



FACILITY PERMIT TO OPERATE

**EASTERN MUNICIPAL WATER DISTRICT
42565 AVENIDA ALVARADO
TEMECULA, CA 92590**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By 
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

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FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: EASTERN MUNICIPAL WATER DISTRICT

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 42565 AVENIDA ALVARADO
TEMECULA, CA 92590

MAILING ADDRESS: P O BOX 8300
PERRIS, CA 92572-8300

RESPONSIBLE OFFICIAL: PAUL D. JONES II

TITLE: GENERAL MANAGER

TELEPHONE NUMBER: (951) 928-3777

CONTACT PERSON: ALFRED JAVIER

TITLE: ENVIRONMENTAL SERVICES MANAGER

TELEPHONE NUMBER: (951) 928-3777

TITLE V PERMIT ISSUED: October 13, 2008

TITLE V PERMIT EXPIRATION DATE: October 12, 2013

TITLE V	RECLAIM
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YES	NOx:	NO
	SOx:	NO
	CYCLE:	0
	ZONE:	INLAND



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

**Facility Equipment and Requirements
(Section H)**

This section consists of a table listing all individual Permits to Construct and Temporary Permits to Operate issued to various equipment at the facility. Each permit will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMITTED EQUIPMENT LIST

The following is a list of all permits to construct and temporary permits to operate at this facility:

Application No.	Permit No.	Equipment description	Page No.
495605	-	SEWAGE TREATMENT (>5 MG/D) ANAEROBIC	3
513153	-	SEWAGE TREATMENT (>5 MG/D) ANAEROBIC	7
518818	-	ICE (>500 HP) NAT & DIGESTER GAS	11
518819	-	ICE (>500 HP) NAT & DIGESTER GAS	14
522637	-	ICE (>500 HP) EMERGENCY ELEC. GENERATOR DIESEL	17

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO CONSTRUCT

**A/N 495605
Granted 12/10/2009**

Equipment Description:

ALTERATION OF PERMIT TO OPERATE F97959, APPLICATION NO. 435791:

SEWAGE TREATMENT PLANT, 18 MGD CAPACITY CONSISTING OF:

I. PRELIMINARY TREATMENT (HEADWORKS):

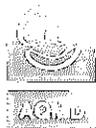
1. TWO SCREENING REMOVAL UNITS.
2. ONE MANUAL BYPASS BAR SCREEN.
3. TWO VORTEX GRIT BASINS, 16'-0" DIA. X 6' - 10" D.
4. SPLITTER BOX WITH ASSOCIATED CONVEYORS, WASHERS, BINS, PIPING AND PUMPS.
5. STORAGE TOTES, EACH 250 GALLONS CAPACITY, POLYMER, WITH ASSOCIATED PUMPS AND PIPING.
6. STORAGE TANK, 6,000 GALLON CAPACITY FRP, FERRIC CHLORIDE, WITH ASSOCIATED PUMPS AND PIPING.

II. PLANT NO. 1

1. PRIMARY TREATMENT:
 - A. FOUR PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 89'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.
 - B. PRIMARY FLOW EQUALIZATION BASIN, 75'-0" W. X 280'-0" L. X 15'-0" D., WITH ASSOCIATED AERATORS AND PUMPS.
2. SECONDARY TREATMENT:
 - A. SIX AERATION BASINS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.
 - B. SEVEN SECONDARY CLARIFIERS, EACH 20'-0" W. X 100'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.

III. PLANT NO. 2

1. PRIMARY TREATMENT:
 - A. SIX PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 90'-0" L. X 12'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
2. SECONDARY TREATMENT:
 - A. TWO AERATION BASINS, EACH 80'-0" W. X 200'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.



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- B. FIVE SECONDARY CLARIFIERS, EACH 20'-0" W. X 150'-0" L. X 14'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
3. SECONDARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D.
- IV. ADVANCED WASTE TREATMENT (AWT):
1. TWO DENITRIFICATION TOWERS, THREE CELLS EACH, EACH CELL 12'-0" W. X 21'-0" L. X 14'-0" D., WITH ASSOCIATED PUMPS.
 2. FLOW DIVERSION STRUCTURE, 6'-0" W. X 13'-0" L. X 17'-0" H.
 3. TWO BACKWASH BASINS, EACH 101'-0" W. X 111'-0" L. X 18'-0" D.
 4. TWO FLOCCULATION BASINS, EACH 30'-0" W. X 45'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
 5. TWO TERTIARY CLARIFIERS, EACH 86'-0" DIA. X 15'-0" D., WITH TWO COLLECTOR DRIVES, AND ONE SCUM PUMP.
 6. THREE STORAGE TANKS, ALUM, EACH 12'-0" DIA. X 10'-0" H.
 7. FOUR STORAGE TANKS, CAUSTIC SODA, 7'-0" DIA. X 10'-0" H.
- V. TERTIARY TREATMENT:
1. SIX ADVANCED WATER TREATMENT (AWT) SLUDGE DEWATERING PONDS/DRYING BEDS, EACH 90'-0" W. X 90'-0" L. X 3'-6" D.
 2. THREE RETURN WATER PUMPS, EACH 15 H.P.
 3. EIGHT DUAL MEDIA GRAVITY FILTERS, EACH 15'-0" W. X 23'-0" L. X 13'-0" D., AND ASSOCIATED BLOWERS, PUMPS AND PIPING.
 4. FOUR CLOTH FILTERS, EACH WITH A RATED PEAK FLOW OF 4.16 MGD.
 5. FOUR CHLORINE CONTACT CHAMBERS, EACH 6'-9" W. X 554'-0" L. X 15'-0" D., WITH CHLORINE SOLUTION DIFFUSER ASSEMBLY, AND THREE STANDBY WASHWATER PUMPS.
 6. TERTIARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D., WITH THREE ELECTRICAL EFFLUENT PUMPS.
 7. EMERGENCY EFFLUENT STORAGE POND, 480'-0" W. X 500'-0" L. X 7'-0" D.
 8. EMERGENCY EFFLUENT STORAGE POND, 350'-0" W. X 420'-0" L. X 8'-0" D.
 9. EMERGENCY EFFLUENT STORAGE POND, 210'-0" W. X 310'-0" L. X 8'-0" D.
 10. TWO 17-TON BULK CHLORINE STORAGE TANKS WITH ASSOCIATED EVAPORATORS, CHLORINATORS, INJECTORS, CHLORINE SCRUBBER SYSTEM AND PIPING.
- VI. SOLIDS HANDLING:
1. ONE DISSOLVED AIR FLOTATION (DAF) TANK, 30'-0" DIA. X 22'-0" H., WITH ASSOCIATED PUMPS.
 2. ONE GRAVITY BELT THICKENER, 6'-0" W. BELT AND ASSOCIATED POLYMER SYSTEM, PUMPS AND PIPING.
 3. ONE ROTARY DRUM THICKENER.



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4. FOUR ANAEROBIC DIGESTERS, EACH 56'-0" DIA. X 22'-0" H., WITH ASSOCIATED HEAT EXCHANGERS, PUMPS AND PIPING.
5. BOILER, WALKER, HEAT-X, 1 MM BTU/HR, NATURAL GAS FIRED, WITH ASSOCIATED PUMP AND BLOWER.
6. DIGESTED SLUDGE HOLDING TANK, UNDER GROUND, 40'-0" DIA. X 20'-0" H., WITH ASSOCIATED MIXER AND PUMPS.
7. DIGESTED SLUDGE HOLDING TANK, ABOVE GROUND, 45'-0" DIA. X 32'-0" H., WITH ASSOCIATED MIXER AND PUMPS.
8. CENTRIFUGE, 300 GPM CAPACITY.
9. TWO BELT FILTER PRESSES, ASHBROOK-SIMON-HARTLEY, 6'-0" WIDE, WITH ASSOCIATED CONVEYORS.
10. SLUDGE OFF-LOADING STATION, WITH A 27 CUBIC FOOT HOPPER.
11. LOW PRESSURE GAS HOLDER TANK, DIGESTER GAS, 24'-0" DIA. X 24'-0" H., WITH ASSOCIATED HERMETIC GAS BOOSTERS.
12. GAS STORAGE SPHERE, DIGESTER GAS, 35'-0" DIA., WITH A GAS COMPRESSOR.

BY THE ADDITION OF:

1. ONE SECONDARY CLARIFIERS, 20'-0" W. X 150'-0" L. X 14'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING. [III. PLANT NO. 2, SECONDARY TREATMENT, ITEM (2)(B).]
2. ONE SECONDARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D. [IDENTICAL TO III. PLANT NO. 2, SECONDARY TREATMENT ITEM NO. 3]
3. TWO OUT-OF-COMPLIANCE EFFLUENT STORAGE PONDS, 22 MILLION GALLONS CAPACITY. [V. TERTIARY TREATMENT, ITEM NO. 11]
4. TWO ANAEROBIC DIGESTERS, EACH 80'-0" DIA. X 30'-0" H., WITH ASSOCIATED HEAT EXCHANGERS, PUMPS AND PIPING. [VI. SOLIDS HANDLING, NEW ITEM NO. 5]
5. ONE TERTIARY EFFLUENT POND, 6 MG CAPACITY WITH THREE ELECTRICAL EFFLUENT PUMPS.
6. TWO OUT-OF-COMPLIANCE WATER PUMPS, 75 HP EACH.

BY THE ALTERATION OF:

1. EMERGENCY EFFLUENT STORAGE POND, 22.1 MILLION GALLONS [V. TERTIARY TREATMENT, ITEM NO. 7]
2. EMERGENCY EFFLUENT STORAGE POND, 5.3 MILLION GALLONS [V. TERTIARY TREATMENT, ITEM NO. 9]

AND BY THE REMOVAL OF:

1. EMERGENCY EFFLUENT STORAGE POND, 350'-0" W. X 420'-0" L. X 8'-0" D. [V. TERTIARY TREATMENT, ITEM NO. 8]
2. TERTIARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D. WITH THREE ELECTRICAL EFFLUENT PUMPS.



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Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THE HEADWORKS, VORTEX GRIT BASIN, PRIMARY CLARIFIERS, SLUDGE TRANSFER STORAGE, AND SLUDGE SYSTEMS WITHIN THE SLUDGE DEWATERING BUILDING, SHALL NOT BE OPERATED UNLESS THEY ARE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND WHICH HAS BEEN ISSUED A PERMIT TO CONSTRUCT OR OPERATE BY THE SCAQMD.
[RULE 1303]
5. THE DIGESTER GAS PRODUCED AT THIS FACILITY SHALL BE STORED IN THE GAS STORAGE SPHERE OR INCINERATED BY EQUIPMENT THAT HAS A VALID PERMIT, OR IS EXEMPTED BY RULE 219.
[RULE 1303]
6. THE MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT, ON AN ANNUAL BASIS, SHALL NOT EXCEED 18 MILLION GALLONS PER DAY (MGD), EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]
7. UNTIL SLUDGE IS DEWATERED IT SHALL BE PIPED AND STORED IN AN ENCLOSED MANNER TO PREVENT THE RELEASE OF AIR CONTAMINANTS.
[RULE 402]
8. THE BELT FILTER PRESSES SHALL BE OPERATED ONLY AS BACKUP TO THE CENTRIFUGE.
[RULE 1303]
9. DEWATERED SLUDGE SHALL BE STORED IN THE STORAGE HOPPER PRIOR TO TRUCK LOADING.
[RULE 402]
10. RECORDS SHALL BE KEPT TO SHOW COMPLIANCE WITH THE ABOVE CONDITIONS FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 204]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO CONSTRUCT

A/N 513153

Granted: February 10, 2011

Equipment Description:

ALTERATION OF APPLICATION NO. 495605:

SEWAGE TREATMENT PLANT, 18 MGD CAPACITY CONSISTING OF:

I. PRELIMINARY TREATMENT (HEADWORKS):

1. TWO SCREENING REMOVAL UNITS.
2. ONE MANUAL BYPASS BAR SCREEN.
3. TWO VORTEX GRIT BASINS, 16'-0" DIA. X 6' - 10" D.
4. SPLITTER BOX WITH ASSOCIATED CONVEYORS, WASHERS, BINS, PIPING AND PUMPS.
5. STORAGE TOTES, EACH 250 GALLONS CAPACITY, POLYMER, WITH ASSOCIATED PUMPS AND PIPING.
6. STORAGE TANK, 6,000 GALLON CAPACITY FRP, FERRIC CHLORIDE, WITH ASSOCIATED PUMPS AND PIPING.

II. PLANT NO. 1

1. PRIMARY TREATMENT:
 - A. FOUR PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 89'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.
 - B. PRIMARY FLOW EQUALIZATION BASIN, 75'-0" W. X 280'-0" L. X 15'-0" D., WITH ASSOCIATED AERATORS AND PUMPS.
2. SECONDARY TREATMENT:
 - A. SIX AERATION BASINS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.
 - B. SEVEN SECONDARY CLARIFIERS, EACH 20'-0" W. X 100'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.

III. PLANT NO. 2

1. PRIMARY TREATMENT:
 - A. SIX PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 90'-0" L. X 12'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
2. SECONDARY TREATMENT:
 - A. TWO AERATION BASINS, EACH 80'-0" W. X 200'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.
 - B. SIX SECONDARY CLARIFIERS, EACH 20'-0" W. X 150'-0" L. X 14'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
3. TWO SECONDARY EFFLUENT STORAGE PONDS, 180'-0" W. X 180'-0" L. X 15'-0" D.



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IV. ADVANCED WASTE TREATMENT (AWT):

1. TWO DENITRIFICATION TOWERS, THREE CELLS EACH, EACH CELL 12'-0" W. X 21'-0" L. X 14'-0" D., WITH ASSOCIATED PUMPS.
2. FLOW DIVERSION STRUCTURE, 6'-0" W. X 13'-0" L. X 17'-0" H.
3. TWO BACKWASH BASINS, EACH 101'-0" W. X 111'-0" L. X 18'-0" D.
4. TWO FLOCCULATION BASINS, EACH 30'-0" W. X 45'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
5. TWO TERTIARY CLARIFIERS, EACH 86'-0" DIA. X 15'-0" D., WITH TWO COLLECTOR DRIVES, AND ONE SCUM PUMP.
6. THREE STORAGE TANKS, ALUM, EACH 12'-0" DIA. X 10'-0" H.
7. FOUR STORAGE TANKS, CAUSTIC SODA, 7'-0" DIA. X 10'-0" H.

V. TERTIARY TREATMENT:

1. SIX ADVANCED WATER TREATMENT (AWT) SLUDGE DEWATERING PONDS/DRYING BEDS, EACH 90'-0" W. X 90'-0" L. X 3'-6" D.
2. THREE RETURN WATER PUMPS, EACH 15 H.P.
3. EIGHT DUAL MEDIA GRAVITY FILTERS, EACH 15'-0" W. X 23'-0" L. X 13'-0" D., AND ASSOCIATED BLOWERS, PUMPS AND PIPING.
4. FOUR CLOTH FILTERS, EACH WITH A RATED PEAK FLOW OF 4.16 MGD.
5. FOUR CHLORINE CONTACT CHAMBERS, EACH 6'-9" W. X 554'-0" L. X 15'-0" D., WITH CHLORINE SOLUTION DIFFUSER ASSEMBLY, AND THREE STANDBY WASHWATER PUMPS.
6. TERTIARY EFFLUENT POND, 6 MG CAPACITY WITH THREE ELECTRICAL EFFLUENT PUMPS.
7. EMERGENCY EFFLUENT STORAGE POND, 22.1 MILLION GALLONS.
8. EMERGENCY EFFLUENT STORAGE POND, 5.3 MILLION GALLONS
9. TWO 17- TON BULK CHLORINE STORAGE TANKS WITH ASSOCIATED EVAPORATORS, CHLORINATORS, INJECTORS, CHLORINE SCRUBBER SYSTEM AND PIPING.
10. TWO OUT-OF-COMPLIANCE EFFLUENT STORAGE PONDS, 22 MILLION GALLONS CAPACITY.
11. TWO OUT-OF-COMPLIANCE WATER PUMPS, 75 HP EACH.

VI. SOLIDS HANDLING:

1. ONE DISSOLVED AIR FLOATATION (DAF) TANK, 30'-0" DIA. X 22'-0" H., WITH ASSOCIATED PUMPS.
2. ONE GRAVITY BELT THICKENER, 6'-0" W. BELT AND ASSOCIATED POLYMER SYSTEM, PUMPS AND PIPING.
3. ONE ROTARY DRUM THICKENER.
4. FOUR ANAEROBIC DIGESTERS, EACH 56'-0" DIA. X 22'-0" H., WITH ASSOCIATED HEAT EXCHANGERS, PUMPS AND PIPING.
5. TWO ANAEROBIC DIGESTERS, EACH 80'-0" DIA. X 30'-0" H., WITH ASSOCIATED HEAT EXCHANGERS, PUMPS AND PIPING.
6. BOILER, WALKER, HEAT-X, 1 MM BTU/HR, NATURAL GAS FIRED, WITH ASSOCIATED PUMP AND BLOWER.
7. DIGESTED SLUDGE HOLDING TANK, UNDER GROUND, 40'-0" DIA. X 20'-0" H., WITH ASSOCIATED MIXER AND PUMPS.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. DIGESTED SLUDGE HOLDING TANK, ABOVE GROUND, 45'-0" DIA. X 32'-0" H., WITH ASSOCIATED MIXER AND PUMPS.
9. CENTRIFUGE, 300 GPM CAPACITY.
10. TWO BELT FILTER PRESSES, ASHBROOK-SIMON-HARTLEY, 6'-0" WIDE, WITH ASSOCIATED CONVEYORS.
11. SLUDGE OFF-LOADING STATION, WITH A 27 CUBIC FOOT HOPPER.
12. LOW PRESSURE GAS HOLDER TANK, DIGESTER GAS, 24'-0" DIA. X 24'-0" H., WITH ASSOCIATED HERMETIC GAS BOOSTERS.
13. GAS STORAGE SPHERE, DIGESTER GAS, 35'-0" DIA., WITH A GAS COMPRESSOR.

BY THE ADDITION OF

1. TWO FERRIC CHLORIDE STORAGE TANKS, 8,000 GALLON MAXIMUM CAPACITY EACH, WITH ASSOCIATED PUMPS AND PIPING. [I. PRELIMINARY TREATMENT (HEADWORKS), ITEM NO. 6]
2. ONE ROTOSCREEN, WESTECH [VI. SOLIDS HANDLING, ITEM NO. 2]

BY THE REMOVAL OF

1. STORAGE TANK, 6,000 GALLON CAPACITY FRP, FERRIC CHLORIDE, WITH ASSOCIATED PUMPS AND PIPING. [I. PRELIMINARY TREATMENT (HEADWORKS), ITEM NO. 6]
2. CENTRIFUGE, 300 GPM CAPACITY. [VI. SOLIDS HANDLING, ITEM NO. 9]
3. TWO BELT FILTER PRESSES, ASHBROOK-SIMON-HARTLEY, 6'-0" WIDE, WITH ASSOCIATED CONVEYORS. [VI. SOLIDS HANDLING, ITEM NO. 10]

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THE HEADWORKS, VORTEX GRIT BASIN, PRIMARY CLARIFIERS, SLUDGE TRANSFER STORAGE, AND SLUDGE SYSTEMS WITHIN THE SLUDGE DEWATERING BUILDING, SHALL NOT BE OPERATED UNLESS THEY ARE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND WHICH HAS BEEN ISSUED A PERMIT TO CONSTRUCT OR OPERATE BY THE SCAQMD.
[RULE 1303]



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5. THE DIGESTER GAS PRODUCED AT THIS FACILITY SHALL BE STORED IN THE GAS STORAGE SPHERE OR INCINERATED BY EQUIPMENT THAT HAS A VALID PERMIT, OR IS EXEMPTED BY RULE 219.
[RULE 1303]

6. THE MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT, ON AN ANNUAL BASIS, SHALL NOT EXCEED 18 MILLION GALLONS PER DAY (MGD), EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]

7. UNTIL SLUDGE IS DEWATERED IT SHALL BE PIPED AND STORED IN AN ENCLOSED MANNER TO PREVENT THE RELEASE OF AIR CONTAMINANTS.
[RULE 402]

8. DEWATERED SLUDGE SHALL BE STORED IN THE STORAGE HOPPER PRIOR TO TRUCK LOADING.
[RULE 402]

9. RECORDS SHALL BE KEPT TO SHOW COMPLIANCE WITH THE ABOVE CONDITIONS FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 204]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO CONSTRUCT

**A/N 518818
Granted: June 21, 2011**

Equipment Description:

INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, WAUKESHA, MODEL H24 GLD, SPARK IGNITION, FOUR CYCLE, 8-CYLINDER, 530 BHP, LEAN BURN, TURBOCHARGED, AFTERCOOLED, FUELED WITH DIGESTER GAS, A DIGESTER GAS/ NATURAL GAS BLEND, OR A NATURAL GAS/ AIR BLEND, WITH AN EXHAUST HEAT RECOVERY SYSTEM, AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL EPC-150, DRIVING AN AERATION BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON DIGESTER GAS, A DIGESTER GAS/ NATURAL GAS BLEND, OR A NATURAL GAS/ AIR BLEND. THE NATURAL GAS/ AIR BLEND SHALL HAVE AN EQUIVALENT HEATING VALUE OF THE DIGESTER GAS.
[RULE 1110.2][RULE 1303]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
5. A NON-RESETTABLE OPERATIONAL TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE IN CUMULATIVE HOURS THE ENGINE IS OPERATED.
[RULE 1110.2]
6. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 204][RULE 1110.2]
7. THE TWO DIGESTER GAS FIRED ENGINES MAY ONLY BE OPERATED AT THE SAME TIME IF THE AVAILABLE DIGESTER GAS IS GREATER THAN THE 100% OF THE TOTAL HEAT INPUT (HIGHER HEATING VALUE BASIS) FOR ONE ENGINE, UNLESS THE THIRD ENGINE USED TO DRIVE AN AERATION BLOWER IS TEMPORARILY OUT OF SERVICE FOR REPAIR, MAINTENANCE, OR TESTING.
[RULE 1110.2]



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8. THE DIGESTER GAS ENGINES SHALL BE OPERATED WITH AT LEAST 50% OF THE TOTAL HEAT INPUT SUPPLIED BY DIGESTER GAS (HIGHER HEATING VALUE BASIS) FOR THE FACILITY AVERAGE IN EACH CALENDAR MONTH EXCEPT WHEN THIS SEWAGE TREATMENT PLANT ACTIVATES AN EMERGENCY OPERATIONS CENTER OR INCIDENT COMMAND SYSTEM, AS PART OF AN EMERGENCY RESPONSE PLAN, BECAUSE OF EITHER HIGH INFLUENT FLOWS CAUSED BY PRECIPITATION OR A DISASTER.
[RULE 1110.2]
9. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. THE BTU RATING OF THE DIGESTER GAS.
 - D. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - E. THE PERCENT DIGESTER GAS OF THE TOTAL FUEL BY VOLUME.
 - F. THE NUMBER OF HOURS THE ENGINE IS OPERATED CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.[RULE 204][RULE 1110.2]
10. THE ENGINE SHALL OPERATE BETWEEN 1539 AND 1881 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]
11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO, NOX, AND VOC EMISSION LIMITS BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 2 YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. THE TEST SHALL BE CONDUCTED USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 1110.2]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2]
13. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I&M) PLAN BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]



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14. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii) – AMENDED 7/9/2010, PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS. [RULE 1110.2]

15. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST. [RULE 1110.2]

Emissions and Requirements:

16. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 0.6 GM/BHP-HR, RULE 1303
 - NOX: 0.70 LBS/HR, RULE 1303
 - NOX: 36 PPMV, RULE 1110.2
 - VOC: 0.8 GM/BHP-HR, RULE 1303
 - VOC: 0.29 LBS/HR, RULE 1303
 - VOC: 250 PPMV, RULE 1110.2
 - CO: 2.5 GM/BHP-HR, RULE 1303
 - CO: 2.42 LBS/HR, RULE 1303
 - CO: 2000 PPMV, RULE 1110.2



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PERMIT TO CONSTRUCT

A/N 518819
Granted: June 21, 2011

Equipment Description:

INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, WAUKESHA, MODEL H24 GLD, SPARK IGNITION, FOUR CYCLE, 8-CYLINDER, 530 BHP, LEAN BURN, TURBOCHARGED, AFTERCOOLED, FUELED WITH DIGESTER GAS, A DIGESTER GAS/ NATURAL GAS BLEND, OR A NATURAL GAS/ AIR BLEND, WITH AN EXHAUST HEAT RECOVERY SYSTEM, AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL EPC-150, DRIVING AN AERATION BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON DIGESTER GAS, A DIGESTER GAS/ NATURAL GAS BLEND, OR A NATURAL GAS/ AIR BLEND. THE NATURAL GAS/ AIR BLEND SHALL HAVE AN EQUIVALENT HEATING VALUE OF THE DIGESTER GAS.
[RULE 1110.2][RULE 1303]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
5. A NON-RESETTABLE OPERATIONAL TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE IN CUMULATIVE HOURS THE ENGINE IS OPERATED.
[RULE 1110.2]
6. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 204][RULE 1110.2]
7. THE TWO DIGESTER GAS FIRED ENGINES MAY ONLY BE OPERATED AT THE SAME TIME IF THE AVAILABLE DIGESTER GAS IS GREATER THAN THE 100% OF THE TOTAL HEAT INPUT (HIGHER HEATING VALUE BASIS) FOR ONE ENGINE, UNLESS THE THIRD ENGINE USED TO DRIVE AN AERATION BLOWER IS TEMPORARILY OUT OF SERVICE FOR REPAIR, MAINTENANCE, OR TESTING.
[RULE 1110.2]



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8. THE DIGESTER GAS ENGINES SHALL BE OPERATED WITH AT LEAST 50% OF THE TOTAL HEAT INPUT SUPPLIED BY DIGESTER GAS (HIGHER HEATING VALUE BASIS) FOR THE FACILITY AVERAGE IN EACH CALENDAR MONTH EXCEPT WHEN THIS SEWAGE TREATMENT PLANT ACTIVATES AN EMERGENCY OPERATIONS CENTER OR INCIDENT COMMAND SYSTEM, AS PART OF AN EMERGENCY RESPONSE PLAN, BECAUSE OF EITHER HIGH INFLUENT FLOWS CAUSED BY PRECIPITATION OR A DISASTER.
[RULE 1110.2]
9. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. THE BTU RATING OF THE DIGESTER GAS.
 - D. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - E. THE PERCENT DIGESTER GAS OF THE TOTAL FUEL BY VOLUME.
 - F. THE NUMBER OF HOURS THE ENGINE IS OPERATED CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.[RULE 204][RULE 1110.2]
10. THE ENGINE SHALL OPERATE BETWEEN 1539 AND 1881 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]
11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO, NOX, AND VOC EMISSION LIMITS BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 2 YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. THE TEST SHALL BE CONDUCTED USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 1110.2]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2]
13. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I&M) PLAN BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]



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14. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii) – AMENDED 7/9/2010, PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS. [RULE 1110.2]
15. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST. [RULE 1110.2]

Emissions and Requirements:

12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 0.6 GM/BHP-HR, RULE 1303
 - NOX: 0.70 LBS/HR, RULE 1303
 - NOX: 36 PPMV, RULE 1110.2
 - VOC: 0.8 GM/BHP-HR, RULE 1303
 - VOC: 0.29 LBS/HR, RULE 1303
 - VOC: 250 PPMV, RULE 1110.2
 - CO: 2.5 GM/BHP-HR, RULE 1303
 - CO: 2.42 LBS/HR, RULE 1303
 - CO: 2000 PPMV, RULE 1110.2



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO CONSTRUCT

A/N 522637

Granted: November 18, 2011

Equipment Description:

INTERNAL COMBUSTION ENGINE, MTU ONSITE ENERGY/MTU DETROIT DIESEL, MODEL 16V2000G85 TB/TD (R1638A37), FOUR-STROKE CYCLE, 16 CYLINDER, 1495 BHP, DIESEL FIRED, TURBOCHARGED, WITH DIESEL PARTICULATE FILTER, RYPOS, INC., MODEL HDPF/C, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED, UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO THE DIESEL PARTICULATE FILTER SYSTEM WHICH IS IN FULL OPERATION AND WHICH IS IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 1303-LAER/BACT]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND PERFORMANCE TESTING, AND NO MORE THAN 4.2 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING.
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a) (4)-MODELING AND OFFSET EXEMPTIONS, RULE 1470]
5. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1303- BACT, RULE 1470]
6. THIS ENGINE SHALL NOT BE USED AS PART OF AN INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING



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ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR THE GRID OPERATOR.

[RULE 1303-BACT, RULE 1470]

7. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2; RULE 1303-BACT, 1304(a) (4)-MODELING AND OFFSET EXEMPTIONS, RULE 1470, 40CFR60 Subpart III]
8. AFTER EVERY 1,000 HOURS OF ENGINE OPERATION, THE OPERATOR SHALL INSPECT THE INTEGRITY OF THE FILTER AND, IF NECESSARY, CLEAN IT.
[RULE 204]
9. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. EMERGENCY USE HOURS OF OPERATION.
 - B. MAINTENANCE AND TESTING HOURS.
 - C. HOURS OF OPERATION FOR DEMONSTRATING COMPLIANCE.
 - D. INITIAL START-UP HOURS.
 - E. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.

[RULE 1110.2, RULE 1303-BACT, 1304(a) (4)-MODELING AND OFFSET EXEMPTIONS, RULE 1470, 40CFR60 Subpart III]

10. THE SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THIS ENGINE SHALL NOT EXCEED 15 PPM (0.0015%) BY WEIGHT.
[RULE 431.2, RULE 1470, 40CFR60 Subpart III]
11. THE OWNER/OPERATOR SHALL DEMONSTRATE COMPLIANCE TO THE EXECUTIVE OFFICER'S SATISFACTION BY AT LEAST ONE OF THE FOLLOWING:
 - A. THIS ENGINE SHALL BE EQUIPPED WITH A CARB LEVEL 3 VERIFIED DIESEL PARTICULATE FILTER FOR THE MAKE AND MODEL OF THIS ENGINE AND THE OWNER OR OPERATOR SHALL RETAIN THE CARB ISSUED EXECUTIVE ORDER ON SITE AND MAKE IT AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST AND FOLLOW THE CARB ISSUED EXECUTIVE ORDER.
 - B. CONDUCT A SOURCE TEST OF THIS EQUIPMENT NO LATER THAN 180 DAYS AFTER INSTALLATION TO DEMONSTRATE COMPLIANCE WITH 85% PM CONTROL EFFICIENCY AND TO MEET THE FOLLOWING REQUIREMENTS:
 1. A TEST PROTOCOL SHALL BE SUBMITTED TO THE AQMD, REFINERY AND WASTE MANAGEMENT TEAM, NOT LATER THAN 30 DAYS BEFORE THE



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PROPOSED TEST DATE AND SHALL BE APPROVED BY AQMD BEFORE THE TEST COMMENCES.

2. THE TEST SHALL BE PERFORMED BY A TESTING LABORATORY CERTIFIED TO MEET THE CRITERIA IN AQMD RULE 304 (NO CONFLICT OF INTEREST).
3. THE AQMD ENGINEER SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST, OR WITHIN A TIME PERIOD AGREED UPON BY THE AQMD ENGINEER.
4. SAMPLING FACILITIES SHALL COMPLY WITH AQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES" PURSUANT TO RULE 217.

- C. THIS ENGINE SHALL BE EQUIPPED WITH A LEVEL 3 VERIFIED DIESEL EMISSION CONTROL STRATEGY IN COMBINATION WITH A CERTIFIED CI ENGINE THAT MEETS A 0.15 G/BHP-HR OR LESS PM EMISSION STANDARD, OR,

AN ALTERNATIVE DIESEL PM CONTROL METHOD THAT IS EQUAL TO OR MORE EFFECTIVE THAN A LEVEL 3 VERIFIED DIESEL EMISSION CONTROL STRATEGY IN COMBINATION WITH A CERTIFIED CI ENGINE THAT MEETS A 0.15 G/BHP-HR OR LESS PM EMISSION STANDARD, AND IS APPROVED FOR USE BY THE EXECUTIVE OFFICER.

[RULE 204]

12. A BACK PRESSURE MONITOR SHALL BE INSTALLED AND MAINTAINED ON THE DIESEL PARTICULATE FILTER (DPF) TO INDICATE THE BACKPRESSURE OF THE DPF.
[RULE 204]
13. OWNER OR OPERATOR SHALL KEEP RECORDS OF ANY CORRECTIVE ACTION TAKEN AFTER THE BACKPRESSURE MONITOR HAS NOTIFIED THE OWNER OR OPERATOR THAT THE HIGH BACKPRESSURE LIMIT OF THE ENGINE IS APPROACHED.
[RULE 204, 40CFR60 Subpart III]
14. THE ENGINE EMISSIONS SHALL NOT EXCEED THE FOLLOWING INTERIM TIER-4 EMISSION STANDARDS AS DEFINED IN TITLE 13 CALIFORNIA CODE OF REGULATIONS SECTION 2423:

CARBON MONOXIDE: 2.61 G/BHP-HR
OXIDES OF NITROGEN: 0.50 G/BHP-HR
PARTICULATE MATTER: 0.075 G/BHP-HR.
VOLATILE ORGANIC COMPOUNDS: 0.30 G/BHP-HR
[RULE 1470]
15. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 431.2, RULE 1470, 40CFR60 SUBPART III, AND 40CFR63 SUBPART ZZZZ.
[RULE 431.2, RULE 1470, 40CFR60 Subpart III, 40CFR63 SUBPART ZZZZ]



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Emissions and Requirements:

16. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM:	RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM:	0.15 gm/bhp-hr, RULE 1303-BACT, 40CFR60 Subpart III
NO _x +NMHC:	4.8 g/bhp-hr, RULE 1303-BACT, 40CFR60 Subpart III
CO:	2.6 g/bhp-hr, RULE 1303-BACT, 40CFR60 Subpart III