



FACILITY PERMIT TO OPERATE

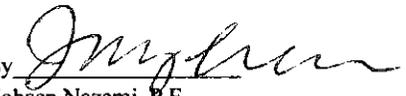
**EASTERN MUNICIPAL WATER DIST
1301 CASE RD
PERRIS, CA 92570**

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



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

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Facility Equipment and Requirements (Section D)

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, copies of all individual Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment 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.



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PERMITTED EQUIPMENT LIST

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

Application number	Permit number	Equipment description	Page #
180365	D40834	ICE (50-500 HP) EMERGENCY ELEC. GENERATOR NAT GAS	4
337778	F41973	SERV STAT STORAGE & DISPENSING GASOLINE	5
357663	F47276	ICE (>500 HP) EMERGENCY ELEC. GENERATOR NAT GAS	8
408498	F58146	ODOR CONTROL UNIT	10
431064	F69264	SEWAGE TREATMENT (>5 MG/D) AEROBIC	12
466470	G3951	STORAGE TANK, LPG	15
466471	G3952	STORAGE TANK, LPG	17
485927	G3953	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS-LPG	19
485931	G3954	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS-LPG	21
485932	G3955	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS-LPG	23
499897	G9937	DIGESTER GAS TREATMENT SYSTEM & FUEL CELL POWER PLANT	25
503372	G9939	ICE (>500 HP) EMERGENCY ELEC. GENERATOR- NG & LPG	29

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.

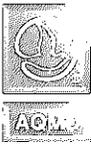


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FACILITY WIDE CONDITION(S)

1. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT. AFTER JUNE 1, 2004, THE OPERATOR SHALL NOT PURCHASE ANY DIESEL FUEL UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
[RULE 431.2]
2. THE FACILITY SHALL NOT EMIT MORE THAN 5 LBS/DAY OF TOTAL SULFUR COMPOUNDS, CALCULATED AS H₂S, FROM BURNING OF GASEOUS FUELS OTHER THAN NATURAL GAS.
[RULE 431.1]
3. THE OWNER/OPERATOR SHALL NOT DISCHARGE FROM ANY SINGLE SOURCE SULFUR COMPOUNDS IN ANY STATE OR COMBINATION IN EXCESS OF 0.05 PERCENT BY VOLUME AS SO₂.
[RULE 53(a)(1)]
4. ACCIDENTAL RELEASE PREVENTION REQUIREMENTS OF SECTION 112(R)(7):
THE OPERATOR SHALL COMPLY WITH THE ACCIDENTAL RELEASE PREVENTION REQUIREMENTS PURSUANT TO 40 CFR PART 68 AND SHALL SUBMIT TO THE EXECUTIVE OFFICER, AS PART OF ANNUAL COMPLIANCE CERTIFICATION, A STATEMENT THAT CERTIFIES COMPLIANCE WITH ALL THE REQUIREMENTS OF 40 CFR PART 68, INCLUDING THE REGISTRATION AND SUBMISSION OF A RISK MANAGEMENT PLAN (RMP).

THE OPERATOR SHALL SUBMIT ANY ADDITIONAL RELEVANT INFORMATION REQUESTED BY THE EXECUTIVE OFFICER OR DESIGNATED AGENCY.
[40 CFR68-ACCIDENTAL RELEASE PREVENTION]



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**Permit No. D40834
A/N 180365**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, NATURAL GAS-FUELED, MODEL NO. G342, SERIAL NO. 71B3089, 6 CYLINDERS, 4 CYCLES, TURBOCHARGED AFTERCOOLED, 295 BHP, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE 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. THE IGNITION TIMING OF THE ENGINE SHALL BE INSPECTED, ADJUSTED, AND CERTIFIED AT A MINIMUM OF ONCE EVERY THREE YEARS OF OPERATION.
[RULE 204]
4. THIS ENGINE SHALL ONLY OPERATE 200 HOURS OR LESS IN ANY ONE YEAR.
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
6. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

Emission and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 1470



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**Permit No. F41973
A/N 337778**

Equipment Description:

FUEL STORAGE AND DISPENSING FACILITY CONSISTING OF:

1. 1 - DUAL COMPARTMENT ABOVEGROUND GASOLINE/DIESEL STORAGE TANK, CONVAULT TYPE, 11'-3" L. X 8'-0" W. X 5'-6" H., 2000-GALLON CAPACITY, CONCRETE INSULATION, WITH A PRESSURE/VACUUM RELIEF VALVE, AND A COAXIAL SUBMERGED FILL TUBE, CONSISTING OF:
 - A. ONE 1000-GALLON GASOLINE COMPARTMENT TANK, EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM.
 - B. ONE 1000-GALLON DIESEL COMPARTMENT TANK, NOT EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM.
2. 1 - GASOLINE NOZZLE WITH A 12'-6" L. HOSE ON A TANK SIDE MOUNTED DISPENSER, WITH PHASE II VRS BALANCE HI HOSE (G-70-52-AM), BALANCE SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT WAS 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. EXCEPT FOR DIESEL TRANSFERS, PHASE I VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.
[RULE 461]
4. EXCEPT FOR DIESEL TRANSFERS, PHASE II VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO MOTOR VEHICLES, AS DEFINED IN RULE 461.
[RULE 461]
5. ALL PHASE I AND PHASE II VAPOR RECOVERY EQUIPMENT AT THIS FACILITY SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CALIFORNIA AIR RESOURCES BOARD CERTIFICATION REQUIREMENTS.
[RULE 461]



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6. PHASE II VAPOR RECOVERY SYSTEMS SHALL BE INSTALLED, OPERATED, AND MAINTAINED SUCH THAT THE MAXIMUM ALLOWABLE PRESSURE DROP THROUGH THE SYSTEM INCLUDING NOZZLE, VAPOR HOSE, SWIVELS, AND UNDERGROUND PIPING DOES NOT EXCEED THE DYNAMIC BACK PRESSURE RATES DESCRIBED BY THE CALIFORNIA AIR RESOURCES BOARD EXECUTIVE ORDER BY WHICH THE SYSTEM WAS CERTIFIED:

NITROGEN FLOWRATES (CFH)	DYNAMIC BACK PRESSURE (INCHES OF WATER)
20	0.15
40	0.16
60	0.35
80	0.62
100	0.95

DYNAMIC BACK PRESSURE TESTS SHALL BE CONDUCTED TO DETERMINE THE PHASE II SYSTEM VAPOR RECOVERY BACK PRESSURES. THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.4. RESULTS SHALL BE SUBMITTED TO THE DISTRICT, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TESTS.

THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE DYNAMIC BACK PRESSURE TEST.

[RULE 461]

7. A STATIC PRESSURE LEAK DECAY TEST SHALL BE CONDUCTED TO DEMONSTRATE THAT THE STORAGE TANKS, THE REMOTE AND/OR NOZZLE VAPOR RECOVERY CHECK VALVES, ASSOCIATED VAPOR RETURN PIPING AND FITTINGS ARE FREE FROM VAPOR LEAKS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.3. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TEST.

THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE STATIC PRESSURE LEAK DECAY TEST.

[RULE 461]

8. IF THE CARB EXECUTIVE ORDER REQUIRES THE INSTALLATION OF A LIQUID REMOVAL DEVICE, A LIQUID REMOVAL RATE TEST SHALL BE CONDUCTED TO DEMONSTRATE THE REMOVAL OF GASOLINE FROM THE VAPOR PASSAGE OF THE COAXIAL HOSE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.6. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TEST.



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THE SCAQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE LIQUID REMOVAL RATE TEST.

[RULE 461]

9. THE TESTING FREQUENCY FOR THE ABOVE MENTIONED TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE MOST RECENT RULE 461 AMENDMENT OR CARB EXECUTIVE ORDER REQUIREMENTS, WHICHEVER IS MORE STRINGENT.
[RULE 461]
10. ALL RECORDS AND TEST RESULTS THAT ARE REQUIRED TO BE MAINTAINED BY RULE 461 SHALL BE KEPT ON SITE AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.
[RULE 461]
11. THE MAXIMUM QUANTITY OF GASOLINE DISPENSED FROM THE STORAGE TANKS AT THIS FACILITY SHALL NOT EXCEED 5000 GALLONS IN ANY ONE CALENDAR MONTH NOR 60000 GALLONS IN ANY ONE CALENDAR YEAR.
[RULE 461]

Periodic Monitoring:

12. THE OPERATOR SHALL HAVE A PERSON THAT HAS BEEN TRAINED IN ACCORDANCE WITH RULE (461)(d)(5) CONDUCT AN ANNUAL INSPECTION IN ACCORDANCE WITH RULE 461(d)(1)(B) OF THE GASOLINE TRANSFER AND DISPENSING EQUIPMENT. THE INSPECTION SHALL BE IN ACCORDANCE WITH RULE 461, ATTACHMENT C. THE OPERATOR SHALL KEEP RECORDS OF THE INSPECTION AND THE REPAIRS IN ACCORDANCE WITH RULE 461 AND SECTION K OF THIS PERMIT.
[RULE 3004(a)(4)]



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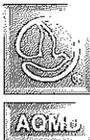
Permit No. F47276
A/N 357663

Equipment Description:

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL P9390GL, SERIAL NO. C10379/1, NATURAL GAS FIRED, TURBOCHARGED, WATER CONNECTED COOLING, SIXTEEN CYLINDERS, FOUR CYCLE, 2200 BHP, LEAN BURN, PRECHAMBER DESIGN, WITH AN OXIDATION CATALYTIC MUFFLER, DRIVING A 1540 KW EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE 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 ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS FOR MAINTENANCE AND PERFORMANCE TESTING.
[RULE 1110.2, 1303-BACT, 1304(a)(4) – MODELING AND OFFSET EXEMPTION]
4. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED TIME FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE VENT 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]
5. 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 ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR THE GRID OPERATOR.
[RULE 1303-BACT]
6. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, 1303-BACT, 1304(a)(4) MODELING AND OFFSETS EXEMPTIONS]



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7. 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. 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, 1303- BACT(a)(4)-MODELING AND OFFSET EXEMPTIONS]

Emissions and Requirements

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- NOX: 1.5 G/BHP-HR, RULE 1303
 - VOC: 1.5 G/BHP-HR, RULE 1303
 - CO: 2.0 G/BHP-HR, RULE 1303



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Permit No. F58146
A/N 408498

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, CHEMICAL, VERTICAL FLOW WET PACKED TYPE, 10'-0" DIA. X 27'-0" H., WITH A MIST ELIMINATOR AND ASSOCIATED PUMPS.
2. STORAGE TANK, SODIUM HYDROXIDE, 2,500 GALLONS, WITH ASSOCIATED PUMPS.
3. STORAGE TANK, SODIUM HYPOCHLORITE, 2,500 GALLONS, WITH ASSOCIATED PUMPS.
4. EXHAUST SYSTEM WITH A 100 H.P. BLOWER VENTING THE HEADWORKS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE 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 WHENEVER THE HEADWORKS IS IN OPERATION. HOWEVER, THIS EQUIPMENT MAY BE SHUT DOWN FOR A PERIOD NOT EXCEEDING 72 HOURS FOR MAINTENANCE AND NOT EXCEEDING 60 MINUTES DURING ELECTRICAL POWER SOURCE CHANGEOVER DUE TO HIGH POWER DEMAND. SHUTDOWNS DUE TO ELECTRICAL POWER SOURCE CHANGEOVERS SHALL NOT OCCUR MORE THAN ONCE DURING ANY CALENDAR MONTH. EACH SHUTDOWN MUST BE RECORDED WITH DATE, TIME, DURATION AND PURPOSE OF THE SHUTDOWN.
[RULE 1303]
4. WHEN THE EQUIPMENT IS SHUT DOWN FOR MAINTENANCE, PERIMETER MONITORING SHALL BE PERFORMED DOWN WIND OF THE SCRUBBER AND IN THE DIRECTION OF THE RESIDENTIAL AREAS AT LEAST ONCE EVERY 4 HOURS, UNTIL THE SCRUBBER IS IN OPERATION.
[RULE 402]



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5. HYDROGEN SULFIDE FROM THE OUTLET OF THIS AIR POLLUTION CONTROL SYSTEM SHALL NOT EXCEED 1.0 PARTS PER MILLION.
[RULE 402]
6. A FLOWMETER INDICATING GALLONS PER HOUR (G.P.H.) SHALL BE INSTALLED IN THE SCRUBBER SOLUTION RECIRCULATION LINE. NOT LESS THAN 500 GALLONS PER HOUR OF SOLUTION SHALL BE RECIRCULATED THROUGH THE SCRUBBER WHEN THE SCRUBBER IS IN OPERATION.
[RULE 204]
7. A PH METER SHALL BE INSTALLED TO MONITOR THE SCRUBBER SOLUTION. THE PH OF THE SCRUBBER SOLUTION SHALL NOT BE LESS THAN 9.0 OR GREATER THAN 10.5 PH WHEN THE SCRUBBER IS IN OPERATION.
[RULE 204]
8. COMPLIANCE WITH CONDITION NO. 5 SHALL BE DETERMINED WEEKLY, USING DRAEGER TEST TUBES OR ANOTHER TEST METHOD APPROVED BY THE AQMD.
[RULE 204]
9. SODIUM HYDROXIDE AND SODIUM HYPOCHLORITE USAGE SHALL BE RECORDED IN GALLONS PER HOUR. STORAGE TANK FILLING LOGS OR PURCHASE ORDERS FOR THE TANK SOLUTIONS MAY BE USED TO ESTIMATE THE HOURLY USAGE.
[RULE 204]



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Permit No. F63883
A/N 431064

Equipment Description:

SEWAGE TREATMENT FACILITY, 11 MGD TOTAL CAPACITY, CONSISTING OF:

- I. CONVENTIONAL ACTIVATED SLUDGE PLANT, 3 MGD, AEROBIC DIGESTION CONSISTING OF:
 1. LIFT STATION WITH ASSOCIATED PUMPS AND MOTORS.
 2. HEADWORKS WITH RAW SEWAGE PUMPING AND GRINDING SYSTEM, WET WELL AND ASSOCIATED PUMPS.
 3. GRIT REMOVAL CHAMBER, 14'-0" W. X 15'-0" L. X 13'-0" D., WITH A SCREW AUGER AND ASSOCIATED PUMPS.
 4. TWO PRIMARY CLARIFIERS, EACH 15'-0" W. X 65'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
 5. EQUALIZATION BASIN, 1 MILLION GALLON CAPACITY.
 6. TWO AERATION TANKS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D.
 7. THREE SECONDARY CLARIFICATION TANKS, EACH 16'-0" W. X 84'-0" L. X 10'-0" D., WITH ASSOCIATED PUMPS.
 8. SECONDARY SLUDGE WET WELL, 15'-0" W. X 15'-0" L. X 15'-0" D. WITH ASSOCIATED PUMPS.
 9. CHLORINE CONTACT BASIN, 18'-0" W. X 31'-0" L. X 12'-0" D. WITH ASSOCIATED PUMPS.
 10. EFFLUENT PUMPING STATION WITH ASSOCIATED PUMPS.
 11. AEROBIC DIGESTER, 30'-0" W. X 150'-0 L. X 15'-0" D.
 12. SEPTAGE RECEIVING SYSTEM WITH A 20,000 GALLON HOLDING TANK.
 13. SLUDGE PUMPING STATION AND ASSOCIATED PUMPS.
 14. AQUA BELT AND POLYMER ADDITION STATION.
 15. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
 16. TWELVE SLUDGE DRYING BEDS, EACH 100'-0" W. X 160'-0" L.
- II. BARDENPHO PROCESS PLANT, 8 MGD, CONSISTING OF:
 1. LIFT STATION WITH ASSOCIATED PUMPS.
 2. HEADWORKS BUILDING WITH BAR SCREENS, ASSOCIATED PUMPS AND CONVEYORS.
 3. GRIT CHAMBER, NON-AERATED GRAVITY SETTLING TYPE, COVERED, 13,000 GALLON CAPACITY WITH ASSOCIATED MIXERS, CLASSIFIERS AND PUMPS.
 4. BARDENPHO PROCESS AREA, SECONDARY TREATMENT, THREE (3) PARALLEL TRAINS, EACH CONSISTING OF:
 - A. FERMENTATION BASINS, EACH 170,000 GALLON CAPACITY WITH ASSOCIATED MIXERS.
 - B. PRIMARY DENITRIFICATION BASIN, 1,100,000 GALLONS WITH ASSOCIATED MIXERS.
 - C. NITRIFICATION BASIN, 3,600,000 GALLON CAPACITY WITH ASSOCIATED MIXERS AND PUMPS.
 - D. TWO SECONDARY DENITRIFICATION BASINS, EACH 500,000 GALLONS WITH ASSOCIATED PUMPS.
 - E. REAERATION BASINS, 140,000 GALLONS WITH ASSOCIATED AERATION BLOWER.
 5. TWO SECONDARY CLARIFIERS, EACH 1,400,000 GALLONS WITH ASSOCIATED SKIMMERS.
 6. RAS/WAS PUMP STATION WITH ASSOCIATED PUMPS AND GRINDERS.



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7. SLUDGE DEWATERING FACILITY WITH THREE BELT PRESSES, EACH TWO METER, ONE 150 GALLON POLYMER STORAGE TANK, ONE 710 CUBIC FEET SLUDGE HOPPER WITH TRUCK LOADOUT, ASSOCIATED PUMPS AND CONVEYORS.
8. FLOW EQUALIZATION BASIN, 3,600,000 GALLONS WITH ASSOCIATED MIXERS/AERATORS.
9. FLASH MIX PUMP STATION WITH A FLASH MIXING PUMP, CHLORINE, ALUM AND POLYMER INJECTION POINTS.
10. FLOCCULATION BASIN, 45,000 GALLONS.
11. TWO ALUM AND TWO POLYMER MIX FEED PUMPS.
12. SIX TERTIARY FILTERS, EACH 200 SQUARE FEET, SAND BED TYPE.
13. CHLORINE INJECTION/SPLITTER BOX.
14. CHLORINE CONTACT TANK, SPLIT FLOW, THREE COMPARTMENT, EACH COMPARTMENT, 500,000 GALLONS.
15. SO₂ INJECTION BOX.
16. EFFLUENT PUMPING STATION AND ASSOCIATED PUMPS.
17. LIQUID ALUM STORAGE TANK, 12'-0" DIA. X 24'-0" H., 18,000 GALLON CAPACITY.
18. POLYMER SOLUTION STORAGE TANK, 8'-0" DIA. X 18'-0" H., 6,000 GALLON CAPACITY.
19. POLYMER EMULSION STORAGE TANK, 3'-0" DIA. X 4'-0" H., 150 GALLON CAPACITY.
20. SODIUM HYDROXIDE STORAGE TANK, 2210 GALLON CAPACITY WITH ASSOCIATED PUMPS.
21. ONE (1) SLUDGE DRYING BED, 240'-0" W. X 625'-0" L. X 0'-8" D.
22. ONE (1) SEPTAGE RECEIVING SYSTEM.

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 AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THE MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT SHALL NOT EXCEED 11 MILLION GALLONS IN ANY ONE DAY, EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]
5. THE WET WELL SHALL REMAIN SEALED EXCEPT DURING INSPECTION AND MAINTENANCE. OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED AT THE WET WELL.
[RULE 1303]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

6. THE FACILITY OPERATOR SHALL CONDUCT H₂S MONITORING, USING AN ITX MULTI-GAS MONITOR OR EQUIVALENT ELECTROCHEMICAL SENSOR ACCURATE TO 1 PPM, DURING INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT. THE MONITOR SHALL BE PROPERLY CALIBRATED BEFORE EACH DAILY USE. THE MONITORING SHALL BE CONDUCTED OUTSIDE OF THE WET WELL ENTRANCE DOOR AND THE AREA ABOVE THE WET WELL COMPARTMENT. RESULTS OF THE H₂S MONITORING SHALL BE RECORDED AT A MINIMUM OF 15 MINUTE INTERVALS.
[RULE 431.1]

7. WHENEVER THE H₂S CONCENTRATION MONITORED DURING INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT EXCEEDS DETECTION LIMITS OF THE H₂S MONITORING DEVICE, RELATIVE TO BACKGROUND CONCENTRATIONS, THE WET WELL INSPECTION/MAINTENANCE EVENT SHALL BE DISCONTINUED AND THE WET WELL DOOR SHALL BE CLOSED.
[RULE 431.1]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G3951
A/N 466470

Equipment Description:

STORAGE TANK, NO. 1, LIQUEFIED PROPANE GAS, 9'-0" D. X 41'-6" L., PRESSURIZED, 18,328 GALLONS (76,700 POUNDS) CAPACITY, WITH PRESSURE RELIEF VALVE.

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 USED ONLY TO STORE LIQUEFIED PROPANE GAS.
[RULE 204]
4. THE OPERATOR SHALL FILL THE TANK ONLY WITH A CLOSED SYSTEM WHICH DOES NOT VENT VAPORIZED GAS INTO THE ATMOSPHERE.
[RULE 204]
5. THE OPERATOR SHALL INSTALL AND MAINTAIN PRESSURE RELIEF VALVE WHICH IS SET AT A MINIMUM PRESSURE OF 250 PSIG.
[RULE 204]
6. THE OPERATOR SHALL FILL THE TANK AT A FLOW RATE AND TEMPERATURE WHICH DOES NOT CAUSE THE PRESSURE INSIDE THE STORAGE TANK TO EXCEED 250 PSIG.
[RULE 204]
7. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO MONITOR THE PRESSURE INSIDE THE STORAGE TANK.
[RULE 204]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. ONCE PER MONTH, AND AFTER EACH TANK FILLING OPERATION, THE OPERATOR SHALL MEASURE AND RECORD THE PRESSURE OF THE STORAGE TANK.
[RULE 204]

9. THE OPERATOR SHALL NOT FILL THIS STORAGE TANK MORE THAN ONCE PER CALENDAR MONTH.
[RULE 1304 – OFFSET]

10. RECORDS SHALL BE MAINTAINED AND RETAINED FOR A PERIOD NOT LESS THAN FIVE YEARS, AND INCLUDE THE TEMPERATURE AND PRESSURE INSIDE THE STORAGE TANK, QUANTITY OF THE MOST RECENT FILLING OF THE STORAGE TANK, AND THE DATE OF THE DELIVERY OF THE LPG.
[RULE 204]

Emissions and Requirements:

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

VOC: RULE 442



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

PERMIT TO OPERATE

**Permit No. G3952
A/N 466471**

Equipment Description:

STORAGE TANK, NO. 2, LIQUEFIED PROPANE GAS, 6'-0" D. X 52'-7" L., PRESSURIZED, 10,677 GALLONS (44,630 POUNDS) CAPACITY, WITH PRESSURE RELIEF VALVE.

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 USED ONLY TO STORE LIQUEFIED PROPANE GAS.
[RULE 204]
4. THE OPERATOR SHALL FILL THE TANK ONLY WITH A CLOSED SYSTEM WHICH DOES NOT VENT VAPORIZED GAS INTO THE ATMOSPHERE.
[RULE 204]
5. THE OPERATOR SHALL INSTALL AND MAINTAIN PRESSURE RELIEF VALVE WHICH IS SET AT A MINIMUM PRESSURE OF 250 PSIG.
[RULE 204]
6. THE OPERATOR SHALL FILL THE TANK AT A FLOW RATE AND TEMPERATURE WHICH DOES NOT CAUSE THE PRESSURE INSIDE THE STORAGE TANK TO EXCEED 250 PSIG.
[RULE 204]
7. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO MONITOR THE PRESSURE INSIDE THE STORAGE TANK.
[RULE 204]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. ONCE PER MONTH, AND AFTER EACH TANK FILLING OPERATION, THE OPERATOR SHALL MEASURE AND RECORD THE TEMPERATURE AND PRESSURE OF THE STORAGE TANK.
[RULE 204]
9. THE OPERATOR SHALL NOT FILL THIS STORAGE TANK MORE THAN ONCE PER CALENDAR MONTH.
[RULE 1304 – OFFSET]
10. RECORDS SHALL BE MAINTAINED AND RETAINED FOR A PERIOD NOT LESS THAN FIVE YEARS, AND INCLUDE THE TEMPERATURE AND PRESSURE INSIDE THE STORAGE TANK, QUANTITY OF THE MOST RECENT FILLING OF THE STORAGE TANK, AND THE DATE OF THE DELIVERY OF THE LPG.
[RULE 204]

Emissions and Requirements:

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

VOC: RULE 442



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G3953
A/N 448527

Equipment Description:

INTERNAL COMBUSTION ENGINE, ENGINE NO. 1, CATERPILLAR, MODEL G342 NA HCR, NATURALLY ASPIRATED, SIX CYLINDERS, FOUR CYCLE, 225 BHP, NATURAL GAS FUELED WITH LIQUID PROPANE GAS (LPG) AS BACK-UP FUEL, SINGLE EXHAUST WITH A HOUSTON INDUSTRIAL SILENCING CATALYTIC CONVERTER/MUFFLER, MODEL DN/S-2605H, DRIVING AN AERATION BLOWER, AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL NO. EPC-100.

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. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 3004(a)(4)]
4. A MANOMETER SHALL BE INSTALLED TO MEASURE THE PRESSURE DROP ACROSS THE CATALYST. THE PRESSURE DROP SHALL NOT EXCEED 16 INCHES OF WATER COLUMN (W.C.).
[RULE 1303]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1110.2.
[RULE 1110.2]
6. THIS ENGINE SHALL USE LPG FUEL ONLY DURING NATURAL GAS CURTAILMENT OR DURING PERIODS OF TESTING NOT TO EXCEED 24 HOURS PER YEAR.
[RULE 1303]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

Periodic Monitoring:

7. 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 1303(a)(1)-BACT, RULE 3004(a)(4)]
8. THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED 0.5 PERCENT OXYGEN.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
9. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH CONDITION 8. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
10. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
12. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1300 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
13. THE MINIMUM TEMPERATURE AT THE INLET OF THE CATALYST SHALL BE ABOVE 650 DEGREES FAHRENHEIT, EXCEPT DURING AN ENGINE COLD START NOT TO EXCEED 30 MINUTES.
[RULE 1303 (a)-BACT]
14. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]

Emissions and Requirements:

15. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 36 PPMV, RULE 1110.2
VOC: 250 PPMV, RULE 1110.2
CO: 2000 PPMV, RULE 1110.2



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G3954
A/N 485931

Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 2, CATERPILLAR, MODEL G342 NA HCR, NATURALLY ASPIRATED, SIX CYLINDERS, FOUR CYCLE, 225 BHP, NATURAL GAS FUELED WITH LIQUID PROPANE GAS (LPG) AS BACK-UP FUEL, SINGLE EXHAUST WITH A HOUSTON INDUSTRIAL SILENCING CATALYTIC CONVERTER/MUFFLER, MODEL DN/S-2605H, DRIVING AN AERATION BLOWER AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL NO. EPC-100.

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. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 3004(a)(4)]
4. A MANOMETER SHALL BE INSTALLED TO MEASURE THE PRESSURE DROP ACROSS THE CATALYST. THE PRESSURE DROP SHALL NOT EXCEED 16 INCHES OF WATER COLUMN (W.C.).
[RULE 1303]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1110.2.
[RULE 1110.2]
6. THIS ENGINE SHALL USE LPG FUEL ONLY DURING NATURAL GAS CURTAILMENT OR DURING PERIODS OF TESTING NOT TO EXCEED 24 HOURS PER YEAR.
[RULE 1303]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

Periodic Monitoring:

7. 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 1303(a)(1)-BACT, RULE 3004(a)(4)]
8. THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED 0.5 PERCENT OXYGEN.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
9. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH CONDITION 8. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
10. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
12. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1300 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
13. THE MINIMUM TEMPERATURE AT THE INLET OF THE CATALYST SHALL BE ABOVE 650 DEGREES FAHRENHEIT, EXCEPT DURING AN ENGINE COLD START NOT TO EXCEED 30 MINUTES.
[RULE 1303 (a)-BACT]
14. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]

Emissions and Requirements:

15. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 36 PPMV, RULE 1110.2
VOC: 250 PPMV, RULE 1110.2
CO: 2000 PPMV, RULE 1110.2



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G3955
A/N 485932

Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 3, CATERPILLAR, MODEL G342 NA HCR, NATURALLY ASPIRATED, SIX CYLINDERS, FOUR CYCLE, 225 BHP, NATURAL GAS FUELED WITH LIQUID PROPANE GAS (LPG) AS BACK-UP FUEL, SINGLE EXHAUST WITH A HOUSTON INDUSTRIAL SILENCING CATALYTIC CONVERTER/MUFFLER, MODEL DN/S-2605H, DRIVING AN AERATION BLOWER AND AN AIR-TO-FUEL RATIO CONTROLLER, GILL INSTRUMENTS, MODEL NO. AF120.

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. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 3004(a)(4)]
4. A MANOMETER SHALL BE INSTALLED TO MEASURE THE PRESSURE DROP ACROSS THE CATALYST. THE PRESSURE DROP SHALL NOT EXCEED 16 INCHES OF WATER COLUMN (W.C.).
[RULE 1303]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1110.2.
[RULE 1110.2]
6. THIS ENGINE SHALL USE LPG FUEL ONLY DURING NATURAL GAS CURTAILMENT OR DURING PERIODS OF TESTING NOT TO EXCEED 24 HOURS PER YEAR.
[RULE 1303]

Periodic Monitoring:

7. 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 1303(a)(1)-BACT, RULE 3004(a)(4)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED 0.5 PERCENT OXYGEN.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
9. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH CONDITION 8. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
10. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
12. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1300 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
13. THE MINIMUM TEMPERATURE AT THE INLET OF THE CATALYST SHALL BE ABOVE 650 DEGREES FAHRENHEIT, EXCEPT DURING AN ENGINE COLD START NOT TO EXCEED 30 MINUTES.
[RULE 1303 (a)-BACT]
14. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]

Emissions and Requirements:

15. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NO_x: 36 PPMV, RULE 1110.2
 - NO_x: 1.5 gram/BHP-Hr, RULE 1303-BACT
 - VOC: 250 PPMV, RULE 1110.2
 - VOC: 1.0 gram/BHP-Hr, RULE 1303-BACT
 - CO: 2000 PPMV, RULE 1110.2
 - CO: 1.5 gram/BHP-Hr, RULE 1303-BACT



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

PERMIT TO CONSTRUCT/OPERATE

**Permit No. G9937
A/N 499897**

Equipment Description:

DIGESTER GAS TREATMENT SYSTEM AND FUEL CELL POWER PLANT CONSISTING OF:

1. KNOCKOUT TANK.
2. TWO HYDROGEN SULFIDE REMOVAL VESSELS, APPLIED FILTER TECHNOLOGY, ESC CORPORATION, OR EQUIVALENT, AT LEAST 10'-0" DIA. X 10'-0" H., EACH WITH AT LEAST 25,000 POUNDS MEDIA.
3. PARTICULATE FILTER.
4. PRE-COOLER WITH DEMISTER.
5. ONE COMPRESSOR, 325 SCFM, ELECTRICALLY DRIVEN.
6. GAS PRE-COOLER AND COOLER WITH DEMISTER.
7. GAS RE-HEATER / HEAT EXCHANGER.
8. TWO SILOXANE REMOVAL VESSELS, APPLIED FILTER TECHNOLOGY, ESC CORPORATION, OR EQUIVALENT, AT LEAST 4'-0" DIA. X 8'-0" H. BED DEPTH, EACH CONTAINING AT LEAST 2,500 POUNDS MEDIA.
9. PARTICULATE FILTER.
10. TWO FUEL CELLS, FUEL-CELL ENERGY, MODEL DFC300MA, 600 KW TOTAL MAXIMUM POWER OUTPUT.
11. TWO HEAT RECOVERY UNITS, EACH WITH AN ELECTRIC HEATER.

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]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

3. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO SCAQMD FOR APPROVAL, THE FINAL DIGESTER GAS TREATMENT SYSTEM AND FUEL CELL POWER PLANT DESIGN DRAWINGS, P&I DIAGRAMS, CONTROLS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL, DIMENSIONS, SIZE AND MAXIMUM CAPACITY) AND MANUFACTURER'S EMISSION CERTIFICATION, PRIOR TO INSTALLATION OF THE EQUIPMENT.
[RULE 204]
4. THIS EQUIPMENT SHALL BE USED ONLY FOR THE TREATMENT/CONTROL OF DIGESTER GAS, AND THE GENERATION OF ELECTRICITY AND HOT WATER, EXCEPT WHEN NATURAL GAS IS REQUIRED AS FUEL TO MAINTAIN FUEL CELL OPERATION.
[RULE 204]
5. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW DIGESTER GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF DIGESTER GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOURS OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLY SHOULD HAVE KNOWN OF THE OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 204, RULE 402]
6. A NON-RESETTABLE TOTALIZING FLOW METER SHALL BE INSTALLED AND MAINTAINED TO MEASURE AND RECORD THE TOTAL QUANTITY OF GAS TREATED.
[RULE 204]
7. SAMPLING PORTS SHALL BE INSTALLED AT THE INLET GAS LINE TO THE DIGESTER GAS TREATMENT SYSTEM AND TO THE FUEL-CELL PRE-CONVERTER TO ALLOW THE COLLECTION OF DIGESTER GAS SAMPLES.
[RULE 217]
8. TWO SAMPLING PORTS SHALL BE PROVIDED IN THE FUEL-CELL EXHAUST DUCT, 8-10 DUCT DIAMETERS DOWNSTREAM, AND TWO DUCT DIAMETERS UPSTREAM. THE SAMPLING PORT SHALL CONSIST OF TWO 4 INCH OUTLETS WITH BLIND FLANGE CONNECTIONS, SET 90 DEGREES APART. AN ALTERNATE SAMPLING LOCATION OR EQUIVALENT METHOD FOR EMISSION SAMPLING MAY BE USED UPON WRITTEN APPROVAL OF THE SCAQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE SUPPLIED BY THE APPLICANT.
[RULE 217]
9. THE OPERATOR SHALL MEASURE THE CONCENTRATION OF TOTAL SULFUR AT THE INLET AND OUTLET OF THE DIGESTER GAS TREATMENT SYSTEM ONCE EACH QUARTER, USING METHODS APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED AND REPORTED IN PPMV AS H₂S.
[RULE 204]
10. THE CONCENTRATION OF SULFUR COMPOUNDS MEASURED AS HYDROGEN SULFIDE (H₂S) AT THE INLET TO THE FUEL CELL PRE-CONVERTER SHALL NOT EXCEED 6.1 PPMV.
[RULE 204]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

11. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THIS EQUIPMENT IS NOT COMPLETED BY SEPTEMBER 9, 2011, UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 205]
12. THE SPENT MEDIA WHICH IS REMOVED FROM THE SYSTEM SHALL BE MAINTAINED OR STORED IN CLOSED CONTAINERS PRIOR TO REMOVAL FROM THE FACILITY.
[RULE 402]
13. THE SULFUR AND SILOXANE TREATMENT MEDIA SHALL BE REPLACED AT A FREQUENCY NECESSARY TO MAINTAIN COMPLIANCE WITH THE EMISSION LIMITS IN THIS PERMIT AND TO OPERATE THE FUEL CELL IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
[RULE 204]
14. THE TOTAL VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS FROM THE FUEL CELLS SHALL NOT EXCEED 0.08 LBS/HR (1.95 LBS/DAY).
[RULE 1303-OFFSET]
15. ONCE EVERY FIVE YEARS, THE OPERATOR SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN SIXTY (60) DAYS AFTER TESTING. WRITTEN NOTICE OF THE SOURCE TEST SHALL BE PROVIDED TO THE SCAQMD AT LEAST 7 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT. A PROPOSAL OF SOURCE TEST PROCEDURES AND ANALYTICAL METHODS TO BE USED SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST 60 DAYS PRIOR TO THE START OF THE TEST. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE OUTLET EXHAUST OF AT LEAST ONE FUEL CELL, THE RAW DIGESTER GAS, AND THE TREATED DIGESTER GAS, UNLESS OTHERWISE INDICATED BELOW. THE TEST SHALL INCLUDE THE FOLLOWING RESULTS AND PROCESS DATA:
 - A. METHANE CONTENT OF THE RAW AND TREATED DIGESTER GAS.
 - B. TOTAL NON-METHANE ORGANIC COMPOUNDS OF THE RAW DIGESTER GAS, TREATED DIGESTER GAS, AND AT LEAST ONE FUEL CELL EXHAUST OUTLET.
 - C. OXIDES OF NITROGEN AND OXIDES OF SULFUR (AT LEAST ONE FUEL CELL OUTLET) IN PPM AND LBS/HR.
 - D. CARBON MONOXIDE, (AT LEAST ONE FUEL CELL OUTLET), IN PPM, AND LBS/HR.
 - E. OXYGEN CONTENT.
 - F. MOISTURE CONTENT.
 - G. TEMPERATURE OF THE FUEL CELL.
 - H. TEMPERATURE AT INLET AND OUTLET OF THE PRE-CONVERTER.
 - I. FLOW RATE OF THE FUEL CELL EXHAUST OUTLET.



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- J. TOTAL REDUCED SULFUR COMPOUNDS (RAW DIGESTER GAS AND TREATED DIGESTER GAS).
 - K. POWER OUTPUT OF THE FUEL CELL.
 - L. BTU CONTENT OF THE TREATED DIGESTER GAS.
 - M. FUEL UTILIZATION OF THE FUEL CELL.
 - N. TREATED DIGESTER GAS FEED RATE TO THE PRE-CONVERTER.
[RULE 204, RULE 1303-OFFSET, RULE 3004(a)(4)]
16. IF THE OPERATION OF THIS EQUIPMENT RESULTS IN ODOR COMPLAINTS, THE WORK SHALL CEASE AND MITIGATION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE EMISSIONS CAUSING THE COMPLAINTS ARE MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE SCAQMD.
[RULE 402]
17. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL KEEP RECORDS OF OPERATING AND MONITORING DATA, AND TREATMENT MEDIA REPLACEMENT DATES. THESE RECORDS SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUESTS.
[RULE 3004(a)(4)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G9939
A/N 503372

Equipment Description:

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL 9390 GSI, SERIAL NO. C10379/2, NATURAL GAS FIRED WITH LPG AS STANDBY FUEL, 16-CYLINDER, FOUR CYCLE, RICH BURN, TURBOCHARGED, AFTERCOOLED, 1970 BHP, WITH AUTOMATIC AIR-TO-FUEL RATIO CONTROLLER, DRIVING AN EMERGENCY ELECTRIC GENERATOR, VENTED TO A THREE WAY CATALYST, MIRATECH, MODEL NO. EQSY48361X2-18-C4.

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 NATURAL GAS ONLY. LPG MAY BE USED IN THE EVENT OF NATURAL GAS CURTAILMENT AND TESTING.
[RULE 1303(a)(1)-BACT]
4. 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 1303]
5. 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 1303(a)(1)-BACT]
6. THE CATALYTIC CONVERTER TEMPERATURE AND OXYGEN CONCENTRATION AT THE OUTLET OF THIS ENGINE SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER.
[RULE 1303(a)(1)-BACT]
7. THIS ENGINE SHALL BE EQUIPPED WITH AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME.



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[RULE 1110.2, RULE 1303(a)(1)-BACT]

8. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1303]
9. OPERATION BEYOND 50 HOURS PER YEAR FOR MAINTENANCE AND TESTING IS ALLOWED ONLY DURING EMERGENCIES RESULTING IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCIES DECLARED BY THE ELECTRICAL GRID OPERATOR. OPERATORS ARE ALLOWED TO USE EMERGENCY SPARK-IGNITION ENGINES AS PART OF AN INTERRUPTIBLE ELECTRIC SERVICE PROGRAM.
[RULE 1303(a)(1)-BACT]
10. 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. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION).
 - D. FUEL CONSUMPTION OF EACH FUEL TYPE.[RULE 204, RULE 1303]
11. THE OPERATOR SHALL COMPLY WITH THE APPLICABLE AREA SOURCE REQUIREMENTS FOR EXISTING STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF 40 CFR PART 63 SUBPART ZZZZ – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR RECIPROCATING INTERNAL COMBUSTION ENGINES.
[40CFR63- SUBPART ZZZZ]

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: 0.15 GM/BHP-HR, RULE 1303
VOC: 0.15 GM/BHP-HR, RULE 1303
CO: 0.60 GM/BHP-HR, RULE 1303



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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, ARCHITECTURAL COATINGS

Emissions And Requirements:

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

VOC: RULE 1113



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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions And Requirements:

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

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS.



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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HALON EMISSIONS FROM FIRE EXTINGUISHING EQUIPMENT

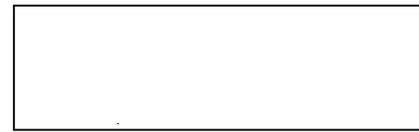
Emissions And Requirements:

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

HALON: RULE 1418



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

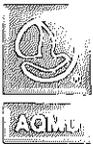




**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

**Permit to Construct and Temporary Permit to Operate
(Section H)**

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



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Application number	Permit number	Equipment description	Page #
440505	-	SEWAGE TREATMENT (>5 MG/D) AEROBIC	3
466467	-	SEWAGE TREATMENT (>5 MG/D) AEROBIC	7
471708	-	BIOFILTER (>100 CFM)	11
475857	-	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	14
496805	-	ICE (>500 HP) EMERGENCY ELEC. GENERATOR NAT GAS	18
505538	-	BOILER (5-20 MMBTU/HR) OTHER FUEL	20

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

GRANTED AS OF: June 27, 2006
A/N 440505

Equipment Description:

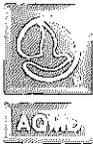
MODIFICATION TO SEWAGE TREATMENT FACILITY, 11 MGD TOTAL CAPACITY, CONSISTING OF:

I. CONVENTIONAL ACTIVATED SLUDGE PLANT, 3 MGD, AEROBIC DIGESTION CONSISTING OF:

1. LIFT STATION WITH ASSOCIATED PUMPS AND MOTORS.
2. HEADWORKS WITH RAW SEWAGE PUMPING AND GRINDING SYSTEM, WET WELL AND ASSOCIATED PUMPS.
3. GRIT REMOVAL CHAMBER, 14'-0" W. X 15'-0" L. X 13'-0" D., WITH A SCREW AUGER AND ASSOCIATED PUMPS.
4. TWO PRIMARY CLARIFIERS, EACH 15'-0" W. X 65'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
5. EQUALIZATION BASIN, 1 MILLION GALLON CAPACITY.
6. TWO AERATION TANKS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D.
7. THREE SECONDARY CLARIFICATION TANKS, EACH 16'-0" W. X 84'-0" L. X 10'-0" D., WITH ASSOCIATED PUMPS.
8. SECONDARY SLUDGE WET WELL, 15'-0" W. X 15'-0" L. 15'-0" D. WITH ASSOCIATED PUMPS.
9. CHLORINE CONTACT BASIN, 18'-0" W. X 31'-0" L. X 12'-0" D. WITH ASSOCIATED PUMPS.
10. EFFLUENT PUMPING STATION WITH ASSOCIATED PUMPS.
11. AEROBIC DIGESTER, 30'-0" W. X 150'-0" L. X 15'-0" D.
12. SEPTAGE RECEIVING SYSTEM WITH A 20,000 GALLON HOLDING TANK.
13. SLUDGE PUMPING STATION AND ASSOCIATED PUMPS.
14. AQUA BELT AND POLYMER ADDITION STATION.
15. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
16. TWELVE SLUDGE DRYING BEDS, EACH 100'-0" W. X 160'-0" L.

II. BARDENPHO PROCESS PLANT, 8 MGD, CONSISTING OF:

1. LIFT STATION WITH ASSOCIATED PUMPS.
2. HEADWORKS BUILDING WITH BAR SCREENS, ASSOCIATED PUMPS AND CONVEYORS.
3. GIRT CHAMBER, NON-AERATED GRAVITY SETTLING TYPE, COVERED, 13,000 GALLON CAPACITY WITH ASSOCIATED MIXERS, CLASSIFIERS AND PUMPS.
4. BARDENPHO PROCESS AREA, SECONDARY TREATMENT, CONSISTING OF:
 - A. FERMENTATION BASINS, EACH 170,000 GALLON CAPACITY WITH ASSOCIATED MIXERS.
 - B. PRIMARY DENITRIFICATION BASIN, 1,100,000 GALLONS WITH ASSOCIATED MIXERS.
 - C. NITRIFICATION BASIN, 3,600,000 GALLON CAPACITY WITH ASSOCIATED MIXERS AND PUMPS.
 - D. TWO SECONDARY DENITRIFICATION BASINS, EACH 500,000 GALLONS WITH ASSOCIATED PUMPS.
 - E. REAERATION BASINS, 140,000 GALLONS WITH ASSOCIATED AERATION BLOWER.



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5. TWO SECONDARY CLARIFIERS, EACH 1,400,000 GALLONS WITH ASSOCIATED SKIMMERS.
6. RAS/WAS PUMP STATION WITH ASSOCIATED PUMPS AND GRINDERS.
7. SLUDGE DEWATERING FACILITY WITH THREE BELT PRESSES, EACH TWO METER, ONE 150 GALLON POLYMER STORAGE TANK, ONE 710 CUBIC FEET SLUDGE HOPPER WITH TRUCK LOADOUT, ASSOCIATED PUMPS AND CONVEYORS.
8. FLOW EQUALIZATION BASIN, 3,600,000 GALLONS WITH ASSOCIATED MIXERS/AERATORS.
9. FLASH MIX PUMP STATION WITH A FLASH MIXING PUMP, CHLORINE, ALUM AND POLYMER INJECTION POINTS.
10. FLOCCULATION BASIN, 45,000 GALLONS.
11. TWO ALUM AND TWO POLYMER MIX FEED PUMPS.
12. SIX TERTIARY FILTERS, EACH 200 SQUARE FEET, SAND BED TYPE.
13. CHLORINE INJECTION/SPLITTER BOX.
14. CHLORINE CONTACT TANK, SPLIT FLOW, THREE COMPARTMENTS, EACH COMPARTMENT, 500,000 GALLONS CAPACITY.
15. SO₂ INJECTION BOX.
16. EFFLUENT PUMPING STATION AND ASSOCIATED PUMPS.
17. LIQUID ALUM STORAGE TANK, 12'-0" DIA. X 24'-0" H., 18,000 GALLON CAPACITY.
18. POLYMER SOLUTION STORAGE TANK, 8'-0" DIA. X 18'-0" H., 6,000 GALLON CAPACITY.
19. POLYMER EMULSION STORAGE TANK, 3'-0" DIA. X 4'-0" H., 150 GALLON CAPACITY.
20. SODIUM HYDROXIDE STORAGE TANK, 2210 GALLON CAPACITY WITH ASSOCIATED PUMPS.
21. ONE (1) SLUDGE DRYING BED, 240'-0" W. X 625'-0" L. X 0'-8" D.
22. ONE (1) SEPTAGE RECEIVING SYSTEM.

BY ADDITION OF THE FOLLOWING TO THE BARDENPHO PROCESS:

1. TWO SECONDARY CLARIFIERS, EACH 1,400,000 GALLONS WITH ASSOCIATED SKIMMERS.

BY REMOVAL OF THE FOLLOWING FROM THE BARDENPHO PROCESS:

1. CHLORINE CONTACT BASIN, 18'-0" W. X 31'-0" L. X 12'-0" D. WITH ASSOCIATED PUMPS.
2. EFFLUENT PUMPING STATION WITH ASSOCIATED PUMPS.
3. FLOW EQUALIZATION BASIN, 3,600,000 GALLONS WITH ASSOCIATED MIXERS/AERATORS.
4. FLASH MIX PUMP STATION WITH A FLASH MIXING PUMP, CHLORINE, ALUM AND POLYMER INJECTION POINTS.
5. FLOCCULATION BASIN, 45,000 GALLONS.
6. TWO ALUM AND TWO POLYMER MIX FEED PUMPS.
7. SIX TERTIARY FILTERS, EACH 200 SQUARE FEET, SAND BED TYPE.
8. CHLORINE INJECTION/SPLITTER BOX.
9. CHLORINE CONTACT TANK, SPLIT FLOW, THREE COMPARTMENTS, EACH COMPARTMENT, 500,000 GALLONS CAPACITY.
10. SO₂ INJECTION BOX.
11. EFFLUENT PUMPING STATION AND ASSOCIATED PUMPS.
12. LIQUID ALUM STORAGE TANK, 12'-0" DIA. X 24'-0" H., 18,000 GALLON CAPACITY.
13. POLYMER SOLUTION STORAGE TANK, 8'-0" DIA. X 18'-0" H., 6,000 GALLON CAPACITY.
14. POLYMER EMULSION STORAGE TANK, 3'-0" DIA. X 4'-0" H., 150 GALLON CAPACITY.
15. SODIUM HYDROXIDE STORAGE TANK, 2210 GALLON CAPACITY WITH ASSOCIATED PUMPS.



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AND ADDITION OF THE FOLLOWING TO THE TERTIARY TREATMENT PLANT, 22 MGD CAPACITY:

1. TWO FLOW EQUALIZATION BASINS, EACH 1,800,000 GALLONS WITH ASSOCIATED MIXERS/AERATORS.
2. TWO FLOW EQUALIZATION BASINS, EACH 4,800,000 GALLONS WITH ASSOCIATED MIXERS/AERATORS.
3. OUT-OF-COMPLIANCE POND, 12,300,000 GALLON CAPACITY.
4. FLASH MIX PUMP STATION WITH A FLASH MIXING PUMP, CHLORINE, ALUM AND POLYMER INJECTION POINTS.
5. FLOCCULATION BASIN, 45,000 GALLONS.
6. TWO ALUM AND TWO POLYMER MIX FEED PUMPS.
7. TWO FLOCCULATION BASINS WITH ASSOCIATED MIXERS, 2 CELLS PER BASIN, EACH CELL 18'-0" W. X 12'-0" L. X 18'-0" DEEP.
8. SIX TERTIARY FILTERS, EACH 200 SQUARE FEET, SAND BED TYPE.
9. ONE TEMPORARY TERTIARY FILTER, ROTARY DISC CLOTH TYPE, WITH A RATED 5.5 MGD PEAK FLOW.
10. SIX TERTIARY FILTERS, EACH 636 SQUARE FEET, ROTARY DISC CLOTH TYPE.
11. ONE TEMPORARY CHLORINE CONTACT BASIN, 79'-3" L. X 79'-3" W. X 5'-0" H.
12. FOUR CHLORINE CONTACT BASINS, 11'-0" W. (EACH PASS) X 110'-0" L. (EACH PASS) WITH FIVE PASSES, WITH ASSOCIATED PUMPS.
13. CHLORINE INJECTION/SPLITTER BOX.
14. SO₂ INJECTION BOX.
15. EFFLUENT PUMPING STATION AND ASSOCIATED PUMPS.
16. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
17. LIQUID ALUM STORAGE TANK, 12'-0" DIA. X 24'-0" H., 18,000 GALLON CAPACITY.
18. POLYMER SOLUTION STORAGE TANK, 8'-0" DIA. X 18'-0" H., 6,000 GALLON CAPACITY.
19. POLYMER EMULSION STORAGE TANK, 3'-0" DIA. X 4'-0" H., 150 GALLON CAPACITY.
20. SODIUM HYDROXIDE STORAGE TANK, 2210 GALLON CAPACITY WITH ASSOCIATED PUMPS.

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 AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]



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4. THE AVERAGE DAILY INFLUENT WASTEWATER TREATED BY THIS EQUIPMENT, ON AN ANNUAL BASIS, SHALL NOT EXCEED 11 MILLION GALLONS PER DAY (MGD), EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]
5. THE WET WELL SHALL REMAIN SEALED EXCEPT DURING INSPECTION AND MAINTENANCE. THE OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED AT THE WET WELL.
[RULE 1303]
6. THE FACILITY OPERATOR SHALL CONDUCT H₂S MONITORING, USING AN ITX MULTI-GAS MONITOR OR EQUIVALENT ELECTROCHEMICAL SENSOR ACCURATE TO 1 PPM, DURING INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT. THE MONITORING SHALL BE PROPERLY CALIBRATED BEFORE EACH DAILY USE. THE MONITORING SHALL BE CONDUCTED OUTSIDE OF THE WET WELL ENTRANCE DOOR AND THE AREA ABOVE THE WET WELL COMPARTMENT. RESULTS OF THE H₂S MONITORING SHALL BE RECORDED AT A MINIMUM OF 15 MINUTE INTERVALS.
[RULE 431.1]
7. WHENEVER THE H₂S CONCENTRATION MONITORED DURING INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT EXCEEDS DETECTION LIMITS OF THE H₂S MONITORING DEVICE, RELATIVE TO BACKGROUND CONCENTRATIONS, THE WET WELL INSPECTIONS/MAINTENANCE EVENT SHALL BE DISCONTINUED AND THE WET WELL DOOR SHALL BE CLOSED.
[RULE 402]

Periodic Monitoring:

8. THE FACILITY OWNER OR OPERATOR SHALL MEASURE AND RECORD THE QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT.
[RULE 1303, RULE 3004(a)(4)]



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PERMIT TO CONSTRUCT

GRANTED AS OF: Nov. 9, 2007
A/N 466467

Equipment Description:

WASTEWATER TREATMENT PLANT, 25 MGD CAPACITY, CONSISTING OF THE FOLLOWING:

- I. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 1, 3 MGD CAPACITY, AEROBIC DIGESTION CONSISTING OF:
 1. LIFT STATION WITH ASSOCIATED PUMPS AND MOTORS.
 2. HEADWORKS WITH RAW SEWAGE PUMPING AND GRINDING SYSTEM, WET WELL AND ASSOCIATED PUMPS.
 3. GRIT REMOVAL CHAMBER, 14'-0" W. X 15'-0" L. X 13'-0" D., WITH A SCREW AUGER AND ASSOCIATED PUMPS.
 4. TWO PRIMARY CLARIFIERS, EACH 15'-0" W. X 65'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
 5. EQUALIZATION BASIN, 1 MILLION GALLON CAPACITY.
 6. TWO AERATION TANKS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D.
 7. THREE SECONDARY CLARIFICATION TANKS, EACH 16'-0" W. X 84'-0" L. X 10'-0" D., WITH ASSOCIATED PUMPS.
 8. SECONDARY SLUDGE WET WELL, 15'-0" W. X 15'-0" L. 15'-0" D. WITH ASSOCIATED PUMPS.
 9. AEROBIC DIGESTER, 30'-0" W. X 150'-0" L. X 15'-0" D.
 10. SEPTAGE RECEIVING SYSTEM WITH A 20,000 GALLON HOLDING TANK.
 11. SLUDGE PUMPING STATION AND ASSOCIATED PUMPS.
 12. AQUA BELT AND POLYMER ADDITION STATION.
 13. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
 14. TERTIARY FILTER, 10'-0" W. X 20'-0" L.
 15. CHLORINE CONTACT BASIN, 86'-9" W. X 86'-9" L.
 16. TWELVE SLUDGE DRYING BEDS, EACH 100'-0" W. X 160'-0" L.

- II. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 2, 12 MGD CAPACITY, ANAEROBIC CONSISTING OF:
 1. INFLUENT PUMP STATION WITH ASSOCIATED PUMPS AND MOTORS.
 2. HEADWORKS BUILDING WITH BAR SCREENS, ASSOCIATED PUMPS AND CONVEYORS.
 3. GIRT CHAMBERS, THREE TANKS, EACH 18'-0" W. X 11'-4" D.
 4. PRIMARY INFLUENT SPLITTER BOX, 26'-7" W. X 16'-10" L. X 24'-3" D.
 5. THREE PRIMARY CLARIFIERS, EACH 100'-0" DIA. X 14'-0" D.
 6. PRIMARY EFFLUENT SPLITTER BOX, 29'-0" W. X 20'-9" L. X 20'-3" D.
 7. BARDENPHO PROCESS AREA, SECONDARY TREATMENT CONSISTING OF:
 - A. FERMENTATION BASINS, EACH 170,000 GALLONS CAPACITY WITH ASSOCIATED MIXERS.
 - B. PRIMARY DENITRIFICATION BASIN, 1,100,000 GALLONS CAPACITY, WITH ASSOCIATED PUMPS AND BUBBLE AERATION SYSTEM.



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- C. NITRIFICATION BASIN, 3,600,000 GALLONS CAPACITY WITH ASSOCIATED PUMPS AND BUBBLE AERATION SYSTEM.
 - D. TWO SECONDARY DENITRIFICATION BASINS, EACH 500,000 GALLONS WITH ASSOCIATED PUMPS AND BUBBLE AERATION SYSTEM.
 - E. ONE REAERATION BASIN, 140,000 GALLONS WITH ASSOCIATED AERATION BLOWER.
 - 8. THREE SECONDARY CLARIFIERS, 125'-0" DIA. X 10'-0" D.
 - 9. RAS/WAS PUMP STATION WITH ASSOCIATED PUMPS AND GRINDERS.
 - 10. SLUDGE DEWATERING FACILITY WITH THREE BELT PRESSES, EACH 2 METERS, A 150 GALLON POLYMER STORAGE TANK, A 710 CUBIC FEET SLUDGE HOPPER WITH TRUCK LOADOUT, ASSOCIATED PUMPS AND CONVEYORS.
 - 11. ONE SLUDGE DRYING BED, 240'-0" W. X 625'-0" L. X 0'-8" D.
 - 12. ONE SEPTAGE RECEIVING SYSTEM.
- III. CONVENTIONAL ACTIVATED SLUDGE PLANT, NO. 3, 10 MGD, ANAEROBIC, CONSISTING OF:
- 1. AERATION BASIN, 189'-0" W. X 311'-0" L. X 15'-7" D.
 - 2. TWO SECONDARY CLARIFIERS, 125'-0" DIA. X 10'-0" D.
 - 3. STORAGE TANK, FERRIC CHLORIDE.
 - 4. ANAEROBIC DIGESTER, 35'-0" H. X 90'-0" D.
 - 5. STORAGE TANK, DIGESTER GAS, LOW PRESSURE, 7,500 CU. FT.,
 - 6. KNOCKOUT TANK.
 - 7. COMPRESSOR.
 - 8. SLUDGE STORAGE TANK, 1.29 MGAL.
- IV. TERTIARY TREATMENT PLANT, 22 MGD CAPACITY, CONSISTING OF:
- 1. TERTIARY INFLUENT PUMP STATION, 14'-2" W., X 14'-2" L.
 - 2. TWO FLOW EQUALIZATION BASINS, EACH 1,800,000 GALLONS CAPACITY WITH ASSOCIATED MIXERS/AERATORS.
 - 3. TWO FLOW EQUALIZATION BASINS, EACH 4,800,000 GALLONS CAPACITY WITH ASSOCIATED MIXERS/AERATORS.
 - 4. OUT-OF-COMPLIANCE POND, 12,300,000 GALLON CAPACITY.
 - 5. FLASH MIX PUMP STATION WITH A FLASH MIXING PUMP, CHLORINE, ALUM AND POLYMER INJECTION POINTS.
 - 6. FLOCCULATION BASIN, 45,000 GALLONS, CAPACITY.
 - 7. FLOCCULATION BASIN, 87,000 GALLONS, CAPACITY.
 - 8. TWO ALUM AND TWO POLYMER MIX FEED PUMPS.
 - 9. SIX TERTIARY FILTERS, EACH 200 SQUARE FEET, SAND BED TYPE.
 - 10. FIVE TERTIARY FILTERS, EACH 636 SQUARE FEET, ROTARY DISC CLOTH TYPE.
 - 11. FOUR CHLORINE CONTACT BASINS, 110'-0" L. (EA. PASS) X 11'-0" W. (EA. PASS) WITH FIVE PASSES, WITH ASSOCIATED PUMPS.
 - 12. CHLORINE INJECTION/SPLITTER BOX.
 - 13. SO₂ INJECTION BOX.
 - 14. EFFLUENT PUMPING STATION AND ASSOCIATED PUMPS.
 - 15. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
 - 16. LIQUID ALUM STORAGE TANK, 12'-0" DIA. X 24'-0" H., 18,000 GALLON CAPACITY.
 - 17. POLYMER SOLUTION STORAGE TANK, 8'-0" DIA. X 18'-0" H., 6,000 GALLON CAPACITY.
 - 18. POLYMER EMULSION STORAGE TANK, 3'-0" DIA. X 4'-0" H., 150 GALLON CAPACITY.
 - 19. SODIUM HYDROXIDE STORAGE TANK, 2210 GALLON CAPACITY WITH ASSOCIATED PUMPS.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

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]
3. 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 MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT SHALL NOT EXCEED 25 MILLION GALLONS IN ANY ONE DAY, EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]
5. UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL DEVICE, THE PLANT NO. 1, INFLUENT WET WELL SHALL REMAIN SEALED EXCEPT DURING INSPECTION AND MAINTENANCE. THE OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED AT THE WET WELL.
[RULE 204, RULE 402]
6. IF THE PLANT NO. 1 INFLUENT WET WELL IS NOT VENTED TO AN AIR POLLUTION CONTROL DEVICE, THE FACILITY OPERATOR SHALL CONDUCT H₂S MONITORING, USING AN ITX MULTI-GAS MONITOR OR EQUIVALENT ELECTROCHEMICAL SENSOR ACCURATE TO 1 PPM, DURING THE INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT. THE MONITOR SHALL BE PROPERLY CALIBRATED BEFORE EACH DAILY USE. THE MONITORING SHALL BE CONDUCTED OUTSIDE THE WET WELL ENTRANCE DOOR AND THE AREA ABOVE THE WET WELL COMPARTMENT. RESULTS OF THE H₂S MONITORING SHALL BE RECORDED AT A MINIMUM OF 60 MINUTE INTERVALS.
[RULE 402]
7. WHENEVER THE H₂S CONCENTRATION MONITORED DURING THE INSPECTION AND MAINTENANCE OF THE PLANT NO. 1 INFLUENT WET WELL COMPARTMENT EXCEEDS DETECTION LIMITS OF THE H₂S MONITORING DEVICE RELATIVE TO BACKGROUND CONCENTRATIONS, THE WET WELL INSPECTION/MAINTENANCE EVENT SHALL BE DISCONTINUED AND THE WET WELL DOOR SHALL BE CLOSED.
[RULE 402]
8. THE TOTAL SULFUR COMPOUNDS OF THE FUEL GAS (LESS THAN NATURAL GAS) BURNED AT THIS FACILITY, CALCULATED AS HYDROGEN SULFIDE, SHALL NOT EXCEED 5 POUNDS PER DAY.
[RULE 431.1]
9. THE TOTAL SULFUR COMPOUNDS OF THE FUEL GAS (LESS THAN NATURAL GAS) BURNED AT THIS FACILITY, CALCULATED AS HYDROGEN SULFIDE, SHALL BE DETERMINED AT A FREQUENCY AND BY METHODS WHICH ARE APPROVED BY THE EXECUTIVE OFFICER.
[RULE 431.1]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

10. A CONTINUOUS FLOW INDICATOR/TOTALIZING AND RECORDING SYSTEM SHALL BE INSTALLED AND MAINTAINED TO MEASURE AND RECORD THE DIGESTER GAS PRODUCED BY THE ANAEROBIC DIGESTION PROCESS.
[RULE 431.1]
11. ALL DIGESTER GAS PRODUCED BY THE ANAEROBIC DIGESTION PROCESS SHALL BE STORED, COMBUSTED, OR TREATED BY EQUIPMENT WHICH IS ADEQUATELY SIZED TO HANDLE THE TOTAL GAS FLOWS AND WHICH HAVE VALID PERMITS TO CONSTRUCT/OPERATE. RAW DIGESTER GAS SHALL NOT BE RELEASED TO THE ATMOSPHERE.
[RULE 204]
12. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE HEADWORKS, GRIT CHAMBERS, PRIMARY INFLUENT SPLITTER BOX, PRIMARY CLARIFIERS, PRIMARY SCUM PIT, PRIMARY EFFLUENT SPLITTER BOX, SLUDGE DEWATERING BUILDING, SEPTAGE RECEIVING STATION AND SCUM DECANT PUMP STATION IS VENTED TO AN AIR POLLUTION CONTROL SYSTEM WHICH IS IN FULL USE AND HAS A VALID PERMIT TO OPERATE BY THE SCAQMD.
[RULE 204, RULE 402]
13. PRIOR TO COMMENCING CONSTRUCTION OF THE FOLLOWING EQUIPMENT, EMWD SHALL SUBMIT IN WRITING THE FOLLOWING SPECIFICATIONS AND SHALL OBTAIN SCAQMD APPROVAL:
 - A. FERRIC CHLORIDE STORAGE TANK, VOLUME AND DIMENSIONS.
 - B. ANAEROBIC DIGESTER TANK, VOLUME AND DIMENSIONS.
 - C. DIGESTER GAS STORAGE TANK, WORKING PRESSURE, VOLUME, AND DIMENSION.
 - D. BIOGAS MOISTURE KNOCKOUT TANK, PARTICULATE REMOVAL EFFICIENCY, VOLUME AND DIMENSIONS.
 - E. BIOGAS COMPRESSOR, HORSEPOWER, RATED CAPACITY.[RULE 204]
14. MODIFICATION/CONSTRUCTION OF THIS EQUIPMENT HAS BEEN ESTIMATED TO TAKE MORE THAN ONE YEAR. IF MORE THAN ONE YEAR IS NEEDED TO COMPLETE CONSTRUCTION, THE EMWD SHALL SUBMIT A WRITTEN REQUEST FOR AND OBTAIN AN EXTENSION OF TIME TO CONSTRUCT FROM THE EXECUTIVE OFFICER ON AN ANNUAL-BASIS UNTIL SUCH TIME AS CONSTRUCTION IS COMPLETED AND THE EQUIPMENT IS PLACED INTO OPERATION. WITH EACH AFOREMENTIONED WRITTEN REQUEST FOR EXTENSION, VERIFIABLE DATA SHALL BE SUBMITTED TO THE EXECUTIVE OFFICER THAT CONSTRUCTION PROGRESS HAS BEEN MADE.
[RULE 204]
15. WITHIN ONE YEAR OF COMPLETION OF CONSTRUCTION, EMWD SHALL SUBMIT AS-BUILT SPECIFICATION AND DRAWINGS.
[RULE 204]
16. DAILY RECORDS SHALL BE KEPT TO SHOW COMPLIANCE WITH THE ABOVE CONDITIONS FOR A PERIOD OF AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 204]

Periodic Monitoring:

17. THE FACILITY OWNER OR OPERATOR SHALL MEASURE AND RECORD THE QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT.
[RULE 1303, RULE 3004(a)(4)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO CONSTRUCT

**GRANTED AS OF: October 3, 2008
A/N 471708**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. FOUR BIOFILTERS, CUSTOM, OPERATING IN PARALLEL, 95'-5" W. X 65'-5" L., EACH, WITH AT LEAST 3 FT OF ACTIVE MEDIA.
2. FOUR BLOWERS, EACH 35,000 CFM.
3. EXHAUST SYSTEM, 70,000 CFM MAXIMUM CAPACITY, VENTING THE INFLUENT LIST STATION HEADWORKS, HEADWORKS BYPASS CHANNEL, GRIT CHAMBER, SCUM DECANT PUMP STATION, PRIMARY INFLUENT SPLITTER BOX, PRIMARY CLARIFIERS (3), PRIMARY EFFLUENT SPLITTER BOX, SLUDGE DEWATERING BUILDING, AND SEPTAGE RECEIVING STATION.

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. THE INCOMING FOUL AIR HUMIDIFICATION AND SURFACE IRRIGATION SYSTEMS SHALL BE MAINTAINED IN GOOD OPERATING CONDITION AT ALL TIMES AND SHALL BE UTILIZED TO MAINTAIN THE DESIRED MOISTURE CONTENT WITHIN THE BIOFILTER.
[RULE 402]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A FLOW METER TO MEASURE AND INDICATE THE INLET FLOW RATE TO EACH BIOFILTER.
[RULE 204]
5. THE FLOW RATE AT THE INLET TO EACH BIOFILTER SHALL NOT EXCEED 17,500 CFM.
[RULE 204]
6. ONCE EVERY SIX MONTHS, SMOKE TESTS SHALL BE CONDUCTED TO ENSURE EVEN DISTRIBUTION OF FOUL AIR THROUGH EACH BIOFILTER.
[RULE 402]



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7. THE CONCENTRATION OF H₂S AT EACH BIOFILTER SURFACE (TOPS AND SIDES) SHALL BE MEASURED, USING COLORIMETRIC TUBES OR A PORTABLE H₂S ANALYZER, AT LEAST ONCE PER WEEK, AT A MINIMUM OF 10 POINTS WHICH ARE SPACED EQUALLY APART OVER THE ENTIRE SURFACE OF THE BIOFILTER. THE AVERAGED H₂S CONCENTRATION BASED ON THE AVERAGE MEASUREMENTS SHALL NOT EXCEED THE FOLLOWING, UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER:

TOTAL SULFUR AS H₂S 0.25 PPMV (AVERAGE)

MONITORING RECORDS SHALL BE KEPT AND MAINTAINED ON FILE.
[RULE 402]

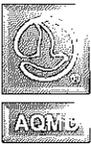
8. WITHIN 180 DAYS AFTER INITIAL STARTUP OF THIS EQUIPMENT, THE APPLICANT SHALL CONDUCT PERFORMANCE TESTS, IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN THIRTY DAYS AFTER TESTING. WRITTEN NOTICE OF THE PERFORMANCE TEST SHALL BE PROVIDED TO THE SCAQMD TEN DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET TO THE BIOFILTER AND THE EXHAUST FROM THE BIOFILTER FOR:
- A. TOTAL NON-METHANE HYDROCARBONS
 - B. SPECIATED ORGANICS
 - C. HYDROGEN SULFIDE
 - D. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED) (INLET ONLY)
 - E. AMMONIA, NH₄
 - F. OXYGEN
 - G. MOISTURE CONTENT
 - H. TEMPERATURE
 - I. FLOW RATE
 - J. OVERALL CONTROL EFFICIENCY OF THE BIOFILTER FOR TOTAL NON-METHANE HYDROCARBONS, HYDROGEN SULFIDE, AND AMMONIA.

[RULE 204]

A TEST PROTOCOL SHALL BE SUBMITTED TO AQMD NO LATER THAN 60 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY THE EXECUTIVE OFFICER BEFORE THE TEST COMMENCES. AT A MINIMUM, THE PROTOCOL SHALL INCLUDE THE FOLLOWING:

- I. A DESCRIPTION OF THE EQUIPMENT TESTED. INCLUDE A PROCESS SCHEMATIC INDICATING SAMPLING LOCATION/PORTS, SAMPLING DUCT/STACK DIMENSIONS A LONG WITH UPSTREAM AND DOWNSTREAM FLOW DISTURBANCES (ELBOWS, TEES, FANS, ETC.)
- II. A BRIEF PROCESS DESCRIPTION.
- III. A DESCRIPTION OF THE SAMPLING AND ANALYTICAL METHODS FOR EACH CONSTITUENT TO BE MEASURED.
- IV. A DESCRIPTION OF THE CALIBRATION AND QUALITY ASSURANCE PROCEDURES.
- V. A STATEMENT DETERMINING THAT THE TESTING LABORATORY QUALIFIES AS AN "INDEPENDENT TESTING LABORATORY" UNDER RUEL 304 (NO CONFLICT OF INTEREST) AND SIGNED BY THE RESPONSIBLE AUTHORITY.
- VI. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RUEL 217.

[RULE 204, RULE 217]



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9. THE OPERATOR SHALL SUBMIT TO SCAQMD A COPY OF WRITTEN RESULTS OF THE SOURCE TEST WITHIN 45 DAYS OF THE SOURCE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL PARAMETERS MEASURED, CONCENTRATION (PPMV), MASS EMISSION RATE (LBS PER HOUR), AN CONTROL EFFICIENCY OF THE BIOFILTER FOR TNMOCS, SPECIATED ORGANICS, HYDROGEN SULFIDE AND AMMONIA, AND ANY OTHER INFORMATION AS REQUIRED BY CONDITION NO. 8.
[RULE 204]
10. THE OPERATOR SHALL CONDUCT A HEALTH RISK ASSESSMENT BASED ON THE RESULTS OF THE SOURCE TEST TO DEMONSTRATE COMPLIANCE WITH RULE 1401 REQUIREMENTS BASED ON THE ACTUAL EMISSION. THE HEALTH RISK ASSESSMENT SHALL BE SUBMITTED TO SCAQMD WITH 45 DAYS AFTER THE COMPLETION OF THE SOURCE TEST.
[RULE 1401]
11. THE BIOFILTER MEDIA SHALL BE REPLACED OR REPLENISHED AS NEEDED TO MAINTAIN ADEQUATE PERFORMANCE.
[RULE 402]
12. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH THE CONDITIONS ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.
[RULE 204]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO CONSTRUCT

GRANTED AS OF: Feb, 27, 2007
A/N 471708

Equipment Description:

DIGESTER GAS FLARING SYSTEM CONSISTING OF:

ENCLOSED FLARE, 9.32 MMBTU/HR MAXIMUM HEAT INPUT, APPROX 30'-0" HIGH, VAREX MODEL 249, JOHN ZINK MODEL ZTOF, BEKAERT MODEL CEB 350, OR EQUIVALENT, DESIGNED FOR 0.6 SECONDS RESIDENCE TIME AT 1400 DEGREES FAHRENHEIT, DIGESTER GAS FIRED, WITH DIGESTER AND NATURAL GAS PILOTS, ELECTRONIC IGNITION SYSTEM, MODULATING AIR DAMPERS, TEMPERATURE CONTROLLER, ULTRAVIOLET FLAME DETECTOR, AUTOMATIC FLARE SHUT DOWN SYSTEM, FLARE FAILURE ALARM, AUTOMATIC RESTART.

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. APPLICANT SHALL AT LEAST 60 DAYS PRIOR TO THE PLANNED START OF CONSTRUCTION SUBMIT FINAL DESIGN SPECIFICATIONS AND PLANS SHALL BE OBTAINED FROM SCAQMD PRIOR TO STARTING CONSTRUCTION.

FLARE MAKE MODEL NO., DIAMETER, HEIGHT, FLOW RATE, VELOCITY, RESIDENCE TIME AT 1400 DEGREE F., COMBUSTION AIR AND TEMPERATURE CONTROL SYSTEM, AUTOMATIC NOTIFICATION SYSTEM, GUARANTEED EMISSION RATES, AND GUARANTEED, DESTRUCTION RATES OF NMHC AND TOXICS.
[RULE 204]

4. PRIOR TO BURNING DIGESTER GAS IN THIS EQUIPMENT, THE DIGESTER GAS SHALL FIRST BE TREATED THROUGH A PERMITTED KNOCKOUT VESSEL/GAS-LIQUID SEPARATOR WITH A DEMISTER OR EQUIVALENT RATED AT 98% (MIN) PM10 REMOVAL.
[RULE 1303]

5. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

6. AT LEAST TWO (2) SAMPLING PORTS SHALL BE PROVIDED IN THE FLARE STACK AT LEAST ONE-HAL DUCT DIAMETER UPSTREAM OF THE FLARE OUTLET, 90 DEGREES APART. EACH SAMPLING PORT SHALL CONSIST OF A FOUR-INCH COUPLING WITH PLUG. ALL PORTS SHALL



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BE PROPERLY CENTERED. AN EQUIVALENT METHOD OF EMISSION SAMPLING MAY BE USED UPON APPROVAL BY THE EXECUTIVE OFFICER. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED WITHIN 48 HOURS NOTICE BY SCAQMD.
[RULE 217]

7. A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE FLARE TO ALLOW THE COLLECTION OF A DIGESTER GAS SAMPLE.
[RULE 217]
8. THE FLARE SHALL BE EQUIPPED WITH AT LEAST ONE TEMPERATURE INDICATOR AND A RECORDING DEVICE WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATOR AND RECORDING DEVICE SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION. THE TEMPERATURE SHALL BE MEASURED AT A LOCATION ABOVE THE FLAME ZONE. AT LEAST 0.6 SECOND DOWNSTREAM OF THE BURNER AND NOT LESS THAN FIVE (5) FEET FROM THE TOP OF THE STACK.
[RULE 1303]
9. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 DEGREES FAHRENHEIT AS MEASURED BY AN APPROVED TEMPERATURE INDICATOR SHALL BE MAINTAINED IN THE FLARE STACK.
[RULE 1303]
10. THE FLARE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-DOWN SYSTEM WITH A FAILURE ALARM, WHICH HAS BEEN APPROVED BY THE SCAQMD, TO AUTOMATICALLY ISOLATE THE FLARE FROM THE DIGESTER GAS SUPPLY LINE, SHUT OFF THE BLOWER AND IMMEDIATELY NOTIFY A RESPONSIBLE PARTY OF THE SHUT-DOWN.
[RULE 204]
11. THE AUTOMATIC SHUT-DOWN SAFETY SYSTEM SHALL BE TESTED MONTHLY FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 204]
12. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE DIGESTER GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE QUANTITY OF DIGESTER GAS (IN SCFM) BEING BURNED IN THE FLARE.
[RULE 431.1]
13. THE TOTAL VOLUME OF DIGESTER GAS BURNED IN THE FLARE SHALL NOT EXCEED 259 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303]
14. THE HEAT INPUT THROUGH THE FLARE SHALL NOT EXCEED 9.32 MILLION BTU'S PER HOUR.
[RULE 1303]



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15. WEEKLY READINGS OF BTU CONTENT OF THE GAS AT THE INLET TO THE FLARE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303]
16. ALL DIGESTER GAS COLLECTED SHALL BE DIRECTED EITHER TO THE FLARE FOR COMBUSTION OR TO A TREATMENT FACILITY WHICH HAS A VALID PERMIT TO CONSTRUCT OR OPERATE, AS APPLICABLE FROM THE SCAQMD.
[RULE 204]
17. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
18. THE FLARE SHALL BE EQUIPPED WITH A SUFFICIENT NUMBER OF VIEW PORTS TO ALLOW VISUAL INSPECTION OF THE FLAME HEIGHT WITHIN THE FLARE AT ALL TIMES. THE VIEW PORTS SHALL BE LOCATED AT THE ELEVATION OF THE TEMPERATURE SENSOR LOCATIONS. SAGE AND ADEQUATE ACCESS SHALL BE PROVIDED FOR ALL VIEW PORTS UPON REQUEST BY SCAQMD PERSONNEL.
[RULE 217]
19. THE FLARE SHALL BE DESIGNED AND OPERATED SO THAT THE FLAME IN THE FLARE REMAINS BELOW THE HEIGHT OF THE FLARES OPERATING THERMOCOUPLE AT ALL TIMES.
[RULE 204]
20. THE MAXIMUM FLARE SKIN TEMPERATURE AT ANY LOCATION SHALL NOT EXCEED 250 DEGREES FAHRENHEIT.
[RULE 217]
21. OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF ANY RAW DIGESTER GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF RAW DIGESTER GAS SHALL BE REPORTED TO THE SCAQMD COMPLIANCE MANAGER FOR WASTE MANAGEMENT FACILITIES WITHIN ONE HOUR AFTER OCCURRENCE AND IMMEDIATE REMEDIAL MEASURE SHALL BE UNDER TAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, RULE 1303]
22. WITHIN 180 DAYS OF INITIAL START-UP, AND ANNUALLY THEREAFTER, UNLESS OTHERWISE APPROVED BY THE EXECUTIVE OFFICER, THE APPLICANT SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN THIRTY (30) DAYS AFTER TESTING. WRITTEN NOTICE OF THE TEST SHALL BE PROVIDED TO THE SCAQMD TEN (10) DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST SIXTY (60) DAYS PRIOR TO START OF TEST.

THE TEST SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET GAS TO THE FLARE AND THE FLARE EXHAUST FOR:

- A. METHANE.
- B. TOTAL NON-METHANE ORGANICS.



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- C. OXIDES OF NITROGEN (EXHAUST ONLY)
D. CARBON MONOXIDE (EXHAUST ONLY)
E. TOTAL (PM10) PARTICULATES (EXHAUST ONLY)
F. HYDROGEN SULFIDE (INLET ONLY)
G. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED)(INLET ONLY)
H. CARBON DIOXIDE
I. TOXIC AIR CONTAMINANTS INCLUDING, BUT NOT LIMITED TO ACROLEIN, ACETYLENE, BENZENE, CHLOROBENZENE, CHLOROFORM, DICHLOROBENZENE, 1,2-DICHLOROETHANE, TRICHLOROETHYLENE, VINYL CHLORIDE, AND XYLENE ISOMERS (EXHAUST ONLY)
J. OXYGEN
K. NITROGEN
L. MOISTURE CONTENT
M. TEMPERATURE
N. BTU VALUE.
[RULE 1303]
23. APPLICANT SHALL PERFORM A FULL RISK ASSESSMENT ON THE EMISSIONS FROM THE FLARE WITH NINETY (90) DAYS AFTER REQUEST FROM THE SCAQMD IF THE SOURCE TEST RESULTS SHOW THE EMISSIONS ARE GREATER THAN THAT CALCULATED UNDER THE PERMIT TO CONSTRUCT EVALUATION.
[RULE 1401]
24. THE EMISSIONS FROM THE FLARE SHALL NOT EXCEED THE FOLLOWING:
- | POLLUTANT | LB/HOUR |
|-----------|---------|
| NOX | 0.56 |
| CO | 1.86 |
| PM10 | 0.01 |
| VOC | 0.01 |
| SOX | 0.21 |
- [RULE 1303]
25. OXIDES OF NITROGEN EMISSIONS SHALL NOT EXCEED 0.06 POUNDS PER MILLION BTU'S.
[RULE 1303]
26. EMISSION OF TOTAL SULFUR COMPOUNDS FROM COMBUSTION OF DIGESTER GAS AT THIS FACILITY SHALL NOT EXCEED 5 LBS/DAY MEASURED AS H₂S, OR DIGESTER GAS SHALL BE TREATED PRIOR TO COMBUSTION SUCH THAT THE CONCENTRATION OF TOTAL REDUCED SULFUR COMPOUNDS IN THE DIGESTER GAS IS 40 PPMV (AS H₂S) OR LESS.
[RULE 431.1]
27. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST TWO (2) YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO CONSTRUCT

GRANTED AS OF: January 1, 2010
A/N 496805

Equipment Description:

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL P9390GSI, NATURAL GAS FIRED, TURBOCHARGED AND AFTERCOOLED, SIXTEEN CYLINDERS, FOUR CYCLE, 2117 BHP, WITH A CATALYTIC CONVERTER, MIRATECH, MODEL IQ, AND AN AIR TO FUEL RATIO CONTROLLER, 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 CONDITION AT ALL TIMES.
[RULE 204]
3. AN OPERATIONAL, NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, 40CFR-Subpart JJJJ]
4. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 200 HOURS IN ANY ONE YEAR.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
5. THIS ENGINE SHALL NOT OPERATE MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1303(a)(1)-BACT]
6. IN ADDITION TO MAINTENANCE AND TESTING OF THIS ENGINE, THIS ENGINE SHALL ONLY OPERATE DURING EMERGENCIES RESULTING FROM AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCY DECLARED BY THE ELECTRIC GRID OPERATOR.
[RULE 1303(a)(1)-BACT]
7. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME IN HOURS AND THE REASON FOR OPERATION SHALL BE KEPT, MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 204]
8. ONCE EACH YEAR PRIOR TO JANUARY 15TH, THE OPERATOR SHALL RECORD THE TOTAL HOURS OF OPERATION FOR THIS PREVIOUS CALENDAR YEAR.
[RULE 1110.2, RULE 1304(a)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

9. THE AIR-TO-FUEL RATIO CONTROLLER SHALL BE MAINTAINED ON THIS ENGINE AND SET TO MAINTAIN THE AIR TO FUEL RATIO WITHIN TOLERANCE LIMITS AS SPECIFIED BY THE CATALYTIC CONVERTER SUPPLIER OR AS DEMONSTRATED BY A SOURCE TEST TO MAINTAIN THE SUPPLIER GUARANTEED EMISSION REDUCTION EFFICIENCIES OR LIMITS.
[RULE 204]
10. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 1303(a)(1)-BACT]
11. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE.
[RULE 1303(a)(1)-BACT]
12. A MANOMETER OR PRESSURE GAUGE SHALL BE MAINTAINED TO MEASURE THE PRESSURE DIFFERENCE ACROSS THE CATALYST BED. THE PRESSURE DROP SHALL NOT EXCEED 4 INCHES OF WATER COLUMN.
[RULE 1303(a)(1)-BACT]
13. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET AND OUTLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT]
14. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 750 DEGREES F AND 1250 DEGREES F, EXCEPT DURING START-UP OF THE ENGINE WHICH SHALL NOT EXCEED A PERIOD OF 30 MINUTES.
[RULE 204, RULE 1303(a)(1)-BACT]
15. THE TEMPERATURE OF THE EXHAUST GAS AT THE CATALYST OUTLET SHALL NOT EXCEED 1350 DEGREES F.
[RULE 204, RULE 1303(a)(1)-BACT]
16. PRIOR TO INSTALLATION OF THIS ENGINE, THE OPERATOR SHALL PROVIDE THE FINAL SPECIFICATIONS FOR THE AIR-TO-FUEL RATIO CONTROLLER TO THE SCAQMD. THE INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO THE MANUFACTURER, MODEL NUMBER, RECOMMENDED MAINTENANCE, AND OPERATING PARAMETERS FOR THE AIR TO FUEL RATIO CONTROLLER.

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOx: 1.5 gram/BHP-Hr, RULE 1303-BACT
NOx: 2.0 gram/BHP-Hr, 40 CFR Subpart JJJ
VOC: 1.5 gram/BHP-Hr, RULE 1303-BACT
VOC: 1.0 gram/BHP-Hr, 40 CFR Subpart JJJ
CO: 2.0 gram/BHP-Hr, RULE 1303-BACT
CO: 4.0 gram/BHP-Hr, 40 CFR Subpart JJJ



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO CONSTRUCT

GRANTED AS OF: September 9, 2010
A/N 505538

Equipment Description:

BOILER, HURST, MODEL S5-X-125-125W, WATER TUBE TYPE, DIGESTER GAS AND NATURAL GAS FIRED, 5,400,000 BTU/HR MAXIMUM HEAT INPUT RATE, WITH ULTRA LOW NOX BURNER, POWER FLAME, MODEL LNINVC5-GG-30.

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 OR NATURAL GAS ONLY.
[RULE 204, RULE 1146, RULE 1303]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL PROVISIONS OF RULE 1146.
[RULE 1146]
5. A NON-RESETTABLE, TOTALIZING FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO MEASURE AND RECORD THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED.
[RULE 204, RULE 1303]
6. WHEN IN OPERATION, TOTAL HEAT INPUT FOR THIS EQUIPMENT SHALL NOT EXCEED 5.4 MMBTU/HR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE (BTU/SCF) OF FUEL GAS BURNED IN THIS EQUIPMENT BASED ON THE RECORDED FLOW RATE (SCFM) AND THE LATEST MONTHLY BTU CONTENT READING.
[RULE 1146, RULE 1303]
7. THIS EQUIPMENT SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO REGULATE AUTOMATICALLY THE COMBUSTION AIR AND FUEL RATE AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED PERIODICALLY, ACCORDING TO ATTACHMENT I OF RULE 1146.
[RULE 1146]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

Periodic Monitoring:

10. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1146, RULE 3004(A)]
11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE EMISSION LIMITS OF CO AND NOX, AT LEAST ONCE EVERY FIVE YEARS USING SCAQMD-APPROVED TEST METHODS. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING AND RECORDKEEPING REQUIREMENTS IN SECTION E AND K OF THIS PERMIT.
[RULE 1146, RULE 3004(A)]

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
 - PM: 0.1 GRAIN/SCF @ 12% CO₂, RULE 409
 - CO: 400 PPM @ 3% O₂, DRY BASIS, RULE 1146
 - CO: 100 PPMV @ 3% O₂, DRY BASIS FOR DIGESTER GAS FIRING, RULE 1303-BACT
 - CO: 50 PPMV @ 3% O₂, DRY BASIS FOR NATURAL GAS FIRING, RULE 1303-BACT
 - NOx: 30 PPM @ 3% O₂, DRY BASIS, RULE 1146
 - NOx: 30 PPMV @ 3% O₂, DRY BASIS FOR DIGESTER GAS FIRING, RULE 1303-BACT
 - NOx: 12 PPMV @ 3% O₂, DRY BASIS FOR NATURAL GAS FIRING, RULE 1303-BACT



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT AN INITIAL SOURCE TEST AND SUBSEQUENT SOURCE TESTS ONCE EVERY FIVE YEARS THEREAFTER, UNDER THE FOLLOWING CONDITIONS AND PER RULE 1146:
- A. TESTING SHALL BE CONDUCTED BY AN APPROVED CONTRACTOR UNDER THE SCAQMD LABORATORY APPROVAL PROGRAM AND IN COMPLIANCE WITH SCAQMD RULE 304 (NO CONFLICT OF INTEREST).
 - B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO SCAQMD WITHIN 30 DAYS OF INITIAL START UP AND SHALL BE APPROVED BY SCAQMD BEFORE THE TEST COMMENCES. THE PROTOCOL SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST AND DESCRIPTIONS OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
 - C. SOURCE TESTS SHALL BE CONDUCTED WITHIN 60 CALENDAR DAYS AFTER NORMAL OPERATION OF THE EQUIPMENT HAS BEEN ESTABLISHED, BUT NO LATER THAN 180 DAYS AFTER INITIAL START UP.
 - D. SOURCE TESTS SHALL BE PERFORMED WHEN THE BOILER IS OPERATING AT MAXIMUM, MINIMUM AND AVERAGE LOADS FOR EACH FUEL (DIGESTER GAS AND NATURAL GAS). THE SAMPLING TIME AT EACH LOAD SHALL BE FOR A MINIMUM OF 15 CONSECUTIVE MINUTES.
 - E. TWO COPIES OF THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO SCAQMD WITHIN 60 DAYS OF TESTING. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - I. FUEL FLOW RATE FOR EACH FUEL
 - II. FLUE GAS FLOW RATE FOR EACH FUEL
 - III. METHANE CONTENT FOR DIGESTER GAS
 - IV. TOTAL NON-METHANE ORGANICS FOR DIGESTER GAS AND EXHAUST GAS
 - V. SPECIATED TRACE ORGANICS FOR DIGESTER GAS AND EXHAUST GAS
 - VI. TOTAL PARTICULATES FOR EXHAUST GAS
 - VII. OXIDES OF NITROGEN FOR EXHAUST GAS
 - VIII. CARBON MONOXIDE FOR EXHAUST GAS
 - IX. CARBON DIOXIDE FOR EXHAUST GAS
 - X. OXYGEN FOR EXHAUST GAS
 - XI. HIGHER HEATING VALUE FOR DIGESTER GAS
 - XII. TOTAL SULFUR CONTENT, AS H₂S, PPMV FOR DIGESTER GAS
- [RULE 217, RULE 404, RULE 1146, RULE 1303, RULE 1401]
9. THE OWNER OR OPERATOR SHALL CHECK NOX EMISSIONS WITH A PORTABLE NOX, CO AND O₂ ANALYZER ACCORDING TO THE SCAQMD APPROVED PROTOCOL FOR RULES 1146 AND 1146.1 AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER. IF A UNIT IS IN COMPLIANCE FOR THREE CONSECUTIVE EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINT, THEN THE UNIT SHALL BE CHECKED QUARTERLY OR EVERY 2,000 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.
- [RULE 1146]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
 - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
 - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]
10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]
11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

- (A) The date, place as defined in the Title V permit, 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; and
- (F) The operating conditions as existing at the time of sampling or measurement.
[3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:

- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
- (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
- (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration

- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the Title V application file. [3004(a)(4)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration

FACILITY RULES

This facility is subject to the following rules and regulations

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

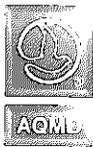
RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 104	1-9-1976	Federally enforceable
RULE 109	5-2-2003	Federally enforceable
RULE 1110.2	2-1-2008	Non federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-13-2007	Non federally enforceable
RULE 1122	10-1-2004	Federally enforceable
RULE 1146.2	1-7-2005	Non federally enforceable
RULE 1146.2	1-9-1998	Federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303	5-10-1996	Federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1304(a)-Modeling and Offset Exemption	6-14-1996	Federally enforceable
RULE 1401	3-7-2008	Non federally enforceable
RULE 1415	10-14-1994	Non federally enforceable
RULE 1418	9-10-1999	Non federally enforceable
RULE 1470	6-1-2007	Non federally enforceable



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	7-14-2006	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	3-16-2001	Non federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	3-16-2001	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 304	6-9-2006	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.1	6-12-1998	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 461	3-7-2008	Non federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 63 Subpart ZZZZ	1-18-2008	Federally enforceable
40CFR 68 - Accidental Release Prevention	5-24-1996	Federally enforceable
40CFR 82 Subpart F	5-14-1993	Federally enforceable



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-08-1996]

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

TABLE OF STANDARDS

VOC LIMITS

Grams of VOC Per Liter of Coating, Less Water And Less Exempt Compounds

COATING	Limit*	Effective Date of Adoption	Effective 1/1/1998	Effective 1/1/1999	Effective 7/1/2001	Effective 1/1/2005	Effective 7/1/2008
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250				100		50
Graphic Arts (Sign) Coatings	500						



**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 11-08-1996]**

Industrial Maintenance						
Primers and Topcoats						
Alkyds	420					
Catalyzed Epoxy	420					
Bituminous Coatings	420					
Materials						
Inorganic Polymers	420					
Vinyl Chloride Polymers	420					
Chlorinated Rubber	420					
Acrylic Polymers	420					
Urethane Polymers	420					
Silicones	420					
Unique Vehicles	420					
Japans/Faux Finishing	350	700		350		
Coatings						
Magnesite Cement Coatings	600			450		
Mastic Coatings	300					
Metallic Pigmented Coatings	500					
Multi-Color Coatings	420		250			
Pigmented Lacquer	680		550		275	
Pre-Treatment Wash Primers	780					
Primers, Sealers, and	350					
Undercoaters						
Quick-Dry Enamels	400					
Roof Coatings	300					
Shellac						
Clear	730					
Pigmented	550					
Stains	350					
Swimming Pool Coatings						
Repair	650					
Other	340					
Traffic Coatings	250		150			
Waterproofing Sealers	400					
Wood Preservatives						
Below-Ground	350					
Other	350					

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

TABLE OF STANDARDS (cont.)

VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.



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APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007] TABLE OF STANDARDS VOC LIMITS

Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds

COATING CATEGORY	Ceiling Limit	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350							
Clear Wood Finishes	350					275		
Varnish	350					275		
Sanding Sealers	350					275		
Lacquer	680	550			275			
Clear Brushing Lacquer	680				275			
Concrete-Curing Compounds	350						100	
Concrete-Curing Compounds For Roadways and Bridges**	350							
Dry-Fog Coatings	400						150	
Fire-Proofing Exterior Coatings	450	350						
Fire-Retardant Coatings***								
Clear	650							
Pigmented	350							
Flats	250	100						50
Floor Coatings	420		100			50		
Graphic Arts (Sign) Coatings	500							
Industrial Maintenance (IM) Coatings	420			250		100		
High Temperature IM Coatings			420					
Zinc-Rich IM Primers	420		340			100		
Japans/Faux Finishing Coatings	700	350						
Magnesite Cement Coatings	600	450						
Mastic Coatings	300							
Metallic Pigmented Coatings	500							
Multi-Color Coatings	420	250						
Nonflat Coatings	250		150			50		



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APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

COATING CATEGORY	Ceiling Limit	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Nonflat High Gloss	250		150				50	
Pigmented Lacquer	680	550			275			
Pre-Treatment Wash Primers	780		420					
Primers, Sealers, and Undercoaters	350		200			100		
Quick-Dry Enamels	400		250			150	50	
Quick-Dry Primers, Sealers, and Undercoaters	350		200			100		
Recycled Coatings			250					
Roof Coatings	300		250		50			
Roof Coatings, Aluminum	500				100			
Roof Primers, Bituminous	350		350					
Rust Preventative Coatings	420		400			100		
Shellac								
Clear	730							
Pigmented	550							
Specialty Primers	350					250	100	
Stains	350		250				100	
Stains, Interior	250							
Swimming Pool Coatings								
Repair	650		340					
Other	340							
Traffic Coatings	250	150					100	
Waterproofing Sealers	400		250			100		
Waterproofing	400					100		
Concrete/Masonry Sealers								
Wood Preservatives								
Below-Ground	350							
Other	350							

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.



**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 07-13-2007]**

**TABLE OF STANDARDS (cont.)
VOC LIMITS**

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)



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APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 404(a)

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445



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

**APPENDIX B: RULE EMISSION LIMITS
[RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter ² Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148



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

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100