



Carmel Area Wastewater District

Discharge Monitoring Report

2021 Annual

Operations & Compliance Report

NPDES #CA0047996

ORDER # R3-2014-0012

**ADVANCED SECONDARY
(Ocean Discharge)**



Carmel Area Wastewater District

P.O. Box 221428 Carmel California 93922 ♦ (831) 624-1248 ♦ FAX (831) 624-0811

Barbara Bulkema
General Manager
Edward Waggoner
Operations Superintendent
Robert R. Wellington
Legal Counsel

Board of Directors
Gregory D'Ambrosio
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Friday, January 28, 2022

Mr. Peter von Langen
California Regional Water Quality Control Board
Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401-7906
centralcoast@waterboards.ca.gov

Subject: 2021 Carmel Area Wastewater District Annual Secondary Operations & Compliance Report - ORDER #R3-2014-0012, NPDES #CA0047996

Dear Mr. Von Langen

Enclosed please find the Carmel Area Wastewater District's Annual Report submitted as requested by the California Regional Water Quality Control Board and the State Water Resources Control Board

- Section One (1): Tabular summary of the monitoring data obtained during the previous year -2021
- Section Two (2): Graphical summary of the monitoring data obtained during the previous year -2021
- Section Three (3): Discussion of compliance record and corrective actions taken or requested to bring discharge into full compliance.
- Section Four (4): List of current operating personnel and their grade of certification.
- Section Five (5): Carmel Area Wastewater District's Operation & Maintenance Manual status discussion.
- Section Six (6): Statement concerning the laboratories used by Carmel Area Wastewater District to monitor compliance with effluent limits and summary of performance as required by section B, General Monitoring Requirements.
- Section Seven (7): Summary of sludge quantities, analyses of sludge chemical and moisture content, and ultimate sludge destination not included as there exists a provision for sludge monitoring within the Carmel Area Wastewater District's Monitoring and Reporting Program.
- Section Eight (8): Evaluation of the effectiveness of the local source control or pretreatment program using the State Water Resources Control Board's "Guidelines for Determining the Effectiveness of Local Pretreatment Program."

Respectfully Submitted,

CARMEL AREA WASTEWATER DISTRICT


Edward Waggoner
Operations Superintendent

SECTION ONE

Tabular summary of the monitoring data

TABULAR SUMMARY OF 2021 NPDES REPORTABLE DATA

Month	Influent Flows			BOD			Suspended Solids			Sett Solids	CL2 Residual	Removal Efficiency		pH Effluent Units		O&G	
	Total	CAWD total	PBCSD total	Influent mg/l	Effluent mg/l	Effluent lb/dav	Influent mg/l	Effluent mg/l	Effluent lb/dav	Effluent mg/l	Effluent mg/l	BOD %	T.S.S. %	Min	Max	Effluent mg/l	Effluent lb/day
Jan	37.781	26.537	11.244	295	12	62	408	15	30	0.1	0.00	96	96	6.8	7.3	NODI(B)	NODI(B)
Feb	36.638	23.536	13.102	300	17	28	512	9	16	NODI(B)	0.00	94	98	6.9	7.6	NODI(B)	NODI(B)
Mar	35.896	25.666	10.230	237	11	75	479	12	85	0.1	0.00	95	97	6.7	7.6	NODI(B)	NODI(B)
Apr	34.571	23.755	10.816	366	15	15	543	12	13	NODI(B)	0.00	96	98	6.9	7.5	NODI(B)	NODI(B)
May	35.889	23.914	11.975	324	16	18	631	16	18	0.14	0.00	95	97	6.9	7.5	NODI(B)	NODI(B)
Jun	35.242	24.294	10.948	471	14	17	524	18	20	0.1	0.00	97	97	7.1	7.7	NODI(B)	NODI(B)
Jul	37.117	25.481	11.636	513	14	14	862	25	29	NODI(B)	0.00	97	97	7.1	7.6	NODI(B)	NODI(B)
Aug	36.578	25.206	11.372	527	12	15	658	14	16	0.1	0.00	98	98	7.2	7.6	NODI(B)	NODI(B)
Sep	31.800	22.717	9.083	527	15	15	708	14	15	NODI(B)	0.00	97	98	7.1	7.7	NODI(B)	NODI(B)
Oct	35.625	24.518	11.107	614	16	18	741	23	36	0.1	0.00	97	97	6.9	7.6	NODI(B)	NODI(B)
Nov	33.282	22.731	10.551	457	8	7	565	9	9	NODI(B)	0.00	98	98	7.1	7.6	NODI(B)	NODI(B)
Dec	55.861	35.261	20.600	377	8	38	578	15	76	0.13	0.00	98	97	6.6	7.5	NODI(B)	NODI(B)

NODI(B) = NO DETECTION

Month	Turbidity Effluent NTU's	Ammonia Effluent mg/l	Nitrate Effluent mg/l	Effluent Temp Deg. F	Sludge Cake Total Cu.Yds.	Effluent Coliform Bacteria mpn/100 ml	Urea Effluent mg/l	Silicate Effluent mg/l	Receiving Waters									
									Total Coliform			Fecal Coliform			Entero. Org.			
									K-4 mpn/100 ml	K-5 mpn/100 ml	K-6 mpn/100 ml	K-4 mpn/100 ml	K-5 mpn/100 ml	K-6 mpn/100 ml	K-4 mpn/100 ml	K-5 mpn/100 ml	K-6 mpn/100 ml	
Jan	3.04	16.9	256	65.3	99.1	1	190	156	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Feb	1.74	29.8	151	68.2	110.4	1	90	153	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mar	3.09	8.4	25.4	66.9	121.7	1	68	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Apr	1.83	15.9	117	67.6	119.2	1	135	113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May	2.92	21.7	97.9	70.9	126.7	1	186	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Jun	2.45	21	136	71.6	134.8	1	66	181	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Jul	2.95	17.53	91	71.1	162.8	1	101	172	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aug	3.25	37.2	141	72	177.3	1	127	98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep	2.62	22.2	57.4	72.1	135.4	1	103	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oct	3.01	60.6	69.6	71.1	128.1	1	97	183	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov	1.32	30.1	132	71.8	149.1	1	109	191	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dec	2.68	35.3	175	68	153.1	1	124	192	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA = No Analysis triggered this reporting year

**CARMEL AREA WASTEWATER DISTRICT
2021 EFFLUENT NITROGEN SPECIES ANALYSIS**

Month	Nitrate Effluent mg/l	Ammonia Effluent mg/l	Toxicity Conc TU a	Toxicity Conc TU c
January	256.0	16.9		
February	151.0	29.8		
March	25.4	8.4	0.00	30.49
April	117.0	15.9		
May	97.9	21.7		
June	136.0	21		
July	91.0	17.53		
August	141.0	37.2		
September	57.4	22.2	0.51	60.98
October	69.6	60.6		
November	132.0	30.1		
December	175.0	35.3		

2021 SEMI-ANNUAL EFFLUENT ANALYSIS

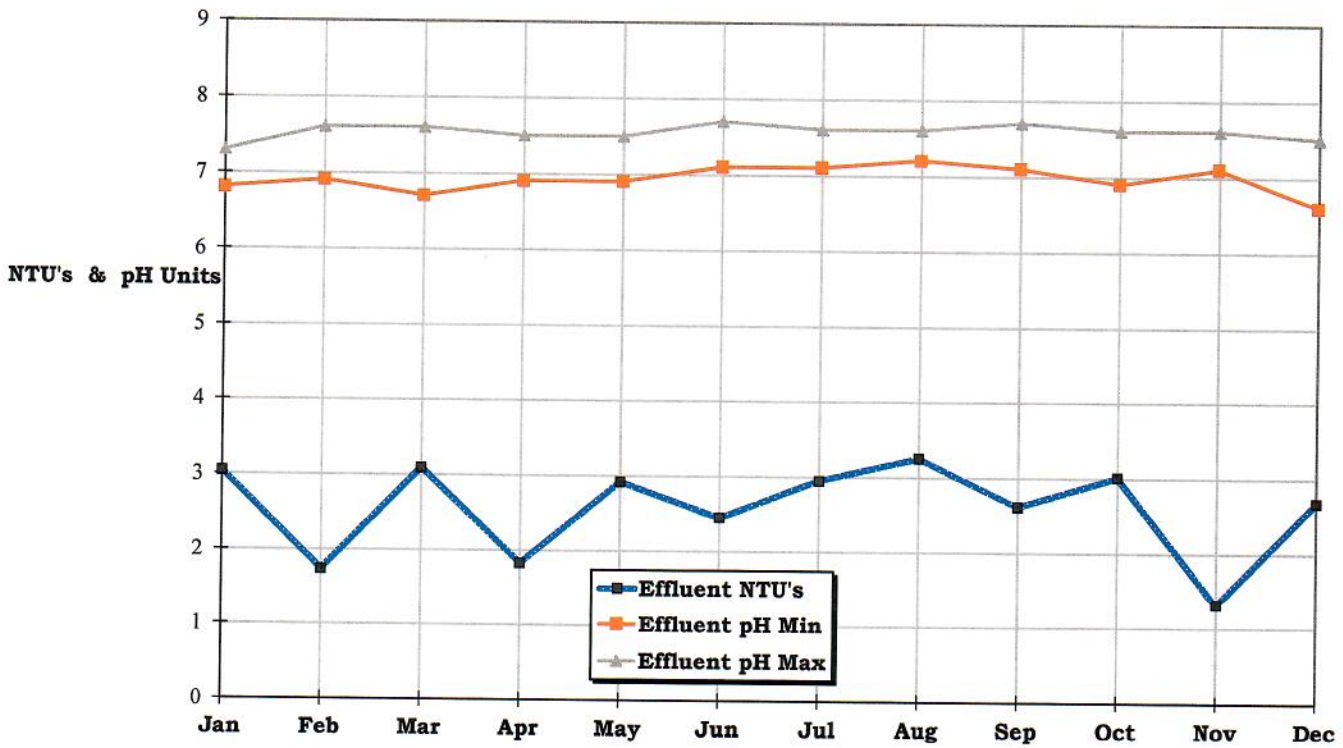
Constituent	Units	Feb-21	Aug-21
Acrolein & Acrylonitrile	µg/L	NODI(B)	NODI(B)
Ammonia-N	mg/L	29.8	37.2
Antimony	µg/L	NODI(B)	2.35
Arsenic	µg/L	NODI(B)	1.82
Beryllium	µg/L	NODI(B)	NODI(B)
Cadmium	µg/L	NODI(B)	NODI(B)
Chlorine Residual, Total	mg/L	NODI(B)	NODI(B)
Chromium III	µg/L	NODI(B)	NODI(B)
Chromium VI	µg/L	NODI(B)	NODI(B)
Chromium, Total	µg/L	NODI(B)	NODI(B)
Copper	µg/L	82	60
Cyanide	µg/L	NODI(B)	NODI(B)
Dioxin	pg/L	NODI(B)	NODI(B)
Radio Activity (Gross Alpha & Beta)	pCi/L	NODI(B)	NODI(B)
Lead	µg/L	NODI(B)	0.488
Mercury by EPA 245.2	µg/L	NODI(B)	NODI(B)
Nickel	µg/L	NODI(B)	6.3
Organochlorine Pest. & PCBs	µg/L	NODI(B)	NODI(B)
Phenolic Compounds	mg/L	NODI(B)	NODI(B)
Polynuclear Aromatics	µg/L	NODI(B)	NODI(B)
Selenium	µg/L	NODI(B)	2.99
Semivolatile Org. Comp.	µg/L	NODI(B)	NODI(B)
Silver	µg/L	NODI(B)	NODI(B)
Thallium	µg/L	NODI(B)	NODI(B)
Tributyltin	µg/L	NODI(B)	NODI(B)
Volatile Org. Comp.	µg/L	NODI(B)	NODI(B)
Zinc	µg/L	387	386

NODI(B) = NO DETECTION

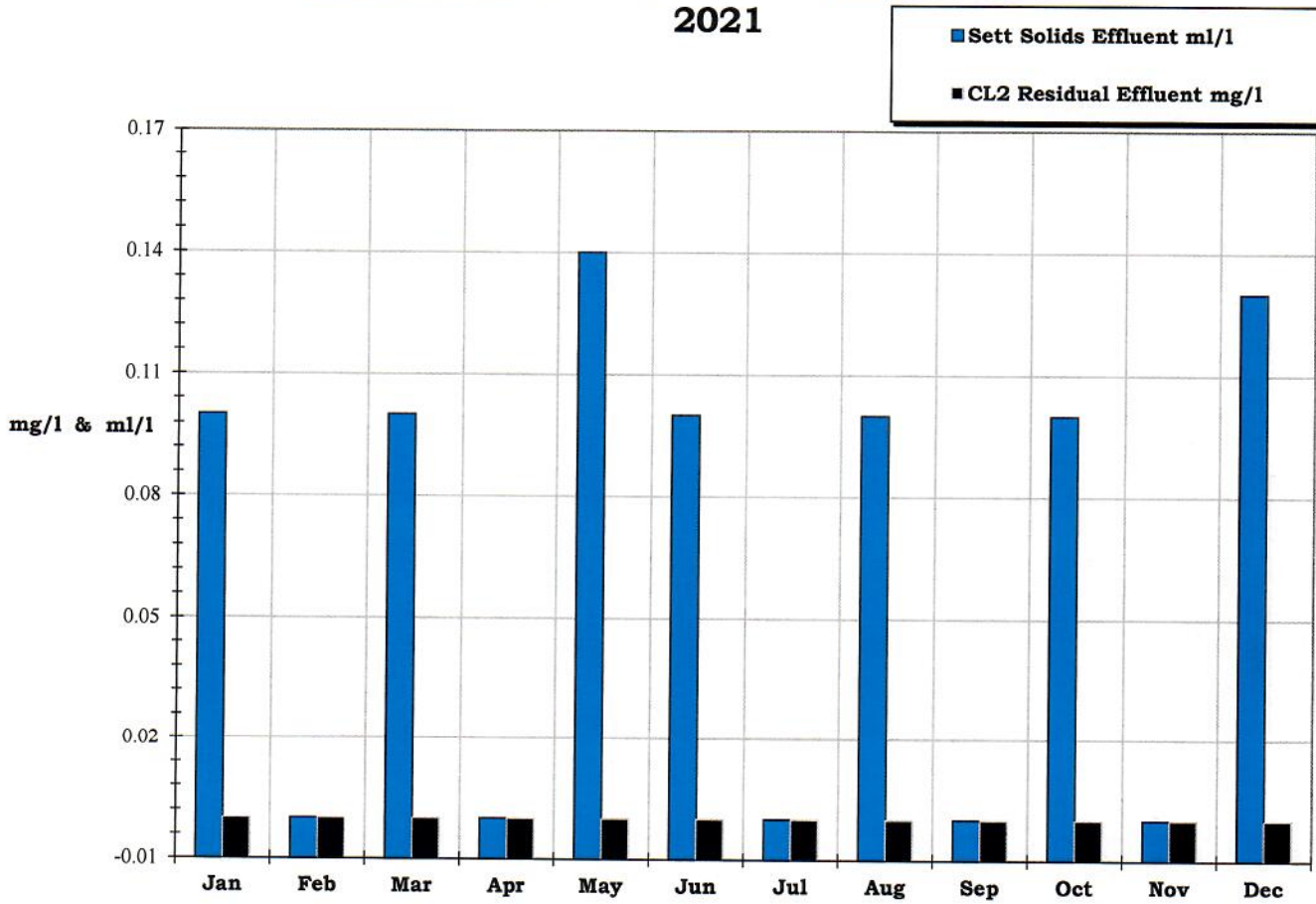
SECTION TWO

Graphical summary of the monitoring
data

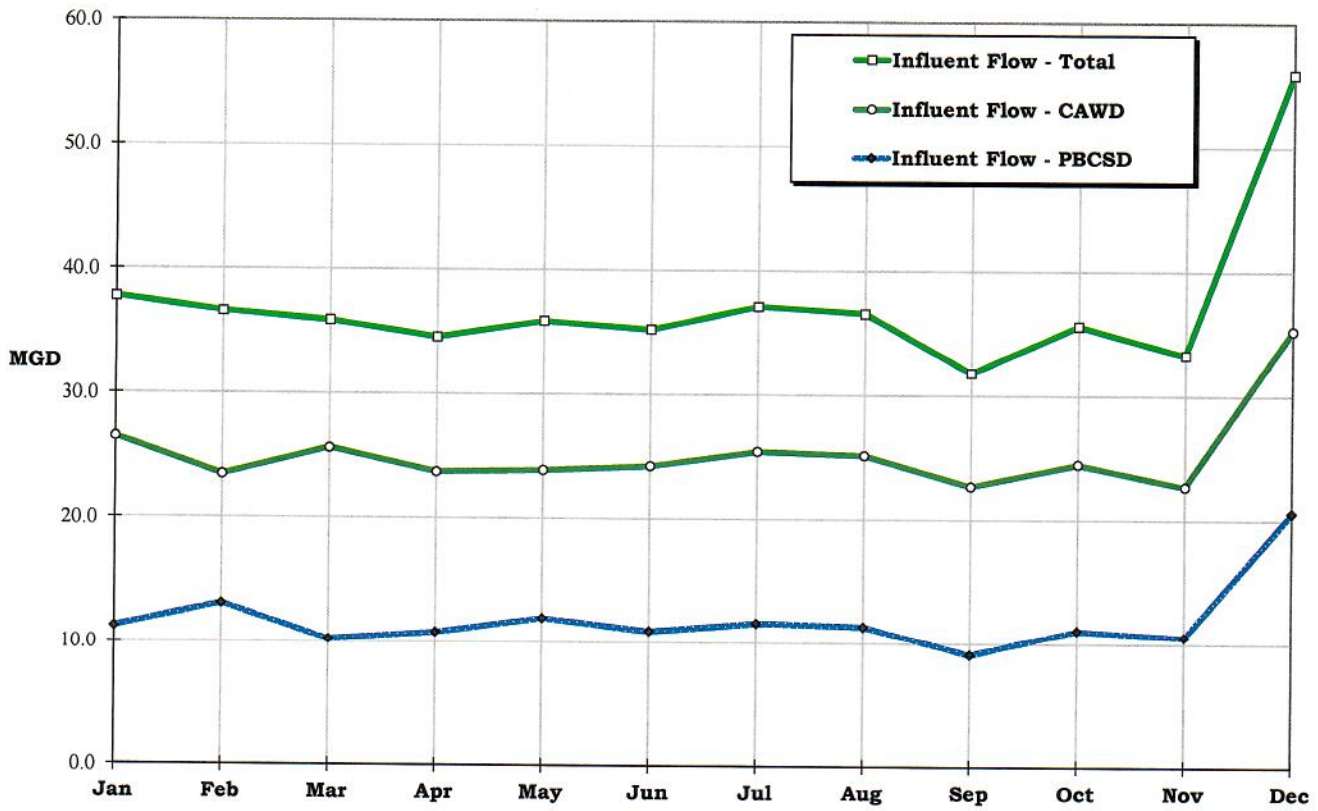
Effluent Turbidity and pH 2021



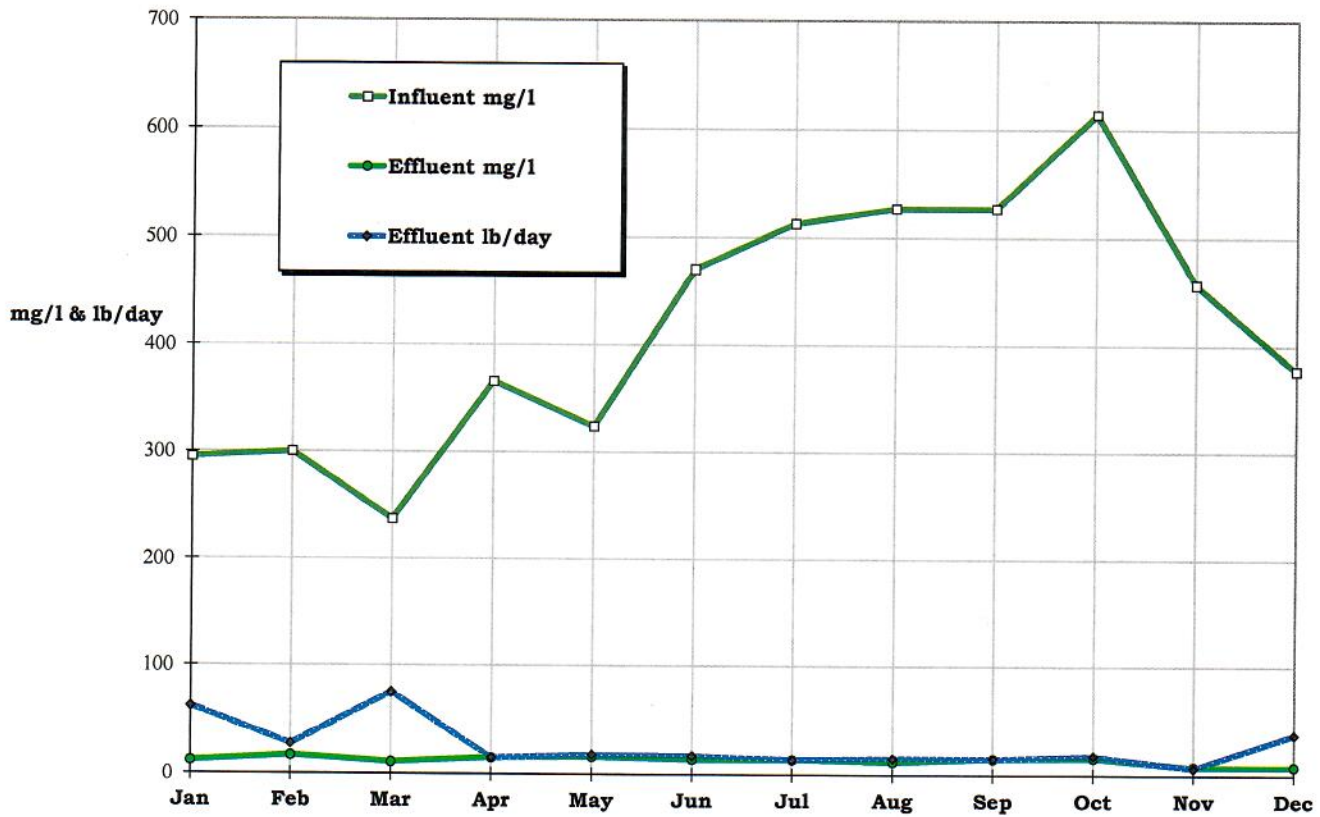
Effluent Setttable Solids & Chlorine Residual 2021



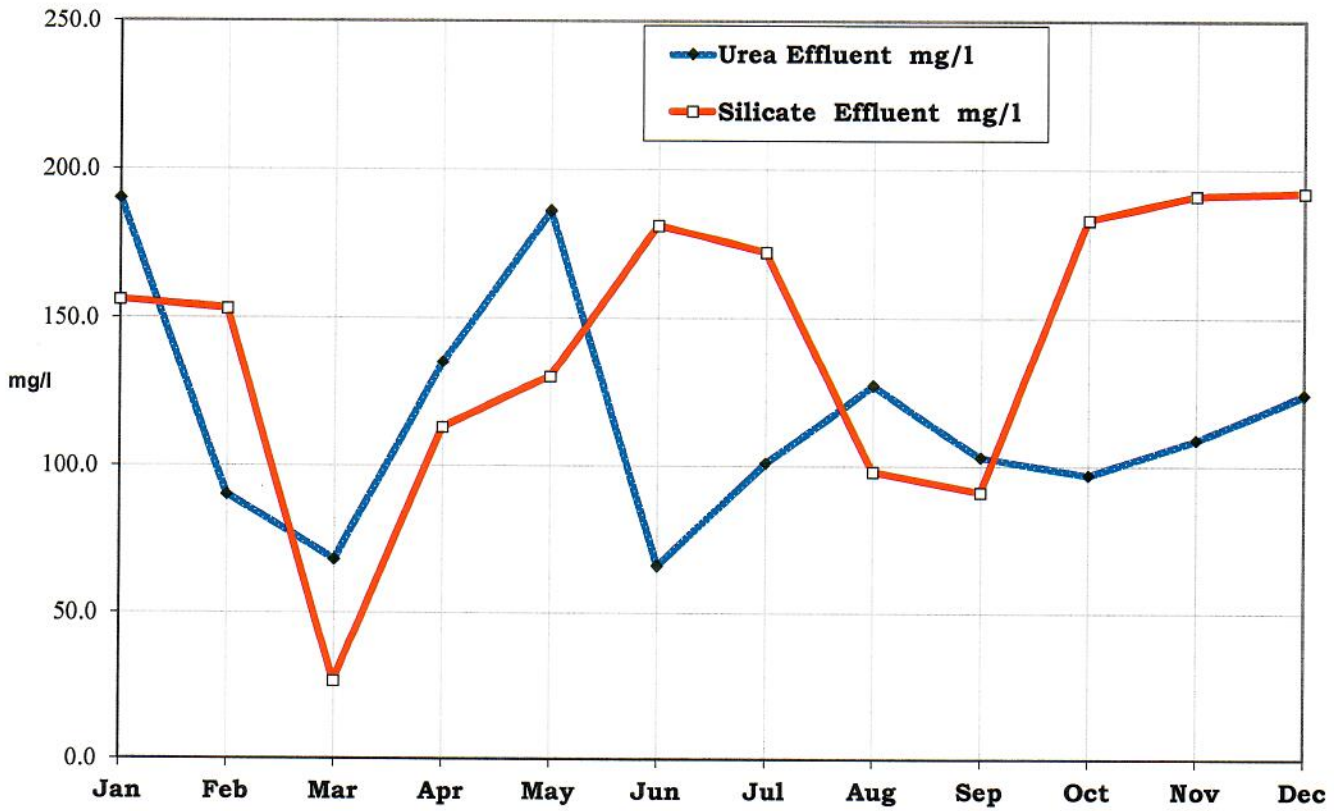
Annual Influent Flows 2021



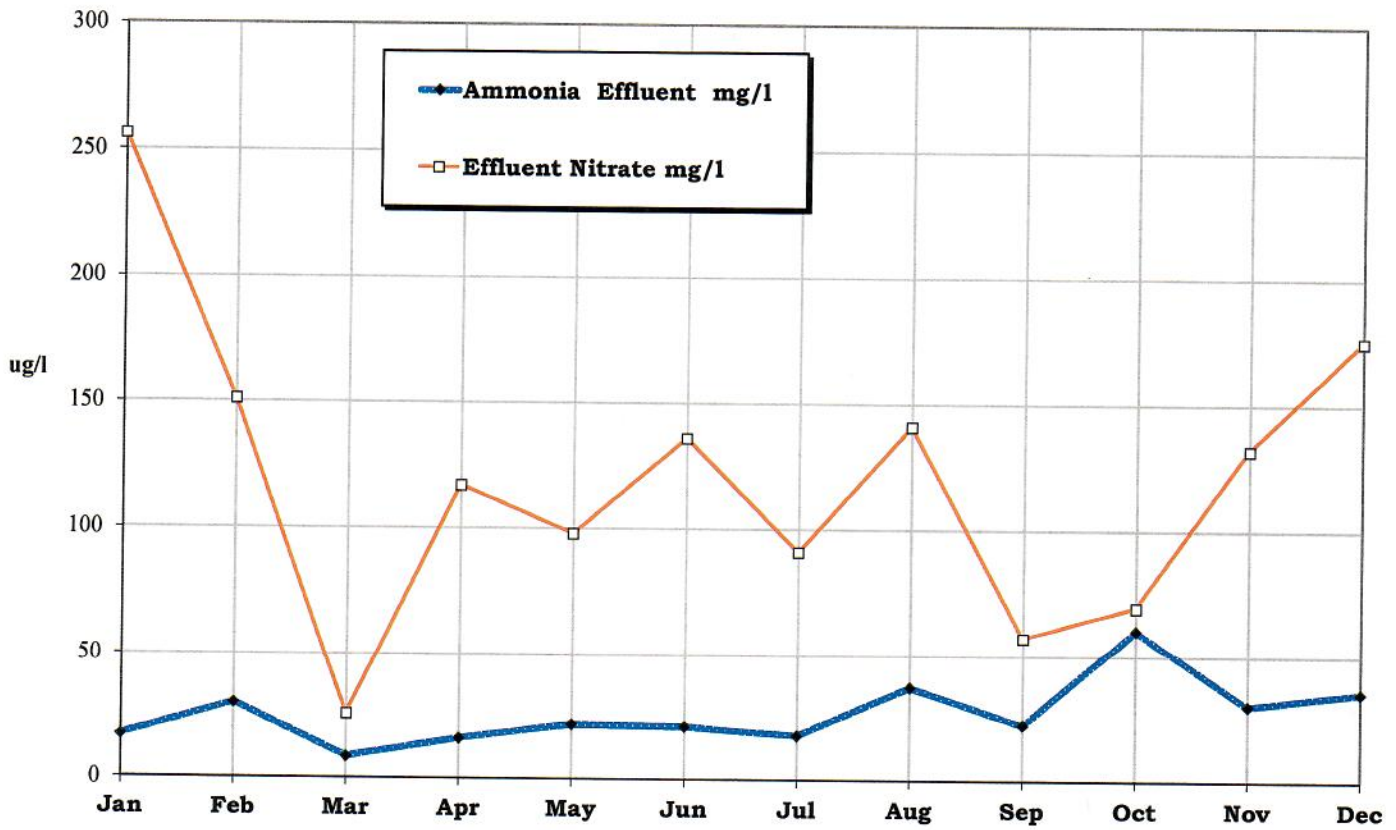
Influent / Effluent BOD 2021



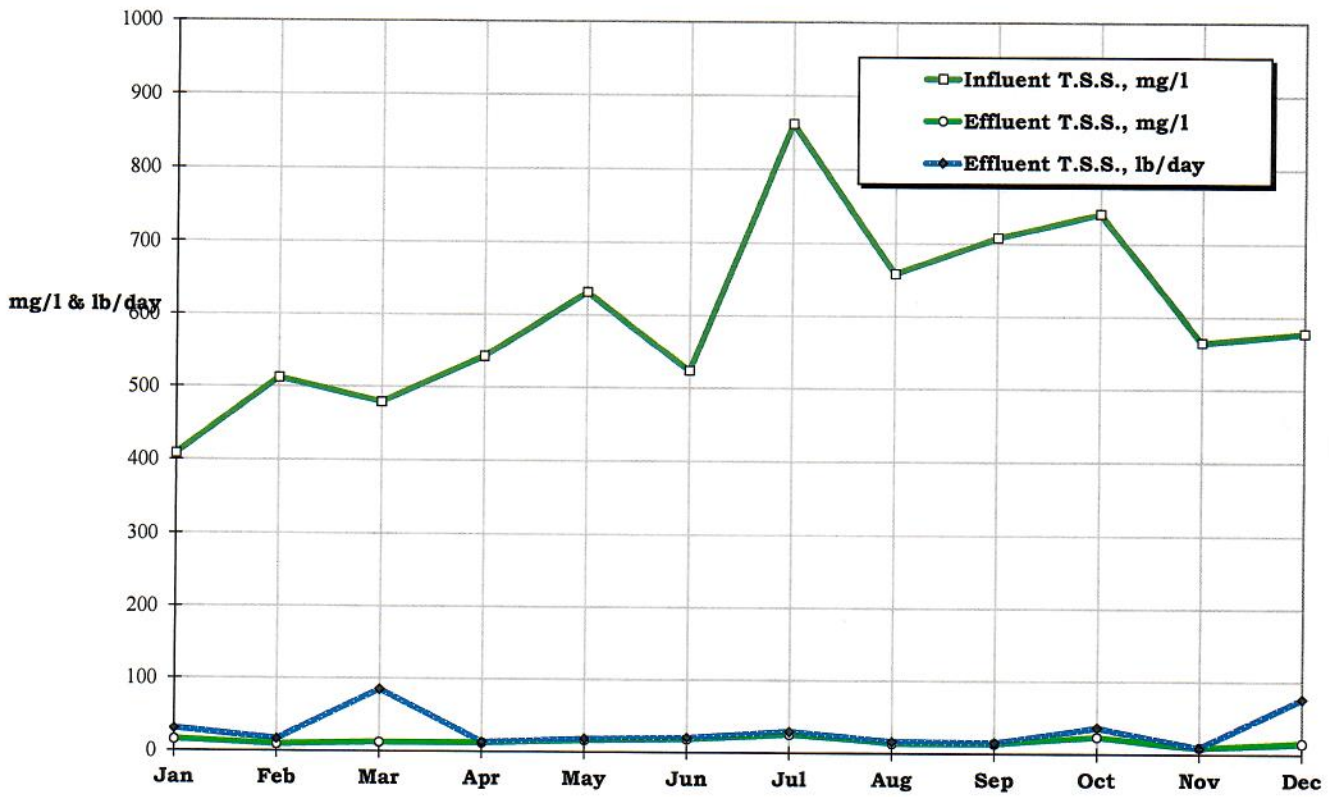
Effluent Urea / Silicate 2021



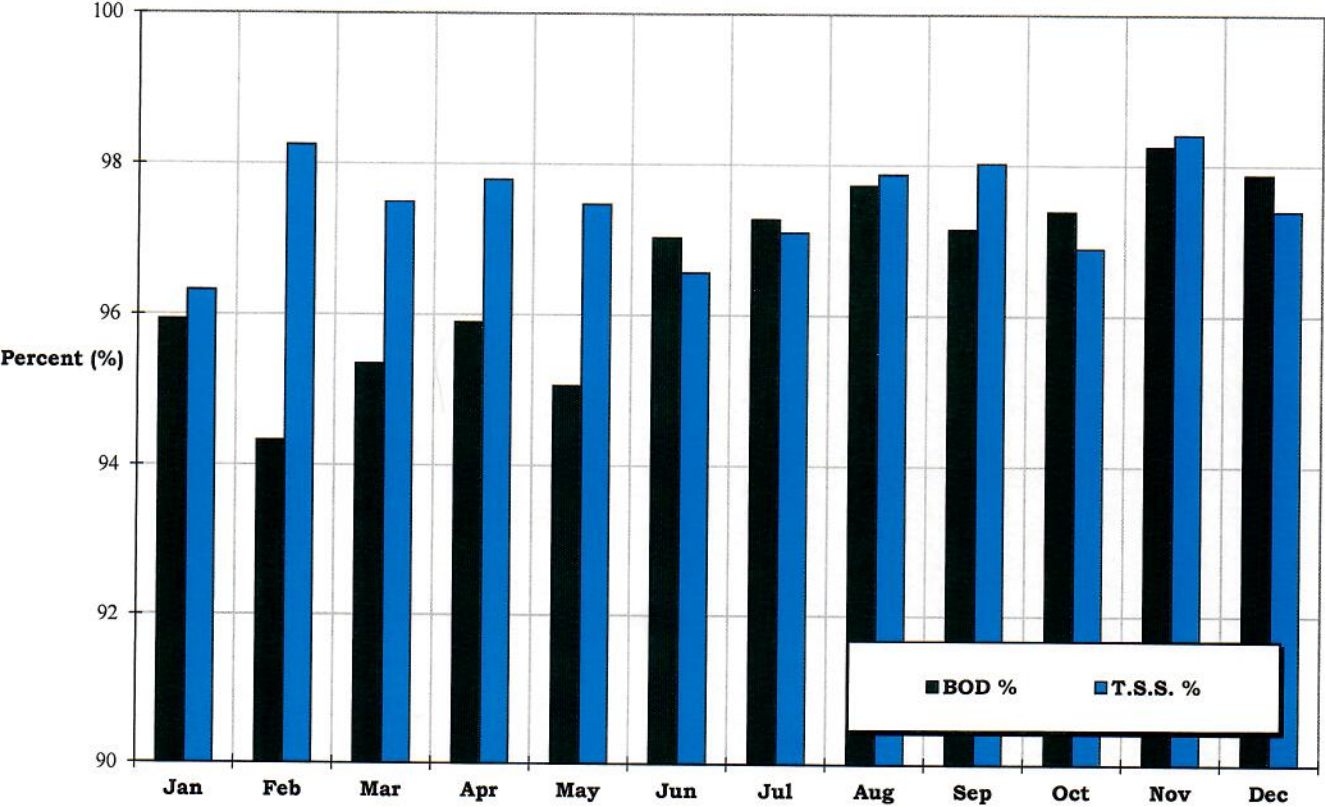
Effluent Ammonia / Nitrogen 2021



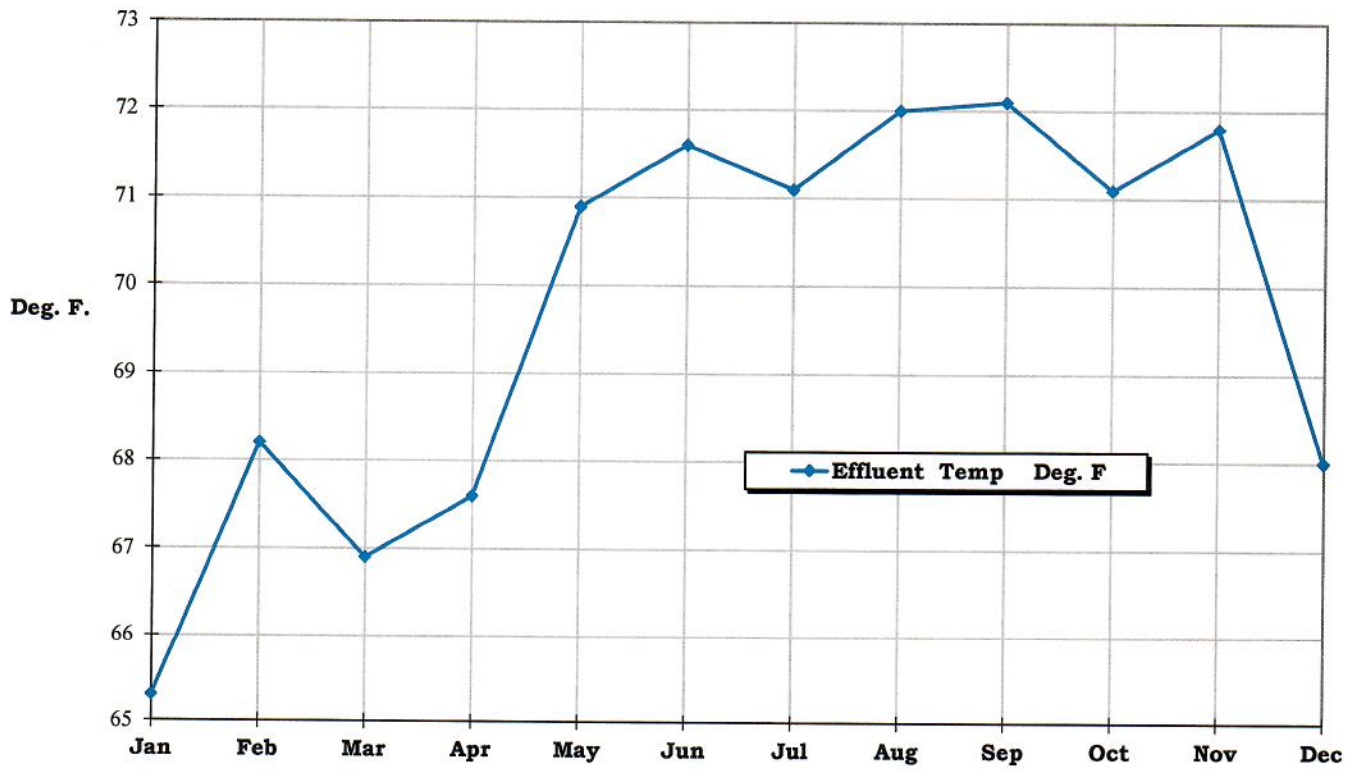
Influent / Effluent T.S.S. 2021



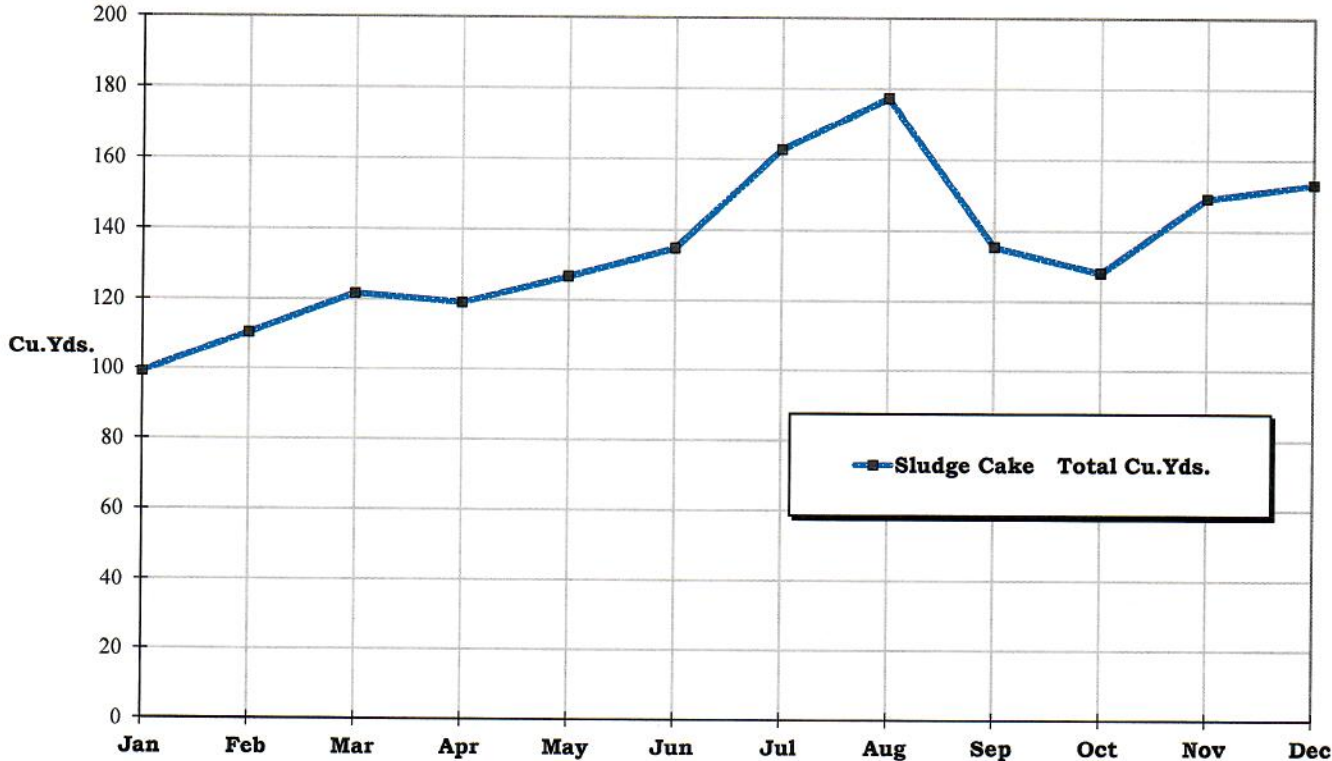
Effluent BOD & T.S.S Removal Efficiency 2021



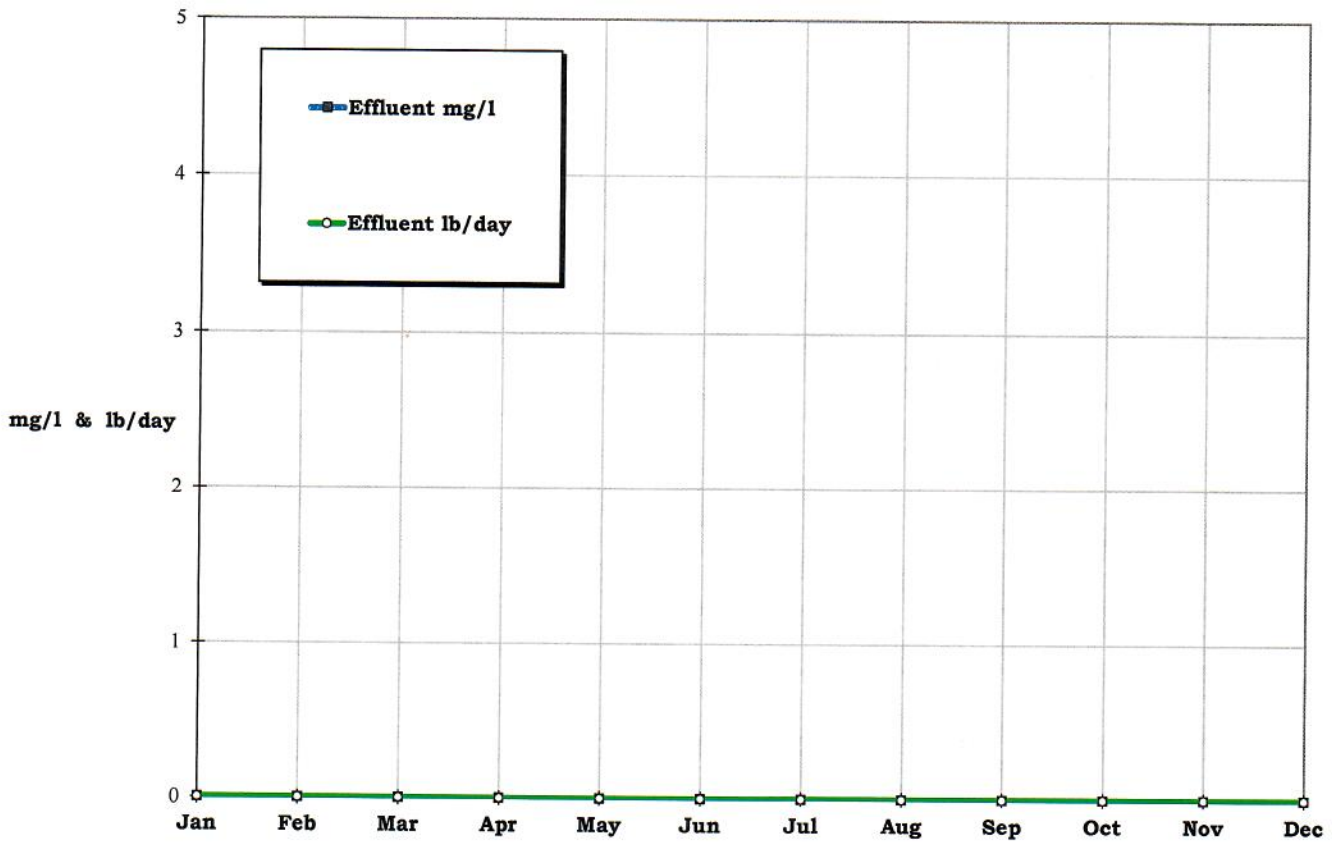
Effluent Temperature 2021



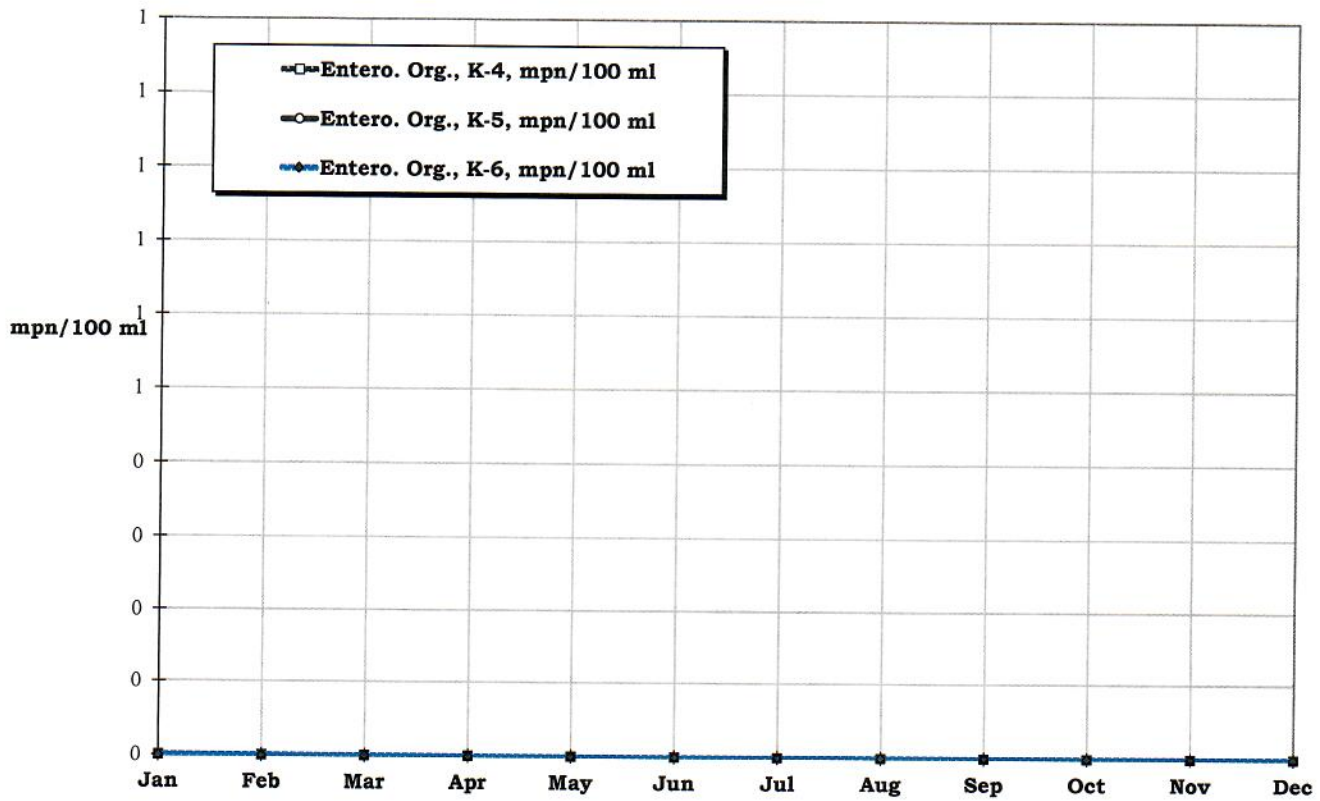
Sludge Hauling 2021



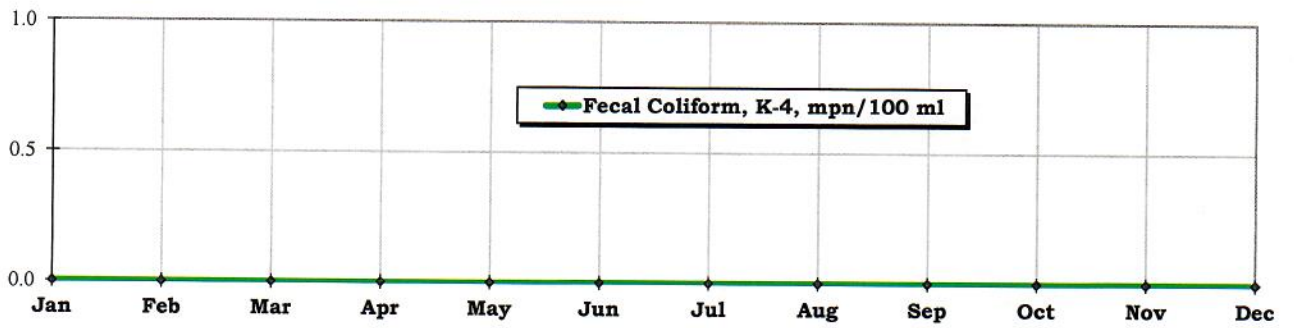
Effluent Oil & Grease 2021



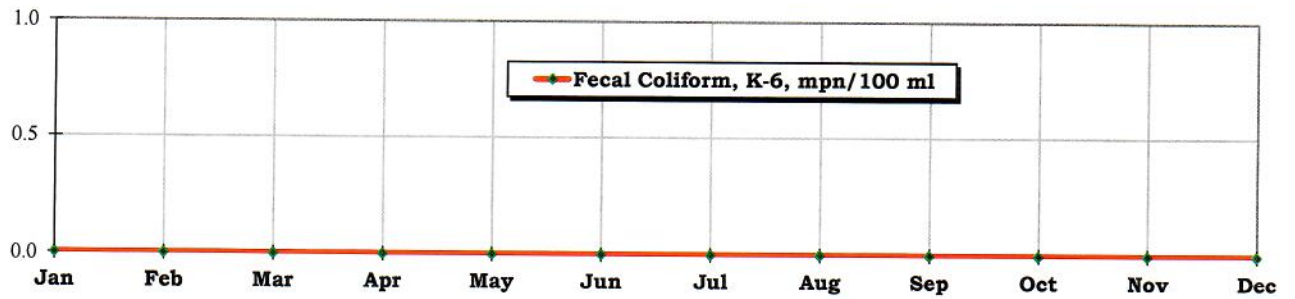
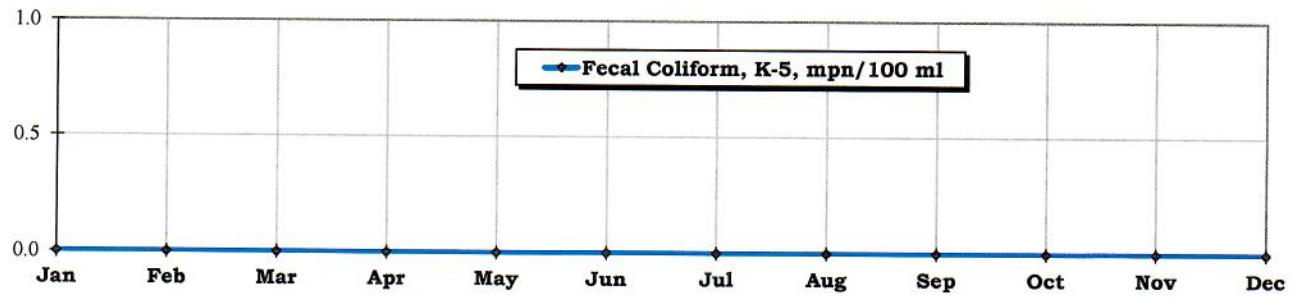
Receiving Water - Enterococcus Organisms Monthly Maximum 2021



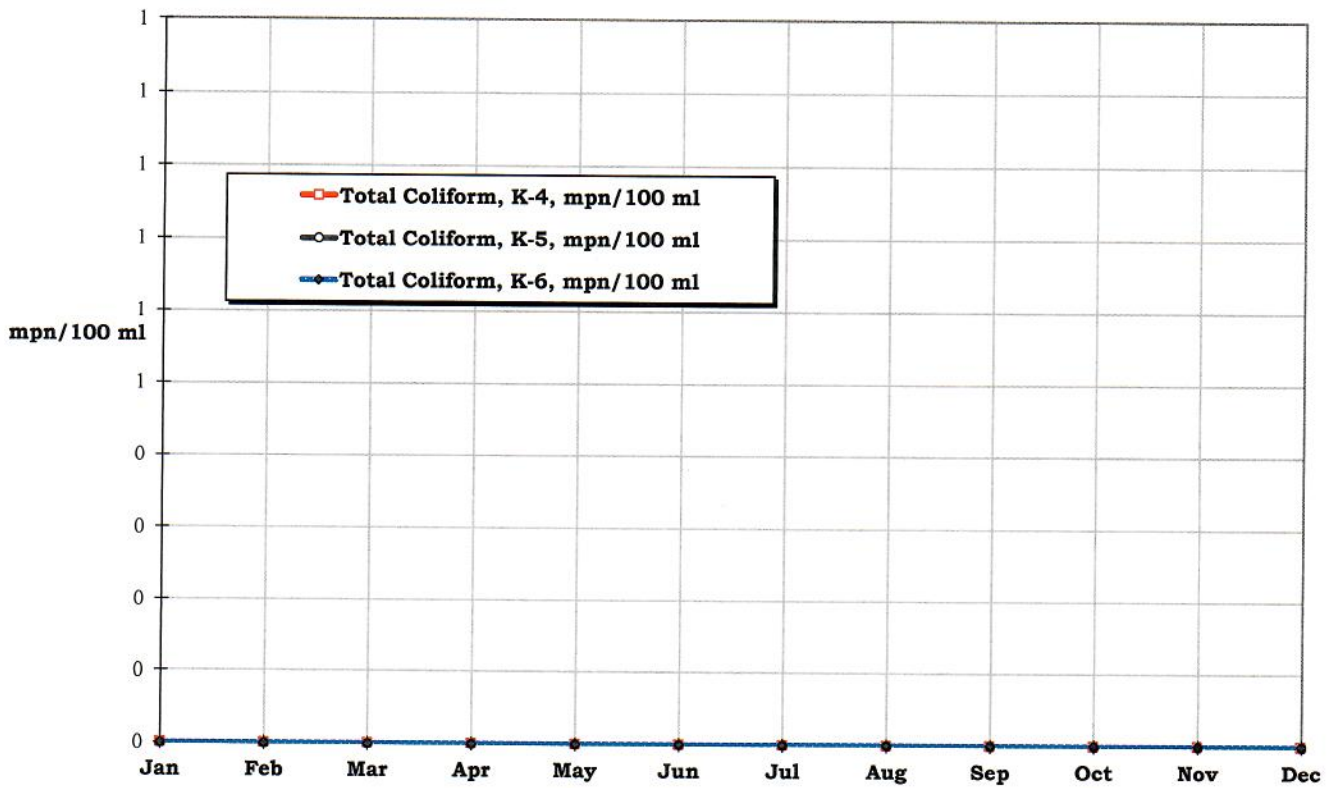
Receiving Water - Fecal Coliform Monthly Maximum 2021



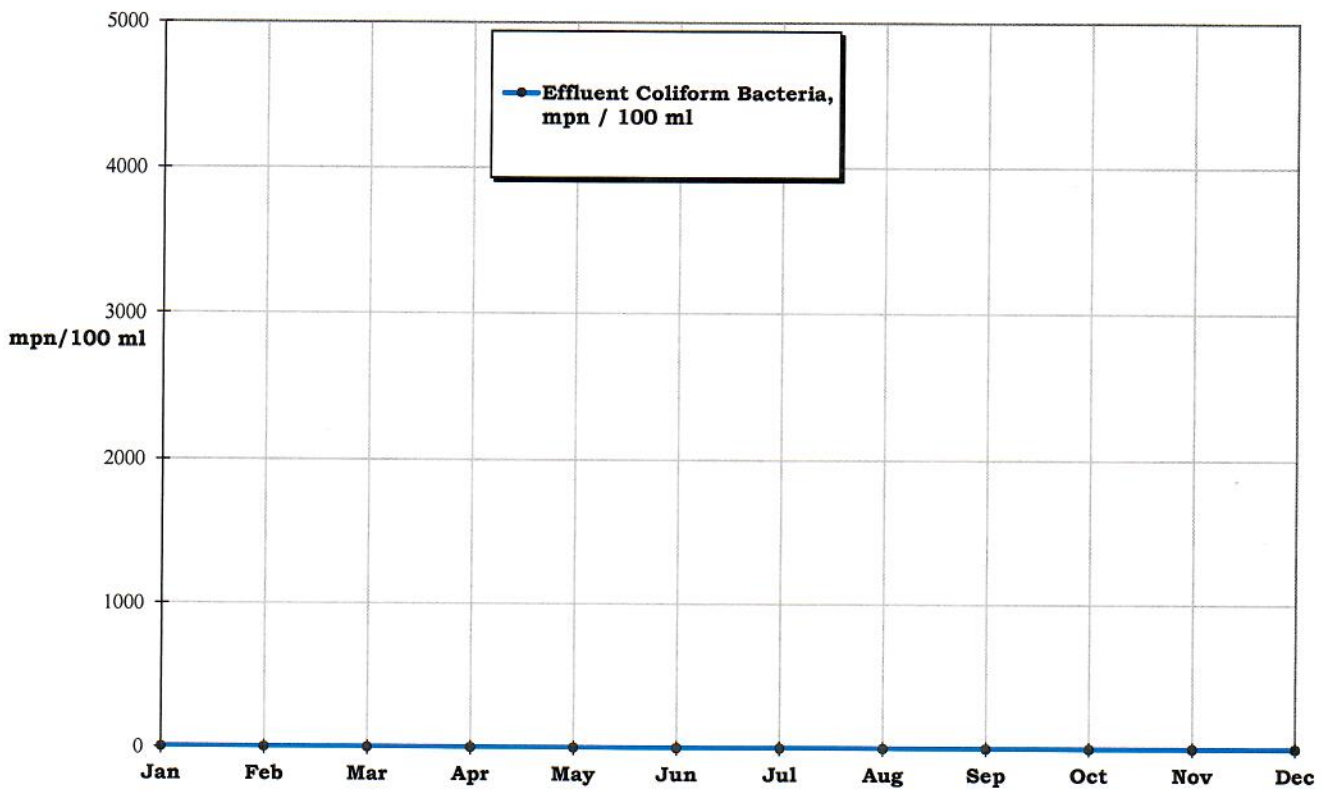
mpn/100 ml



Receiving Water - Total Coliform Monthly Maximum 2021



Effluent Coliform Monthly Average 2021



SECTION THREE

Discussion of compliance record and
corrective actions

No reported compliance exceedences or corrective actions

SECTION FOUR

List of current operating personnel

**SENIORITY DISTRIBUTION & CERTIFICATION LEVELS OF
CAWD TREATMENT PLANT PERSONNEL
2021**

Name	Operations Position	SWRCB Certification Level Maintained
Edward Waggoner	Operations Superintendent	V
Kevin Young	Operations Supervisor	V
Christian Schmidt	Senior Operator	III
Chris Dixon	Senior Operator	III
Michael Hooks	Senior Operator	III
Michael Garrison	Operator II	III
Charles DayEngel	Operator II	II
Jason Veile	Operator II	II
Name	Maintenance Position	Certification Level Maintained
Chris Foley	Maintenance Superintendent	IV
Michael Skinkle	Maintenance Worker	III
Greg Ange	Maintenance Worker	III
Name	Laboratory Position	Certification Level Maintained
Ray De Ocampo	Laboratory Supervisor	III & I
Trevor Holland	Laboratory Analyst/Environmental Compliance II	IV & I
Fanny Mui	Laboratory Analyst/Environmental Compliance I	II & I



SECTION FIVE

Carmel Area Wastewater District's
Operation & Maintenance Manual status

Carmel Area Wastewater District Wastewater District
Operation Maintenance Manual

STATUS

The Carmel Area Wastewater District's Operation and Maintenance Manual was written and submitted to the District in 1987 following a large expansion project which was completed in 1986.

Modifications to the existing secondary treatment facility in support of tertiary filtration required modifications and updates to the Operations and Maintenance Manual. These modifications were completed, and the manual submitted to the District in 1996

Updates to the Operations and Maintenance Manual were completed in 2018 by Engineering Firm Kennedy Jenks for the facility capital improvement project which was completed also in 2018.

SECTION SIX

Laboratories used by Carmel Area
Wastewater District

Statement concerning the laboratories used by the Carmel Area Wastewater District to monitor compliance with effluent limits and summary of performance as required by section B. General

1 Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey , CA 93940

CA ELAP # 2385

2 Aquatic Bioassay & Consulting Laboratories, Inc.
29 North Olive Street
Ventura, CA 93001

CA ELAP# 1907

3 Carmel Area Wastewater Distrcet (CAWD)
26900 State Route 1
Carmel, CA 93923
(831) 257-0432 -Phone
(831) 624-1478 -Fax

CA ELAP # 1804

4 Fruit Growers Laboratories (FGL)
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401

CA ELAP # 2775

SECTION SEVEN

Summary of sludge quantities and
analyses

CARMEL AREA WASTEWATER DISTRICT

Annual Biosolids Monitoring Report

Period: January 2021 - March 2021
 Sample Date: 11-Jan-21

EPA 503 pollution limits for land application

Name POLLUTANTS	Concentration (mg/kg) Dry Weight unless indicated	Pollutant Concentrations (40 CFR 503.13) (monthly avg.)	Ceiling Concentrations (40 CFR 503.13) (daily maximum)
Antimony	ND		
Arsenic	16.1	41 mg/Kg	75 mg/Kg
Barium	41.1		
Beryllium	0.1		
Boron	10.1		
Cadmium	0.3	39 mg/Kg	85 mg/Kg
Chromium	3.4		
Cobalt	0.4		
Copper	129.0	1500 mg/Kg	4300 mg/kg
Lead	1.9	300 mg/Kg	840 mg/kg
Molybdenum	1.7		
Nickel	3.1		
Phosphorus	4,400	420 Mg/Kg	420 mg/Kg
Selenium	0.7	100 mg/Kg	100 mg/Kg
Silver	ND		
Thallium	ND		
Vanadium	1.2		
Zinc	262.0	2800 mg/Kg	7500 mg/Kg
Ammonia Nitrogen	1210		
Cyanide, Total	0.28		
Nitrate Nitrogen	1		
Nitrogen, Total Kjeldahl	3,790		
pH	7.37		
% Solids	22.4%		
Mercury	0.1	17 mg/Kg	57 mg/Kg
Grease/Oil	ND		
Hex Chromium	ND		

Pathogen Reduction (40 CFR 503.32)

Class B - (PSRP) Anaerobic Digestion at 95 F for minimum of 15 days

Vector Attraction Reduction (40 CFR 503.33)

Option 1 - VS reduced by a minimum of 38%

Certification

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 and the vector attraction reduction requirement in 503.33 using option (1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment".

Name & Title: Edward Waggoner - Operations Superintendent

Signature: Edward Waggoner
 Telephone Number: (831) 624-1249
 Date: 1-27-2022

CARMEL AREA WASTEWATER DISTRICT

Annual Biosolids Monitoring Report

Period:

April 2021-June 2021

Sample Date:

5-Apr-21

Name POLLUTANTS	Concentration (mg/kg) Dry Weight unless indicated	EPA 503 pollution limits for land application	
		Pollutant Concentrations (40 CFR 503.13) (monthly avg.)	Ceiling Concentrations (40 CFR 503.13) (daily maximum)
Antimony	ND		
Arsenic	21.6	41 mg/Kg	75 mg/Kg
Barium	53.0		
Beryllium	0.2		
Boron	7.4		
Cadmium	0.4		
Chromium	4.9	39 mg/Kg	85 mg/Kg
Cobalt	0.8		
Copper	147.0		
Lead	5.4	1500 mg/Kg	4300 mg/kg
Molybdenum	1.4	300 mg/Kg	840 mg/kg
Nickel	4.7		
Phosphorus	4,860	420 Mg/Kg	420 mg/Kg
Selenium	0.4	100 mg/Kg	100 mg/Kg
Silver	ND		
Thallium	ND		
Vanadium	2.0		
Zinc	279.0	2800 mg/Kg	7500 mg/Kg
Ammonia Nitrogen	1470		
Cyanide, Total	1.3		
Nitrate Nitrogen	0.5		
Nitrogen, Total Kjeldahl	5,680		
pH	7.55		
% Solids	25.1%		
Mercury	0.2	17 mg/Kg	57 mg/Kg
Grease/Oil	0.42		
Hex Chromium	ND		

Pathogen Reduction (40 CFR 503.32)

Class B - (PSRP) Anaerobic Digestion at 95 F for minimum of 15 days


Vector Attraction Reduction (40 CFR 503.33)

Option 1 - VS reduced by a minimum of 38%

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Name & Title: Edward Waggoner - Operations Superintendent

Signature: 
 Telephone Number: (831) 624-1249
 Date: 1-27-2022

CARMEL AREA WASTEWATER DISTRICT

Annual Biosolids Monitoring Report

Period: July 2021 - September 2021
 Sample Date: 6-Jul-21

Name POLLUTANTS	Concentration (mg/kg) Dry Weight unless indicated	EPA 503 pollution limits for land application	
		Pollutant Concentrations (40 CFR 503.13) (monthly avg.)	Ceiling Concentrations (40 CFR 503.13) (daily maximum)
Antimony	ND		
Arsenic	56.4	41 mg/Kg	75 mg/Kg
Barium	49.5		
Beryllium	0.1		
Boron	8.5		
Cadmium	0.2	39 mg/Kg	85 mg/Kg
Chromium	3.2		
Cobalt	1.3		
Copper	119.0	1500 mg/Kg	4300 mg/kg
Lead	2.6	300 mg/Kg	840 mg/kg
Molybdenum	0.7		
Nickel	3.1		
Phosphorus	4,980	420 Mg/Kg	420 mg/Kg
Selenium	ND	100 mg/Kg	100 mg/Kg
Silver	ND		
Thallium	ND		
Vanadium	0.9		
Zinc	270.0	2800 mg/Kg	7500 mg/Kg
Ammonia Nitrogen	1230		
Cyanide, Total	1.7		
Nitrate Nitrogen	ND		
Nitrogen, Total Kjeldahl	3,000		
pH	7.5		
% Solids	23.3%		
Mercury	0.2	17 mg/Kg	57 mg/Kg
Grease/Oil	ND		
Hex Chromium	ND		

Pathogen Reduction (40 CFR 503.32)

Class B - (PSRP) Anaerobic Digestion at 95 F for minimum of 15 days


Vector Attraction Reduction (40 CFR 503.33)

Option 1 - VS reduced by a minimum of 38%

Certification

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Name & Title: Edward Waggoner - Operations Superintendent

Signature: 
 Telephone Number: (831) 624-1249
 Date: 1-27-2022

CARMEL AREA WASTEWATER DISTRICT

Annual Biosolids Monitoring Report

Period:

October 2021 - December 2021

Sample Date:

5-Oct-21

Name POLLUTANTS	Concentration (mg/kg) Dry Weight unless indicated	EPA 503 pollution limits for land application	
		Pollutant Concentrations (40 CFR 503.13) (monthly avg.)	Ceiling Concentrations (40 CFR 503.13) (daily maximum)
Antimony	ND		
Arsenic	205.0	41 mg/Kg	75 mg/Kg
Barium	83.4		
Beryllium	1.5		
Boron	14.8		
Cadmium	0.1	39 mg/Kg	85 mg/Kg
Chromium	4.9		
Cobalt	3.5		
Copper	187.0	1500 mg/Kg	4300 mg/kg
Lead	11.2	300 mg/Kg	840 mg/kg
Molybdenum	4.8		
Nickel	5.7		
Phosphorus	7,960	420 Mg/Kg	420 mg/Kg
Selenium	2.6	100 mg/Kg	100 mg/Kg
Silver	ND		
Thallium	ND		
Vanadium	4.4		
Zinc	371.0	2800 mg/Kg	7500 mg/Kg
Ammonia Nitrogen	955		
Cyanide, Total	79.2		
Nitrate Nitrogen	0.8		
Nitrogen, Total Kjeldahl	6,720		
pH	7.98		
% Solids	20.8%		
Mercury	0.0	17 mg/Kg	57 mg/Kg
Grease/Oil	ND		
Hex Chromium	ND		

Pathogen Reduction (40 CFR 503.32)

Class B - (PSRP) Anaerobic Digestion at 95 F for minimum of 15 days

Vector Attraction Reduction (40 CFR 503.33)

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I certify, under penalty of law, that the Class B pathogen requirements in 503.32 and the vector attraction reduction requirement in 503.33 using option (1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment".

Name & Title: Edward Waggoner - Operations Superintendent

Signature:

Edward Waggoner

Telephone Number: (831) 624-1249

Date: 1-27-2022

Carmel Area Wastewater District

2021 process data for pathogen reduction and vector attraction reduction

Month	Detention Time (days)	Temperature (F)	Volatile Solids Reduction (%)
Jan	33	100.6	62
Feb	31	89.7	65
Mar	28	97.4	69
Apr	29	93.7	74
May	28	97.6	61
Jun	27	92.4	61
Jul	26	99.4	62
Aug	21	94.1	62
Sept	28	96.2	72
Oct	28	96.5	60
Nov	29	93.6	58
Dec	36	102.1	40

All data reported as monthly averages

Pathogen Reduction using anaerobic digestion

Certification

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 and the vector attraction reduction requirement in 503.33 using option (1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment".

Name and Title: Edward Waggoner - Operations Superintendent

Signature: 

Phone Number: (831) 624-1249

Date: 1-27-2022

SECTION EIGHT

Evaluation of the effectiveness of the
local source control or pretreatment
program

Evaluation of the effectiveness of the local source control or pretreatment program using the State Water Resources Control Board's "Guidelines for Determining the Effectiveness of Local Pretreatment Program."

<u>1</u>	Influent Characteristics	Date	Result	Units
	Arsenic	8/3/2021	1.33	ug/L
	Cadmium	8/3/2021	2.32	ug/L
	Total Chromium	8/3/2021	6.63	ug/L
	Lead	8/3/2021	3.2	ug/L
	Copper	8/3/2021	143	mg/L
	Mercury	8/3/2021	ND	ug/L
	Nickel	8/3/2021	6.14	ug/L
	Silver	8/3/2021	0.59	ug/L
	Zinc	8/3/2021	547	ug/L

2 Number of Inspections Performed:
Pretreatment Inspections annual-(154)

Number of Enforcement Actions:
Notice of Violations of the Pretreatment Ordinance – (2)

3 Number of Major Industry Contributors- None (0)

4 All New dischargers- (3)
 Class III (2)
 Class IV (1)

5 All New Dischargers constitute a Major Industry- None (0)

6 Man power and funds to run Source Control Program
Environmental Compliance Supervisor (1)
Environmental Compliance Inspectors (2)
Funds for Source Control Program are from User Fees (Connection Permit, Construction Fees, and Source Control Application/ Permit, and Source Control Fines). -\$450

	NOV	\$75 x 2 =	\$150
Class IV	Appl Permit	\$150 x 93 =	\$13,950
Class III	Appl Permit	\$150 x 2 =	\$300
	Total		\$14,400