

NOTICE OF INITIAL TITLE V PERMIT ISSUANCE FOR MONTEREY ONE WATER

Pursuant to District Rule 218, the Monterey Bay Air Resources District solicits written comments to the preliminary decision to approve the issuance of the initial Title V Permit to Monterey One Water (M1W) for their existing Regional Treatment Plant (RTP) located at 14811 Del Monte Boulevard in Marina. The RTP is for the treatment of wastewater with an average dry weather design capacity of 29.6 million gallons per day (mgd) and a peak wet weather design capacity of 75.6 mgd. The facility is also a water reclamation facility and has constructed a new Advanced Water Purification Facility (AWPF).

The RTP operates an anaerobic digester system that collects and discharges the digester gas either to waste gas flares, boiler or cogeneration units. In addition to the digester gas combustion equipment, the facility operates several diesel engines, an aboveground storage tank (AST) gasoline dispensing facility (GDF), and a laboratory fume hood to support the RTP operations.

The M1W facility at 14811 Del Monte Boulevard is considered a federal Major Source and subject to the Title V permitting program due to the potential to emit carbon monoxide (CO). The Operating Permit includes conditions to ensure that all federal requirements are satisfied. M1W has submitted the initial Title V permit application for the facility. The Title V permit to be issued will contain all the applicable federal requirements. The approval of this project is being proposed because the facility has the capability of complying with all applicable federal requirements.

The proposed permit will be forwarded to the US EPA for a 45-day review period. The District will not issue a permit to which EPA objects. The public may petition the US EPA, Region 9, Operating Permits Section, within 60 days after the US EPA 45-day review period to object the issuance of the final permit. This petition shall be based only on objections that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise the issue during that time period.

M1W's application and the District Evaluation Report of the initial Title V application are available for public inspection at the District office at 24580 Silver Cloud Court, Monterey, CA. A copy of the evaluation report is found on the District website at www.mbard.org.

The public has an opportunity to review and comment on the proposed Project. Under special circumstances, the District may hold a public hearing. Written comments must be submitted to the address below and be postmarked by Tuesday, January 18, 2022.

Monterey Bay
Air Resources District
24580 Silver Cloud Court
Monterey, CA 93940
(831) 647-9411
ajimenez@mbard.org
Attention: Armando Jimenez

**MONTEREY AIR RESOURCES DISTRICT
TITLE V OPERATING PERMIT
STATEMENT OF BASIS TV-122**

24580 Silver Cloud Court
Monterey, CA 93940
Telephone: (831) 647-9411

Dated: December 2021

APPLICATION RECEIVED FROM:

Monterey One Water
5 Harris Court, Bldg. D
Monterey, CA 93940

PLANT SITE LOCATION:

14811 Del Monte Boulevard
Marina, California

APPLICATION PROCESSED BY:

Armando Jimenez, Air Quality Engineer

Nature of Business: Wastewater Treatment & Reclamation Plant

SIC Code: 4952 – Sewerage Systems

RESPONSIBLE OFFICIAL:

Name: Mr. Jose O. Guzman
Title: Chief Plant Operator
Phone: (831) 883-6183

ALTERNATE RESPONSIBLE OFFICIAL:

Name: Ms. Joanne Y. Le
Title: Laboratory & Environmental Services Manager
Phone: (831) 883-6131

FACILITY CONTACT PERSON:

Name: Ms. Joanne Y. Le
Title: Laboratory & Environmental Services Manager
Phone: (831) 883-6131

TABLE OF CONTENTS

PROJECT DESCRIPTION..... 3
FACILITY DESCRIPTION 3
EQUIPMENT DESCRIPTION..... 3
APPLICABLE FEDERAL REQUIREMENTS..... 5
COMPLIANCE DETERMINATION FOR APPLICABLE FEDERAL REQUIREMENTS 6
PERMIT SHIELD..... 23
THE FOLLOWING CONDITIONS WILL BE INCLUDED ON THE TITLE V PERMIT: 23
FEDERALLY ENFORCEABLE EMISSION LIMITS AND STANDARDS 23
TESTING REQUIREMENTS AND PROCEDURES..... 23
MONITORING AND RECORD KEEPING REQUIREMENTS 23
REPORTING REQUIREMENTS 24
GENERAL CONDITIONS 24

PROJECT DESCRIPTION

Pursuant to Rule 218 of the Monterey Bay Air Resources District (District) Rules and Regulations, the District intends to issue an initial Title V Operating Permit to Monterey One Water (M1W) existing Regional Treatment Plant (RTP) located in Marina, California.

The M1W facility at 14811 Del Monte Boulevard is considered a federal Major Source and subject to the Title V permitting program due to the potential to emit carbon monoxide (CO). The Operating Permit includes conditions to ensure that all federal requirements are satisfied.

FACILITY DESCRIPTION

M1W is a Joint Powers Authority (JPA) formed in 1972 shortly after the Federal Clean Water Act was passed. The RTP has an average dry weather design capacity of 29.6 million gallons per day (mgd) and a peak wet weather design capacity of 75.6 mgd. M1W member entities include the cities of Monterey, Pacific Grove, Del Rey Oaks, Sand City, Marina, and Salinas; the Seaside Sanitation District; the Castroville and Boronda Community Service Districts; and the former Fort Ord lands. Influent is predominantly comprised of municipal wastewater, but also currently includes small amounts of urban dry weather runoff and other discrete wastewater flows. Today, the RTP currently receives, treats and recycles approximately 17 mgd of wastewater from a population of approximately 250,000.

The facility is also a water reclamation facility. In the 1990s, M1W and the Monterey County Water Resources Agency (MCWRA) formed a partnership to build the Salinas Valley Reclamation Project (SVRP) to provide irrigation water to the farmland in the northern Salinas Valley. The SVRP treats wastewater to advanced tertiary level. The resultant recycled water meets all State Standards for recreational uses, including unrestricted use on freshly edible food crops. The facility is sized to produce a maximum of 29.6 million gallons of recycled water per day. Tertiary, or recycled water treatment, moves secondary treated wastewater through the SVRP water recycling facility where it undergoes a 3-step chemical and filtration processes. This is the same process used to treat drinking water.

In addition to the SVRP, M1W completed construction of an Advanced Water Purification Facility (AWPF) at the 14811 Del Monte Boulevard Facility. The AWPF is part of the larger Pure Water Monterey (PWM) Groundwater Replenishment Project, which produces up to 4,300 acre-feet per year (AFY). The purified recycled water produced at the AWPF meets or exceeds federal and state drinking water standards, including Title 22 of the California Code of Regulations and its requirements for groundwater replenishment with recycled water. The purified recycled water is used to replenish the Seaside Basin through the injection of the water into a series of shallow and deep injection wells. The District has issued Permit to Operate (PTO) GNR-0017895 for operation of the AWPF.

EQUIPMENT DESCRIPTION

Below is the equipment description of M1W wastewater treatment and reclamation plant.

1. Wastewater Treatment And Reclamation Plant With An Average Dry Weather Flowrate Capacity

Of 29.6 Million Gallon Per Day (MGD), A Peak Dry Weather Flowrate Of 48.7 MGD, And A Peak Wet Weather Flowrate Of 75.6 MGD. Plant Consisting Of The Following:

2. Advanced Water Purification Facility, With A Design Capacity Of 5.0 MGD. The Plant Will Consist Of The Following Structures And Facilities:
3. Advanced Water Purification Demonstration Facility, With A Design Capacity Of 14 Gallons Per Minute.
4. Internal Combustion Engine-Generator Set #1, Superior Clean Burn II Engine Rated At 825 BHp, Natural Gas And Digester Gas Fired, With A 580 KW Net Electrical Output. Equipped With Common Waste Heat Recovery Boiler System.
5. Internal Combustion Engine-Generator Set #2, Superior Clean Burn II Engine Rated At 825 BHp, Natural Gas And Digester Gas Fired, With A 580 KW Net Electrical Output. Equipped With Common Heat Recovery Boiler System.
6. Internal Combustion Engine-Generator Set #3, Superior Clean Burn II Engine Rated At 825 BHp, Natural Gas And Digester Gas Fired, With A 580 KW Net Electrical Output. Equipped With Common Heat Recovery Boiler System.
7. Digester Waste Gas Candlestick Flares:
 - a. Two (2) Varec 6" Candlestick Waste Gas Flares.
 - b. One (1) Varec 3" Candlestick Waste Gas Flare.
8. Cleaver Brooks Boiler Natural Gas Or Digester Gas Fired With A Maximum Heat Input Rating Of 8.369 MMBtu/Hr. Boiler Used To Supply Hot Water To The Digester Heat Exchangers.
9. Portable Sludge Lagoon Barge Driven By A Caterpillar Diesel Engine With A Maximum Rating Of 202 BHp @ 2,300 RPM.
10. Portable Sewer Pump Driven By A John Deere Diesel Tier 3 Engine With A Maximum Rating Of 84 BHp @ 2,400 RPM.
11. Cummins Model 1500 DFLE Emergency Internal Combustion Engine-Generator Set, Powered By A Cummins Diesel Engine Rated At 2,220 BHp @ 1,800 RPM, With An Onan Generator With A 1,500 KW Output.
12. Caterpillar Model 3406 Diesel Engine, Serial #4ZR01723, 449 BHp @ 1800 RPM, With Turbocharger And Aftercooler; And Caterpillar Model SR-4B Generator, Serial #9CR00763, 300 KW Output.
13. Portable Emergency Engine-Generator Set. Caterpillar Model 3412 DITA Diesel Engine, Serial #BLG00344, 1,114 BHP @ 1,800 RPM, With Turbocharger and Aftercooler; And Caterpillar Model SR4B Generator, Serial #6EJ01471, 750 KW Output.

14. Ancillary Equipment

Aboveground Storage Tank (AST) Gasoline Dispensing Facility (GDF) Equipped With California Air Resource Board Certified Phase I Enhanced Vapor Recovery System.

Laboratory Fume Hoods With Ventilation Systems

Portable Internal Combustion Engine-Pump Set, Powered By A Tier 4 Final Isuzu Diesel Engine Rated At 61 BHp @ 2,400 RPM.

Stationary Emergency Internal Combustion Engine-Generator Set, Powered By A Tier 4 Final Doosan Diesel Engine Rated At 65 BHp @ 1,800 RPM, 40 KW Output.

APPLICABLE FEDERAL REQUIREMENTS

Applicable Requirements	Equipment Affected
Rule 200, Permits Required	Facility Wide
Rule 201, Sources Not Requiring Permits	Facility Wide
Rule 207, Review of New or Modified Sources	Facility Wide
Rule 214, Breakdown Condition	Facility Wide
Rule 218, Title V: Federal Operating Permits	Facility Wide
Rule 308, Title V: Federal Operating Permit Fees	Facility Wide
Rule 400, Visible Emissions	Facility Wide
Rule 403, Particulate Matter	Facility Wide
Rule 404, Sulfur Compounds and Nitrogen Oxides	Internal Combustion Engines, Digester Waste Gas Candlestick Flares, & Natural Gas/Digester Waste Gas Fired-Boiler
Rule 412, Sulfur Content Fuels	Internal Combustion Engines, Digester Waste Gas Candlestick Flares, & Natural Gas/Digester Waste Gas Fired-Boiler
Rule 416, Solvents	Facility Wide
Rule 418, Transfer of Gasoline into Stationary Storage Containers	Ancillary Gasoline Storage Tank
Rule 426, Architectural Coatings	Facility Wide
Rule 1002, Transfer of Gasoline into Vehicle Fuel Tanks	Ancillary Gasoline Storage Tank
40 CFR Part 60, Subpart A, New Source Performance Standards (NSPS), General Provisions	Facility Wide
40 CFR Part 60, Subpart Dc, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	Natural Gas/Digester Waste Gas Fired-Boiler
40 CFR Part 64, Compliance Assurance	Facility Wide

Applicable Requirements	Equipment Affected
Monitoring	
40 CFR Part 60, Subpart IIII, NSPS For Stationary Compression Ignition Internal Combustion Engine	Stationary Diesel-Fired Engines
40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Natural Gas/Digester Waste-Fired Engines
40 CFR Part 63, Subpart A – National Emission Standard for Hazardous Air Pollutants – General Provisions	Facility Wide
40 CFR Part 63 Subpart VVV, NESHAPS for Publicly Owned Treatment Works	Wastewater Treatment And Reclamation Plant
40 CFR Part 63, Subpart ZZZZ, NESHAPS for Stationary Reciprocating Internal Combustion Engines	Stationary Reciprocating Internal Combustion Engines
40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters	Natural Gas/Digester Waste Gas Fired-Boiler
40 CFR Part 63 Subpart JJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	Natural Gas/Digester Waste Gas Fired-Boiler
40 CFR Part 64, Compliance Assurance Monitoring	Facility Wide
40 CFR Part 68, Risk Management Planning	Facility Wide
40 CFR Part 82, Protection of Stratospheric Ozone	Facility Wide

COMPLIANCE DETERMINATION FOR APPLICABLE FEDERAL REQUIREMENTS

Rule 200 – Permits Required:

The purpose of this Rule is to identify when District permits are issued. The provisions of this Rule shall apply to any person who builds, erects, alters, or replaces any article, machine, equipment or other contrivance which may cause the issuance of air contaminants or the use of which may eliminate or reduce or control the issuance of air contaminants.

Part 3 Requires an Authority to Construct (ATC) prior to building, erecting, altering, or replacing any article, machine, equipment, or other contrivance, which may cause the issuance or reduction of air contaminants. Exceptions to District Rule 200 are identified in District Rule 201.

Rule 201 – Sources Not Requiring Permits:

The purpose of this Rule is to provide a list of source and equipment categories which are exempt from the

requirements of District Rule 200, *Permits Required*, to obtain an ATC or PTO.

Rule 207 – Review of New or Modified Sources (as adopted on 4/20/11):

Rule 207 applies to all new stationary sources and all modifications to existing stationary sources, which, after construction or modification, emit or have the potential to emit any affected pollutants. Since the new Advanced Water Purification Facility (AWPF) resulted in an emissions increase, the project was subject to the New Source Review (NSR) process of Rule 207.

Rule 207 applies to all new stationary sources and all modifications to existing stationary sources, which after construction or modification, emit or have the potential to emit any affected pollutants.

The equipment at the facility was installed and permitted under the NSR process, as the equipment was installed after the applicability date of 1976. The facility emissions exceed the BACT and Offset thresholds of Rule 207, Part 4 *Federal Clean Air Act Requirements* and Part 5 *California Clean Air Act (CCAA) Requirements*. New projects at the facility will be subject to the BACT and Offset requirements of this Rule. During the initial permitting of its digester gas & natural gas fired engine-generator sets, as described in Equipment Description 4, 5 and 6, the facility was subject to Offsets and has since adopted to have a facility wide NO_x emissions limit. The facility is permitted with a facility-wide daily NO_x emission limit of 221 pounds per day from sources subject to offset requirements.

This application is for the initial Title V Permit issuance and will be subject to the requirements of District Rule 218 *Title V: Federal Operating Permits*.

Rule 207 – Review of New or Modified Sources (as adopted on 2/15/17):

The purpose of this Rule is to provide for the review of new and modified stationary air pollution sources to meet the New Source Review requirements under the provisions of the California Clean Air Act. This Rule provides mechanisms by which Authorities to Construct may be granted to such sources without interfering with the attainment or maintenance of California ambient air quality standards. Each project subject to New Source Review shall undergo a review under the federal requirements contained within Rule 220 and Rule 221, and a parallel review under the requirements of this Rule and the most stringent applicable provisions shall apply.

Rule 207 applies to all new stationary sources and all modifications to existing stationary sources, which after construction or modification, emit or have the potential to emit any affected pollutants.

Note that while the District Board approved the revisions of Rule 207 in February 2017 and submitted to the California Air Resources Board (CARB), CARB has not approved the revisions to Rule 207. Thus, the District will review projects subject to NSR under the April 2011 and February 2017 versions of the Rule.

This application is for the initial Title V Permit issuance and will be subject to the requirements of District Rule 218 *Title V: Federal Operating Permits*.

Rule 214 – Breakdown Conditions:

This is the implementing regulation in which the District has established the criteria for reporting

breakdowns. The requirements imposed by the SIP approved version of this rule will be included on this permit. The SIP approved version of this rule is that which was adopted on December 13, 1984.

Permit conditions will be included on the permit to comply with the requirements of Rule 214.

Rule 218 – Title V: Federal Operating Permits:

This is the implementing regulation by which the District issues the federal Operating Permits. The facility is subject to the requirements of this rule.

Pursuant to Rule 218 Section 1.2, the requirements of this Rule applies to any facility that is a major source, acid rain source, solid waste incinerator that must comply with Section 129(e) of the Act, or any other sourced deemed to require a Federal Operating Permit (FOP) by US EPA. This facility is not an acid rain source, or a solid waste incinerator nor a facility deemed require to have FOP by US EPA. Per Rule 218 Section 2.18, a facility is a major source if it exceeds the following emission thresholds:

- 100 tons per year for regulated (criteria) pollutants
- 10 tons single Hazardous Air Pollutant (HAP) per year
- 25 tons per year of any combination of HAPs per year
- If facility subject by other criteria, then, 100,000 tons per year or more of carbon dioxide equivalent (CO₂e) and 100 tons per year of a regulated (criteria) pollutant

The facility was found to have the potential to exceed 100 tons per year of carbon monoxide CO. Table 1 shows the potential to emit (PTE) emissions for the wastewater treatment and reclamation plant.

Table 1. Monterey One Water Potential to Emit Emissions.

Permit No.:	NO _x ¹ (ton/yr)	VOC (ton/yr)	CO (ton/yr)	SO _x (ton/yr)	PM (ton/yr)
Wastewater treatment and reclamation plant ²		14.27			
Advanced water purification facility ³	-	-	-	-	-
Advanced water demonstration purification facility ³	-	-	-	-	-
ICE engine-generator set #1	10.51	6.13	30.66	2.67	0.26
ICE engine-generator set #2	10.51	6.13	30.66	2.67	0.26
ICE engine-generator set #3	10.51	6.13	30.66	2.67	0.26
Digester waste gas flares	5.2	7.10	28.41	6.26	1.45
Cleaver Brooks natural gas or digester gas fired	3.59	0.20	3.02	0.02	0.27
Portable sludge	5.09	0.16	2.61	0.01	0.21

Permit No.:	NO _x ¹ (ton/yr)	VOC (ton/yr)	CO (ton/yr)	SO _x (ton/yr)	PM (ton/yr)
lagoon barge: Caterpillar diesel engine rated @ 202 HP					
Portable sewer pump: John Deere diesel engine rated @ 84 HP	2.53	0.13	0.73	0.00	0.20
Cummins emergency ICE engine-generator set rated @ 2,220 HP ⁴	8.44	0.62	1.59	0.01	0.43
Caterpillar emergency ICE engine-generator set rated @ 449 HP	2.31	0.04	0.63	0.00	0.19
Portable emergency engine-generator set: Caterpillar rated @ 1,114 HP ⁴	3.54	0.02	0.42	0.00	0.06
Aboveground ground storage tank: gasoline dispensing facility	-	0.36	-	-	-
Laboratory fume hood	-	0.20	-	-	-
Portable emergency engine-generator set: Isuzu rated @ 61 HP ⁴	0.09	0.00	0.00	0.03	0.00
Stationary emergency ICE-generator set: Doosan rated @ 65 HP ⁴	0.10	0.01	0.00	0.00	0.00
Total:	62.42	41.5	129.39	14.34	3.59

¹ The facility is permitted with a daily NO_x emission limit of 221 pounds per day (40.33 tons per year) from sources subject to offset requirements. The facility has been subject to Offsets since the initial permitting of the facility. The sources highlighted in **Bold** are the sources subject to the facility daily NO_x limit of 221 lbs/day.

² The emissions from the wastewater treatment and reclamation plant are based on the maximum peak wet weather flowrate of 75.6 MGD. The emission factors are based on SCAQMD's Joint Emission Inventory Program (JEIP) Executive Summary, Table 1-7 Basin-wide Emissions Summary by JEIP Unit Process (10/8/1993).

³ The advanced water purification facilities are not a source of criteria pollutants. The facilities are permitted for the use of ozone generators.

⁴ Emergency engine annual emissions are based on 500 hours per year based on EPA's guidance for emergency engines.

The facility has submitted a Title V permit application and will follow the requirements of Rule 218, Section 3.5 for the initial permit issuance.

Rule 308 – Title V: Federal Operating Permit Fees

The purpose of this Rule is to provide funding for the issuance and enforcement of Federal Operating

Permits, which meet the requirements of Title V of the Federal Clean Air Act and amendments (the Act). The fees required pursuant to this Rule shall be in addition to fees for District permits to operate and other fees required by other District rules.

The provisions of this Rule shall apply to any facility that is required to apply for and maintain a Federal Operating Permit pursuant to Rule 218. Appropriate conditions will be included on the Title V permit to ensure compliance with the fee provisions contained in this rule.

Rule 400 – Visible Emissions

According to District Rule 400 Section 3.1, no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Rangeland 1, or equivalent 20% opacity. This requirement will be included as a permit condition.

Pursuant to Section 3.1, no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Rangeland 1, or equivalent 20% opacity.

Permit conditions will be included on the permit to ensure compliance with this rule.

Rule 403 - Particulate Matter

The purpose of this Rule is to provide particulate matter emission limits for sources operating within the District. The provisions of this Rule shall apply to any source discharging particulate matter while operating within the Air District.

Pursuant to Section 3.1, a person shall not discharge from any source whatsoever particulate matter in excess of 0.15 grains/ft³. Below is the analysis for each set of fuel fired equipment at the facility.

Stationary Internal Combustion Engines (diesel & digester gas/natural gas) – Section 1.3.1 exempts stationary internal combustion engines from meeting the requirements of this Rule.

Digester Gas Flares – The digester gas has a PM emissions rate of 0.33 lb/hr. The equipment has a digester gas flow rate capacity of 21,540 ft³/hr. Based on source testing conducted on the facility’s digester gas engines for 2017-2019, the heat heating value of the digester gas is 690.25 Btu/ft³ and the gas Fd-Factor is 9,073 dscf/MMBtu. The calculated fuel input is 14.868 MMBtu/hr [(21,540 ft³/hr) (690 Btu/ft³) (MMBtu/1E6 Btu) = 14.868 MMBtu/hr]. Based upon the hourly PM emission rate of 0.33 lb/hr compliance is with the limit of 0.15 grains/ft³ is shown as follow:

$$\text{Exhaust flow, } \frac{\text{dscf}}{\text{hr}} = \frac{\text{fuel input rating, MMBtu}}{\text{hr}} \times \frac{\text{Digester gas Fd, dscf}}{\text{MMBtu}} \times \frac{20.9}{20.9 - O_2\%}$$

$$\text{Exhaust flow, } \frac{\text{dscf}}{\text{hr}} = \frac{14.868 \text{ MMBtu}}{\text{hr}} \times \frac{9,073.4, \text{ dscf}}{\text{MMBtu}} \times \frac{20.9}{20.9 - 3} = \frac{157,512.8 \text{ dscf}}{\text{hr}}$$

$$PM \left(\frac{\text{grains}}{\text{dscf}} \right) = \frac{0.33 \text{ lb PM}}{\text{hr}} \times \frac{7,000 \text{ gr}}{\text{lb PM}} \times \frac{\text{hr}}{157,512.8 \text{ dscf}} = \frac{0.015 \text{ grains}}{\text{dscf}}$$

Digester Gas Boiler – Based on the boiler heat input of 8.369 MMBtu/Hr, PM emission rate of 0.06 lb/hr and digester gas Fd-Factor of 9,073 dscf/MMBtu, compliance with the PM limit of 0.15 grains/ft³ is shown as follows:

$$\text{Exhaust flow, } \frac{\text{dscf}}{\text{hr}} = \frac{8.369 \text{ MMBtu}}{\text{hr}} \times \frac{9,073.4 \text{ dscf}}{\text{MMBtu}} \times \frac{20.9}{20.9 - 3} = \frac{88,661.87 \text{ dscf}}{\text{hr}}$$

$$\text{PM } \left(\frac{\text{grains}}{\text{dscf}} \right) = \frac{0.06 \text{ lb PM}}{\text{hr}} \times \frac{7,000 \text{ gr}}{\text{lb PM}} \times \frac{\text{hr}}{88,661.87 \text{ dscf}} = \frac{0.005 \text{ grains}}{\text{dscf}}$$

Portable Diesel Engines – Compliance for the diesel engines is shown using the grain loading equation found on Santa Barbara County APCD Piston IC Engine Technical Reference Document¹. The grain loading equation is shown below:

$$EC = EFPM \times CF1 \times \frac{1}{FD} \times \frac{1}{BSFC} \times \frac{1}{EAC} \times \frac{1}{CF2} \times 10^6$$

Where:

$$EC = \text{exhaust grain loading (gr/dscf)}$$

$$EFPM = \text{particulate matter emission factor (g/hp – hr)}$$

$$FD = \text{Fdfactor for diesel fuel (dscf/MMBtu)} = 9,220$$

$$BSFC(\text{diesel}) = \text{engine brake – specific fuel consumption – HHV based (Btu/bhp – hr)} = 7,100$$

$$EAC = \text{excess air correction} = [20.9/(20.9 - 15)] = 3.54$$

$$CF1 = \text{grains to pound conversion factor (7000 gr/lb)}$$

$$CF2 = \text{grams to pound conversion factor (454 g/lb)}$$

Compliance for the portable engines will be shown using the engine with the highest PM emission factor, which is the engine shown in Equipment Description 10 with a PM rate of 0.246 g/hp-hr.

$$EC = \frac{0.246 \text{ g}}{\text{bhp – hr}} \times \frac{7,000 \text{ grain}}{\text{lb}} \times \frac{\text{MMBtu}}{9,220 \text{ dscf}} \times \frac{\text{bhp – hr}}{7,100 \text{ Btu}} \times \frac{1}{3.54} \times \frac{\text{lb}}{454 \text{ g}} \times \frac{10^6 \text{ Btu}}{\text{MMBtu}} = \frac{0.016 \text{ grain}}{\text{dscf}}$$

Permit conditions are included on the permit to ensure compliance with Rule 403.

Rule 404 - Sulfur Compounds and Nitrogen Oxides

¹ “Santa Barbara County APCD Piston IC Engine Technical Reference”. Dated 11/1/2002.
<https://www.ourair.org/wp-content/uploads/sbcapcdicerefdoc.pdf>.

The purpose of this Rule is to provide limits for the emissions of sulfur compounds, nitrogen oxides and nitrogen dioxide from sources within the District. The provisions of this Rule shall apply to sources of sulfur compounds, nitrogen oxides, and nitrogen dioxide subject to District Rule 200 *Permits Required*.

Section 3.1 prohibits any single emission unit from exceeding the following concentration or amount at the point of discharge to the atmosphere:

- Sulfur compounds, calculated as sulfur dioxide, 0.2% by volume (2,000 ppmv), and
- Nitrogen oxides, calculated as nitrogen dioxide (NO₂), 140 pounds per hour.
- Nitrogen oxides, calculated as nitrogen dioxide (NO₂), flue gas having a 225 ppm NO_x by volume at 3% O₂ concentration for equipment with heat input rate of 1-1/2 billion Btu per hour (gross).

Digester Gas Engines

- Compliance with the sulfur limit is based on the engine’s SO₂ permit limit of 0.61 lb/hr and the engine rating of 825 HP. Per the engine manufacturer specifications, the engine brake-specific fuel consumption is 7,200 Btu/bhp-hr. The estimated input rating is 5.94 MMBtu/hr [(825 bhp) (7,200 Btu/bhp-hr) (MMBtu/10⁶ Btu) = 5.94 MMBtu/hr]. Compliance is shown as follows:

$$\text{Exhaust flow, } \frac{\text{dscf}}{\text{hr}} = \frac{\text{fuel input rating, MMBtu}}{\text{hr}} \times \frac{\text{Digester gas } F_d, \text{dscf}}{\text{MMBtu}} \times \frac{20.9}{20.9 - O_2\%}$$

$$\text{Exhaust flow, } \frac{\text{dscf}}{\text{hr}} = \frac{5.94 \text{ MMBtu}}{\text{hr}} \times \frac{9,073.4, \text{dscf}}{\text{MMBtu}} \times \frac{20.9}{20.9 - 15} = \frac{190,919.71 \text{ dscf}}{\text{hr}}$$

$$SO_2(\text{ppm}) = \frac{\text{lb}SO_2}{\text{hr}} \div \left(\frac{\text{DSCFM, } ft^3}{\text{hr}} \times \frac{\text{MV}_{SO_2}, \text{lb}}{\text{lbmole}} \times \frac{\text{lbmole}}{385ft^3} \right) \times 10^6$$

$$SO_2(\text{ppm}) = \frac{0.61 \text{ lb}}{\text{hr}} \div \left(\frac{190,919.71 \text{ } ft^3}{\text{hr}} \times \frac{64 \text{ lb}}{\text{lbmole}} \times \frac{\text{lbmole}}{385ft^3} \right) \times 10^6 = 19.22 \text{ ppm}$$

- The engines have a NO_x permit emission limit of 2.4 lb/hr, which is well below 140 lb/hr.
- The engines all have a heat input rating well below 1-1/2 billion Btu per hour.

Digester Gas Boiler

- Compliance with the sulfur limit is based on the boiler’s SO₂ emission rate of 0.00492 lb/hr, heat input rating of 8.369 MMBtu/hr and exhaust flow rate of 88,661.87 dscf/hr. Compliance is shown as follows:

$$SO_2(\text{ppm}) = \frac{\text{lb}SO_2}{\text{hr}} \div \left(\frac{\text{DSCFM, } ft^3}{\text{hr}} \times \frac{\text{MV}_{SO_2}, \text{lb}}{\text{lbmole}} \times \frac{\text{lbmole}}{385ft^3} \right) \times 10^6$$

$$SO_2(\text{ppm}) = \frac{0.00492 \text{ lb}}{\text{hr}} \div \left(\frac{88,661.87 \text{ } ft^3}{\text{hr}} \times \frac{64 \text{ lb}}{\text{lbmole}} \times \frac{\text{lbmole}}{385ft^3} \right) \times 10^6 = 0.33 \text{ ppm}$$

- The boiler has a NO_x emissions rate of 0.82 lb/hr, which is well below 140 lb/hr.
- The boiler’s heat input rating is well below 1-1/2 billion Btu per hour.

Stationary and Portable Diesel Engines

- Compliance with the sulfur compound limit is assured while combusting CARB diesel fuel, which limits sulfur content to 15 ppm.
- The diesel engines have a NO_x emission rate below 140 lb/hr. Compliance is shown for the diesel engine in Equipment Description 11, which has a high NO_x emission rate of 6.9 g/bhp-hr and is also the largest engine with a rating of 2,200 bhp. The NO_x emissions rate from this engine is 33.44 lb/hr [(2,200 bhp) (6.9 g/bhp-hr) (lb/454 g) = 33.44 lb NO_x/hr], which is well below 140 lb/hr.
- The diesel engines all have a heat input rating well below 1-1/2 billion Btu per hour.

Permit conditions are included on the permit to ensure compliance with Rule 404.

Rule 412 - Sulfur Content of Fuels

The purpose of this Rule is to limit emissions of sulfur oxides from combustion sources within the District. The provisions of this Rule shall apply to all combustion sources operated within the Air District unless exempted pursuant to Section 1.3 of this Rule.

Pursuant to Part 3, no person shall burn within the District any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions, or any liquid fuel or solid fuel having a sulfur content in excess of 0.5 percent by weight. Note that digester gas engines are condition to limit hydrogen sulfide content to no more than 25 grains per 100 cubic feet. Also, for the diesel fuel engines compliance with the sulfur content is assured by the use of CARB diesel fuel.

Permit conditions are included on the permit to comply with the requirements of Rule 412.

Rule 416 - Solvents

The purpose of this Rule is to limit the emissions of volatile organic compounds (VOCs) that are used as solvents. The provisions of this Rule shall apply to any equipment or process that uses solvents, unless specifically exempted.

This rule has specific emission limits and record keeping requirements for solvents. This rule applies to the Laboratory Fume Hood at this facility. Subsection 3.2 limits the uncontrolled emissions from any equipment or permit unit using, or applying any solvent to 40 pounds of VOCs per day. Historically, daily material usage records show that the facility has been operating below the 40 pound per day limit.

Permit conditions are included on the permit to comply with the requirements of Rule 416.

Rule 417 – Storage of Organic Liquids

The purpose of this Rule is to limit the emissions of organic solvent vapors from the storage of organic liquids. The provisions of this Rule shall apply to any container used to store organic liquids unless specifically exempted by this Rule.

Pursuant to Section 1.3.1, the requirements of Section 3.1 do not apply to any containers less than or equal

to 39,630 gallons in capacity. The facility's gasoline dispensing aboveground storage tank has a capacity of 6,000 gallons. Thus, the tank is exempt from requirements of Section 3.1.

Pursuant to Section 1.3.2, the requirements of Section 3.2 shall not apply to the containers listed below unless the containers are subject to the requirements of Rule 418:

- gasoline containers less than or equal to 7,575 liters (2000 gallons) capacity;
- gasoline containers used exclusively for the fueling of implements of husbandry as such vehicles are defined in Division 16 (Section 36000 et seq.) of the California Vehicle Code; and
- gasoline containers equipped with a pressure vacuum (P/V) valve which is set to within ten percent of the maximum allowable working pressure of the container. The facility's gasoline aboveground storage tank is equipped with a pressure vacuum valve that meets the requirements of CARB Executive Order (EO) VR-302, which requires a Husky 5885 P/V valve. Since the tanks is subject to the requirements of Rule 418, the exemption does not apply and the tank is subject to requirements of Section 3.2.

Pursuant to Section 3.2, no person shall place, store or hold in any above-ground container any gasoline unless such container is equipped with a vapor loss control device which complies with the requirements set forth in Section 3.1.

Pursuant to Section 3.1, no person shall place, store or hold in any container any organic liquid unless such container is designed and equipped with one of the vapor loss control devices described in Sections 3.1.1, 3.1.2, 3.1.3, or 3.1.4.

- Section 3.1.1 applies to tanks with a floating roof cover. The gasoline storage tank is not equipped with a floating roof cover.
- Section 3.1.2 applies to tanks with an internal-floating type cover. The gasoline storage tank is not equipped with an internal-floating type cover.
- Section 3.1.3 applies to tanks equipped with a vapor recovery and disposal system. While the gasoline tank is equipped with a CARB certified enhanced Phase I vapor recovery system, it is not equipped with a disposal system.
- Section 3.1.4 allows for the installation of equipment having a vapor loss control efficiency of at least 95 percent by weight, provided an application for installation of such equipment is submitted to and approved by the APCO. The tank is equipped with a CARB certified enhanced Phase I vapor recovery system under EO VR-402. Pursuant to EO VR-402 the Morrison Bros. Phase I EVR System is at least 98.0 percent efficient.

Rule 418 – Transfer of Gasoline into Stationary Storage Containers

The purpose of this Rule is to limit the emissions of vapors of gasoline from the transfer of gasoline from delivery vessels into stationary storage containers. The provisions of this Rule shall apply to any transfer of gasoline into a stationary storage container unless specifically exempted by this Rule.

Pursuant to Section 3.1, a person shall not transfer or permit the transfer of gasoline from any delivery vessel (i.e., tank truck or trailer) into any stationary storage container with a capacity of 250 gallons or more unless such container is equipped with a permanent submerged fill pipe and such transfer is made through an ARB-Certified Vapor Recovery System. The aboveground storage tank is equipped with a submerged fill pipe and a CARB certified enhanced Phase I vapor recovery system that meets the requirements of CARB Executive Order VR-402.

Pursuant to Section 3.2, a person shall not store gasoline in or otherwise use or operate any gasoline delivery vessel unless such vessel is designed and maintained to be vapor tight. The facility does not operate any gasoline delivery vessels.

Rule 426 – Applications of Nonarchitectural Coatings

This rule is applicable to all applications of Nonarchitectural coatings and limits the VOC content of these coatings. The facility is in compliance with the requirements of this rule.

An appropriate condition will be included on the permit to ensure compliance with the requirements of this rule.

Rule 1002 – Transfer of Gasoline into Vehicle Fuel Tanks

This Rule complies with California Health and Safety Code section 39666(d) by establishing control requirements for the reduction of benzene emissions from gasoline dispensing facilities. The provisions of this Rule shall apply to any new, or modified, or existing gasoline dispensing facility

Pursuant to Section 3.1, a person shall not transfer or permit the transfer of gasoline from a stationary storage container into any motor vehicle fuel tank with a capacity of greater than 5 gallons unless such transfer is made through a fill nozzle which captures the gasoline vapors displaced by the transfer and directs them through the nozzle to a CARB-certified vapor recovery system. At the time of installation there was no CARB-certified Phase II vapor recovery system. A Phase II system recovers vapors during the fueling of motor vehicles from stationary storage containers. The facility installed a pre-enhanced vapor recovery (Pre-EVR) Phase II system meeting the requirements of EO G-70-213. The executive order states the following “Extension of Effective and Operative Dates Relating to the Finding that Enhanced Vapor Recovery (EVR) Standing Loss Control, Phase I, Phase II Vapor Recovery and In-Station Diagnostics (ISD) Systems for Gasoline Dispensing Facilities (GDF) Using Aboveground Storage Tanks (AST) Are Not Commercially Available.” In July 2020 CARB approved a Phase II vapor recovery system for ASTs with non-remote dispensing (configuration of M1W’s GDF). Pursuant to Section 4.3.1 of this Rule, an existing facility is required to meet the requirements of this subsection when its annual gasoline throughput is determined to be 120,000 gallons or greater. The annual throughput for the aboveground storage tank is well below 120,000 gallons per year. For the past three years 2017, 2018 and 2019 the maximum annual throughput was 17,622 gallons. The District will continue to monitor the annual gasoline throughput.

Section 3.2 requires that the vapor recovery system is operated in accordance with the manufacturer’s specifications and is maintained to be leak free, vapor tight, and in good working order. In addition, it requires that the equipment be certified by CARB and is operated according to CARB EOs. The equipment is permitted to require physical inspection of the system components. Also, the permit requires that the equipment be operated and maintained in accordance with the most current applicable CARB executive orders.

Section 3.3 requires that the inspection and maintenance requirements of CARB’s EOs. The District permit requires that the facility follows the inspection & maintenance requirements as listed in CARB’s EOs.

Section 3.4 requires that equipment be marked as “Out of Order” when the District determines that a Phase II component contains a major defect. The District follows CARB’s list for defective equipment to

implement the requirements of this Section.

Section 3.5 requires the District to provide a “Seven-Day Notice to Correct” to the facility when a Phase II component is not in good working order, but does not contain a major defect. This requirement is part of the District inspection program for gasoline dispensing facilities.

Section 3.6 requires the posting of operating instruction for Phase II vapor recovery systems including the District’s or CARB’s telephone number for complaints. The District inspection programs includes the verification of this requirement and can provide stickers to the facilities.

Section 3.7 lists the requirements in the event of “Drive-offs” including the replacement requirements of the equipment and the documentation. The replacement equipment needs to be CARB certified. In addition to the Executive Orders, CARB maintains a list of advisories that requires Pre-EVR equipment be replaced with EVR certified equipment. The District inspection program verifies that any replacement equipment meets CARB requirements that components be certified.

Section 3.8 requires that personnel installing the vapor recovery systems to have a current International Code Council (ICC) Vapor Recovery Installation certifications and that test personnel have a current ICC Vapor Recovery Testing certification. The District permitting and inspection programs are used to ensure both installer and testing personnel have the required ICC certifications.

Pursuant to Section 4.3.1, existing gasoline dispensing facilities are required to meet the requirements of Section 3.1 when the annual gasoline throughput is determined to be 120,000 gallons or greater. Once the facility is determined to have an annual throughput of 120,000 gallons or greater, it shall secure all permits and other approvals necessary to meet requirements of Section 3.1 no later than 6 months from the first day the facility is determined to be subject to this subsection. The annual throughput for the aboveground storage tank is well below 120,000 gallons per year. For the past three years 2017, 2018 and 2019 the maximum annual throughput was 17,622 gallons. The District will continue to monitor the annual gasoline throughput.

40 CFR Part 60, Subpart A - New Source Performance Standards, General Provisions

This facility is subject to the requirements of 60.7 (notification and record keeping), 60.11 (compliance with standards and maintenance requirements), and 60.13 (monitoring requirements) because the ancillary stationary emergency diesel engine described in Equipment Description 14 is subject to 40 CFR Part 60, Subpart III.

The District asserts that compliance with the conditions on the Title V permit shall be considered compliance with the monitoring, record keeping, and reporting requirements contained in 40 CFR Parts 60.7, 60.8, 60.11, and 60.13.

Permit conditions are included on the permit to comply with the requirements of this NSPS.

40 CFR Part 60, Subpart Dc, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

The requirements of this Subpart apply to each steam generating unit for which construction, modification,

or reconstruction is commenced after June 9, 1989, and that has a maximum design heat input capacity of 100 MMBtu/hr (29 MW) or less, but greater than or equal to 10 MMBtu/hr (2.9 MW). The digester gas/natural gas-fired boiler has a heat input capacity of 8.639 MMBtu/hr and is exempt from the requirements of this Subpart.

40 CFR Part 60, Subpart IIII – NSPS for Stationary Compression Ignition Internal Combustion Engines

The requirements of this subpart apply to stationary compression ignition (CI) internal combustion engines that commence construction after July 11, 2005.

The stationary emergency diesel-powered Cummins engine, as identified in Equipment Description 11, was installed prior to the applicability date of this Subpart and is exempt from the requirements of this Subpart.

The stationary emergency diesel-powered Caterpillar engine, as identified in Equipment Description 12, was installed prior to the applicability date of this Subpart and is exempt from the requirements of this Subpart.

The ancillary stationary emergency diesel-powered Doosan engine, as identified in Equipment Description 14, is a Tier 4 Final engine rated at 65 Hp (48.5 kW) and is subject to the requirements of this Subpart. For emergency engines greater than 50 Hp but less than 3,000 Hp, Section §60.4202 of Subpart IIII refers to 40 CFR 89.112. The emission standard in 40 CFR 89.112 only goes up to the year 2007 for an engine rated equal to or greater than 37 kW and less than 75 kW. Based upon the emissions standards reported in Table 1 of CFR 89.112, the engine must meet Tier 3 Standards. The Doosan engine meets Tier 4 Final emission standards and meets the requirements of 40 CFR Part 60, Subpart IIII.

Fuel Requirements: 60.4207(a), (b), (e)

The fuel requirements of Section §60.4207(a) require that beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel. Section 80.510(b) requires non-road diesel fuel to have a sulfur content of 15 ppm maximum and a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. These requirements are subsumed by the requirement that the engine use CARB diesel fuel or CARB alternative diesel fuel. CARB diesel fuel requires that the diesel fuel have a sulfur content of 15 ppm by weight maximum per section §2281(a)(2), and limits the aromatic hydrocarbon content to 10 percent by volume or less per section §2282(a)(1)(A). CARB's Alternative Diesel Fuels Regulation requires that alternative diesel fuels have a cetane number of 47 or greater and sulfur content of 15 ppm or less per Section §2293.7(a). District Rule 1010 Air Toxic Control Measure For Stationary Compression Ignition Engines includes the requirement that owners or operators of any diesel-fueled engine shall use CARB diesel fuel or a CARB alternative diesel fuel.

Compliance Requirements: 60.4206, 60.4211(a), (c), (f), (g)

Pursuant to Section §60.4206, owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine

Pursuant to Section §60.4211(a), the emergency diesel engine is required to be operated and maintained in accordance with manufacturer specifications and procedures.

Section §60.4211(c) requires the owner to comply with the emissions standards by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications.

Pursuant to Section §60.4211(f), an emergency stationary ICE must be operated according to requirements in (f)(1)-(3) of Subpart III. Any operation except emergency operation, maintenance and testing, emergency demand response, and non-emergency operation for 50 hrs/yr, is prohibited. Note that District Rule 1010 only allows the use of the engine for emergency operation, maintenance and testing, emergency demand response. The permit will not allow for non-emergency use.

Notification, Reports, and Records Requirements: 60.4214(b)

Pursuant to Section §60.4214(b), emergency stationary engines are not required to submit an initial notification. The Doosan emergency engine is not contractually obligated to be available for emergency demand response and is not subject to the requirements of Section §60.4214(d).

Permit conditions will be included for the Doosan ancillary stationary emergency engine to ensure compliance with this Subpart.

40 CFR Part 60, Subpart JJJJ – NSPS for Stationary Spark Ignition Internal Combustion Engines

The requirements of this subpart apply to stationary spark ignition (SI) internal combustion engines that commence construction after June 12, 2006. The emergency gasoline fired water pump was installed prior to 2006 and it is exempt from the requirements of this Subpart.

The stationary digester gas/natural gas-powered engines, as identified in Equipment Description 4, 5, and 6, were installed prior to the applicability date of this Subpart and are exempt from the requirements of this Subpart.

No conditions pertaining to this Subpart will be included on the permit.

40 CFR Part 63, Subpart A – National Emission Standard for Hazardous Air Pollutants - General Provisions

Pursuant to Section §63.1(b), the provisions of this part apply to the owner or operator of any stationary source that

- i. Emits or has the potential to emit any hazardous air pollutant (HAP) listed in or pursuant to section 112(b) of the ACT; and
- ii. Is subject to any standard, limitation, prohibition, or other federally enforceable requirement established pursuant to this part.

As demonstrated below the facility is subject to the requirements 40 CFR 63, Subpart ZZZZ. Thus, the general provisions of Subpart A may be applicable.

40 CFR Part 63, Subpart VVV – NESHAPS for Publicly Owned Treatment Works

Pursuant to Section §63.1580(a), this subpart applies to any facility, if the following are all true:

- (1) Facility is a publicly owned treatment works (POTW) that includes an affected source (as defined

in Section §63.1595)

- (2) Facility is located at a Group 2 POTW which is a major source of HAP emissions, or at any Group 1 POTW regardless of whether or not it is a major source of HAP; and
- (3) The POTW is required to develop and implement a pretreatment program as defined by 40 CFR 403.8 (*Pretreatment Program Requirements: Development and Implementation by POTW*), or the POTW meets the general criteria for development and implementation of a pretreatment program.

M1W is a POTW and is an affected source as defined in Section §63.1595. Monterey One Water is considered a Group 2 POTW. M1W does not meet the criteria of a Group 1 POTW as it does not accept & provide treatment and controls as an agent for an industrial user with a waste stream regulated by another NESHAP.

M1W has a designed an average dry weather flow rate capacity of 29.6 MGD, a peak dry weather flow rate of 48.7 MGD and a peak wet weather flow rate of 75.6 MGD. Based on the design capacities and the emission factors used by the Bay Area Air Quality Management District (BAAQMD) permit handbook for “80th Percentile Emission Factors POTW Liquid Process”, M1W is not a major source of HAP. Table 2 shows the total HAP emissions from the POTW based on the maximum design flow rate. As shown in the facility emissions are below the major thresholds.

Table 2. Monterey One Water maximum annual HAP emissions.

Pollutant	Emission factor (lb/yr per MGD)	Maximum design flow rate (MGD)	Annual emissions (lb/yr)	Annual emissions (ton/yr)
1,4-Dichlorobenzene	5	75.6	378	0.19
1,1,1-Trichloroethane	110	75.6	8316	4.16
Benzene	3.7	75.6	279.72	0.14
Chloroform	40	75.6	3024	1.51
Methylene chloride	95	75.6	7182	3.59
Trichloroethylene (TCE)	11	75.6	831.6	0.42
Tetrachloroethylene	37	75.6	2797.2	1.4
Toluene	28	75.6	2116.8	1.06
Xylenes	33	75.6	2494.8	1.25
Total HAP emissions (ton/yr):				13.72

Since M1W is considered a Group 2 POTW with HAP emissions below major source thresholds, M1W is not subject to the requirements of this Subpart.

No conditions pertaining to this Subpart will be included on the permit.

40 CFR Part 63, Subpart ZZZZ – NESHAPS for Stationary Reciprocating Internal Combustion Engines

The requirements of this subpart apply to existing, new, and reconstructed stationary reciprocating internal combustion engines (RICE), at area and major sources of hazardous air pollutants (HAPs). The emergency IC engine-water pump sets are RICE units located at an area source of HAP emissions.

Pursuant to Section §636590(c), any new or reconstructed stationary RICE located at an area source must

meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart III, for compression ignition engines and no further requirements apply for such engines under this part. Thus, the ancillary stationary diesel engine identified in Equipment Description 14 is not subject to the requirement of this Subpart.

The requirements apply to the following equipment.

- The stationary digester gas/natural gas-powered engines, as identified in Equipment Description 4, 5, and 6;
- The stationary emergency diesel-powered Cummins engine, as identified in Equipment Description 11; and,
- The stationary emergency diesel-powered Caterpillar engine, as identified in Equipment Description 12.

Emission Limitations, Management Practices, and Other Requirements: §63.6603(a), Table 2d

Pursuant to Section §63.6603, the owner/operator of RICE must comply with the requirements in Table 2d to this subpart. Also, there no performance test requirements for the three engines subject to this Subpart.

Fuel Requirements (applies to the diesel powered engines): §63.6604

Pursuant to Section §63.6604(b), existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for non-road diesel fuel. The stationary emergency diesel engines are not in a demand response program and are not subject to this requirement. However, District Rule 1010 requires the use of CARB diesel fuel for these engines.

Monitoring, Installation, Collection, Operation, and Maintenance Requirements: §63.6625

Pursuant to Section §63.6625(e), the engines and the after-treatment device (if any) must be operated and maintained according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. This requirement applies to digester gas/natural gas engines and the diesel engines.

Pursuant to Section §63.6625(f), existing emergency stationary RICE located at an area source of HAP emissions. The facility is an area source of HAPs and must install a non-resettable hour meter if one is not already installed. This section applies to the emergency diesel engines under Equipment Description 11 & 12.

Pursuant to Section §63.6625(h), the stationary RICE must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply. This requirement applies to digester gas/natural gas engines and the diesel engines.

Pursuant to Section §63.6625(i), the diesel-fired engines have the option of utilizing an oil analysis program in order to extend the specified oil change requirements of Table 2d, item 1 or 4, of this subpart, as long they are performed at the same frequency as specified in Table 2d. The emergency diesel engines under

Equipment Description 11 and 12 can opt to extend the oil change requirements of Table 2d item 4, since the engines are emergency stationary CI RICE.

Pursuant to Section §63.6625(j), the digester gas/natural gas-fired engines have the option of utilizing an oil analysis program in order to extend the specified oil change requirements of Table 2d, items 5, 6, 7, 9, or 11, of this subpart, as long they are performed at the same frequency as specified in Table 2d. The digester gas/natural gas engines under Equipment Description 4, 5, and 6, do not have the option to extend the oil change requirements of Table 2d, since the oil change requirement of these engines is under Table 2d item 13.

Continuous Compliance: §63.6605, 63.6640

Pursuant to Section §63.6605(a), the facility must be in compliance with the emission limitations and operating limitations in this subpart at all times.

Pursuant to Section §63.6605(b), the facility must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

Pursuant to Section §63.6640(a), the facility must demonstrate compliance with the operating limitations of Table 2d according to the methods specified in Table 6 to this Subpart. Pursuant to Table 6, item 9, the facility must operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or develop and follow its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

Pursuant to Section §63.6640(f), the emergency stationary RICE must be operated according to requirements in (f)(1)-(4). In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in nonemergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. Note that District Rule 1010 only allows the use of the engine for emergency operation, maintenance and testing, emergency demand response. The permit will not allow for non-emergency use.

Pursuant to Section §63.6640(f)(1), there is no time limit on the use of emergency stationary ICE in emergency situations.

Pursuant to Section §60.6640(f)(2), for the purposes listed in paragraphs (f)(2)(i)-(iii), the emergency stationary RICE may be operated for a maximum of 100 hrs/calendar year. This requirement is subsumed by District Rule 1010, Section 3.2.1.3.1.1.3, which limits the use of the engine to 50 hours per year.

- (f)(2)(i) – emergency stationary RICE may be operated for maintenance checks and readiness testing.
- (f)(2)(ii) – emergency stationary RICE may be operated for emergency demand response for periods up to 100 hrs/yr. The engines will not be used for demand response.
- (f)(2)(iii) – Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

Since the District does not allow the use of emergency RICE for non-emergency operation, Sections

60.6640(f)(3) & (4) do not apply.

Recordkeeping Requirements: §63.6655

The engines must maintain records of the maintenance conducted on the RICE and records required in Table 6, item 9.

Permit conditions will be included on the permit to comply with this Subpart.

40 CFR Part 63, Subpart DDDDD – NESHAPS for Major Sources: Industrial Commercial, and Institutional Boilers and Process Heaters

The requirements of this subpart apply to industrial commercial, institutional boiler and process heaters located at major source of hazardous air pollutants (HAP). As demonstrated under the applicability of 40 CFR 63, Subpart VVV section below, M1W is not a major source of HAPs and is not subject to the requirements of this Subpart.

No conditions pertaining to this Subpart will be included on the permit.

40 CFR Part 63, Subpart JJJJJ – NESHAPS for Industrial, Commercial, and Institutional Boilers Area Sources

The requirements of this subpart apply to industrial commercial, institutional boiler and process heaters located at area sources. Section §63.11195(e) of the regulation exempts gas-fired boilers from meeting the requirements of this Subpart. The regulation defines a gas-fired boiler as a boiler that burns gaseous fuels not combined with any solid fuels and burns liquid fuel only during periods of gas curtailment (§63.11237). The digester gas/natural gas-fired boiler meets the exemption of Section §63.11195(e) and is not subject to the requirements of this Subpart.

No conditions pertaining to this Subpart will be included on the permit.

40 CFR Part 64 – Compliance Assurance Monitoring

The requirements of this subpart apply to emissions units at Title V facilities that meet all of the three criteria specified in 40 CFR Part 64 Section §64.2(a)(1-3). The three applicability criteria are:

- The emission unit must be subject to a Federal emission limitation or standard for a regulated air pollutant, other than an exempt limitation.
- The emission unit uses a control device to achieve compliance with any such emission limitation or standard.
- This emission unit has potential pre-control device emissions of the specific pollutant being controlled greater than the major facility emissions threshold for that pollutant.

The facility's equipment is not equipped with any control devices. Thus, the equipment is not subject to the Compliance Assurance Monitoring (CAM) requirements.

No conditions pertaining to this Subpart will be included on the permit.

40 CFR Part 68 – Risk Management Planning: Accidental Release Prevention (Section 112r)

The facility is subject to the requirements of this part. The facility has developed a risk management plan (RMP) for chlorine only and the latest submittal to the California Accidental Release Prevention (CalARP) Program was dated September 2019. The facility will be required to submit a revised and updated RMP by September 2024 as required by 40 CFR §68.190. An appropriate condition will be included on the permit to ensure compliance with these requirements.

40 CFR Part 82 – Protection of Stratospheric Ozone

This facility is in compliance with the requirements of this part. An appropriate condition will be included on the permit to ensure compliance with these requirements.

PERMIT SHIELD

The District rules, Rule 218, allows for creation of permit shield provisions. A permit shield is a provision stating that compliance with the conditions of the Federal Operating Permit (FOP) shall be deemed compliance with any applicable requirements as of the date of FOP issuance.

M1W is not proposing to add a permit shield.

THE FOLLOWING CONDITIONS WILL BE INCLUDED ON THE TITLE V PERMIT:

The permit conditions listed on the Title V Permit are derived from District issued Authorities to Construct or Permits to Operate. The permit also includes the regulatory basis for each permit condition. Permit conditions are divided into the following sections: federally & non-federally enforceable limits and standards, testing requirements and procedures, record keeping requirements, reporting requirements, and general conditions.

FEDERALLY & NON-FEDERALLY ENFORCEABLE EMISSION LIMITS AND STANDARDS

Please see the Proposed Title V permit for the federally & non-federally enforceable emission limits and standard.

TESTING REQUIREMENTS AND PROCEDURES

Please see the Proposed Title V permit for the testing requirements and procedures.

MONITORING AND RECORD KEEPING REQUIREMENTS

Please see the Proposed Title V permit for the monitoring and recordkeeping requirements.

REPORTING REQUIREMENTS

Please see the Proposed Title V permit for the reporting requirements.

GENERAL CONDITIONS

Please see the Proposed Title V permit for the general conditions.

**MONTEREY BAY AIR RESOURCES DISTRICT
TITLE V OPERATING PERMIT TV-122**

24580 Silver Cloud Court
Monterey, CA 93940
Telephone: (831) 647-9411

ISSUED TO:

Monterey One Water
5 Harris Court, Bldg. D
Monterey, CA 93940

PLANT SITE LOCATION:

14811 Del Monte Boulevard
Marina, California

ISSUED BY:

Richard Stedman, Air Pollution Control Officer

TBD
Effective Date

Nature of Business: Wastewater Treatment & Reclamation Plant

SIC Code: 4952 – Sewerage Systems

RESPONSIBLE OFFICIAL:

Name: Mr. Jose O. Guzman
Title: Chief Plant Operator
Phone: (831) 883-6183

ALTERNATE RESPONSIBLE OFFICIAL:

Name: Ms. Joanne Y. Le
Title: Laboratory & Environmental Services Manager
Phone: (831) 883-6131

FACILITY CONTACT PERSON:

Name: Ms. Joanne Y. Le
Title: Laboratory & Environmental Services Manager
Phone: (831) 883-6131

TABLE OF CONTENTS

FACILITY DESCRIPTION 3

EQUIPMENT DESCRIPTION..... 3

FEDERALLY & NON-FEDERALLY ENFORCEABLE EMISSION LIMITS AND STANDARDS 4

 FACILITY-WIDE REQUIREMENTS5

 SOURCE SPECIFIC APPLICABLE AND ENFORCEABLE REQUIREMENTS6

 MUNICIPAL WASTEWATER TREATMENT PLANT6

 ADVANCED WATER PURIFICATION FACILITY (AWPF)7

 ADVANCED WATER PURIFICATION DEMONSTRATION FACILITY (AWPDF)7

 INTERNAL COMBUSTION ENGINE-GENERATOR SET #18

 INTERNAL COMBUSTION ENGINE-GENERATOR SET #210

 INTERNAL COMBUSTION ENGINE-GENERATOR SET #313

 WASTE GAS FLARES15

 WASTE GAS BOILER16

 PORTABLE INTERNAL COMBUSTION ENGINE-SLUDGE LAGOON BARGE (ID #1408).....17

 PORTABLE INTERNAL COMBUSTION ENGINE-SEWER PUMP (1503).....18

 CUMMINS MODEL 1500 DFLE EMERGENCY ENGINE-GENERATOR SET.....19

 CATERPILLAR MODEL SR-4B EMERGENCY ENGINE-GENERATOR SET21

 PORTABLE EMERGENCY IC ENGINE-GENERATOR SET (CAT 3412).....22

 ABOVEGROUND GASOLINE DISPENSING FACILITY24

 LABORATORY FUME HOODS WITH VENTILATION SYSTEMS:28

 PORTABLE INTERNAL COMBUSTION ENGINE-PUMP SET:29

 EMERGENCY INTERNAL COMBUSTION ENGINE GENERATOR SET30

TESTING REQUIREMENTS AND PROCEDURES..... 31

MONITORING AND RECORD KEEPING REQUIREMENTS 32

REPORTING REQUIREMENTS 34

GENERAL CONDITIONS 35

FACILITY DESCRIPTION

Monterey One Water operates a Regional Treatment Plant (RTP) for the treatment of wastewater with an average dry weather design capacity of 29.6 million gallons per day (mgd) and a peak wet weather design capacity of 75.6 mgd. Influent is predominantly comprised of municipal wastewater, but also currently includes small amounts of urban dry weather runoff and other discrete wastewater flows. The facility is also a water reclamation facility and has constructed a new Advanced Water Purification Facility (AWPF) at the 14811 Del Monte Boulevard Facility in Marina.

The RTP operates an anaerobic digester system that collects and discharges the digester gas either to waste gas flares, boiler or cogeneration units. In addition to the digester gas combustion equipment, the facility operates several diesel engines, an aboveground storage tank (AST) gasoline dispensing facility (GDF), and a laboratory fume hood to support the RTP operations.

The M1W facility at 14811 Del Monte Boulevard is considered a federal Major Source and subject to the Title V permitting program due to the potential to emit carbon monoxide (CO). The Operating Permit includes conditions to ensure that all federal requirements are satisfied.

EQUIPMENT DESCRIPTION

MUNICIPAL WASTEWATER TREATMENT PLANT CONSISTING OF:

1. Wastewater Treatment And Reclamation Plant With An Average Dry Weather Flowrate Capacity Of 29.6 Million Gallon Per Day (MGD), A Peak Dry Weather Flowrate Of 48.7 MGD, And A Peak Wet Weather Flowrate Of 75.6 MGD. Plant Consisting Of The Following:
2. Advanced Water Purification Facility, With A Design Capacity Of 5.0 MGD. The Plant Will Consist Of The Following Structures And Facilities:
3. Advanced Water Purification Demonstration Facility, With A Design Capacity Of 14 Gallons Per Minute.
4. Internal Combustion Engine-Generator Set #1, Superior Clean Burn II Engine Rated At 825 BHp, Natural Gas And Digester Gas Fired, With A 580 KW Net Electrical Output. Equipped With Common Waste Heat Recovery Boiler System.
5. Internal Combustion Engine-Generator Set #2, Superior Clean Burn II Engine Rated At 825 BHp, Natural Gas And Digester Gas Fired, With A 580 KW Net Electrical Output. Equipped With Common Heat Recovery Boiler System.
6. Internal Combustion Engine-Generator Set #3, Superior Clean Burn II Engine Rated At 825 BHp, Natural Gas And Digester Gas Fired, With A 580 KW Net Electrical Output. Equipped With Common Heat Recovery Boiler System.
7. Digester Waste Gas Candlestick Flares:

- a. Two (2) Varec 6" Candlestick Waste Gas Flares.
 - b. One (1) Varec 3" Candlestick Waste Gas Flare.
8. Cleaver Brooks Boiler Natural Gas Or Digester Gas Fired With A Maximum Heat Input Rating Of 8.369 MMBtu/Hr. Boiler Used To Supply Hot Water To The Digester Heat Exchangers.
 9. Portable Sludge Lagoon Barge Driven By A Caterpillar Diesel Engine With A Maximum Rating Of 202 BHp @ 2,300 RPM.
 10. Portable Sewer Pump Driven By A John Deere Diesel Tier 3 Engine With A Maximum Rating Of 84 BHp @ 2,400 RPM.
 11. Cummins Model 1500 DFLE Emergency Internal Combustion Engine-Generator Set, Powered By A Cummins Diesel Engine Rated At 2,220 BHp @ 1,800 RPM, With An Onan Generator With A 1,500 KW Output.
 12. Caterpillar Model 3406 Diesel Engine, Serial #4ZR01723, 449 BHp @ 1800 RPM, With Turbocharger And Aftercooler; And Caterpillar Model SR-4B Generator, Serial #9CR00763, 300 KW Output.
 13. Portable Emergency Engine-Generator Set. Caterpillar Model 3412 DITA Diesel Engine, Serial #BLG00344, 1,114 BHP @ 1,800 RPM, With Turbocharger and Aftercooler; And Caterpillar Model SR4B Generator, Serial #6EJ01471, 750 KW Output.

14. Ancillary Equipment

Aboveground Storage Tank (AST) Gasoline Dispensing Facility (GDF) Equipped With California Air Resource Board Certified Phase I Enhanced Vapor Recovery System.

Laboratory Fume Hoods With Ventilation Systems

Portable Internal Combustion Engine-Pump Set, Powered By A Tier 4 Final Isuzu Diesel Engine Rated At 61 BHp @ 2,400 RPM.

Stationary Emergency Internal Combustion Engine-Generator Set, Powered By A Tier 4 Final Doosan Diesel Engine Rated At 65 BHp @ 1,800 RPM, 40 KW Output.

FEDERALLY & NON-FEDERALLY ENFORCEABLE EMISSION LIMITS AND STANDARDS

The reference for each requirement will be noted in [square brackets]. References that are noted as being "District-only" are not federally-enforceable requirements. All conditions with references in [square brackets] that do not contain the phrase "District-only" must be considered federally-enforceable requirements.

Requirements based on current District rules will be noted by the phrase “Rule” followed by the rule number. Requirements based on District rules approved into the State of California Implementation Plan (SIP) will be noted by the phrase “SIP Rule,” followed by the rule number as it appears in the SIP.

“District-only” requirements can be based on non-SIP District Rules and are based on the California Code of Regulations (CCR), California Air Resources Board (CARB) Executive Orders (EOs) or on the California Health and Safety Code (CA HSC).

FACILITY-WIDE REQUIREMENTS

1. The following rules and regulations listed in the table below apply on a facility-wide basis:

Applicable Requirement	Equipment Affected
SIP Rule 200, Permits Required	Facility Wide
SIP Rule 201, Sources Not Requiring Permits	Facility Wide
SIP Rule 207, Review of New or Modified Sources	Facility Wide
SIP Rule 214, Breakdown Condition	Facility Wide
SIP Rule 218, Title V: Federal Operating Permits	Facility Wide
SIP Rule 308, Title V: Federal Operating Permit Fees	Facility Wide
SIP Rule 400, Visible Emissions	Facility Wide
SIP Rule 403, Particulate Matter	Facility Wide
SIP Rule 404, Sulfur Compounds and Nitrogen Oxides	Facility Wide
SIP Rule 412, Sulfur Content Fuels	Facility Wide
SIP Rule 416, Solvents	Facility Wide
SIP Rule 426, Architectural Coatings	Facility Wide
40 CFR Part 68, Risk Management Planning	Facility Wide
40 CFR Part 82, Protection of Stratospheric Ozone	Facility Wide

District rule numbers only will be used for the most part in this permit. Rule titles are listed in the Table above.

2. The total NO_x emissions from this facility shall not exceed 221 pounds per day; excluding emissions from sources, processes, or devices that are exempted from the Offset requirements of Rule 207. The daily NO_x limit applies to the following sources: [Basis: SIP Rule 207]
 - a) The natural gas/digester gas fired cogeneration engine sets #1, #2 & #3, as described in Equipment Description 4, 5 and 6 respectively.
 - b) Digester waste gas candle stick flares, as described in Equipment Description 7.
 - c) The natural gas/digester gas fired boiler, as described in Equipment Description 8.
 - d) Portable sludge lagoon barge engine, as described in Equipment Description 9.
 - e) Portable sewer pump, as described in Equipment Description 10.
 - f) Portable emergency engine generator set, as described in Equipment Description 13.
 - g) The ancillary portable water pump, as described in Equipment Description 14.
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating

more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1, or equivalent 20% opacity. [Basis: SIP Rule 400]

4. Monterey One Water shall limit emissions of volatile organic compounds by the use of architectural coatings which comply with the requirements of District Rule 426. [Basis: SIP Rule 426]
5. Monterey One Water shall comply with the requirements of 40 CFR Part 68 - Risk Management Plans. Monterey One Water's Risk Management Plan must be revised and updated as required by 40 CFR §68.190. Monterey One Water shall certify compliance with these requirements as part of the annual compliance certification required by 40 CFR Part 70 and this permit. [Basis: 40 CFR Part 68]
6. Monterey One Water shall comply with the requirements of 40 CFR Part 82 – Protection of Stratospheric Ozone. [Basis: 40 CFR Part 82]

SOURCE SPECIFIC APPLICABLE AND ENFORCEABLE REQUIREMENTS

MUNICIPAL WASTEWATER TREATMENT PLANT:

Wastewater Treatment Plant With An Average Dry Weather Flowrate Capacity Of 29.6 MGD, A Peak Dry Weather Flowrate Of 48.7 MGD, And A Peak Wet Weather Flowrate Of 75.6 MGD. As Described In Equipment Description 1.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual volume of wastewater treated must be reported to the District, upon request. [Basis: SIP Rule 207]
2. Annual number of persons and housing units served must be reported to the District, upon request. [Basis: District-only Rule 216, Non-Federally Enforceable]
3. A tracking plan and records must be maintained by the Monterey One Water of the total number of persons and housing units it serves each year, as well as the total annual volume of wastewater treated. [Basis: District-only Rule 216, Non-Federally Enforceable]
4. Records must be maintained by the Monterey One Water of the total annual volume of wastewater treated. [Basis: SIP Rule 207]
5. Objectionable odors or emissions that constitute a public nuisance shall not be discharged from the plant. [Basis: SIP Rule 402]
6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]

ADVANCED WATER PURIFICATION FACILITY (AWPF):

Advanced Water Purification Facility (AWPF) With A Design Capacity Of 5.0 Million Gallons Per Day (MGD) Of Product Water. As Described In Equipment Description 2.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual raw water process throughput must be reported to the District upon request. [Basis: SIP Rule 207]
2. The ozone catalytic ozone destruction system shall be equipped with a functioning ozone detection system, which will shut down the ozone generator if concentrations of ozone are detected above 1 ppm. [Basis: SIP Rule 207]
3. The catalytic ozone destruction systems shall be operated at all time when the ozone generators are in operation. [Basis: SIP Rule 207]
4. The ozone concentration from the catalytic ozone destruction system shall not exceed 0.10 ppm averaged over 24-hours (24-hour average). [Basis: SIP Rule 207]
5. The results of the ozone measurements required by Condition 4 must be recorded on a log. The requested records must be provided to the District within ten (10) business days of the request. [Basis: SIP Rule 207]
6. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

ADVANCED WATER PURIFICATION DEMONSTRATION FACILITY (AWPDF):

Advanced Water Purification Demonstration Facility, With A Design Capacity Of 14 Gallons Per Minute. As Described In Equipment Description 3.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual raw water process throughput must be reported to the District upon request. [Basis: SIP Rule 207]
2. The ozone catalytic ozone destruction system shall be equipped with a functioning ozone detection system, which will shut down the ozone generator if concentrations of ozone are detected above 1 ppm. [Basis: SIP Rule 207]
3. The catalytic ozone destruction systems shall be operated at all time when the ozone generators are in operation. [Basis: SIP Rule 207]
4. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

INTERNAL COMBUSTION ENGINE-GENERATOR SET #1:

Internal Combustion Engine-Generator Set #1, Superior Clean Burn II Engine Rated At 825 BHP, Natural Gas and Digester Gas Fired, With A 580 KW Net Electrical Output. Equipped with Common Waste Heat Recovery Boiler System. As Described In Equipment Description 4.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual natural gas and digester gas fuel usage shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. The mass emission rates from the internal combustion engine exhaust discharged to the atmosphere shall not exceed the following limits. [Basis: SIP Rule 207]

Pollutant	Emission Rate	
	grams/bhp-hr	lbs/hour
NO _x	1.33	2.4
CO	3.85	7.0
NMHC	0.73	1.4
SO ₂	0.34	0.61

3. The total NO_x emissions from this facility shall not exceed 221 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emissions for this engine shall be based on the latest performance test results from Condition 6 or shall be based on the maximum hourly emission rate of 2.4 pound per hour, as specified in Condition 2. [Basis: SIP Rule 207]
4. The digester gas must not contain more than 25 grains of hydrogen sulfide per 100 cubic feet of gas. [Basis: SIP Rule 207]
5. Monterey One Water shall maintain a daily log which contains the activity/usage data, including the permit to operate (PTO) number, for each emission unit subject to the facility-wide NO_x emission limit of Condition 3. The activity/usage data includes fuel usage (natural gas, digester gas, or diesel) and hours of operation. For the emission units combusting digester gas, the log shall include the digester gas hydrogen sulfide concentration. The activity/usage data shall be used to calculate the daily NO_x emissions for the facility. The log shall be maintained on site and be made available to District staff upon request. [Basis: SIP Rule 207]
6. Monterey One Water shall conduct an annual performance test on or prior to December 31 of each year. Monterey One Water shall conduct the performance tests in accordance with EPA Method 7E or CARB Method 100 for NO_x, EPA Method 10 or CARB Method 100 for CO, EPA Method

3A or CARB Method 100 for O₂ and EPA Method 18 or EPA Method 25A for hydrocarbons. The written results of such performance tests shall be furnished within sixty (60) days of the test completion. Test protocols shall be submitted to the District no later than thirty (30) days prior to the performance tests, and written notice shall be provided to the District a minimum of ten (10) days prior to the actual date of the approved testing so that a District observer can be present. [Basis: SIP Rule 207]

The performance test shall include, but not to be limited to, the determination of the following parameters:

- a. Oxides of Nitrogen as NO₂: gm/bhp-hr, and lb/hr.
- b. Carbon Monoxide: gm/bhp-hr, and lb/hr.
- c. Methane and Non-methane Hydrocarbons: gm/bhp-hr, and lb/hr.
- d. Sulfur Dioxide: gm/bhp-hr, and lb/hr.

And the following parameters:

- e. Stack gas flow rate (SDCFM).
- f. Oxygen (%).
- g. Engine natural gas and digester gas fuel consumption.
- h. Concentration of hydrogen sulfide in digester gas fuel.

7. Operation must be conducted in compliance with all data and specifications submitted with the application. [Basis: Basis Rule 207]
8. Equipment must be properly maintained and kept in good operating condition. [Basis: SIP Rule 207]
9. Monterey One Water shall operate and maintain the engine in accordance with manufacturer specification and shall implement the following engine management practice standards: [Basis: 40 CFR 63, Subpart ZZZZ]
 - a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first;
 - b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and
 - c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

The specified oil change-out frequency above may be extended provided an optional oil analysis program is instituted with prior District approval as follows:

- i. The oil analysis program must be performed at the same frequency as the oil change-out timelines.
- ii. The oil analysis program must, at a minimum, analyze the Total Acid Number, Viscosity, and Percent Water Content of the present engine oil. Should the Total Acid Number increase no more than 3.0 milligrams of potassium hydroxide per gram from the Total Acid Number for new oil, viscosity change no more than 20 percent from the viscosity for new oil, and water content by volume be no more than 0.5 percent, the present engine oil does not need to be changed. If any of the limits are exceeded, the oil must be changed within two (2) days of receiving the results of the analysis, or before recommencing operation if the engine is out of service.
- iii. Records of the oil analysis results and oil changes shall be retained with the maintenance records as required by this permit.

10. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]

11. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

INTERNAL COMBUSTION ENGINE-GENERATOR SET #2:

Internal Combustion Engine-Generator Set #2, Superior Clean Burn II Engine Rated At 825 BHp, Natural Gas and Digester Gas Fired, With A 580 KW Net Electrical Output. Equipped with Common Heat Recovery Boiler System. As Described In Equipment Description 5.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

- 1. Annual natural gas and digester gas fuel usage shall be reported to the District, upon request. [Basis: SIP Rule 207]
- 2. The mass emission rates from the internal combustion engine exhaust discharged to the atmosphere shall not exceed the following limits. [Basis: SIP Rule 207]

Pollutant	Emission Rate	
	grams/bhp-hr	lbs/hour
NO _x	1.33	2.4
CO	3.85	7.0
NMHC	0.73	1.4
SO ₂	0.34	0.61

3. The total NO_x emissions from this facility shall not exceed 221 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emissions for this engine shall be based on the latest performance test results from Condition 6 or shall be based on the maximum hourly emission rate of 2.4 pound per hour, as specified in Condition 2. [Basis: SIP Rule 207]
4. The digester gas must not contain more than 25 grains of hydrogen sulfide per 100 cubic feet of gas. [Basis: SIP Rule 207]
5. Monterey One Water shall maintain a daily log which contains the activity/usage data, including the permit to operate (PTO) number, for each emission unit subject to the facility-wide NO_x emission limit of Condition 3. The activity/usage data includes fuel usage (natural gas, digester gas, or diesel) and hours of operation. For the emission units combusting digester gas, the log shall include the digester gas hydrogen sulfide concentration. The activity/usage data shall be used to calculate the daily NO_x emissions for the facility. The log shall be maintained on site and be made available to District staff upon request. [Basis: SIP Rule 207]
6. Monterey One Water shall conduct an annual performance test on or prior to December 31 of each year. Monterey One Water shall conduct the performance tests in accordance with EPA Method 7E or CARB Method 100 for NO_x, EPA Method 10 or CARB Method 100 for CO, EPA Method 3A or CARB Method 100 for O₂ and EPA Method 18 or EPA Method 25A for hydrocarbons. The written results of such performance tests shall be furnished within sixty (60) days of the test completion. Test protocols shall be submitted to the District no later than thirty (30) days prior to the performance tests, and written notice shall be provided to the District a minimum of ten (10) days prior to the actual date of the approved testing so that a District observer can be present. [Basis: SIP Rule 207]

The performance test shall include, but not to be limited to, the determination of the following parameters:

- a. Oxides of Nitrogen as NO₂: gm/bhp-hr, and lb/hr.
- b. Carbon Monoxide: gm/bhp-hr, and lb/hr.
- c. Methane and Non-methane Hydrocarbons: gm/bhp-hr, and lb/hr.
- d. Sulfur Dioxide: gm/bhp-hr, and lb/hr.

And the following parameters:

- e. Stack gas flow rate (SDCFM).
- f. Oxygen (%).
- g. Engine natural gas and digester gas fuel consumption.
- h. Concentration of hydrogen sulfide in digester gas fuel.

7. Operation must be conducted in compliance with all data and specifications submitted with the application. [Basis: SIP Rule 207]
8. Equipment must be properly maintained and kept in good operating condition. [Basis: SIP Rule 207]
9. Monterey One Water shall operate and maintain the engine in accordance with manufacturer specification and shall implement the following engine management practice standards: [Basis: 40 CFR 63, Subpart ZZZZ]
 - a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first;
 - b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and
 - c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

The specified oil change-out frequency above may be extended provided an optional oil analysis program is instituted with prior District approval as follows:

- i. The oil analysis program must be performed at the same frequency as the oil change-out timelines.
 - ii. The oil analysis program must, at a minimum, analyze the Total Acid Number, Viscosity, and Percent Water Content of the present engine oil. Should the Total Acid Number increase no more than 3.0 milligrams of potassium hydroxide per gram from the Total Acid Number for new oil, viscosity change no more than 20 percent from the viscosity for new oil, and water content by volume be no more than 0.5 percent, the present engine oil does not need to be changed. If any of the limits are exceeded, the oil must be changed within two (2) days of receiving the results of the analysis, or before recommencing operation if the engine is out of service.
 - iii. Records of the oil analysis results and oil changes shall be retained with the maintenance records as required by this permit.
10. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
11. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

INTERNAL COMBUSTION ENGINE-GENERATOR SET #3:

Internal Combustion Engine-Generator Set #3, Superior Clean Burn II Engine Rated At 825 BHp, Natural Gas and Digester Gas Fired, With A 580 KW Net Electrical Output. Equipped with Common Heat Recovery Boiler System. As Described In Equipment Description 6.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual natural gas and digester gas fuel usage shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. The mass emission rates from the internal combustion engine exhaust discharged to the atmosphere shall not exceed the following limits. [Basis: SIP Rule 207]

Pollutant	Emission Rate	
	grams/bhp-hr	lbs/hour
NO _x	1.33	2.4
CO	3.85	7.0
NMHC	0.73	1.4
SO ₂	0.34	0.61

3. The total NO_x emissions from this facility shall not exceed 221 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emissions for this engine shall be based on the latest performance test results from Condition 6 or shall be based on the maximum hourly emission rate of 2.4 pound per hour, as specified in Condition 2. [Basis: SIP Rule 207]
4. The digester gas must not contain more than 25 grains of hydrogen sulfide per 100 cubic feet of gas. [Basis: SIP Rule 207]
5. Monterey One Water shall maintain a daily log which contains the activity/usage data, including the permit to operate (PTO) number, for each emission unit subject to the facility-wide NO_x emission limit of Condition 3. The activity/usage data includes fuel usage (natural gas, digester gas, or diesel) and hours of operation. For the emission units combusting digester gas, the log shall include the digester gas hydrogen sulfide concentration. The activity/usage data shall be used to calculate the daily NO_x emissions for the facility. The log shall be maintained on site and be made available to District staff upon request. [Basis: SIP Rule 207]
6. Monterey One Water shall conduct an annual performance test on or prior to December 31 of each year. Monterey One Water shall conduct the performance tests in accordance with EPA Method 7E or CARB Method 100 for NO_x, EPA Method 10 or CARB Method 100 for CO, EPA Method 3A or CARB Method 100 for O₂ and EPA Method 18 or EPA Method 25A for hydrocarbons. The written results of such performance tests shall be furnished within sixty (60) days of the test

completion. Test protocols shall be submitted to the District no later than thirty (30) days prior to the performance tests, and written notice shall be provided to the District a minimum of ten (10) days prior to the actual date of the approved testing so that a District observer can be present. [Basis: SIP Rule 207]

The performance test shall include, but not to be limited to, the determination of the following parameters:

- a. Oxides of Nitrogen as NO₂: gm/bhp-hr, and lb/hr.
- b. Carbon Monoxide: gm/bhp-hr, and lb/hr.
- c. Methane and Non-methane Hydrocarbons: gm/bhp-hr, and lb/hr.
- d. Sulfur Dioxide: gm/bhp-hr, and lb/hr.

And the following parameters:

- e. Stack gas flow rate (SDCFM).
- f. Oxygen (%).
- g. Engine natural gas and digester gas fuel consumption.
- h. Concentration of hydrogen sulfide in digester gas fuel.

7. Operation must be conducted in compliance with all data and specifications submitted with the application. [Basis: SIP Rule 207]
8. Equipment must be properly maintained and kept in good operating condition. [Basis: SIP Rule 207]
9. Monterey One Water shall operate and maintain the engine in accordance with manufacturer specification and shall implement the following engine management practice standards: [Basis: 40 CFR 63, Subpart ZZZZ]
 - a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first;
 - b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and
 - c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

The specified oil change-out frequency above may be extended provided an optional oil analysis program is instituted with prior District approval as follows:

- i. The oil analysis program must be performed at the same frequency as the oil change-out timelines.

- ii. The oil analysis program must, at a minimum, analyze the Total Acid Number, Viscosity, and Percent Water Content of the present engine oil. Should the Total Acid Number increase no more than 3.0 milligrams of potassium hydroxide per gram from the Total Acid Number for new oil, viscosity change no more than 20 percent from the viscosity for new oil, and water content by volume be no more than 0.5 percent, the present engine oil does not need to be changed. If any of the limits are exceeded, the oil must be changed within two (2) days of receiving the results of the analysis, or before recommencing operation if the engine is out of service.
 - iii. Records of the oil analysis results and oil changes shall be retained with the maintenance records as required by this permit.
10. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
11. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

WASTE GAS FLARES:

Digester Waste Gas Candlestick Flares, As Described In Equipment Description 7:

- Two (2) Varec 6" Waste Gas Flares. Both Units Model WG244WL61922017PP.
- One (1) Varec 3" Waste Gas Flare.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. The annual amount of digester gas consumed by the flares shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. The H₂S concentration in the digester gas stream vented to the waste gas flares shall not exceed 25 grains of hydrogen sulfide per 100 cubic feet of gas, or 397 ppmv. [Basis: SIP Rule 207]
3. The H₂S concentration in the digester gas shall be measured on a daily basis and recorded in a log kept on-site and made available to District staff upon request. [Basis: SIP Rule 207]
4. The total NO_x emissions from this facility shall not exceed 221 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emissions from the flares shall be based on the emissions factor of 54.81 pounds NO_x per million cubic feet of digester gas combusted (lb NO_x/MMft³). [Basis: SIP Rule 207]
5. Monterey One Water shall maintain a daily log which contains the activity/usage data, including the permit to operate (PTO) number, for each emission unit subject to the facility-wide NO_x

emission limit of Condition 4. The activity/usage data includes, fuel usage (natural gas, digester gas, or diesel) and hours of operation. For the emission units combusting digester gas, the log shall include the digester gas hydrogen sulfide concentration. The activity/usage data shall be used to calculate the daily NO_x emissions for the facility. The log shall be maintained on site, and be made available to District staff upon request. [Basis: SIP Rule 207]

6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
7. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

WASTE GAS BOILER:

Cleaver Brooks Boiler Natural Gas or Digester Gas Fired with A Maximum Heat Input Rating Of 8.369 MMBtu/Hr. Boiler Used to Supply Hot Water to The Digester Heat Exchangers. As Described In Equipment Description 8.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual natural gas and digester gas fuel usage shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. The H₂S concentration in the digester gas stream vented to the waste gas boiler shall not exceed 25 grains of hydrogen sulfide per 100 cubic feet of gas, or equivalent 397 ppmv. [Basis: SIP Rule 207]
3. The H₂S concentration in the digester gas shall be measured on a daily basis. [Basis: SIP Rule 207]
4. The total NO_x emissions from this facility shall not exceed 221 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emissions to be used for the equipment under this permit is 0.82 pounds per hour. [Basis: SIP Rule 207]
5. Monterey One Water shall maintain a daily log which contains the activity/usage data, including the permit to operate (PTO) number, for each emission unit subject to the facility-wide NO_x emission limit of Condition 4. The activity/usage data includes, fuel usage (natural gas, digester gas, or diesel) and hours of operation. For the emission units combusting digester gas, the log shall include the digester gas hydrogen sulfide concentration. The activity/usage data shall be used to calculate the daily NO_x emissions for the facility. The log shall be maintained on site, and be made available to District staff upon request. [Basis: SIP Rule 207]
6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]

7. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

PORTABLE INTERNAL COMBUSTION ENGINE-SLUDGE LAGOON BARGE (ID #1408):

Portable Sludge Lagoon Barge Driven by A Caterpillar Diesel Engine with A Maximum Rating Of 202 BHp @ 2,300 RPM. As Described In Equipment Description 9.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual engine hours of operation and diesel fuel usage shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. The engine shall be in compliance with the emission standards, as specified in the California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM) For Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower And Greater. [Basis: District-only, 17 CCR Section §93116, Non-Federally Enforceable]
3. The total oxides of nitrogen emissions, as NO₂, from all equipment operating at the Monterey One Water Regional Wastewater Treatment Plant shall not exceed 221 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emissions for the equipment under this permit shall be based on the engine's NO_x emissions factor of 2.61 grams per brake horse power-hour or 1.16 pounds per hour. [Basis: SIP Rule 207]
4. This Tier 3 engine, model year 2007, which is part of Monterey One Water's large fleet, as designated as of June 30, 2019, may not operate in California on or after January 1, 2025 unless a complete application is submitted to the District requesting to designate the engine as low-use or emergency use, and is received no later than December 31, 2024. [Basis: District-only, 17 CCR Section §93116, Non-Federally Enforceable]
5. Upon sale of this engine in California, Monterey One Water must provide the following disclosure in writing to the buyer as part of the sales transaction: "When operated in California, any portable diesel engine may be subject to the California Air Resources Board Airborne Toxic Control Measure For Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower And Greater. Therefore, it could be subject to retrofit or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board website at <http://www.arb.ca.gov/portable/portable.htm>." [Basis: District-only, 17 CCR 93116.3(f), Non-Federally Enforceable]
6. As of January 1, 2025, this Tier 3 engine Model Year 2007 shall not be sold or offered for sale to an end user in California. [Basis: District-only, 17 CCR Section §93116(e)(2), Non-Federally Enforceable]
7. The engine shall not reside or operate at a single site within a facility greater than 12 consecutive months, excluding storage periods. [Basis: District-only, Title 17 CCR 93116.2, Non-Federally Enforceable]

8. The engine shall be equipped with a non-resettable meter which registers the total hours operated, and shall be maintained in good working condition. [Basis: District-only, Title 17 CCR 93116.4, Non-Federally Enforceable]
9. The diesel fuel consumed shall meet California Air Resources Board (CARB) specifications, or the alternative diesel fuel specifications as defined in the Portable ATCM for engines rated at 50 horsepower and greater. [Basis: District-only, Title 17 CCR 93116.3(a), Non-Federally Enforceable]
10. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
11. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

PORTABLE INTERNAL COMBUSTION ENGINE-SEWER PUMP (1503):

Portable Sewer Pump Driven by A John Deere Diesel Tier 3 Engine with A Maximum Rating Of 84 BHp @ 2,400 RPM. As Described In Equipment Description 10.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual engine diesel fuel usage and operating hours shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. The following process parameters shall be recorded in a log maintained in a readily accessible location: [Basis: SIP Rule 207]
 - a. Date of operation;
 - b. Operating location;
 - c. Start and finish engine hour meter readings;
 - d. Hours of operation (hours/day); and,
 - e. Monthly diesel fuel usage (gallons/month). If no fuel records available, fuel used can be based on a maximum fuel usage of 4.52 gallons per hour for this engine.
3. The total oxides of nitrogen emissions, as NO₂, from all equipment operating at the Monterey One Water Regional Wastewater Treatment Plant shall not exceed 221 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emissions for the equipment under this permit shall be based on the engine's NO_x emissions factor of 3.12 grams per brake horsepower-hour or 0.58 pounds per hour. [Basis: SIP Rule 207]
4. The engine shall not reside or operate at a single site within a facility greater than 12 consecutive months, excluding storage periods. [Basis: District-only, Title 17 CCR 93116.2, Non-Federally Enforceable]

5. This Tier 3 engine, model year 2009, which is part of Monterey One Water large fleet, as designated as of June 30, 2019, may not operate in California on or after January 1, 2027 unless a complete application is submitted to the District requesting to designate the engine as low-use or emergency use, and is received no later than December 31, 2026. [Basis: District-only, Title 17 CCR Section §93116.3(c), Non-Federally Enforceable]
6. Upon sale of this engine in California, Monterey One Water must provide the following disclosure in writing to the buyer as part of the sales transaction: “When operated in California, any portable diesel engine may be subject to the California Air Resources Board Airborne Toxic Control Measure for Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower And Greater. Therefore, it could be subject to retrofit or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board website at <http://www.arb.ca.gov/portable/portable.htm>.” [Basis: District-only, Title 17 CCR 93116.3(f), Non-Federally Enforceable]
7. As of January 1, 2029, this Tier 3 engine Model Year 2009 shall not be sold or offered for sale to an end user in California. [Basis: District-only, Title 17 CCR Section §93116(e), Non-Federally Enforceable]
8. The engine shall be equipped with a non-resettable meter which registers the total hours operated, and shall be maintained in good working condition. [Basis: District-only, Title 17 CCR 93116.4(b)(2)(A), Non-Federally Enforceable]
9. The diesel fuel consumed shall meet California Air Resources Board (CARB) specifications, or the alternative diesel fuel specifications as defined in the Portable ATCM for engines rated at 50 horsepower and greater. [Basis: District-only, Title 17 CCR 93116.3(a), Non-Federally Enforceable]
10. This equipment shall not be operated within 1,000 feet from the outer boundary of a school, kindergarten through grade 12, without first notifying the District, obtaining separate permission from operation at such location, and complying with the public notice requirements if subject. [Basis: District-only, Title 17 CCR 93116, Non-Federally Enforceable]
11. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
12. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

CUMMINS MODEL 1500 DFLE EMERGENCY ENGINE-GENERATOR SET:

Cummins Model 1500 DFLE Emergency Internal Combustion Engine-Generator Set, Powered by A Cummins Diesel Engine Rated At 2,220 BHp @ 1,800 RPM, With An Onan Generator With A 1,500 KW Output. As Described In Equipment Description 11.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual diesel fuel usage and operating hours, which include total run and test/exercise time periods, shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. The equipment shall be operated less than 50 hours per year for test and exercise periods. [Basis: SIP Rule 207 and 40 CFR 63, Subpart ZZZZ]
3. Except for test and exercise purposes, the equipment shall only be operated when the local utility powerline service fails. [Basis: SIP Rule 207]
4. Total engine fuel usage and operating hours shall be recorded in a monthly log maintained on the premises. [Basis: SIP Rule 207]
5. The engine shall be equipped with a meter which registers the total hours operated, and shall be maintained in good working condition. [Basis: 40 CFR 63, Subpart ZZZZ, Section §63.6625(f)]
6. The sulfur content of any diesel fuel consumed shall meet California Air Resources Board (CARB) specifications, or the alternative diesel fuel specifications as defined in District Rule 1010. [Basis: District-only Rule 1010, Non-Federally Enforceable]
7. Monterey One Water shall operate and maintain the diesel fired emergency generator set in accordance with manufacturer specifications and shall implement the following engine management practice standards. [Basis: 40 CFR Part 63, Subpart ZZZZ]
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
 - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and,
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The specified oil change-out frequency above may be extended provided an optional oil analysis program is instituted with prior District approval as follows:

- i. The oil analysis program must be performed at the same frequency as the oil change-out timelines.
- ii. The oil analysis program must, at a minimum, analyze the Total Base Number, Viscosity, and Percent Water Content of the present engine oil. Should the Total Base Number remain 30 percent or more of the Total Base Number for new oil, viscosity change no more than 20 percent from the viscosity for new oil, and water content by volume be no more than 0.5 percent, the present engine oil does not need to be changed. If any of the limits are exceeded, the oil must be changed within two (2) working days of receiving the results of the analysis, or before recommencing operation if the engine is out of service.
- iii. Records of the oil analysis results and oil changes shall be retained with the

maintenance records as required by this permit.

8. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
9. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

CATERPILLAR MODEL SR-4B EMERGENCY ENGINE-GENERATOR SET:

Caterpillar Model 3406 Diesel Engine, Serial #4ZR01723, 449 BHp @ 1800 RPM, With Turbocharger And Aftercooler; And Caterpillar Model SR-4B Generator, Serial #9CR00763, 300 KW Output.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual diesel fuel usage and operating hours, which include total run and test/exercise time periods, shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. The equipment shall be operated less than 20 hours per year for test and exercise periods. [Basis: SIP Rule 207 and 40 CFR 63, Subpart ZZZZ]
3. Except for test and exercise purposes, the equipment shall only be operated when the local utility powerline service fails. [Basis: SIP Rule 207]
4. Total engine fuel usage and operating hours shall be recorded in a monthly log maintained on the premises. [Basis: SIP Rule 207]
5. The engine shall be equipped with a meter which registers the total hours operated, and shall be maintained in good working condition. [Basis: 40 CFR 63, Subpart ZZZZ, Section §63.6625(f)]
6. The sulfur content of any diesel fuel consumed shall meet California Air Resources Board (CARB) specifications, or the alternative diesel fuel specifications as defined in District Rule 1010. [Basis: District-only Rule 1010, Non-Federally Enforceable]
7. Monterey One Water shall operate and maintain the diesel fired emergency generator set in accordance with manufacturer specifications and shall implement the following engine management practice standards. [40 CFR Part 63, Subpart ZZZZ]
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
 - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and,
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The specified oil change-out frequency above may be extended provided an optional oil

analysis program is instituted with prior District approval as follows:

- i. The oil analysis program must be performed at the same frequency as the oil change-out timelines.
 - ii. The oil analysis program must, at a minimum, analyze the Total Base Number, Viscosity, and Percent Water Content of the present engine oil. Should the Total Base Number remain 30 percent or more of the Total Base Number for new oil, viscosity change no more than 20 percent from the viscosity for new oil, and water content by volume be no more than 0.5 percent, the present engine oil does not need to be changed. If any of the limits are exceeded, the oil must be changed within two (2) working days of receiving the results of the analysis, or before recommencing operation if the engine is out of service.
 - iii. Records of the oil analysis results and oil changes shall be retained with the maintenance records as required by this permit.
8. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
9. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

PORTABLE EMERGENCY IC ENGINE-GENERATOR SET (CAT 3412):

Portable Emergency Engine-Generator Set. Caterpillar Model 3412 DITA Diesel Engine, Serial #BLG00344, 1,114 BHP @ 1,800 RPM, With Turbocharger and Aftercooler; And Caterpillar Model SR4B Generator, Serial #6EJ01471, 750 KW Output. As Described In Equipment Description 13.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual diesel fuel usage, total emergency use and emergency event hours of operation, and maintenance and testing hours of operation, shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. Monterey One Water shall maintain a daily operations log. The log at a minimum shall contain the following process parameters, and the log shall be maintained in a readily accessible location: [Basis: SIP Rule 207]
 - a. Date of operation.
 - b. Operating location;
 - c. Start and finish engine hour meter readings;
 - d. Hours of operating (hours/day);
 - e. Indicate the type of operational use (maintenance and testing, emergency, or emergency event); and,
 - f. For emergency operations, as defined in Condition 5, specify the nature of the emergency

use.

3. If the operating location is within 1,000 feet from the outer boundary of a school site, kindergarten through grade 12, the log shall also include the following information: [Basis: District-only, 17 CCR 93116.4, Non-Federally Enforceable]
 - a. Name of school; and,
 - b. School address.
4. The equipment shall be operated less than 60 hours per year for maintenance and testing purposes. [Basis: SIP Rule 101, Section 2.10 and SIP Rule 207]
5. Except for test and maintenance purposes, this equipment shall only be operated during an emergency or an emergency event. [Basis: District-only, 17 CCR 93116, Non-Federally Enforceable]

An **emergency** is defined as providing electrical power or mechanical work during any of the following events and subject to the following conditions:

- a. The failure or loss of all or part of normal electrical power service or normal natural gas supply to the facility, or the failure of a facility's internal power distribution system:
 - i. Which is caused by any reason other than the enforcement of a contractual obligation the owner or operator has with a third party or any other party; and,
 - ii. Which is demonstrated by the owner or operator to the District to have been beyond the reasonable control of the owner or operator.
- b. The pumping of water or sewage to prevent or mitigate a flood or sewage overflow;
- c. The pumping of water for fire suppression or protection;
- d. The pumping of water to maintain pressure in the water distribution system of a pipe break or high demand on water supply due to high use of water for fire suppression;
- e. The breakdown of electrical-powered pumping equipment at sewage treatment facilities or water delivery facilities; and,
- f. The training of personnel in the use of portable equipment for emergency purposes.

An **emergency event** is defined as a situation arising from a sudden and reasonably unforeseen natural disaster such as an earthquake, flood, fire, or other unforeseen event that requires the use of portable engines to alleviate the threat to public health and safety.

6. If the designated emergency-use engine is used in a non-emergency application, the engine becomes immediately subject to the fleet requirements of the Airborne Toxic Control Measure (ATCM) For Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower And Greater. Monterey One Water must submit a request to convert the engine to prime-use within thirty (30) days subsequent to the date the engine was used in a non-emergency application. [Basis: District-only, 17 CCR 93116, Non-Federally Enforceable]
7. If the cumulative annual operating hours exceed 60 hours per year at all locations within 1,000 feet from the outer boundary of a single school site, kindergarten through grade 12, Monterey One

Water must notify the District and comply with Health and Safety Code Sections 42301.6 through 42301.9, which include public notice requirements. [Basis: District-only, CA HSC §42301.6-42301.9, Non-Federally Enforceable]

8. The engine shall not reside or operate at a single site within a facility greater than 12 consecutive months, excluding storage periods. [Basis: District-only, 17 CCR 93116.2, Non-Federally Enforceable]
9. The engine shall be equipped with a non-resettable meter which registers the total hours operated, and shall be maintained in good working condition. [Basis: District-only, 17 CCR 93116.4(b), Non-Federally Enforceable]
10. The diesel fuel consumed shall meet California Air Resources Board (CARB) specifications, or the alternative diesel fuel specifications as defined in 17 CCR 93116. [Basis: District-only, 17 CCR 93116.3(a), Non-Federally Enforceable]
11. As of January 1, 2023, this engine shall not be sold or offered for sale to an end user in California. [Basis: District-only, 17 CCR 93116.3(e)(2), Non-Federally Enforceable]
12. Upon sale of this engine in California, Monterey One Water must provide the following disclosure in writing to the buyer as part of the sales transaction: “When operated in California, any portable diesel engine may be subject to the California Air Resources Board Airborne Toxic Control Measure For Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower And Greater. It therefore could be subject to retrofit or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board website at <http://www.arb.ca.gov/portable/portable.htm>.” [Basis: 17 CCR 93116(f), Non-Federally Enforceable]
13. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1 or equivalent 20% opacity. [Basis: SIP Rule 400]
14. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

ABOVEGROUND GASOLINE DISPENSING FACILITY:

Aboveground Storage Tank (AST) Gasoline Dispensing Facility (GDF) Equipped with California Air Resource Board Certified Phase I Enhanced Vapor Recovery System. As Described In The Ancillary Equipment Description.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Gasoline Throughput Limits
 - a. The annual gasoline throughput shall not equal or exceed 120,000 gallons per year.

2. General Conditions:

- a. Monterey One Water's gasoline storage tank shall be equipped with a permanent submerged fill pipe. [Basis: SIP Rule 418]
- b. Monterey One Water's gasoline storage tank shall operate a Phase I vapor recovery system during the filling of the storage tank at the gasoline dispensing facility which has been certified by the California Air Resources Board. [Basis: SIP Rule 417 and SIP Rule 418]
- c. Annual gasoline throughput shall be reported to the District, upon request. [Basis: SIP Rule 418]
- d. If the annual gasoline throughput of the ancillary aboveground gasoline storage tank, as identified in Equipment Description 14, exceeds 120,000 gallons per year, as determined by the anniversary date of the Permit to Operate, Monterey One Water shall: [Basis: SIP Rule 1002]
 - i. Secure all permits and other approvals necessary for the installation of a Phase II vapor recovery system, no later than 6 months from the first day of exceeding the throughput; and,
 - ii. Complete the installation of the Phase II vapor recovery system no later than one year after exceeding the throughput.
- e. The following documents shall be maintained on-site or be made readily available to the District upon request: [Basis: SIP Rule 418 and SIP Rule 1002]
 - i. California Air Resources Board (CARB) Executive Orders VR-302 & VR-402, Latest Editions.
 - ii. CARB Approved Installation, Operation, & Maintenance Manuals (IOMs) for CARB Executive Orders VR-302 & VR-402, Latest Edition.

These documents may be obtained from the following websites:

<https://ww2.arb.ca.gov/executive-order-vr-302>
<https://ww2.arb.ca.gov/resources/documents/vapor-recovery-phase-i-evr-ast-executive-orders>

3. Modifications: [Basis: SIP Rule 1002]

Any modification of the listed equipment, as defined in District Rule 1002, will require the submittal of a permit application for the equipment changes and District approval prior to commencement of such changes.

4. Maintenance/Replacement/Installation/Testing: [Basis: SIP Rule 1002 & District-only, CARB EO VR-402 and EO G-70-213]

- a. The EVR Phase I and Pre-EVR Phase II systems, including all associated plumbing, shall be installed, maintained, operated and tested as certified in accordance with the most current CARB Executive Order and CARB approved IOMs, any applicable CARB Approval Letters, and component manufacturer's procedures.
 - b. Only personnel certified appropriately by the manufacturer and approved by the District shall perform installation and/or replacement or testing of EVR Phase I and Pre-EVR Phase II vapor recovery system components.
5. Physical Inspection Requirements: [Basis: District-only, CARB EO VR-402 and EO G-70-213, Non-Federally Enforceable]

All components found not in good operating condition during the following periodic inspections listed below shall be replaced, repaired, or removed from service.

Annual Inspection

SLC & EVR Phase I Vapor Recovery Components – all SLC & EVR Phase I components are to be inspected in accordance with the Attached Table 1 – Morrison Brothers EVR Phase I Inspections, pursuant to the applicable CARB IOM Manual. All findings shall be recorded in the Morrison Brothers EVR Phase I “GDF Maintenance Record”.

6. Maintenance and Test Records: [Basis: SIP Rule 1002 & District-only, CARB EO VR-402 and EO G-70-213]

Monterey One Water shall maintain maintenance records and installation checklists of all inspections, maintenance, repairs and tests.

7. Drive-Off Procedures: [Basis: SIP Rule 1002]

In the event of drive-off, existing hanging hardware must be visually inspected and functionally tested in accordance with CARB procedure TP-206.3 and applicable IOM.

8. Annual Test Requirement [Basis: District-only, CARB EO VR-402, Non-Federally Enforceable]

The following test shall be conducted once every calendar year and pass the applicable requirements in accordance with CARB Vapor Recovery Certification Procedure CP-201 “Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities”:

- a. Test Method TP-206.3 “Determination of Static Pressure Performance of Vapor Recovery Systems at Gasoline Dispensing Facilities with Aboveground Storage Tanks”

CARB Vapor Recovery Certification Procedure CP-201 “Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities” is available at the following website:

<http://www.arb.ca.gov/testmeth/vol2/currentprocedures.htm>

CARB test methods are available at the following websites:

<http://www.arb.ca.gov/vapor/eo.htm>

<http://www.arb.ca.gov/testmeth/vol2/currentprocedures.htm>

9. Notification and Reports [Basis: District-only, CARB EO VR-402, Non-Federally Enforceable]

Notification and reports of tests performed in accordance with Condition 7 above shall be provided to the District as follows:

a. Notification of Test Schedule

Prior to conducting any test required by this permit, the District Compliance Division shall be notified of the time and date of the scheduled test. This notification shall be made by e-mail or by fax to (831) 647-9126, and shall include the following information:

- Name, address and permit number of station;
- Test(s) to be performed;
- Name of contractor performing tests; and,
- Date and time of scheduled tests.

b. 24 Hour Notification of Test Failures

No more than 24 hours following the cessation of any testing required by this permit, the District Compliance Division shall be notified of any test(s) the station could not pass by the end of the day's testing. This notification shall be made by e-mail at VRTesting@mbard.org on a "*24-Hour Notification of Vapor Recovery Test Failure*" form.

c. Submittal of Test Report

No more than 30 calendar days following the completion of any testing required by this permit, a written report of the test results shall be submitted to the District. Test reports shall be in the forms specified by the California Air Resources Board and shall be transmitted to the District by e-mail at VRTesting@mbard.org. These test reports shall be transmitted under cover of a completed "Transmittal of Vapor Recovery Test Report" form.

District forms are available at the following website:

<http://www.mbard.org>

10. General System Requirements: [Basis: SIP Rule 1002 and District-only CARB EO G-70-213]

- a. The coaxial hose must be in a high-retractor configuration such that:

- i. A liquid trap does not occur in the vapor path between the highest point in the vapor return path and storage tank vapor head space during fuel dispensing; and,
 - ii. The hose length does not allow for a liquid trap to occur in the vapor path between the vehicle fill pipe and the highest point in the vapor return path during fuel dispensing, unless the coaxial hose is equipped with a liquid removal system located such that the liquid pickup is in the bottom of the hose loop during vehicle fuelings.
- b. The gasoline pumping rate shall not exceed 10 gallons per minute when the nozzle trigger is in the full open position.

LABORATORY FUME HOODS WITH VENTILATION SYSTEMS:

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. The annual usage of all chemicals within the areas served by the listed ventilation systems shall be reported to the District, upon request. This report shall include an estimate of the amounts of each chemical discharged to the atmosphere. [Basis: SIP Rule 207]
2. Monterey One Water shall maintain a list of all chemicals used in the fume hoods, and shall be responsible for keeping the list accurate by adding and deleting chemicals as necessary. The list shall be made available to District staff upon request. [Basis: SIP Rule 207]
3. Monterey One Water shall maintain on-site a monthly log of all solvent-containing materials used in this operation. Records shall be retained for at least five years in a readily accessible location, and made available to District staff upon request. [Basis: SIP Rule 207]
4. Usage of n-hexane and other volatile organic compounds shall not exceed a total of 3 liters per month. [Basis: SIP Rule 207]
5. The volatile organic compound emissions discharged into the atmosphere shall be less than 1.1 pounds per day from this operation. This condition supersedes condition 4 if a daily log is maintained to substantiate the daily emissions. [Basis: SIP Rule 207]
6. The ventilation system shall be operated at all times when the equipment served is in use. [Basis: SIP Rule 207]
7. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
8. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

PORTABLE INTERNAL COMBUSTION ENGINE-PUMP SET:

Portable Internal Combustion Engine-Pump Set, Powered by A Tier 4 Final Isuzu Diesel Engine Rated At 61 BHp @ 2,400 RPM. As Described In The Ancillary Equipment Description.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Total annual engine operating hours, emergency use hours of operation, and diesel fuel usage shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. The equipment shall be operated less than 12 hours per day when operating at the Regional Treatment Plant RTP located at 14811 Del Monte Blvd. in Marina, CA. [Basis: SIP Rule 207]
3. When the engine operates at Monterey One Water's RTP, the NO_x daily emissions for the facility shall not exceed 221 pounds per day (lbs/day); excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emission rate to be used for this engine is 0.36 lbs/day. [Basis: SIP Rule 207, Offset Requirements]
4. The following process parameters shall be recorded in a log maintained in a readily accessible location: [Basis: SIP Rule 207]
 - a. Date of operation;
 - b. Operating location;
 - c. Start and finish engine hour meter readings;
 - d. Hours of operation (hours/day);
 - e. Indicate the type of operational use (prime or emergency).

If the operating location is within 1,000 feet from the outer boundary of a school site, kindergarten through grade 12, the log shall also include the following information: [Basis: District-only, 17 CCR 93116.4, Non-Federally Enforceable]

- f. Name of school; and,
 - g. School address.
5. Upon sale of this engine in California, Monterey One Water must provide the following disclosure in writing to the buyer as part of the sales transaction: "When operated in California, any portable diesel engine may be subject to the California Air Resources Board Airborne Toxic Control Measure For Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower And Greater. Therefore, it could be subject to retrofit or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board website at <http://www.arb.ca.gov/portable/portable.htm>." [Basis: District-only, 17 CCR 93116.3(f), Non-Federally Enforceable]
6. The engine shall not reside or operate at a single site within a facility greater than 12 consecutive

- months, excluding storage periods. [Basis: District-only, 17 CCR 93116.2, Non-Federally Enforceable]
7. The diesel fuel consumed shall meet California Air Resources Board (CARB) specifications, or the alternative diesel fuel specifications as defined in the Portable ATCM for engines rated at 50 horsepower and greater. [Basis: District-only, 17 CCR 93116.3(a), Non-Federally Enforceable]
 8. The engine shall be equipped with a non-resettable meter which registers the total hours operated, and shall be maintained in good working condition. [Basis: District-only, 17 CCR 93116.4(b), Non-Federally Enforceable]
 9. If the cumulative annual operating hours exceed 2,976 hours per year at pump station PS 7 next to the outer boundary of Big Sur Charter School, or pump station PS 12 next to the outer boundary of Saint Angela's School, Monterey One Water must notify the District and comply with Health and Safety Code Sections 42301.6 through 42301.9, which include public notice requirements. [Basis: District-only, CA HSC §42301.6-42301.9, Non-Federally Enforceable]
 10. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
 11. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

EMERGENCY INTERNAL COMBUSTION ENGINE GENERATOR SET:

Stationary Emergency Internal Combustion Engine-Generator Set, Powered by A Tier 4 Final Doosan Diesel Engine Rated At 65 BHp @ 1,800 RPM, 40 KW Output.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

1. Annual engine diesel fuel usage, emergency use hours of operation, and maintenance and testing hours of operation, shall be reported to the District, upon request. [Basis: SIP Rule 207]
2. Except for maintenance and testing purposes, this equipment shall only be operated when the local utility powerline service fails. [Basis: SIP Rule 207]
3. The equipment shall be operated less than 50 hours per year for maintenance and testing purposes. [Basis: SIP Rule 207 and 40 CFR 60, Subpart III]
4. Total emergency use hours of operation, maintenance and testing hours of operation, and fuel usage shall be recorded in a monthly log maintained in a readily accessible location. Records shall be retained for at least three years and made readily available to District staff upon request. [Basis: SIP Rule 207 and 40 CFR 60, Subpart III]
5. This engine shall not be used to produce power for the electrical distribution system, as part of a

voluntary utility demand reduction program, an interruptible power contract, or base interruptible program. [Basis: 40 CFR 60, Subpart IIII]

6. The engine shall be equipped with a non-resettable meter which registers the total hours operated, and shall be maintained in good working condition. [Basis: 40 CFR Part 60, Subpart IIII]
7. The engine shall be operated and maintained in accordance with manufacturer specifications and procedures. Maintenance records shall be retained with other required engine operational data as specified in Condition 4. [40 CFR Part 60, Subpart IIII]
8. The diesel fuel consumed shall meet California Air Resources Board (CARB) specification, or the alternative diesel fuel specifications as defined in District Rule 1010. [Basis: 40 CFR 60, Subpart IIII]
9. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1, or equivalent 20 percent opacity. [Basis: SIP Rule 400]
10. No emissions shall constitute a public nuisance. [Basis: SIP Rule 402]

TESTING REQUIREMENTS AND PROCEDURES

1. For the aboveground storage tank gasoline dispensing facility, as described in the Ancillary Equipment Description, Monterey One Water shall conduct the following test once every calendar year and pass the applicable requirements in accordance with CARB Vapor Recovery Certification Procedure CP-201 “Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities”:

- a) Test Method TP-206.3 “Determination of Static Pressure Performance of Vapor Recovery Systems at Gasoline Dispensing Facilities with Aboveground Storage Tanks”

CARB Vapor Recovery Certification Procedure CP-201 “Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities” is available at the following website:

<http://www.arb.ca.gov/testmeth/vol2/currentprocedures.htm>

CARB test methods are available at the following websites:

<http://www.arb.ca.gov/vapor/eo.htm>

<http://www.arb.ca.gov/testmeth/vol2/currentprocedures.htm>

2. No testing is specified for the generic (Rule 400) opacity requirement. The digester gas destruction device(s) are assumed to be in compliance with the opacity requirement due to the firing of gaseous fuel. If testing is conducted, Monterey One Water should conduct testing in accordance with the methodology contained in EPA Method 9 and the averaging/aggregating period contained in

District Rule 400. [Basis: SIP Rule 218]

3. No testing is specified for the generic (Rule 403) particulate matter emission standard. The digester gas destruction device(s) are assumed to be in compliance with the particulate matter emission standard due to the firing of gaseous fuel. If testing is conducted, Monterey One Water should conduct testing in accordance with the methodology contained in EPA Method 5. [Basis: SIP Rule 218]
4. No testing is specified for the generic (Rule 404) sulfur concentration limit for the combustion equipment. The combustion equipment are assumed to be in compliance with the sulfur concentration limit based upon the calculations contained in the statement of basis. If testing is conducted, Monterey One Water should conduct testing in accordance with the methodology contained in EPA Method 20. [Basis: SIP Rule 218]
5. Annual testing of the digester gas to determine the sulfur content shall be completed. Monterey One Water shall conduct testing in accordance with ASTM D 1072-80, ASTM D 3031-81, ASTM D 3246-81 or SCAQMD Method 307-91 to verify compliance with Condition 8. [Basis: SIP Rule 218]

MONITORING AND RECORD KEEPING REQUIREMENTS

1. Monterey One Water shall maintain the results of the ozone measurements for the AWPf and AWPf facilities on a log. [Basis: SIP Rule 207]
2. Monterey One Water shall maintain records of the total annual volume of wastewater treated through the Wastewater Treatment and Reclamation Plant, Identified in Equipment Description 1. [Basis: SIP Rule 207]
3. Monterey One Water shall maintain a daily log which contains the activity/usage data, including the permit to operate (PTO) number, for each emission unit subject to the facility-wide NO_x emission limit. The activity/usage data includes, fuel usage (natural gas, digester gas, or diesel) and hours of operation. For the emission units combusting digester gas, the log shall include the digester gas hydrogen sulfide concentration. The activity/usage data shall be used to calculate the daily NO_x emissions for the facility. [Basis: SIP Rule 207]
 - a) The NO_x emissions for the internal combustion engines cogeneration sets, as identified in Equipment Description 4, 5, and 6, shall be based on the latest performance test results as specified in the device specific conditions listed above, or shall be based on the maximum hourly emission rate of 2.4 pound per hour, which is based on the engine emission factor for NO_x, as specified in the device specific conditions listed above.
 - b) The NO_x emissions from the digester gas flares, identified Equipment Description 7, shall be based on the emissions factor of 54.81 pounds NO_x per million cubic feet of

digester gas combusted ($\text{lb NO}_x/\text{MMft}^3$), which is based on the emission factors for open flares from Santa Barbara APCD Flare Study dated July 1991.

- c) The NO_x emissions from the natural gas or digester gas boiler, identified in Equipment Description 8, shall be based on the maximum hourly emission rate of 0.82 pound per hour.
 - d) The NO_x emissions for the portable sludge lagoon barge, identified in Equipment Description 9, shall be based on the engine's NO_x emissions factor of 2.61 grams per brake horsepower-hour or 1.16 pounds per hour.
 - e) The NO_x emissions for the portable sewer pump, identified in Equipment Description 10, shall be based on the engine's NO_x emissions factor of 3.12 grams per brake horsepower-hour or 0.58 pounds per hour.
4. Monterey One Water shall maintain records showing the quantity of all gasoline delivered to the gasoline storage tanks. [Basis: SIP Rule 418]
 5. Monterey One Water shall maintain a monthly log of the facility-wide total volume of make-up solvent used, and waste solvent disposed of or recycled, for all cleaning devices using volatile organic compounds for solvent cleaning and degreasing. [Basis: SIP Rule 433]

The record keeping provisions of this condition do not apply to remote reservoir cold cleaners which are serviced by an independent contractor. For such remote cold cleaners, evidence of service shall be maintained.
 6. Monterey One Water shall maintain records of how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation for the diesel emergency engine identified in Equipment Description 11 to show compliance with the device specific conditions. [Basis: 40 CFR Part 63, Subpart ZZZZ]
 7. Monterey One Water shall maintain records of all maintenance activities on each 40 CFR Part 63, Subpart ZZZZ affected engine. [Basis: 40 CFR Part 63, Subpart ZZZZ]
 8. As applicable Monterey One Water shall maintain the following general records of required monitoring information [Basis: SIP Rule 218]:
 - a) the date and time of sampling or measurements;
 - b) the date(s) analyses were performed;
 - c) the company or entity that performed the analyses;
 - d) the analytical techniques or methods used;
 - e) the results of such analyses;
 - f) the operating conditions existing at the time of sampling or measurement; and
 - g) the records of quality assurance for continuous monitoring systems (including, but not limited to quality control activities, audits, and calibration drift checks) and source testing methods.
 9. Monterey One Water shall maintain records on the occurrence and duration of any start-up, shutdown, or malfunction in the operation of the control equipment under this permit. For purposes

of this condition, the following devices shall be considered as control equipment for the digester produced gas: [Basis: SIP Rule 218]

- a) The natural gas/digester gas fired cogeneration engine sets #1, #2 & #3, as described in Equipment Description 4, 5 and 6 respectively.
 - b) Digester waste gas candle stick flares, as described in Equipment Description 7.
 - c) The natural gas/digester gas fired boiler, as described in Equipment Description 8.
10. Monterey One Water shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring, sample collection, measurement, report, and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. [Basis: SIP Rule 218]

REPORTING REQUIREMENTS

1. Monterey One Water shall report all breakdowns to the Air Pollution Control Officer (APCO) within 1 hour of the occurrence. This one-hour period may be extended up to six hours for good cause by the APCO.

The estimated time for repair of the breakdown shall be supplied to the APCO within 24 hours of the occurrence and a written report shall be supplied to the APCO within 5 days after the occurrence has been corrected. This report shall include at a minimum [Basis: SIP Rule 214]:

- a) a statement that the condition or failure has been corrected and the date of the correction; and
 - b) a description of the reasons for the occurrence; and
 - c) a description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future; and
 - d) an estimate of the emissions caused by the condition or failure.
2. Monterey One Water shall submit semiannual monitoring reports to the District, in a District approved format, no later than August 15 for the period of January 1 through June 30 and no later than February 15 for the period of July 1 through December 31. [Basis: SIP Rule 218]

These monitoring reports shall include at a minimum:

- a) the time intervals, date and magnitude of excess emissions, nature and cause of the excess (if known), corrective actions and preventative measures adopted; and
- b) the averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant in question; and
- c) all information pertaining to any monitoring as required by the permit; and
- d) a negative declaration specifying when no excess emissions occurred.

3. Monterey One Water shall submit an annual compliance certification report to the District and U.S. EPA, in a District approved format, no later than February 15 for the period of January 1 through December 31 of the preceding year. [Basis: SIP Rule 218]

This report shall include a written statement from the responsible official which certifies the truth, accuracy, and completeness of the report and shall include at a minimum:

- a) identification of each term or condition of the permit that is the basis of the certification; and
- b) the compliance status; and
- c) whether compliance was continuous or intermittent; and
- d) the method(s) used for determining the compliance status of the source, currently and over the reporting period.

GENERAL CONDITIONS

1. Monterey One Water shall comply with all conditions of this federal operating permit. Any noncompliance with a permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [Basis: SIP Rule 218]
2. In an enforcement action, the fact that Monterey One Water would have to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit is not a defense. [Basis: SIP Rule 218]
3. This permit may be modified, revoked, reopened and reissued, or terminated for cause as determined by the District. The filing of a request by Monterey One Water for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [Basis: SIP Rule 218]
4. This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. [Basis: SIP Rule 218]
5. Monterey One Water shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, Monterey One Water shall also furnish to the District copies of records required to be retained by

this permit. [Basis: SIP Rule 218]

6. For applicable requirements that will become effective during the permit term, Monterey One Water shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement. [Basis: SIP Rule 218]
7. Any document submitted to the District pursuant to this permit shall contain certification by the responsible official of truth, accuracy and completeness. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Monterey One Water shall promptly, upon discovery, report to the District a material error or omission in these records, reports, plans, or other documents. [Basis: SIP Rule 218]
8. Monterey One Water shall report any violation of any requirement contained in this permit to the District within 96 hours after such occurrence. The violation report shall include the time intervals, date and magnitude of excess emissions; nature and cause of the excess (if known), corrective actions and preventive measures adopted. [Basis: SIP Rule 218]
9. Upon any administrative or judicial challenge, all the emission limits, specific and general conditions, monitoring, record keeping, and reporting requirements of this permit, except those being challenged, remain valid and must be complied with. [Basis: SIP Rule 218]
10. For this federal operating permit to remain valid through the permit term of five years from the date of issuance, Monterey One Water shall pay an annual emission fee based upon the requirements of District Rule 308. [Basis: SIP Rule 218]
11. Monterey One Water shall have available at the facility at all times a copy of this federal operating permit. [Basis: SIP Rule 218]
12. For protection from enforcement action based upon an emergency, as defined in District Rule 218, the responsible official for Monterey One Water shall submit to the District relevant evidence which demonstrates [Basis: SIP Rule 218]:
 - a) an emergency occurred; and
 - b) that Monterey One Water can identify the cause(s) of the emergency; and
 - c) that the facility was being properly operated at the time of the emergency; and
 - d) that all steps were taken to minimize the emissions resulting from the emergency; and
 - e) within two working days of the emergency event, Monterey One Water provided the District with a description of the emergency and any mitigating or corrective actions taken.

13. Upon presentation of credentials, Monterey One Water shall allow the District, the ARB, the EPA, or an authorized representative, to perform the following [Basis: SIP Rule 218]:
 - a) enter upon the premises where the federal operating permit source is located or in which any records are required to be kept under the terms and conditions of this federal operating permit;
 - b) to have access to and copy any records required to be kept under the terms and conditions of this federal operating permit;
 - c) to inspect any equipment, operation, or process described or required in this federal operating permit; and,
 - d) to sample emissions from the source.

14. The renewal application for this permit shall be submitted at least 6 months but no greater than 18 months prior to permit expiration. [Basis: SIP Rule 218]
