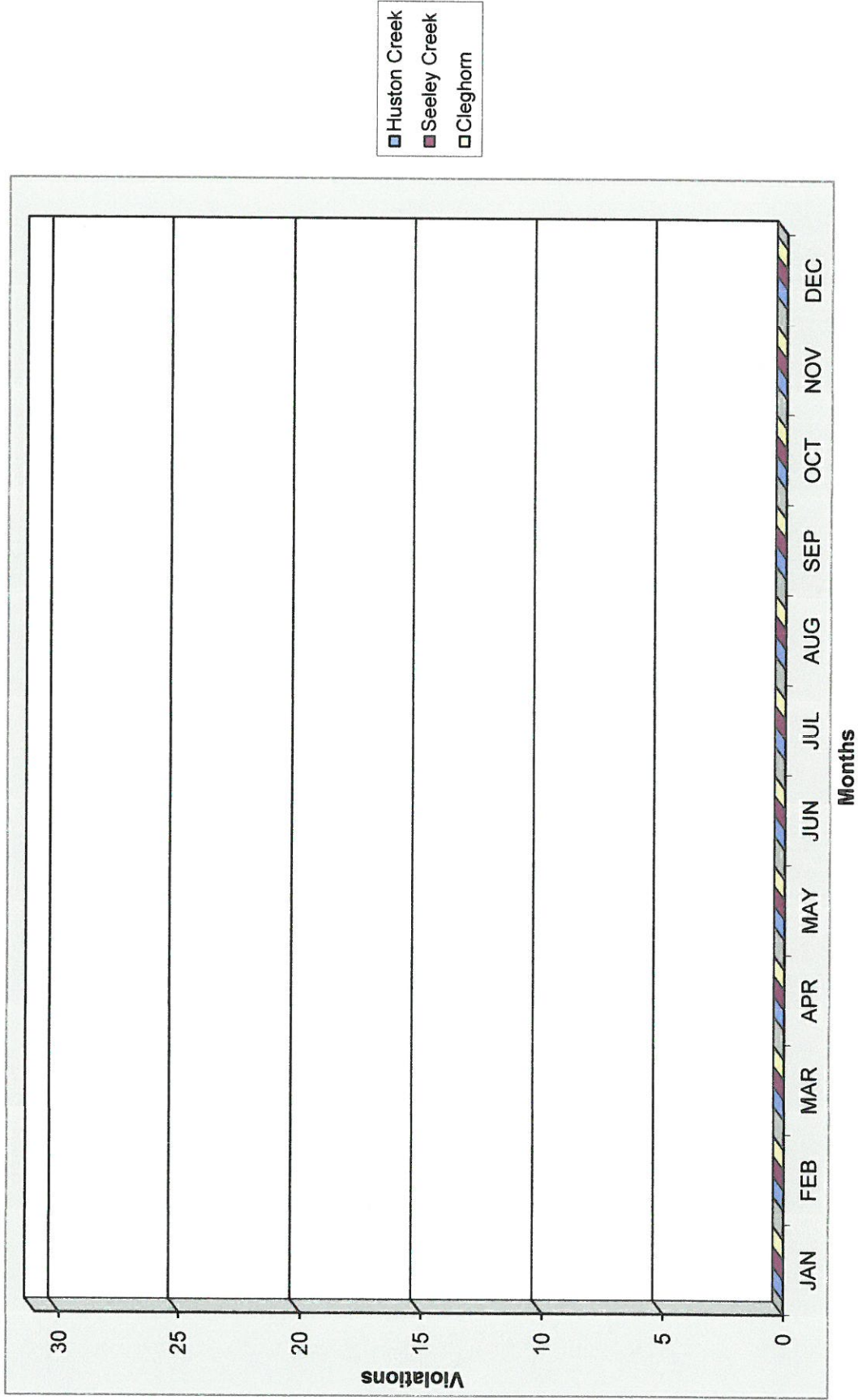
Year: 2023

Facility name	Huston Plant		Seeley Plant		Cleghorn Plant	
Reading	daily	daily	daily	daily	daily	
Average	monthly		monthly		monthly	
Design limits	design 0.7 mg/d	maximum 2.50 mg	design 0.5 mg/d	maximum 1.00 mg	design 0.2 mg/d	maximum 0.4 mg
	design capacity	instantaneous peak	design capacity	instantaneous peak	design capacity	instantaneous peak
	Huston	HC peak	Seeley	SC peak	Cleghorn	CH peak
Months	violations	violations	violations	violations	violations	violations
January	25		5			
February	4					
March	28		11			
April	20					
May						
June						
July						
August	1					
September						
October						
November						
December						
Year Total	78	0	16	0	0	0

CRESTLINE SANITATION DISTRICT
 Treatment Facility Design Capacity Flow Violations - 2023



CRESTLINE SANITATION DISTRICT
 Treatment Facility Instantaneous Flow Violations - 2023



CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

APPENDIX "A"

Sample Results
Las Flores Stand Pipe
District Final Effluent

Annual Testing

Tests Results for:
Purgable Organics
Base / Neutral / Acid Extractable Organics
Heavy Metals



Crestline Sanitation District
 P.O. Box 3395
 Crestline CA, 92325-3395

Project: Las Flores Ranch
 Project Number: Annual Testing Outfall 2023
 Project Manager: Ron Scriven

Reported:
 09/21/23 10:52

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

L.F.-ANN-09-07-A.B.C.D.E.F. (2309124-01) Liquid **Sampled: 09/07/23 09:30** **Received: 09/07/23 13:30**

Silver	ND	0.030	mg/L	1	B3I0809	09/08/23	09/11/23 17:57	EPA 200.7	
Cadmium	ND	0.010	"	"	"	"	"	"	
Chromium	ND	0.020	"	"	"	"	"	"	
Copper	ND	0.030	"	"	"	"	"	"	
Nickel	ND	0.020	"	"	"	"	"	"	
Lead	ND	0.10	"	"	"	"	"	"	
Zinc	0.036	0.020	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: Las Flores Ranch
Project Number: Annual Testing Outfall 2023
Project Manager: Ron Scriven

Reported:
09/21/23 10:52

Volatile Organics by EPA Method 624.1

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
L.F.-ANN-09-07-A.B.C.D.E.F. (2309124-01) Liquid Sampled: 09/07/23 09:30 Received: 09/07/23 13:30									
Acrolein	ND	5.0	µg/L	1	B311107	09/08/23	09/08/23 13:58	EPA 624.1	
Acrylonitrile	ND	2.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	1.6	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	5.0	"	"	"	"	"	"	
Chloroform	16	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	2.1	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		104 %	88-110		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: Las Flores Ranch
Project Number: Annual Testing Outfall 2023
Project Manager: Ron Scriven

Reported:
09/21/23 10:52

Volatile Organics by EPA Method 624.1

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.-ANN-09-07-A.B.C.D.E.F. (2309124-01) Liquid Sampled: 09/07/23 09:30 Received: 09/07/23 13:30									
Surrogate: 4-Bromofluorobenzene		98.3 %		86-115	B3I1107	09/08/23	09/08/23 13:58	EPA 624.1	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: Las Flores Ranch
Project Number: Annual Testing Outfall 2023
Project Manager: Ron Scriven

Reported:
09/21/23 10:52

Semivolatile Organics by EPA Method 625.1

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

L.F.-ANN-09-07-A.B.C.D.E.F. (2309124-01) Liquid **Sampled: 09/07/23 09:30** **Received: 09/07/23 13:30**

Acenaphthene	ND	5.0	µg/L	1	B311811	09/13/23	09/18/23 14:22	EPA 625.1	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzidine	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	6.2	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	1.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.0	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	5.0	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: Las Flores Ranch
Project Number: Annual Testing Outfall 2023
Project Manager: Ron Scriven

Reported:
09/21/23 10:52

Semivolatile Organics by EPA Method 625.1

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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L.F.-ANN-09-07-A.B.C.D.E.F. (2309124-01) Liquid **Sampled: 09/07/23 09:30** **Received: 09/07/23 13:30**

Indeno (1,2,3-cd) pyrene	ND	5.0	µg/L	1	B311811	09/13/23	09/18/23 14:22	EPA 625.1	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Methyl-4,6-dinitrophenol	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	1.0	"	"	"	"	"	"	
4-Nitrophenol	ND	1.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	5.0	"	"	"	"	"	"	
Diphenylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	1.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.0	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		77.5 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		110 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		86.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		73.2 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		104 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		96.0 %	18-137		"	"	"	"	

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 Crestline CA, 92325-3395

Project: Las Flores Ranch
 Project Number: Annual Testing Outfall 2023
 Project Manager: Ron Scriven

Reported:
 09/21/23 10:52

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.-ANN-09-07-A.B.C.D.E.F. (2309124-01) Liquid Sampled: 09/07/23 09:30 Received: 09/07/23 13:30									
HC < C8	ND	0.010	mg/L	1	B311205	09/12/23	09/12/23 14:25	EPA 8015B	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
C12 <= HC < C14	0.016	0.010	"	"	"	"	"	"	
C14 <= HC < C16	0.015	0.010	"	"	"	"	"	"	
C16 <= HC < C18	0.020	0.010	"	"	"	"	"	"	
C18 <= HC < C20	ND	0.010	"	"	"	"	"	"	
C20 <= HC < C24	0.055	0.010	"	"	"	"	"	"	
C24 <= HC < C28	0.041	0.010	"	"	"	"	"	"	
C28 <= HC < C32	0.16	0.010	"	"	"	"	"	"	
HC >= C32	0.058	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	0.36	0.050	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		101 %	60-175		"	"	"	"	

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Crestline Sanitation District
 P.O. Box 3395
 Crestline CA, 92325-3395

Project: Las Flores Ranch
 Project Number: Annual Testing Outfall 2023
 Project Manager: Ron Scriven

Reported:
 09/21/23 10:52

Metals by EPA 200 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I0809 - EPA 200 Series

Blank (B3I0809-BLK1)

Prepared: 09/08/23 Analyzed: 09/11/23

Cadmium	ND	0.010	mg/L							
Chromium	ND	0.020	"							
Copper	ND	0.030	"							
Lead	ND	0.10	"							
Nickel	ND	0.020	"							
Silver	ND	0.030	"							
Zinc	ND	0.020	"							

LCS (B3I0809-BS1)

Prepared: 09/08/23 Analyzed: 09/11/23

Cadmium	0.175	0.010	mg/L	0.200		87.4	85-115			
Chromium	0.173	0.020	"	0.200		86.4	85-115			
Copper	0.177	0.030	"	0.200		88.6	85-115			
Lead	0.177	0.10	"	0.200		88.4	85-115			
Nickel	0.172	0.020	"	0.200		85.9	85-115			
Silver	0.173	0.030	"	0.200		86.6	85-115			
Zinc	0.176	0.020	"	0.200		88.2	85-115			

Matrix Spike (B3I0809-MS1)

Source: 2309104-01

Prepared: 09/08/23 Analyzed: 09/11/23

Cadmium	0.180	0.010	mg/L	0.200	ND	89.8	70-130			
Chromium	0.186	0.020	"	0.200	ND	93.2	75-130			
Copper	0.186	0.030	"	0.200	ND	92.8	70-130			
Lead	0.187	0.10	"	0.200	ND	93.4	70-130			
Nickel	0.188	0.020	"	0.200	ND	94.2	70-130			
Silver	0.192	0.030	"	0.200	ND	96.1	70-130			
Zinc	0.176	0.020	"	0.200	ND	87.8	70-130			

Matrix Spike Dup (B3I0809-MSD1)

Source: 2309104-01

Prepared: 09/08/23 Analyzed: 09/11/23

Cadmium	0.174	0.010	mg/L	0.200	ND	87.2	70-130	2.88	20	
Chromium	0.180	0.020	"	0.200	ND	90.0	75-130	3.44	20	
Copper	0.185	0.030	"	0.200	ND	92.4	70-130	0.540	20	
Lead	0.182	0.10	"	0.200	ND	91.2	70-130	2.33	20	
Nickel	0.183	0.020	"	0.200	ND	91.7	70-130	2.74	20	
Silver	0.188	0.030	"	0.200	ND	94.2	70-130	2.00	20	
Zinc	0.171	0.020	"	0.200	ND	85.5	70-130	2.60	20	

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: Las Flores Ranch
Project Number: Annual Testing Outfall 2023
Project Manager: Ron Scriven

Reported:
09/21/23 10:52

Volatile Organics by EPA Method 624.1 - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I1107 - EPA 5030B P & T

Blank (B3I1107-BLK1)

Prepared & Analyzed: 09/11/23

1,1,1-Trichloroethane	ND	1.0	µg/L
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1-Dichloroethane	ND	1.0	"
1,1-Dichloroethene	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,2-Dichloroethane	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
2-Chloroethylvinyl ether	ND	5.0	"
Acrolein	ND	5.0	"
Acrylonitrile	ND	2.0	"
Benzene	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
Carbon tetrachloride	ND	1.0	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
cis-1,3-Dichloropropene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
Ethylbenzene	ND	1.0	"
m,p-Xylene	ND	1.0	"
Methyl tert-butyl ether	ND	1.0	"
Methylene chloride	ND	1.0	"
o-Xylene	ND	1.0	"
Tetrachloroethene	ND	1.0	"
Toluene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
trans-1,3-Dichloropropene	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"

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Project: Las Flores Ranch
Project Number: Annual Testing Outfall 2023
Project Manager: Ron Scriven

Reported:
09/21/23 10:52

Volatile Organics by EPA Method 624.1 - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I1107 - EPA 5030B P & T

Blank (B3I1107-BLK1)

Prepared & Analyzed: 09/11/23

Vinyl chloride	ND	1.0	µg/L							
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LCS (B3I1107-BS1)

Prepared & Analyzed: 09/11/23

1,1-Dichloroethene	46.2	1.0	µg/L	50.0		92.4	80-120			
Benzene	46.7	1.0	"	50.0		93.4	80-120			
Chlorobenzene	57.4	1.0	"	50.0		115	80-120			
Toluene	54.2	1.0	"	50.0		108	80-120			
Trichloroethene	54.4	1.0	"	50.0		109	80-120			

Matrix Spike (B3I1107-MS1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

1,1-Dichloroethene	54.5	1.0	µg/L	50.0	ND	109	50-150			
Benzene	56.9	1.0	"	50.0	ND	114	37-151			
Chlorobenzene	52.4	1.0	"	50.0	ND	105	37-160			
Toluene	54.3	1.0	"	50.0	2.14	104	47-150			
Trichloroethene	54.0	1.0	"	50.0	ND	108	71-157			

Matrix Spike Dup (B3I1107-MSD1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

1,1-Dichloroethene	53.4	1.0	µg/L	50.0	ND	107	50-150	2.04	30	
Benzene	56.4	1.0	"	50.0	ND	113	37-151	0.953	30	
Chlorobenzene	50.6	1.0	"	50.0	ND	101	37-160	3.48	30	
Toluene	52.5	1.0	"	50.0	2.14	101	47-150	3.37	30	
Trichloroethene	52.7	1.0	"	50.0	ND	105	71-157	2.44	30	

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Crestline Sanitation District
 P.O. Box 3395
 Crestline CA, 92325-3395

Project: Las Flores Ranch
 Project Number: Annual Testing Outfall 2023
 Project Manager: Ron Scriven

Reported:
 09/21/23 10:52

Semivolatile Organics by EPA Method 625.1 - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B311811 - EPA 3510C Sep Funnel

Blank (B311811-BLK1)

Prepared: 09/15/23 Analyzed: 09/18/23

1,2,4-Trichlorobenzene	ND	5.0	µg/L
1,2-Dichlorobenzene	ND	5.0	"
1,2-Diphenylhydrazine	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2,4,6-Trichlorophenol	ND	1.0	"
2,4-Dichlorophenol	ND	1.0	"
2,4-Dimethylphenol	ND	1.0	"
2,4-Dinitrophenol	ND	1.0	"
2,4-Dinitrotoluene	ND	5.0	"
2,6-Dinitrotoluene	ND	5.0	"
2-Chloronaphthalene	ND	5.0	"
2-Chlorophenol	ND	1.0	"
2-Methyl-4,6-dinitrophenol	ND	5.0	"
2-Nitrophenol	ND	1.0	"
3,3'-Dichlorobenzidine	ND	5.0	"
4-Bromophenyl phenyl ether	ND	5.0	"
4-Chloro-3-methylphenol	ND	5.0	"
4-Chlorophenyl phenyl ether	ND	5.0	"
4-Nitrophenol	ND	1.0	"
Acenaphthene	ND	5.0	"
Acenaphthylene	ND	5.0	"
Anthracene	ND	5.0	"
Benzidine	ND	5.0	"
Benzo (a) anthracene	ND	5.0	"
Benzo (a) pyrene	ND	5.0	"
Benzo (b) fluoranthene	ND	5.0	"
Benzo (g,h,i) perylene	ND	5.0	"
Benzo (k) fluoranthene	ND	5.0	"
Bis(2-chloroethoxy)methane	ND	5.0	"
Bis(2-chloroethyl)ether	ND	5.0	"
Bis(2-chloroisopropyl)ether	ND	5.0	"
Bis(2-ethylhexyl)phthalate	ND	5.0	"
Butyl benzyl phthalate	ND	5.0	"
Chrysene	ND	5.0	"
Dibenz (a,h) anthracene	ND	5.0	"
Diethyl phthalate	ND	5.0	"

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 Crestline CA, 92325-3395

Project: Las Flores Ranch
 Project Number: Annual Testing Outfall 2023
 Project Manager: Ron Scriven

Reported:
 09/21/23 10:52

Semivolatile Organics by EPA Method 625.1 - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B311811 - EPA 3510C Sep Funnel

Blank (B311811-BLK1)

Prepared: 09/15/23 Analyzed: 09/18/23

Dimethyl phthalate	ND	5.0	µg/L							
Di-n-butyl phthalate	ND	5.0	"							
Di-n-octyl phthalate	ND	5.0	"							
Diphenylamine	ND	5.0	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	5.0	"							
Hexachlorobenzene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Hexachlorocyclopentadiene	ND	5.0	"							
Hexachloroethane	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	5.0	"							
Isophorone	ND	5.0	"							
Naphthalene	ND	5.0	"							
Nitrobenzene	ND	5.0	"							
N-Nitrosodimethylamine	ND	5.0	"							
N-Nitrosodi-n-propylamine	ND	5.0	"							
Pentachlorophenol	ND	1.0	"							
Phenanthrene	ND	5.0	"							
Phenol	ND	1.0	"							
Pyrene	ND	5.0	"							

LCS (B311811-BS1)

Prepared: 09/15/23 Analyzed: 09/18/23

1,2,4-Trichlorobenzene	10.3	5.0	µg/L	10.0		103	44-142			
1,4-Dichlorobenzene	10.1	5.0	"	10.0		101	20-124			
2,4-Dinitrotoluene	4.43	5.0	"	10.0		44.3	39-139			
2-Chlorophenol	17.3	1.0	"	20.0		86.3	23-134			
4-Chloro-3-methylphenol	16.3	5.0	"	20.0		81.4	22-147			
4-Nitrophenol	16.9	1.0	"	20.0		84.4	0-132			
Acenaphthene	9.90	5.0	"	10.0		99.0	47-145			
N-Nitrosodi-n-propylamine	10.6	5.0	"	10.0		106	0-230			
Pentachlorophenol	18.1	1.0	"	20.0		90.5	14-176			
Phenol	14.5	1.0	"	20.0		72.7	5-112			
Pyrene	7.80	5.0	"	10.0		78.0	52-115			

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Crestline CA, 92325-3395

Project: Las Flores Ranch
Project Number: Annual Testing Outfall 2023
Project Manager: Ron Scriven

Reported:
09/21/23 10:52

Semivolatile Organics by EPA Method 625.1 - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I1811 - EPA 3510C Sep Funnel

LCS (B3I1811-BS2)

Prepared: 09/15/23 Analyzed: 09/18/23

1,2,4-Trichlorobenzene	9.81	5.0	µg/L	10.0		98.1	44-142			
1,4-Dichlorobenzene	9.99	5.0	"	10.0		99.9	20-124			
2,4-Dinitrotoluene	5.52	5.0	"	10.0		55.2	39-139			
2-Chlorophenol	17.1	1.0	"	20.0		85.6	23-134			
4-Chloro-3-methylphenol	16.6	5.0	"	20.0		82.8	22-147			
4-Nitrophenol	14.2	1.0	"	20.0		71.0	0-132			
Acenaphthene	9.09	5.0	"	10.0		90.9	47-145			
N-Nitrosodi-n-propylamine	10.1	5.0	"	10.0		101	0-230			
Pentachlorophenol	14.6	1.0	"	20.0		73.1	14-176			
Phenol	15.0	1.0	"	20.0		75.1	5-112			
Pyrene	8.80	5.0	"	10.0		88.0	52-115			

LCS Dup (B3I1811-BSD1)

Prepared: 09/15/23 Analyzed: 09/18/23

1,2,4-Trichlorobenzene	10.2	5.0	µg/L	10.0		102	44-142	1.37	30	
1,4-Dichlorobenzene	9.93	5.0	"	10.0		99.3	20-124	1.30	30	
2,4-Dinitrotoluene	5.82	5.0	"	10.0		58.2	39-139	27.1	30	
2-Chlorophenol	18.4	1.0	"	20.0		92.0	23-134	6.39	30	
4-Chloro-3-methylphenol	18.3	5.0	"	20.0		91.4	22-147	11.6	30	
4-Nitrophenol	18.0	1.0	"	20.0		90.0	0-132	6.48	30	
Acenaphthene	9.83	5.0	"	10.0		98.3	47-145	0.710	30	
N-Nitrosodi-n-propylamine	11.1	5.0	"	10.0		111	0-230	4.61	30	
Pentachlorophenol	18.4	1.0	"	20.0		91.9	14-176	1.54	30	
Phenol	13.3	1.0	"	20.0		66.7	5-112	8.61	30	
Pyrene	7.71	5.0	"	10.0		77.1	52-115	1.16	30	

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: Las Flores Ranch
Project Number: Annual Testing Outfall 2023
Project Manager: Ron Scriven

Reported:
09/21/23 10:52

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I1205 - EPA 3510C Sep Funnel

Blank (B3I1205-BLK1)

Prepared & Analyzed: 09/12/23

C10 <= HC < C11	ND	0.010	mg/L							
C11 <= HC < C12	ND	0.010	"							
C12 <= HC < C14	ND	0.010	"							
C14 <= HC < C16	ND	0.010	"							
C16 <= HC < C18	ND	0.010	"							
C18 <= HC < C20	ND	0.010	"							
C20 <= HC < C24	ND	0.010	"							
C24 <= HC < C28	ND	0.010	"							
C28 <= HC < C32	ND	0.010	"							
C8 <= HC < C9	ND	0.010	"							
C9 <= HC < C10	ND	0.010	"							
HC < C8	ND	0.010	"							
HC >= C32	ND	0.010	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	0.050	"							

LCS (B3I1205-BS1)

Prepared & Analyzed: 09/12/23

Diesel Range Organics (C10-C24)	0.196	0.050	mg/L	0.200		98.1	80-120			
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LCS (B3I1205-BS2)

Prepared & Analyzed: 09/12/23

Diesel Range Organics (C10-C24)	0.186	0.050	mg/L	0.200		93.0	80-120			
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LCS Dup (B3I1205-BSD1)

Prepared & Analyzed: 09/12/23

Diesel Range Organics (C10-C24)	0.198	0.050	mg/L	0.200		99.1	80-120	1.02	30	
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Sierra Analytical 26052 Merit Cir. Ste. 105 Laguna Hills CA, 92653	Project: 2309124 Project Number: 2309124 Project Manager: Rick Forsyth	Reported: 09/15/23 15:05
--------------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------

L.F.-ANN-09-07-A.B.C.D.E.F. (2309124-01)
T232591-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cyanide by SM4500-CN B,C, or E or EPA 9014

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cyanide (total)	ND	0.0050	mg/l	1	23I0140	09/11/23	09/13/23	SM 4500-CN C/E	

SunStar Laboratories, Inc.



Joann Marroquin, Director of Operations

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CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

APPENDIX "B"

Sample Results
Ground Water Monitoring Wells
Final Effluent Disposal Site

Annual Testing

Tests Results for:
Purgable Halocarbons and Aromatics
Base / Neutral / Acid Extractable Organics

Special Quarterly Testing

Disinfection Bi-products
Trihalomethanes (EPA Method 524.2)
Haloacetic Acids (EPA Method 552.2)



Crestline Sanitation District
 P.O. Box 3395
 Crestline CA, 92325-3395

Project: Las Flores Ranch
 Project Number: Monitoring Wells Annual Samples
 Project Manager: Ron Scriven

Reported:
 09/24/23 15:01

Trihalomethanes by EPA Method 524.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

MW-1 09-14 (2309247-01) Water **Sampled: 09/14/23 10:15** **Received: 09/14/23 14:00**

Surrogate: Dibromofluoromethane		113 %	86-118		B311504	09/15/23	09/18/23 09:48	EPA 524.2	
Surrogate: Toluene-d8		97.1 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	86-115		"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	

MW-2 09-14 (2309247-02) Water **Sampled: 09/14/23 10:35** **Received: 09/14/23 14:00**

Surrogate: Dibromofluoromethane		113 %	86-118		B311504	09/15/23	09/18/23 09:48	EPA 524.2	
Surrogate: Toluene-d8		98.0 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	86-115		"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	

MW-3 09-14 (2309247-03) Water **Sampled: 09/14/23 10:55** **Received: 09/14/23 14:00**

Surrogate: Dibromofluoromethane		112 %	86-118		B311504	09/15/23	09/18/23 09:48	EPA 524.2	
Surrogate: Toluene-d8		97.5 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	86-115		"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	

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Crestline Sanitation District
 P.O. Box 3395
 Crestline CA, 92325-3395

Project: Las Flores Ranch
 Project Number: Monitoring Wells Annual Samples
 Project Manager: Ron Scriven

Reported:
 09/24/23 15:01

Trihalomethanes by EPA Method 524.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

MW-4 09-14 (2309247-04) Water **Sampled: 09/14/23 11:15** **Received: 09/14/23 14:00**

<i>Surrogate: Dibromofluoromethane</i>		112 %		86-118	B311504	09/15/23	09/18/23 09:48	EPA 524.2	
<i>Surrogate: Toluene-d8</i>		96.7 %		88-110	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		86-115	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	

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Crestline Sanitation District
 P.O. Box 3395
 Crestline CA, 92325-3395

Project: Las Flores Ranch
 Project Number: Monitoring Wells Annual Samples
 Project Manager: Ron Scriven

Reported:
 09/24/23 15:01

Haloacetic Acids (GC/ECD) by EPA Method 552.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

MW-1 09-14 (2309247-01) Water Sampled: 09/14/23 10:15 Received: 09/14/23 14:00

<i>Surrogate: 2,3-Dibromopropionic Acid</i>		115 %	60-150		B312001	09/20/23	09/20/23 13:54	EPA 552.2	
Monochloroacetic Acid	ND	2.00	"	"	"	"	"	"	"
Dichloroacetic Acid	ND	1.00	"	"	"	"	"	"	"
Trichloroacetic Acid	ND	1.00	"	"	"	"	"	"	"
Monobromoacetic Acid	ND	1.00	"	"	"	"	"	"	"
Dibromoacetic Acid	ND	1.00	"	"	"	"	"	"	"
Total Haloacetic Acids	ND	1.00	"	"	"	"	"	"	"

MW-2 09-14 (2309247-02) Water Sampled: 09/14/23 10:35 Received: 09/14/23 14:00

<i>Surrogate: 2,3-Dibromopropionic Acid</i>		65.9 %	60-150		B312001	09/20/23	09/20/23 13:54	EPA 552.2	
Monochloroacetic Acid	ND	2.00	"	"	"	"	"	"	"
Dichloroacetic Acid	ND	1.00	"	"	"	"	"	"	"
Trichloroacetic Acid	ND	1.00	"	"	"	"	"	"	"
Monobromoacetic Acid	ND	1.00	"	"	"	"	"	"	"
Dibromoacetic Acid	ND	1.00	"	"	"	"	"	"	"
Total Haloacetic Acids	ND	1.00	"	"	"	"	"	"	"

MW-3 09-14 (2309247-03) Water Sampled: 09/14/23 10:55 Received: 09/14/23 14:00

<i>Surrogate: 2,3-Dibromopropionic Acid</i>		76.6 %	60-150		B312001	09/20/23	09/20/23 13:54	EPA 552.2	
Monochloroacetic Acid	ND	2.00	"	"	"	"	"	"	"
Dichloroacetic Acid	ND	1.00	"	"	"	"	"	"	"
Trichloroacetic Acid	ND	1.00	"	"	"	"	"	"	"
Monobromoacetic Acid	ND	1.00	"	"	"	"	"	"	"
Dibromoacetic Acid	ND	1.00	"	"	"	"	"	"	"
Total Haloacetic Acids	ND	1.00	"	"	"	"	"	"	"

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: Las Flores Ranch
Project Number: Monitoring Wells Annual Samples
Project Manager: Ron Scriven

Reported:
09/24/23 15:01

Haloacetic Acids (GC/ECD) by EPA Method 552.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

MW-4 09-14 (2309247-04) Water **Sampled: 09/14/23 11:15** **Received: 09/14/23 14:00**

<i>Surrogate: 2,3-Dibromopropionic Acid</i>		98.5 %	60-150		B312001	09/20/23	09/20/23 13:54	EPA 552.2	
Monochloroacetic Acid	ND	2.00	"	"	"	"	"	"	"
Dichloroacetic Acid	ND	1.00	"	"	"	"	"	"	"
Trichloroacetic Acid	ND	1.00	"	"	"	"	"	"	"
Monobromoacetic Acid	ND	1.00	"	"	"	"	"	"	"
Dibromoacetic Acid	ND	1.00	"	"	"	"	"	"	"
Total Haloacetic Acids	ND	1.00	"	"	"	"	"	"	"

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