



GOLETA SANITARY

Water Resource Recovery District

Board of Directors:

George W. Emerson
President

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Jerry D. Smith

Robert O. Wageneck

Steven T. Majoewsky

Steve D. Wagner, PE
General Manager
District Engineer

February 13, 2020

Santa Barbara County APCD
ATTN: Annual Reports
260 N. San Antonio Road, Suite A
Santa Barbara, California 93110-1315

SUBJECT: Goleta Sanitary District 2019 Annual Report

Facility ID# 01528 and 11309

Dear Sir or Madam:

In accordance with PTO#'s 05861-R9 and 13447-R3, attached is the Goleta Sanitary District 2019 Consolidated Annual Report. If there are any questions please contact Mr. John Crisman at (805) 967-4519.

Sincerely,

Steve D. Wagner, PE
General Manager/District Engineer

Goleta Sanitary District

Air Pollution Control Consolidated Annual 2019 Report

Facility ID # 01528

PTO # 05861-R9

And

Facility ID # 11309

PTO # 13447-R3

County of Santa Barbara Air Pollution Control District

Submitted by: Steve D. Wagner, PE

General Manager/District Engineer

Summary

The following information summarizes the compliance and reporting measures taken by Goleta Sanitary District (GSD) for calendar year 2019. GSD operates the regional water resource recovery facility located at

One William Moffett Place
Goleta, Ca 93117
(805) 967-4519

with the corresponding facility ID# 01528 using PTO# 08561-R9. GSD also operates an offsite wastewater pumping station located at

101 John Donaldson
Santa Barbara, CA 93117
(805) 967-4519

with corresponding facility ID# 11309 using PTO# 13447-R3. During the calendar year of 2019 Goleta Sanitary District met all conditions of the previously mentioned permits.

Digester Gas System

In compliance with PTO# 08561-R9, GSD monitored its anaerobic digestion system, and all related appurtenances making daily checks ensuring that there were no leaks or equipment malfunctions. The sulfur content of the digester gas was monitored daily between the hours of 4-11 a.m. using colorimetric gas tubes. The hydrogen sulfide content never exceeded the maximum of 239 ppm and the annual average was 54 ppm. Attached is the list of daily readings and the time in which they were taken. The moving weekly average and annual averages are also included in the table located in the attachments. The digester gas Heating Value Measurement was taken in accordance with the ASTM D-1945 method and the average of the tests was found to be 599 BTU/cf. The full fuel analysis report is included in the attachments.

Digester Gas Flare

In compliance with PTO# 08561-R9, GSD operated the digester gas primary flare 365 days of 2019. During this time a flame was always present in the flare and the opacity level never exceeded a shade of No. 1 on the Ringelmann Chart for any amount of time. The standby flare was operated twice this year for maintenance of the primary flare by the manufacturer, once on May 28th for a total of 29,619 SCF, and once on May 29th for a total of 8,167 SCF. All calibration records for the flare flow meters are included in the attachments. The flow of digester gas never exceeded the limit of 187,000 scf/day. All reportable flow measurements are included in the following attachments.

Digester Gas Fired Boilers

In compliance with both PTO# 08561-R9, GSD operated its digester gas boilers a total of 365 days in 2019. The volume of digester gas burned by either boiler or a combination of the two boilers never exceeded the daily maximum of 83,630 scf. Both boilers were checked daily for proper operation. The monthly total gas combusted in the boiler and the number of days in each month that each boiler operated was recorded and is included in the following attachments. The most recent calibration records for the boiler digester gas flow meters are included in the following attachments. Boiler #2 was tuned to factory specifications on April 7th 2019. On December 23rd, GSD notified the Board that it had decommissioned boiler #1. This boiler will be replaced with an exempt boiler, less than 2.0 MMBtu/HR operating only on PUC natural gas.

Odor Control System

In compliance with PTO# 08561-R9, GSD operated its odor control systems 365 days of the year in accordance with the manufacturer's recommendations. Both odor control carbon canisters were checked for hydrogen sulfide breakthrough on a monthly basis. During the reporting period there was not any measureable breakthrough. The monthly sample numbers and dates are included in the following attachments.

Diesel Fired Emergency Standby Generators

In compliance with PTO# 08561-R9 and PTO# 13447-R3, GSD operated its emergency standby generators. Generator 1 was operated for 7.6 hours during emergency use and 19.2 hours for maintenance and testing. Generator 2 was operated for 8.1 hours during emergency use and 18.6 hours for maintenance and testing. Firestone pumping station's emergency generator was operated for 1.3 hours during emergency use and 21.1 hours for maintenance and testing. An ENF-92 form is included in the following attachments for each generator. Also included is a letter of conformance from both of our diesel suppliers demonstrating that all fuel used meets the requirements of the ATCM.

List of Attachments

- Digester Gas Sulfur Content Monitoring (3 pages)
- Certificate of Analysis, Digester Heating value (3 pages)
- Boiler and Flare Monitoring (1 page)
- Boiler #2 Tune-Up (1 page)
- Mass Flow Meter Calibration Certificate, Primary Flare (New) (1 page)
- Mass Flow Meter Calibration Certificate, Standby Flare (Old) (1 page)
- Mass Flow Meter Calibration Certificate, Boiler #1 (1 page)
- Mass Flow Meter Calibration Certificate, Boiler #2 (1 pages)
- Odor Control Breakthrough Monitoring (1 page)
- ENF-92 Generator #1 (2 page)
- ENF-92 Generator #2 (2 page)
- ENF-92 Firestone Pump Station Generator (2 page)
- Letter of Conformance for the ATCM, Diesel Fuel (2 pages)

All Reading in PPM hydrogen sulfide using a colorimetric gas tube.

Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg
01/01/19	50	630	49	02/01/19	50	657	49	03/01/19	45	720	51	04/01/19	35	635	55
01/02/19	50	630	49	02/02/19	40	635	44	03/02/19	50	850	51	04/02/19	20	640	49
01/03/19	70	725	51	02/03/19	60	1,005	46	03/03/19	55	645	53	04/03/19	50	830	46
01/04/19	40	655	50	02/04/19	70	845	49	03/04/19	50	630	53	04/04/19	45	730	42
01/05/19	60	710	53	02/05/19	70	625	53	03/05/19	55	635	51	04/05/19	40	740	41
01/06/19	45	635	52	02/06/19	60	640	56	03/06/19	50	640	51	04/06/19	40	630	39
01/07/19	45	635	51	02/07/19	40	635	56	03/07/19	50	628	51	04/07/19	30	645	37
01/08/19	50	715	51	02/08/19	50	625	56	03/08/19	45	720	51	04/08/19	25	645	36
01/09/19	55	715	52	02/09/19	50	650	57	03/09/19	50	750	51	04/09/19	40	640	39
01/10/19	70	630	52	02/10/19	55	655	56	03/10/19	50	640	50	04/10/19	50	633	39
01/11/19	50	725	54	02/11/19	70	635	56	03/11/19	50	640	50	04/11/19	50	635	39
01/12/19	60	700	54	02/12/19	65	640	56	03/12/19	50	635	49	04/12/19	50	630	41
01/13/19	55	645	55	02/13/19	60	635	56	03/13/19	50	645	49	04/13/19	50	615	42
01/14/19	75	720	59	02/14/19	40	620	56	03/14/19	45	730	49	04/14/19	40	645	44
01/15/19	65	710	61	02/15/19	60	625	57	03/15/19	55	730	50	04/15/19	20	705	43
01/16/19	80	638	65	02/16/19	50	625	57	03/16/19	60	825	51	04/16/19	30	630	41
01/17/19	100	657	69	02/17/19	40	630	55	03/17/19	30	655	49	04/17/19	30	647	39
01/18/19	95	720	76	02/18/19	35	630	50	03/18/19	50	640	49	04/18/19	30	650	36
01/19/19	70	630	77	02/19/19	30	625	45	03/19/19	40	645	47	04/19/19	30	715	33
01/20/19	60	730	78	02/20/19	50	642	44	03/20/19	40	640	46	04/20/19	30	705	30
01/21/19	50	715	74	02/21/19	60	620	46	03/21/19	50	640	46	04/21/19	45	645	31
01/22/19	60	720	74	02/22/19	40	630	44	03/22/19	40	635	44	04/22/19	45	640	34
01/23/19	40	640	68	02/23/19	50	715	44	03/23/19	50	615	43	04/23/19	40	635	36
01/24/19	60	720	62	02/24/19	45	650	44	03/24/19	65	655	48	04/24/19	40	720	37
01/25/19	45	640	55	02/25/19	50	735	46	03/25/19	75	630	51	04/25/19	50	640	40
01/26/19	70	745	55	02/26/19	70	645	52	03/26/19	65	640	55	04/26/19	50	630	43
01/27/19	50	745	54	02/27/19	50	635	52	03/27/19	70	635	59	04/27/19	45	720	45
01/28/19	50	710	54	02/28/19	50	650	51	03/28/19	70	715	62	04/28/19	50	640	46
01/29/19	40	740	51					03/29/19	50	633	64	04/29/19	45	740	46
01/30/19	40	635	51					03/30/19	50	720	64	04/30/19	50	710	47
01/31/19	40	725	48					03/31/19	45	710	61				
Month Avg	58		48	Month Avg	52		52	Month Avg	52		61	Month Avg	40		

Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg
05/01/19	50	710	49	06/01/19	40	735	45	07/01/19	50	635	52	08/01/19	40	650	42
05/02/19	40	725	47	06/02/19	65	645	47	07/02/19	60	640	54	08/02/19	40	655	44
05/03/19	50	620	47	06/03/19	80	620	54	07/03/19	40	632	52	08/03/19	50	650	46
05/04/19	40	625	46	06/04/19	55	640	56	07/04/19	45	710	50	08/04/19	50	640	46
05/05/19	50	655	46	06/05/19	60	725	56	07/05/19	50	635	50	08/05/19	50	635	46
05/06/19	50	630	47	06/06/19	40	635	54	07/06/19	70	740	52	08/06/19	50	720	46
05/07/19	45	630	46	06/07/19	60	630	57	07/07/19	50	645	52	08/07/19	60	650	49
05/08/19	50	725	46	06/08/19	50	622	59	07/08/19	60	630	54	08/08/19	40	650	49
05/09/19	50	625	48	06/09/19	65	640	59	07/09/19	90	630	58	08/09/19	40	710	49
05/10/19	40	720	46	06/10/19	65	635	56	07/10/19	45	730	59	08/10/19	25	627	45
05/11/19	50	720	48	06/11/19	60	630	57	07/11/19	50	645	59	08/11/19	50	640	45
05/12/19	50	655	48	06/12/19	45	725	55	07/12/19	40	635	58	08/12/19	50	635	45
05/13/19	55	630	49	06/13/19	55	730	57	07/13/19	40	730	54	08/13/19	65	625	47
05/14/19	55	630	50	06/14/19	45	800	55	07/14/19	55	645	54	08/14/19	40	635	44
05/15/19	40	735	49	06/15/19	50	730	55	07/15/19	65	635	55	08/15/19	55	745	46
05/16/19	70	635	51	06/16/19	55	645	54	07/16/19	75	745	53	08/16/19	40	740	46
05/17/19	50	735	53	06/17/19	65	630	54	07/17/19	50	635	54	08/17/19	40	645	49
05/18/19	50	650	53	06/18/19	70	645	55	07/18/19	60	650	55	08/18/19	25	645	45
05/19/19	55	650	54	06/19/19	40	725	54	07/19/19	40	620	55	08/19/19	65	730	47
05/20/19	55	635	54	06/20/19	50	645	54	07/20/19	40	635	55	08/20/19	60	735	46
05/21/19	55	630	54	06/21/19	60	635	56	07/21/19	55	635	55	08/21/19	50	650	48
05/22/19	50	625	55	06/22/19	70	735	59	07/22/19	65	630	55	08/22/19	40	635	46
05/23/19	50	725	52	06/23/19	45	645	57	07/23/19	60	630	53	08/23/19	50	700	47
05/24/19	60	630	54	06/24/19	50	630	55	07/24/19	40	630	51	08/24/19	50	617	49
05/25/19	40	740	52	06/25/19	50	630	52	07/25/19	60	735	51	08/25/19	75	645	56
05/26/19	50	640	51	06/26/19	50	740	54	07/26/19	30	730	50	08/26/19	55	635	54
05/27/19	35	800	49	06/27/19	60	635	55	07/27/19	30	640	49	08/27/19	60	640	54
05/28/19	40	635	46	06/28/19	50	640	54	07/28/19	50	645	48	08/28/19	50	640	54
05/29/19	60	730	48	06/29/19	55	745	51	07/29/19	50	630	46	08/29/19	50	620	56
05/30/19	50	620	48	06/30/19	50	640	52	07/30/19	55	620	45	08/30/19	40	620	54
05/31/19	40	757	45					07/31/19	40	650	45	08/31/19	40	805	53
Month Avg	49			Month Avg	55			Month Avg	52			Month Avg	48		

Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg
09/01/19	30	645	46	10/01/19	50	635	59	11/01/19	40	715	60	12/01/19	70	645	54
09/02/19	50	645	46	10/02/19	60	650	60	11/02/19	40	743	56	12/02/19	60	630	55
09/03/19	50	630	44	10/03/19	50	650	57	11/03/19	50	635	56	12/03/19	55	625	56
09/04/19	50	632	44	10/04/19	70	735	57	11/04/19	55	630	54	12/04/19	60	625	58
09/05/19	50	645	44	10/05/19	70	730	57	11/05/19	60	625	54	12/05/19	50	645	57
09/06/19	50	630	46	10/06/19	55	645	58	11/06/19	50	620	49	12/06/19	50	608	56
09/07/19	50	630	47	10/07/19	50	635	58	11/07/19	50	630	49	12/07/19	50	620	56
09/08/19	30	720	47	10/08/19	70	635	61	11/08/19	40	740	49	12/08/19	50	645	54
09/09/19	50	640	47	10/09/19	50	650	59	11/09/19	35	725	49	12/09/19	50	640	52
09/10/19	50	620	47	10/10/19	70	745	62	11/10/19	65	650	51	12/10/19	75	735	55
09/11/19	50	640	47	10/11/19	50	700	59	11/11/19	50	650	50	12/11/19	50	635	54
09/12/19	60	635	49	10/12/19	65	735	59	11/12/19	70	650	51	12/12/19	50	655	54
09/13/19	60	633	50	10/13/19	90	835	64	11/13/19	60	630	53	12/13/19	50	640	54
09/14/19	50	635	50	10/14/19	90	740	69	11/14/19	70	555	56	12/14/19	60	635	55
09/15/19	70	655	56	10/15/19	90	625	69	11/15/19	50	645	57	12/15/19	75	645	59
09/16/19	65	635	58	10/16/19	100	635	76	11/16/19	50	715	59	12/16/19	60	625	60
09/17/19	50	625	58	10/17/19	95	735	80	11/17/19	75	645	61	12/17/19	75	645	60
09/18/19	90	630	64	10/18/19	50	700	80	11/18/19	60	635	62	12/18/19	50	636	60
09/19/19	40	705	61	10/19/19	60	700	79	11/19/19	80	640	64	12/19/19	50	630	60
09/20/19	65	725	61	10/20/19	50	640	74	11/20/19	75	625	66	12/20/19	60	640	61
09/21/19	40	702	60	10/21/19	90	635	74	11/21/19	50	715	63	12/21/19	50	630	60
09/22/19	50	650	57	10/22/19	75	635	74	11/22/19	50	703	63	12/22/19	65	650	59
09/23/19	50	630	55	10/23/19	75	735	71	11/23/19	50	625	63	12/23/19	55	630	58
09/24/19	70	740	58	10/24/19	80	735	69	11/24/19	45	630	59	12/24/19	75	630	58
09/25/19	50	635	52	10/25/19	50	715	69	11/25/19	50	635	57	12/25/19	70	620	61
09/26/19	70	540	56	10/26/19	70	800	70	11/26/19	45	635	52	12/26/19	70	633	64
09/27/19	70	650	57	10/27/19	50	640	70	11/27/19	50	725	49	12/27/19	65	710	64
09/28/19	70	630	61	10/28/19	70	620	67	11/28/19	55	745	49	12/28/19	60	630	66
09/29/19	50	650	61	10/29/19	60	630	65	11/29/19	55	710	50	12/29/19	95	645	70
09/30/19	50	625	61	10/30/19	80	620	66	11/30/19	50	645	50	12/30/19	75	630	73
Month Avg	54			Month Avg	67		61	Month Avg	54			Month Avg	62		74

Annual Average 54

Aeros Environmental, Inc.

**Goleta Sanitary District
Goleta Waste Water Treatment Plant**

**Project 179-1804
Laboratory ID 19-174-07**

Sample Location: Varec 244E Digester Gas Flare
Sample Description: Inlet, Run 1
Sampled by: Philip Mayer

Date Sampled: May 20, 2019
Date Received: May 21, 2019
Date Analyzed: May 21, 2019

Fuel Gas - Analysis Results

CONSTITUENT	MOLE %	Wt.%	LV%	GPM*	CHONS	Wt.%
Oxygen	0.208	0.243	0.109		Carbon	43.58
Nitrogen	0.838	0.860	0.544		Hydrogen	8.76
Carbon Dioxide	39.696	64.030	40.007		Oxygen	46.80
Carbon Monoxide	0.000	0.000	-		Nitrogen	0.86
					Sulfur	0.00
					Total	100.00
					GPM SUBTOTALS*	gal/1000 ft³
Methane	59.249	34.837	59.317	10.051	C ₂ +	0.004
Ethane	0.000000	0.000000	0.000000	0.000000	C ₃ +	0.004
Propane	0.000124	0.000201	0.000202	0.000034	C ₄ +	0.004
Butanes	0.000046	0.000098	0.000085	0.000014	C ₅ +	0.004
Pentanes	0.000009	0.000023	0.000019	0.000003		
Hexanes	0.009370	0.029595	0.022755	0.003856		
Total(s)	100.000	100.000	100.000	10.055		

CALORIFIC VALUES	GROSS		NET		SUPPORTING DATA	
	Btu/ft ³	Btu/lb	Btu/ft ³	Btu/lb		
Dry, ideal	599 ^a	8329 ^b	539	7500	Specific Gravity (Air = 1)	0.9421
Wet, ideal	588	8184	530	7369	Specific Volume (ft ³ /lb)	13.91
Dry, real*	601	-	541	-	Molar Wt. of Sample	27.28
Wet, real*	590	-	532	-	VOC/THC by Wt.%	0.09
					Compressibility Factor "Z"	0.9968
<i>References:</i>					EPA F-FACTOR	
ASTM D1945-14, D1946-90 (2015), D3588-98 (2011)						
GPA 2145-09, 2172-09						
40 CFR Pt 60 App A Method 18 & 19						
					dscf/MMBtu @ 68°F	9264
					dscf/MMBtu @ 60°F	9125

* Compressibility Corrected

GPM - Gallons per 1000 ft³

LV% - Liquid Volume Percent

VOC - C₃-C₆+ Components

THC - Total Hydrocarbon Content

dscf - Dry Standard Cubic Foot

scf - Standard Cubic Foot

^a Used in EPA Method 19 Volume Flow Calculations

^b Used in EPA Method 19 F-Factor Calculations

Aeros Environmental, Inc.

**Goleta Sanitary District
Goleta Waste Water Treatment Plant**

**Project 179-1804
Laboratory ID 19-174-08**

Sample Location: Varec 244E Digester Gas Flare
Sample Description: Inlet, Run 2
Sampled by: Philip Mayer

Date Sampled: May 20, 2019
Date Received: May 21, 2019
Date Analyzed: May 21, 2019

Fuel Gas - Analysis Results

CONSTITUENT	MOLE %	Wt.%	LV%	GPM*	CHONS	Wt.%
Oxygen	0.223	0.262	0.117		Carbon	43.59
Nitrogen	0.870	0.894	0.565		Hydrogen	8.77
Carbon Dioxide	39.604	63.926	39.921		Oxygen	46.74
Carbon Monoxide	0.000	0.000	-		Nitrogen	0.89
					Sulfur	0.00
					Total	100.00
					GPM SUBTOTALS*	gal/1000 ft³
Methane	59.294	34.888	59.373	10.058	C ₂ +	0.004
Ethane	0.000000	0.000000	0.000000	0.000000	C ₃ +	0.004
Propane	0.000128	0.000207	0.000208	0.000035	C ₄ +	0.004
Butanes	0.000051	0.000109	0.000095	0.000016	C ₅ +	0.004
Pentanes	0.000010	0.000026	0.000021	0.000004		
Hexanes	0.009613	0.030385	0.023350	0.003956		
Total(s)	100.000	100.000	100.000	10.063		

CALORIFIC VALUES	GROSS		NET		SUPPORTING DATA	
	Btu/ft ³	Btu/lb	Btu/ft ³	Btu/lb		
Dry, ideal	599 ^a	8342 ^b	540	7511	Specific Gravity (Air = 1)	0.9414
Wet, ideal	589	8196	530	7380	Specific Volume (ft ³ /lb)	13.92
Dry, real*	601	-	541	-	Molar Wt. of Sample	27.27
Wet, real*	591	-	532	-	VOC/THC by Wt. %	0.09
					Compressibility Factor "Z"	0.9968
<i>References:</i>					EPA F-FACTOR	
ASTM D1945-14, D1946-90 (2015), D3588-98 (2011)						
GPA 2145-09, 2172-09						
40 CFR Pt 60 App A Method 18 & 19						
					dscf/MMBtu @ 68°F	9261
					dscf/MMBtu @ 60°F	9122

* Compressibility Corrected

GPM - Gallons per 1000 ft³

LV% - Liquid Volume Percent

VOC - C₃-C₆+ Components

THC - Total Hydrocarbon Content

dscf - Dry Standard Cubic Foot

scf - Standard Cubic Foot

^a Used in EPA Method 19 Volume Flow Calculations

^b Used in EPA Method 19 F-Factor Calculations

Aeros Environmental, Inc.

**Goleta Sanitary District
Goleta Waste Water Treatment Plant**

**Project 179-1804
Laboratory ID 19-174-09**

Sample Location: Varec 244E Digester Gas Flare
Sample Description: Inlet, Run 3
Sampled by: Philip Mayer

Date Sampled: May 20, 2019
Date Received: May 21, 2019
Date Analyzed: May 21, 2019

Fuel Gas - Analysis Results

CONSTITUENT	MOLE %	Wt.%	LV%	GPM*	CHONS	Wt.%
Oxygen	0.209	0.245	0.110		Carbon	43.54
Nitrogen	0.829	0.850	0.539		Hydrogen	8.74
Carbon Dioxide	39.802	64.134	40.113		Oxygen	46.88
Carbon Monoxide	0.000	0.000	-		Nitrogen	0.85
					Sulfur	0.00
					Total	100.00
					GPM SUBTOTALS*	gal/1000 ft³
Methane	59.151	34.744	59.218	10.034	C ₂ +	0.004
Ethane	0.000000	0.000000	0.000000	0.000000	C ₃ +	0.004
Propane	0.000126	0.000203	0.000205	0.000035	C ₄ +	0.003
Butanes	0.000047	0.000100	0.000088	0.000015	C ₅ +	0.003
Pentanes	0.000010	0.000026	0.000021	0.000004		
Hexanes	0.008381	0.026443	0.020352	0.003449		
Total(s)	100.000	100.000	100.000	10.038		

CALORIFIC VALUES	GROSS		NET		SUPPORTING DATA	
	Btu/ft ³	Btu/lb	Btu/ft ³	Btu/lb		
Dry, ideal	598 ^a	8306 ^b	538	7479	Specific Gravity (Air = 1)	0.9431
Wet, ideal	587	8161	529	7349	Specific Volume (ft ³ /lb)	13.89
Dry, real*	600	-	540	-	Molar Wt. of Sample	27.31
Wet, real*	589	-	531	-	VOC/THC by Wt.%	0.08
					Compressibility Factor "Z"	0.9968
<i>References:</i>					EPA F-FACTOR	
ASTM D1945-14, D1946-90 (2015), D3588-98 (2011)						
GPA 2145-09, 2172-09						
40 CFR Pt 60 App A Method 18 & 19						
					dscf/MMBtu @ 68°F	9266
					dscf/MMBtu @ 60°F	9127

* Compressibility Corrected

GPM - Gallons per 1000 ft³

LV% - Liquid Volume Percent

VOC - C₃-C₆+ Components

THC - Total Hydrocarbon Content

dscf - Dry Standard Cubic Foot

scf - Standard Cubic Foot

^a Used in EPA Method 19 Volume Flow Calculations

^b Used in EPA Method 19 F-Factor Calculations

All Readings in SCF, Daily usage based on the total for the month divided by the days operated.

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Primary Flare													
Month Total	2,815,437	2,343,444	2,423,716	2,963,529	3,091,093	2,755,977	2,719,453	2,913,448	2,657,601	2,855,963	2,389,115	2,224,625	32,153,401
Days Operated	31	28	31	30	31	30	31	31	30	31	30	31	365
Daily Usage	90,821	83,694	78,184	98,784	99,713	91,866	87,724	93,982	88,587	92,128	79,637	71,762	88,092
Standby Flare													
Month Total					37,786								37,786
Days Operated	0	0	0	0	2	0	0	0	0	0	0	0	2
Daily Usage					18,893								18,893
Boiler 1													
Month Total Biogas Use	336,202	115,313	1,357,426	1,511,609	564,592	271,355	1,375,662	1,187,756	1,166,710	1,354,854	1,701,424	455,954	11,398,857
Days on Biogas	6	3	25	30	13	6	31	31	30	31	30	8	244
Daily Usage on Biogas	56,034	38,438	54,297	50,387	43,430	45,226	44,376	38,315	38,890	43,705	56,714	56,994	46,717
Boiler 2													
Month Total Biogas Use	1,108,865	1,087,401	228,192		582,378	797,674			0			835,778	4,640,288
Days on Biogas	30	25	5	0	18	24	0	0	0	0	0	23	125
Daily Usage on Biogas	36,962	43,496	45,638		32,354	33,236						36,338	37,122

Standby Flare Usage Detail

Date SCF Reason

5/28/2019 29619 Maintenance Being Performed on Primary Flare by Manufacturer. Ran from 8:05 AM - 3:30 PM
 5/29/2019 8167 Maintenance Being Performed on Primary Flare by Manufacturer. Ran from 8:05 AM - 11:15 AM

Industrial Boiler Service, Inc.

Industrial Boiler Service Inc.
 Cont. Lic. #548250
 940 Loma Dr.
 Ojai, CA 93023
 Tel: (805) 640-0809 Fax: (805) 640-0893
 industrialboiler@yahoo.com

Date	Invoice #
03/17/2019	11344
Terms	Due Date
Net 30	04/16/2019

Bill To
Goleta Sanitation 1 William Moffet Place Goleta, CA 93117

P.O. #	Work Order #

Service Date	Description	Quantity	Rate	Amount
03/07/2019	Opened Rite boiler. Repaired refractory. Cleaned firesides of boiler tubes. Closed boiler. Test fired. Man #1	6	148.00	888.00
03/07/2019	Opened Rite boiler. Repaired refractory. Cleaned firesides of boiler tubes. Closed boiler. Test fired. Man #2	1	125.00	125.00
03/07/2019	Cement	1	35.00	35.00T
03/07/2019	Rite Boiler tuned to manufacture specifications			

SubTotal	1,048.00
Tax Due	2.71
Total	\$0.00

Accounts PAST DUE will be charged a service charge of \$1.00 or a finance charge of 1.5% per month (18% annual rate) of the outstanding balance whichever is greater.

Thank you for your business!



Gold Coast Environmental



1886 Palma Drive, Suite I, Ventura, CA 93003

www.goldcoastenv.com

O: 805.498.3811

Company Name: Goleta Sanitary District

Address: 1 William Moffett Place, Goleta, CA 93117

Date: 4-16-19 Service Time: 9:05 Location/Tag#: FIT-6210 / Main Flare

Manufacturer: FCI ST 98 Transmitter Serial Number: 507737

Nominal Sensor Resistance 1000 ohms

EPROM Info:

Version:	Date:	Checksum:
2.32	4/4/06	4AE3

Indicated Temperature at Nominal Resistance 30.20 F

Technician
DT

Delta 'R Ohms	VDC Across 250 Ohms	mA Output	Unit dR	Indicated Display
221.22	0.999	4.00	4096	0.000 SCFM
220.22	1.201	4.78	4084	15.18 SCFM
211.02	1.247	4.94	3913	18.65 SCFM
181.30	1.496	5.91	3360	37.25 SCFM
151.31	1.994	7.90	2802	74.53 SCFM
121.37	2.996	11.90	2245	149.6 SCFM
105.14	3.984	15.86	1943	223.6 SCFM
93.90	4.968	19.77	1734	297.4 SCFM

Version:	2.32	C5:	311.89750	Sensor:	2
Scale:	1.19988	Balance:	161	Tslp:	0.22820000
Serial #:	507737	Outz:	6565	Refr:	2225.39
Customer:	C080322	OutF:	32855	Caltemp:	67
Curve Fit:	2	Heater i:	115	Toff:	-440.83
Brk Pt:	2149	Factor:	13.2247	Tcslp:	0.00026500
Poly Seg 1:		Eu:	67 (C)	Tcslp0:	0.00000
C1:	73.271340	Tot:	0	Tcslp2:	0.00000
C2:	0.8406194	Tottemp:	0	MaxFlow:	27.219
C3:	-11.28398	TotFlow:		MinFlow:	1.1345
C4:	12.143650	RollOver:	1e6	Density:	0.07152420
C5:	0.0485410	Roll Cnt:	0	Line Size 0:	6.3570004
Poly Seg 2:		Outmode:	0	Line Size 1:	0.0000000
C1:	3801.2940	A/D Max:	3994	F. S:	300.0000
C2:	-805.6827	A/D Min:	1515		
C3:	6507.5750	K Factor:	1.0000		
C4:	-23316.29	Zero:	0.0000		



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www.goldcoastenv.com

O: 805.498.3811

Company Name: Goleta Sanitary District

Address: 1 William Moffett Place, Goleta, CA 93117

Date: 4-16-19 Service Time: 9:30 Location/Tag#: FIT-5001 / Stand-by Flare

Manufacturer: FCI ST 98 Transmitter Serial Number: 246282

Nominal Sensor Resistance 1000 ohms
Indicated Temperature at Nominal Resistance 29.40 F

EPROM Info:

Version:	Date:	Checksum:
2.32	4/4/06	4AE3

Technician
DT

Delta 'R Ohms	VDC Across 250 Ohms	mA Output	Unit dR	Indicated Display
210.51	1.000	3.98	3880	0.000 SCFM
209.51	1.402	5.59	3862	10.07 SCFM
199.36	1.497	5.96	3673	12.47 SCFM
167.08	1.998	7.95	3073	24.96 SCFM
134.32	2.997	11.92	2464	49.86 SCFM
116.46	3.995	15.88	2132	74.70 SCFM
104.89	4.982	19.85	1917	99.20 SCFM

Version:	2.32	C5:	-1.445928	Sensor:	2
Scale:	1.20023	Balance:	172	Tslp:	0.23453800
Serial #:	246282	Outz:	6613	Refr:	2232
Customer:	RA29307	OutF:	32935	Caltemp:	68.99
Curve Fit:	2	Heater i:	117	Toff:	-454.49
Brk Pt:	2597	Factor:	5.30431	Tcslp:	000027400
Poly Seg 1:		Eu:	67 (C)	Tcslp0:	0.00000
C1:	2076.3770	Tot:	0	Tcslp2:	0.00000
C2:	-260.0252	Tottemp:	0	MaxFlow:	22.627
C3:	1254.7870	TotFlow:		MinFlow:	1.8856
C4:	-2695.643	RollOver:	1e6	Density:	0.07152420
C5:	21.590350	Roll Cnt:	0	Line Size 0:	4.0260000
Poly Seg 2:		Outmode:	0	Line Size 1:	0.0000000
C1:	112.00330	A/D Max:	3791	F. S:	100.0000
C2:	-2.116658	A/D Min:	1672		
C3:	-13.93106	K Factor:	1.0000		
C4:	85.419290	Zero:	0.0000		



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O: 805.498.3811

Company Name: Goleta Sanitary District

Address: 1 William Moffett Place, Goleta, CA 93117

Date: 4/16/19 Service Time: 10:15 Location/Tag#: FIT-6101 / Boiler #1

Manufacturer: FCI ST 98 Transmitter Serial Number: 246281

Nominal Sensor Resistance 1000 Ohms

EPROM Info:

Indicated Temperature at Nominal Resistance 30.20 F

Version:	Date:	Checksum:
2.32	4/4/06	4AE3

Technician
DT

Delta 'R Ohms	VDC Across 250 Ohms	mA Output	Unit dR	Indicated Display
209.99	1.000	4.01	3949	0.0 SCFM
208.99	1.404	5.61	3931	10.08 SCFM
199.03	1.498	5.99	3745	12.47 SCFM
166.43	1.998	7.98	3137	24.90 SCFM
134.21	2.999	11.98	2536	49.83 SCFM
116.36	3.997	15.95	2203	74.68 SCFM
104.51	4.987	19.90	1982	99.19 SCFM

Version:	2.32	C5:	7.0668550	Sensor:	2
Scale:	1.20023	Balance:	137	Tslp:	0.23453800
Serial #:	246281	Outz:	6564	Refr:	2232.08
Customer:	RA29221	OutF:	32833	Caltemp:	69.87
Curve Fit:	2	Heater i:	117	Toff:	-453.63
Brk Pt:	2688	Factor:	5.30431	Tcslp:	0.00027400
Poly Seg 1:		Eu:	67 (C)	Tcslp0:	0.00000
C1:	-1019.347	Tot:	1	Tcslp2:	0.00000
C2:	140.64260	Tottemp:	0	MaxFlow:	22.627
C3:	-671.7234	TotFlow:	795047.125	MinFlow:	1.8856
C4:	1389.3230	RollOver:	1e6	Density:	0.07152420
C5:	-10.66137	Roll Cnt:	0	Line Size 0:	4.0260000
Poly Seg 2:		Outmode:	0	Line Size 1:	0.0000000
C1:	254.71280	A/D Max:	3852	F. S:	100.0000
C2:	-29.70798	A/D Min:	1729		
C3:	194.05580	K Factor:	1.0000		
C4:	-606.4315	Zero:	0.0000		



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www.goldcoastenv.com

O: 805.498.3811

Company Name: Goleta Sanitary District

Address: 1 Moffett Place, Goleta, CA 93117

Date: 4/16/19 Service Time: 10:45 Location/Tag#: FIT-6102 / Boiler #2

Manufacturer: FCI ST 98 Transmitter Serial Number: 503840

Nominal Sensor Resistance 1000 ohms
Indicated Temperature at Nominal Resistance 30.10 F

EPROM Info:

Version:	Date:	Checksum:
2.32	4/4/06	4AE3

Technician
DT

Delta 'R Ohms	VDC Across 250 Ohms	mA Output	Unit dR	Indicated Display
166.92	0.999	4.00	3111	0.000 SCFM
165.92	1.081	4.33	3092	2.040 SCFM
137.23	1.249	5.00	2558	6.213 SCFM
117.65	1.496	5.99	2193	12.41 SCFM
97.43	1.993	7.97	1816	24.83 SCFM
78.12	2.988	11.93	1456	49.58 SCFM
67.77	3.987	15.91	1263	74.45 SCFM
61.33	4.968	19.81	1143	98.79 SCFM

Version:	2.32	C5:	57.296780	Sensor:	3
Scale:	1.19967	Balance:	153	Tslp:	0.22820000
Serial #:	503840	Outz:	6594	Refr:	2191.86
Customer:	C079463	OutF:	32849	Caltemp:	59
Curve Fit:	2	Heater i:	194	Toff:	-441.18
Brk Pt:	1549	Factor:	1.39817	Tcslp:	0.00026500
Poly Seg 1:		Eu:	67 (C)	Tcslp0:	0.00000
C1:	166.72270	Tot:	1	Tcslp2:	0.00000
C2:	-10.45560	Tottemp:	0	MaxFlow:	85.802
C3:	39.539120	TotFlow:	84656.1796	MinFlow:	1.4306
C4:	-121.4106	RollOver:	1e6	Density:	0.07152420
C5:	1.6262300	Roll Cnt:	29	Line Size 0:	2.0669999
Poly Seg 2:		Outmode:	0	Line Size 1:	0.0000000
C1:	499.47350	A/D Max:	3059	F. S:	100.0000
C2:	-97.77508	A/D Min:	1008		
C3:	886.44820	K Factor:	1.0000		
C4:	-3707.516	Zero:	0.0000		



Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF -92

Santa Barbara County Air Pollution Control District
260 N San Antonio Rd, Suite A, Santa Barbara, CA 93110-1315

Maintain a separate Compliance ENF -92 for each emergency/standby engine. Additional information regarding the recordkeeping and reporting requirements for emergency/standby diesel engines can be found here: www.ourair.org/dice-atcm.

Company Name	Goleta Sanitary District		
Contact Name	John Crisman	Phone #	805-967-4519
FID No.	01528	Permit No.	05861-R9

ENGINE DATA			
Engine Location (Address, Nearest Cross Streets, or Lease)	One William Moffet Place, James Fowler Road		
Manufacturer	Generac		
Model Name	13237430600		
Maximum Rated Brake Horsepower (bhp)	804 BHP 600 KW		
Serial Number	2113102	APCD Device Number	Gen#1-6121

Initial Startup[†] (Hours): _____ Reporting Year: 2019

Hour Meter Reading as of January 1st of the Reporting Year: 128.9

MONTH	HOURS OF OPERATION						HOUR METER READING AT THE END OF THE MONTH
	EMERGENCY USE	MAINTENANCE & TESTING	EMISSIONS TESTING	INITIAL STARTUP	OTHER USES	NFPA 25/ 110 USE	
JANUARY		1.8					130.7
FEBRUARY	0.2	1.7					132.6
MARCH		1.7					134.3
APRIL		2.8					137.1
MAY		1.5					138.6
JUNE	1.8	1.1					141.5
JULY	5.2						146.7
AUGUST		1.7					148.4
SEPTEMBER		1.7					150.1
OCTOBER		1.8					151.9
NOVEMBER		1.7					153.6
DECEMBER	0.4	1.7					155.7
TOTAL	7.6	19.2					

PLEASE RETURN THE COMPLETED ANNUAL REPORT TO:
AIR POLLUTION CONTROL DISTRICT, 260 N. SAN ANTONIO RD., SUITE A, SANTA BARBARA CA 93110-1315
or E-mail to annualreport@sbcapcd.org (FAXES NOT ACCEPTED)

Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF-92

Does this annual report contain confidential information? Yes No

All information claimed as confidential must be submitted in accordance with APCD Policy & Procedure 6100-020 (Handling of Confidential Information): <http://www.ourair.org/wp-content/uploads/6100-020.pdf>. Failure to follow the required procedures shall be deemed a waiver by the applicant of the right to protect such information from public disclosure.

I certify that the information provided is accurate and complete to the best of my knowledge.


Signature

John Crisman / 1/30/2020
Print name / date

ANNUAL REPORT INSTRUCTIONS FOR DIESEL-FIRED E/S ENGINE

1. **MULTIPLE ENGINES:** If your facility has more than one permitted diesel-fired emergency/standby engine, then please provide separate copies of this form for each engine.
2. **CHECK YOUR PERMIT:** Check the *Reporting* condition of your permit, there may be additional information that needs to be submitted with this report. Please provide any additional information that you are required to submit.
3. **SUBMITTAL:** Submit by mail or e-mail. When submitting via e-mail, if you do not receive a response within 72 hours confirming that the District has received your submittal, please assume the annual report was not received and contact us at (805) 961-8800. *Faxes Not Accepted.*

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Santa Barbara County Air Pollution Control District
260 N San Antonio Rd, Suite A, Santa Barbara, CA 93110-1315

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Company Name	Goleta Sanitary District		
Contact Name	John Crisman	Phone #	805-967-4519
FID No.	01528	Permit No.	05861-R9

ENGINE DATA			
Engine Location (Address, Nearest Cross Streets, or Lease)	One William Moffet Place, James Fowler Road		
Manufacturer	Generac		
Model Name	13237430600		
Maximum Rated Brake Horsepower (bhp)	804 BHP 600 KW		
Serial Number	2113103	APCD Device Number	Gen#2-6122

Initial Startup[†] (Hours): _____ Reporting Year: 2019

Hour Meter Reading as of January 1st of the Reporting Year: 118.9

MONTH	HOURS OF OPERATION						HOUR METER READING AT THE END OF THE MONTH
	EMERGENCY USE	MAINTENANCE & TESTING	EMISSIONS TESTING	INITIAL STARTUP	OTHER USES	NFPA 25/ 110 USE	
JANUARY		1.7					120.6
FEBRUARY	0.2	1.8					122.6
MARCH		1.7					124.3
APRIL		1.8					126.1
MAY		1.7					127.8
JUNE	2.3						130.1
JULY	5.2						135.3
AUGUST		1.7					137.0
SEPTEMBER		2.1					139.1
OCTOBER		2.7					142.0
NOVEMBER		1.7					143.7
DECEMBER	0.4	1.6					145.7
TOTAL	8.1	18.6					

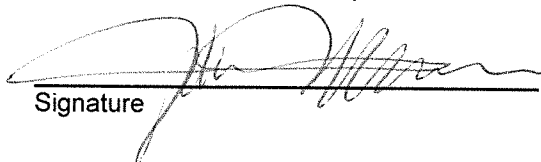
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Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF-92

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I certify that the information provided is accurate and complete to the best of my knowledge.


Signature

John Crisman 1/30/2020
Print name / date

ANNUAL REPORT INSTRUCTIONS FOR DIESEL-FIRED E/S ENGINE

1. **MULTIPLE ENGINES:** If your facility has more than one permitted diesel-fired emergency/standby engine, then please provide separate copies of this form for each engine.
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Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF -92

Santa Barbara County Air Pollution Control District
260 N San Antonio Rd, Suite A, Santa Barbara, CA 93110-1315

Maintain a separate Compliance ENF -92 for each emergency/standby engine. Additional information regarding the recordkeeping and reporting requirements for emergency/standby diesel engines can be found here: www.ourair.org/dice-atcm.

Company Name	Goleta Sanitary District		
Contact Name	John Crisman	Phone #	805-967-4519
FID No.	11309	Permit No.	13447-R3

ENGINE DATA	
Engine Location (Address, Nearest Cross Streets, or Lease)	101 John Donald, Santa Barbara
Manufacturer	Cummins
Model Name	QSB5-G3 NR3
Maximum Rated Brake Horsepower (bhp)	145 BHP 108KS
Serial Number	73115400
APCD Device Number	

Initial Startup[†] (Hours): _____ Reporting Year: 2019

Hour Meter Reading as of January 1st of the Reporting Year: 74.7

MONTH	HOURS OF OPERATION						HOUR METER READING AT THE END OF THE MONTH
	EMERGENCY USE	MAINTENANCE & TESTING	EMISSIONS TESTING	INITIAL STARTUP	OTHER USES	NFPA 25/110 USE	
JANUARY		1.4					76.1
FEBRUARY	0.4	1.9					78.4
MARCH		1.8					80.2
APRIL		1.7					81.9
MAY		1.7					83.8
JUNE		1.9					85.7
JULY		1.7					87.4
AUGUST		1.8					89.2
SEPTEMBER		1.8					91.0
OCTOBER		1.8					92.7
NOVEMBER		1.8					94.5
DECEMBER	0.9	1.8					97.2
TOTAL	1.3	21.1					

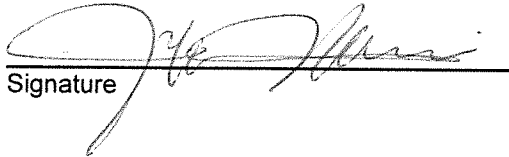
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Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF-92

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I certify that the information provided is accurate and complete to the best of my knowledge.


Signature

John Crisman

1/30/2020

Print name / date

ANNUAL REPORT INSTRUCTIONS FOR DIESEL-FIRED E/S ENGINE

1. **MULTIPLE ENGINES:** If your facility has more than one permitted diesel-fired emergency/standby engine, then please provide separate copies of this form for each engine.
2. **CHECK YOUR PERMIT:** Check the *Reporting* condition of your permit, there may be additional information that needs to be submitted with this report. Please provide any additional information that you are required to submit.
3. **SUBMITTAL:** Submit by mail or e-mail. When submitting via e-mail, if you do not receive a response within 72 hours confirming that the District has received your submittal, please assume the annual report was not received and contact us at (805) 961-8800. *Faxes Not Accepted.*

PLEASE RETURN THE COMPLETED ANNUAL REPORT TO:
AIR POLLUTION CONTROL DISTRICT, 260 N. SAN ANTONIO RD., SUITE A, SANTA BARBARA CA 93110-1315
or E-mail to annualreport@sbcapcd.org (FAXES NOT ACCEPTED)



MCCORMIX CORP.
Jobber, Chevron U.S.A. Products Company
P.O. Box 848
Santa Barbara, CA 93102
(805) 963-9366

LETTER OF CONFORMANCE
01/21/2020

This is to certify that CARB ULS dyed diesel sold and delivered to:

Goleta Sanitary District for calendar year 2019

Was in compliance with SCAQMD requirements for Santa Barbara County.

The sulfur content is guaranteed to be less than .0015% (15PPM). The high heat content is typically in the 19,950 to 20,200 BTU per pound range.

Steve Olsen

General Manager
McCormix Corporation
805-963-9366



Letter of Conformance

January 21, 2020

This is to certify that the CARB Ultra Low sulfur dyed Diesel Fuel sold and delivered to Goleta Sanitary District from 1/1/2019-12/31/2019

Was in compliance with California Air Resources Board requirements for Ventura County. The test Results meet ASTM D-5453 and are Typical of all CARB Ultra Low Sulfur Dyed Diesel Fuel sold by SC Fuels. The sulfur Content is guaranteed to be less than .0015%. (15PPM) The high heat content is typically in the 19,950-20,200 BTU per pound range.

Terri Merritt

A handwritten signature in black ink that reads 'Terri Merritt'. The signature is fluid and cursive, matching the printed name above it.

Account Manager
SC Fuels
Oxnard Division
Office (805)299-1217
merrittt@scfuels.com