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

Title Page	
Facility ID:	019159
Revision #:	4
Date:	December 10, 2010

FACILITY PERMIT TO OPERATE

EASTERN MUNICIPAL WATER DIST
770 N SANDERSON AVE
SAN JACINTO, CA 92582

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 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 #
262548	R-D48760	ICE (>500 HP) EMERGENCY ELEC. GENERATOR, DIESEL	4
335123	R-N7492	SERVICE STATION STORAGE & DISPENSING GASOLINE	5
338109	F12968	ICE (50-500 HP) EMERGENCY ELEC. GENERATOR, DIESEL	8
423389	F80451	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	9
448181	F83291	SEWAGE TREATMENT (>5 MG/D) ANAEROBIC	11
451105	F81077	SLUDGE DEWATERING	14
451351	F81078	ODOR CONTROL UNIT	15
485853	R-G4345	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS ONLY, WITH NSCR	17
485855	R-G4346	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS ONLY, WITH NSCR	20
485856	R-G4347	ICE (50-500 HP) DIGESTER GAS	23
486679	R-G4348	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS ONLY, WITH NSCR	25
486680	R-G4344	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS ONLY, WITH NSCR	28

NOTE: 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. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:

   A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGELMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
   B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.
   [RULE 401]

2. 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]

3. 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]

4. 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 S02.
   [RULE 53, 407]

5. 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. R-D48760
A/N 262548

Equipment Description:

INTERNAL COMBUSTION ENGINE, ENGINE NO. 83, CATERPILLAR, DIESEL-FUELED, MODEL 3508, SERIAL NO. 23Z04458, TURBOCHARGED, AFTERCOOLED, 8 CYLINDERS, 1337 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. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
   [RULE 1110.2]

4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
   [RULE 1110.2, 1304(a)]

5. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
   [RULE 1303]

Periodic Monitoring:

6. THIS EQUIPMENT SHALL NOT OPERATE MORE THAN 20 HOURS PER YEAR FOR MAINTENANCE AND TESTING PURPOSES.
   [RULE 1470, 3004 (a)(4)]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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Permit No. R-N7492
A/N 335123

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 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. 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
60	0.45
100	0.95

AT LEAST ONCE EVERY FIVE CALENDAR YEARS FROM THE ISSUANCE DATE OF THIS PERMIT, DYNAMIC BACK PRESSURE TESTS SHALL BE CONDUCTED TO DETERMINE THAT PHASE II SYSTEM VAPOR RECOVERY BACK PRESSURE RATES. THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.4. RESULTS SHALL BE SUBMITTED TO THE DISTRICT, OFFICE OF STATIONARY SOURCE COMPLIANCE, WITHIN THIRTY (30) DAYS OF TESTS.

THE AQMD SHALL BE NOTIFIED AT TELEPHONE NUMBER (909) 396-3886 AT LEAST TWENTY-FOUR 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. AT LEAST ONCE EVERY FIVE CALENDAR YEARS FROM THE ISSUANCE DATE OF THIS PERMIT, 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 TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.3. RESULTS SHALL BE SUBMITTED TO THE DISTRICT, OFFICE OF STATIONARY SOURCE COMPLIANCE, WITHIN THIRTY (30) DAYS OF TEST.

THE AQMD SHALL BE NOTIFIED AT TELEPHONE NUMBER (909) 396-3886 AT LEAST TWENTY-FOUR 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]

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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 WITHIN THIRTY DAYS OF INITIAL INSTALLATION AND IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.6. RESULTS SHALL BE SUBMITTED TO THE DISTRICT, OFFICE OF STATIONARY SOURCE COMPLIANCE, WITHIN THIRTY (30) DAYS OF TEST.

   THE SCAQMD SHALL BE NOTIFIED AT TELEPHONE NUMBER (909) 396-3886 AT LEAST TWENTY-FOUR 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. 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]

10. THE MAXIMUM QUANTITY OF GASOLINE DISPENSED FROM THE STORAGE TANKS AT THIS FACILITY SHALL NOT EXCEED 5000 GALLONS IN ANY ONE CALENDAR MONTH OR 60000 GALLONS IN ANY ONE CALENDAR YEAR.
    [RULE 1303]

Periodic Monitoring:

11. 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. F12968
A/N 338109

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 8 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL 3208 ATAAC, 292 B.H.P., DIESEL-FUELED, 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. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
   [RULE 1110.2]

4. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 199 HOURS IN ANY ONE YEAR.
   [RULE 1110.2, 1304(a),3004(a)(4)]

Periodic Monitoring:

5. THIS EQUIPMENT SHALL NOT OPERATE MORE THAN 20 HOURS PER YEAR FOR MAINTENANCE AND TESTING PURPOSES.
   [RULE 1470, 3004 (a)(4)]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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Permit No. F80451
A/N 423389

Equipment Description:

DIGESTER GAS FLARING SYSTEM CONSISTING OF:

1. ONE (1) ENCLOSED FLARE, HIRT, MODEL F, 7,000,000 BTU/HR, 3'-8" DIA. X 19'-0" H.
2. NATURAL GAS PILOT SYSTEM WITH ELECTRIC IGNITION.
3. ULTRA-VIOLET FLAME DETECTOR.
4. AUTOMATIC TEMPERATURE CONTROLLED COMBUSTION AIR DAMPER.

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 FLARE SHALL BE EQUIPPED WITH A TEMPERATURE INDICATOR AND RECORDER WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK WHENEVER THE FLARE IS IN OPERATION.
[RULE 1303]

5. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 DEGREES F, AS MEASURED BY AN APPROVED TEMPERATURE INDICATOR, SHALL BE MAINTAINED IN THE FLARE STACK. THE THERMOCOUPLE SHALL BE ABOVE THE FLAME ZONE AND AT LEAST 3 FEET BELOW THE TOP OF THE FLARE SHROUD AND AT LEAST 0.6 SECONDS DOWNSTREAM OF THE BURNER.
[RULE 1303]

6. A FLOW INDICATOR SHALL BE INSTALLED IN THE DIGESTER GAS SUPPLY LINE TO THE FLARE TO MEASURE THE DAILY GAS FLOW RATE (IN SCFD) WHENEVER THE FLARE IS IN OPERATION.
[RULE 1303]

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7. THE TOTAL VOLUME OF DIGESTER GAS BURNED IN THE FLARE SHALL NOT EXCEED 240,000 STANDARD CUBIC FEET PER DAY.
[RULE 1303]

8. WHEN THE DIGESTER GAS IS SUPPLIED TO THE FLARE FROM ONLY THE DIGESTER GAS PRODUCTION LINE, RECORD THE TOTAL FLOW RATE OF THE GAS ONCE PER DAY. THE TOTAL DIGESTER GAS BURNED IN THE FLARE SHALL NOT EXCEED 10,000 STANDARD CUBIC FEET PER HOUR.
[RULE 1303]

9. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303]

10. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF ANY RAW DIGESTER GAS INTO THE ATMOSPHERE.
[RULE 1303]

11. ALL DIGESTER GAS COLLECTED SHALL BE DIRECTED TO THE INTERNAL COMBUSTION ENGINES, DIGESTER GAS STORAGE FACILITY, MICROTURBINES AND/OR DIGESTER GAS FLARE WHICH ARE IN FULL USE AND HAVE SCAQMD PERMITS TO CONSTRUCT OR OPERATE OR TO SCAQMD RULE 219 EXEMPT EQUIPMENT WHICH ARE IN FULL USE.
[RULE 1303]

12. ONE SAMPLING PORT SHALL BE MAINTAINED IN THE DIGESTER GAS SUPPLY LINE TO THE FLARE TO ALLOW SAMPLING.
[RULE 1303]

13. THE FLARE SHALL BE EQUIPPED WITH A FAILURE ALARM WITH AN AUTOMATIC DIGESTER GAS SUPPLY VALVE SHUT-OFF SYSTEM APPROVED BY THE AQMD.
[RULE 1303]

14. THE OPERATOR SHALL USE ANALYTICAL METHODS APPROVED BY THE AQMD TO ANALYZE AND RECORD THE H2S CONCENTRATION IN THE DIGESTER GAS DAILY.
[RULE 1303]

Emissions and Requirements:

14. 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 GR/SF, RULE 409
PM: 0.46 LB/HR, RULE 1303
NOX: 0.33 LB/HR, RULE 1303
CO: 0.50 LB/HR, RULE 1303
VOC: 0.01 LB/HR, RULE 1303
SOX: 0.33 LB/HR, RULE 1303

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Permit No. R-F83291
A/N 448181

Equipment Description:

WATER RECLAMATION PLANT, ANAEROBIC, 11 MGD CAPACITY, CONSISTING OF:

I. HEADWORKS PROCESSES CONSISTING OF:

1. ONE (1) CLIMBING BAR SCREEN WITH RAG COMPACTOR AND ONE (1) COMMINUTOR FOR BACKUP.
2. ONE (1) STORAGE TANK, FERRIC CHLORIDE, 2,500 GALS.
3. THREE (3) AERATED GRIT CHAMBERS WITH ASSOCIATED PUMPS AND MOTORS.
4. ONE (1) GRIT WASHER AND HOPPER WITH ASSOCIATED PUMPS AND MOTORS.

II. PRIMARY TREATMENT PROCESSES CONSISTING OF:

5. FIVE (5) PRIMARY SEDIMENTATION TANKS, UNCOVERED, EACH 16' W X 123' L X 12' H, WITH ASSOCIATED DRIVES, PUMPS AND MOTORS.
6. FIVE (5) AERATION TANKS, EACH 24' W X 210' L X 15' H, WITH ASSOCIATED PUMPS AND MOTORS.

III. SECONDARY TREATMENT PROCESSES CONSISTING OF:

7. ELEVEN (11) SECONDARY SEDIMENTATION TANKS, EACH 16' W X 110' L X 12' H, WITH ASSOCIATED PUMPS AND MOTORS.
8. TWO (2) FLOW EQUALIZATION BASINS, EACH 2.5 MILLION GALLONS PER DAY CAPACITY, 150' W X 420' L X 3' H, WITH ASSOCIATED PUMPS AND MOTORS.
9. TWO (2) STORAGE TANKS, CHLORINE, 10 TON CAPACITY, EACH 4'-6" D X 16'-11" L.
10. SCRUBBER, CHLORINE NEUTRALIZING, RJ-2000 BULK.
11. ONE (1) STORAGE TANK, CAUSTIC SODA, 14,500 GALLON CAPACITY, 16' D X 10' H.
12. TWO (2) CHLORINE CONTACT TANKS, EACH 28'-6" W X 235' L X 12' H.
13. TEN (10) SECONDARY EFFLUENT EVAPORATION/STORAGE PONDS, 264 MILLION GALLONS TOTAL CAPACITY.
14. TWELVE (12) WETLAND RESEARCH CELLS, EACH 45' W X 225' L X 2' H.

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15. ONE (1) CONSTRUCTED WETLANDS, 40 MILLION GALLON CAPACITY, 25 ACRES, 5' DEEP.

IV. SLUDGE PROCESSES CONSISTING OF:

16. TWO (2) DISSOLVED AIR FLOATATION (DAF) SLUDGE THICKENER TANKS, EACH 30' D X 6' H, WITH ASSOCIATED PUMPS AND MOTORS.

17. THREE (3) PRIMARY DIGESTERS WITH FIXED ROOF, EACH 50' D X 22' H, EACH 309,000 GALLONS, WITH ASSOCIATED PUMPS AND MOTORS.

18. ONE (1) SECONDARY DIGESTER WITH FLOATING ROOF, 50' D X 22' H, 309,000 GALLONS.

19. ONE (1) GAS DRYER WITH ASSOCIATED MOTOR.

20. ONE (1) DIGESTER GAS STORAGE SPHERE, 35' D, WITH GAS COMPRESSOR.

21. ONE (1) DIGESTER GAS DESULFURIZATION (IRON SPONGE), GROTH EQUIPMENT CORPORATION, DUAL VESSEL, EACH VESSEL, 5' W X 9'-9" L X 7'-1" H, EACH CELL CONTAINING 112 CUBIC FEET OF FERRIC OXIDE MATERIAL.

22. ONE (1) SLUDGE OFF-LOADING STATION.

23. TWO (2) SLUDGE DRYING BEDS, EACH 160' W X 140' L X 1' H.

24. EIGHT (8) SLUDGE DRYING BEDS, EACH 40' W X 140' L X 1' H.

25. ONE (1) STORAGE TANK, CAUSTIC SODA, 1,000 GALLONS.

26. TWO (2) BOILERS, FULTON PULSEPAK, MODEL PHW 1400, 1.4 MMBTU/HR EACH, NATURAL GAS FIRED.

27. ONE (1) SCRUBBER, WESTERN TECHNOLOGY, PACKED BED, 8' D X 16'-8" H.

28. PASTEURIZATION SYSTEM, FULLY ENCLOSED TO THE ATMOSPHERE, ECO-THERM, WITH A VARIABLE SPEED FEED PUMP, SPIRAL-TYPE HEAT EXCHANGERS AND TWO SERPENTINE PIPE REACTORS.

V. TERTIARY TREATMENT PROCESSES, 22 MGD CAPACITY, CONSISTING OF:

29. FOUR TERTIARY FILTERS, ROTARY DISC CLOTH TYPE, EACH 636 SQUARE FEET.

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]

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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 PRIMARY DIGESTERS AND SECONDARY DIGESTERS SHALL BE VENTED TO THE INTERNAL COMBUSTION ENGINES, DIGESTER GAS STORAGE FACILITY, MICROTURBINES AND/OR DIGESTER GAS FLARE WHICH ARE IN FULL USE AND HAVE BEEN ISSUED PERMITS TO CONSTRUCT OR OPERATE BY THE SCAQMD OR TO EQUIPMENT EXEMPT PER SCAQMD RULE 219.
[RULE 1303]

5. 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]

6. AT LEAST ONE SAMPLE OF THE TREATED DIGESTER GAS DOWNSTREAM OF THE GAS PURIFIER SHALL BE ANALYZED FOR H2S DAILY AND RECORDED. ANALYTICAL METHODS SHALL BE APPROVED BY THE AQMD.
[RULE 431.1]

7. H2S CONCENTRATION OF THE DIGESTER GAS SHALL NOT EXCEED 200 PPMV.
[RULE 431.1]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No. F81077
A/N 451105

Equipment Description:

SLUDGE DEWATERING SYSTEM CONSISTING OF:

1. CENTRIFUGE, CENTRISYS, MODEL CS26-4, 350 GPM, 100 H.P. DRIVE.
2. TWO BELT FILTER PRESSES, ASHBROOK-SIMON-HARTLEY, EACH 2 METERS WIDE, AND EACH WITH THREE SLUDGE CONVEYORS.
3. ASSOCIATED PIPING, PUMPS, AND MOTORS.

LOCATED IN THE SLUDGE DEWATERING BUILDING WHICH IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
   [RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
   [RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.

   [RULE 204]
4. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THE CENTRIFUGE IS NOT COMPLETED WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.

   [RULE 205]
5. THE BELT FILTER PRESSES SHALL ONLY BE OPERATED AS BACKUP TO THE CENTRIFUGE.
   [RULE 204]
6. ALL SLUDGE SHALL BE PIPED AND STORED IN AN ENCLOSED MANNER TO PREVENT THE RELEASE OF AIR CONTAMINANTS UNTIL AFTER IT IS DEWATERED.

   [RULE 204, 402]
7. THE SLUDGE DEWATERING SYSTEM SHALL ONLY BE OPERATED IN THE SLUDGE DEWATERING BUILDING WHICH IS VENTED ONLY TO AN AIR POLLUTION CONTROL (APC) DEVICE WHICH HAS BEEN ISSUED VALID PERMIT TO CONSTRUCT OR OPERATE.

   [RULE 204, 402, 1303(a)(1)]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No. F81078
A/N 451351

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, ODOR CONTROL, VERTICAL, PACKED BED, 8'-0" DIA. X 16'-8" H., WITH SIX FEET OF VINYL PACKING AND ASSOCIATED PUMPS.

2. EXHAUST SYSTEM WITH A 40 H.P. BLOWER VENTING THE SLUDGE DEWATERING BUILDING.

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 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. HYDROGEN SULFIDE FROM THE OUTLET OF THIS AIR POLLUTION CONTROL SYSTEM SHALL NOT EXCEED 1.0 PARTS PER MILLION.
[RULE 402]

5. COMPLIANCE WITH CONDITION NO. 4 SHALL BE DETERMINED WEEKLY, USING DRAEGER TEST TUBES OR ANOTHER TEST METHOD APPROVED BY THE SCAQMD.
[RULE 402]

6. A FLOWMETER INDICATING GALLONS PER MINUTE (GPM) SHALL BE INSTALLED IN THE SCRUBBER SOLUTION RECIRCULATION LINE. NOT LESS THAN 150 GALLONS PER MINUTE OF SOLUTION SHALL BE RECIRCULATED THROUGH THE SCRUBBER WHEN THE SCRUBBER IS IN OPERATION.
[RULE 1303]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

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 WHEN THE SCRUBBER IS IN OPERATION. [RULE 1303]

Periodic Monitoring:

8. OPERATOR SHALL RECORD THE SCRUBBER SOLUTION FLOWRATE AT LEAST ONCE PER DAY. [RULE 3004(a)(4)]

9. OPERATOR SHALL RECORD THE PH OF THE SCRUBBER SOLUTION AT LEAST ONCE PER DAY. [RULE 3004(a)(4)]

10. A DIFFERENTIAL PRESSURE GAUGE SHALL BE INSTALLED TO MONITOR THE SCRUBBER PRESSURE DROP. THE PRESSURE DROP SHALL NOT EXCEED 9.0 INCHES OF WATER WHEN THE SCRUBBER IS IN OPERATION.
[RULE 3004(a)(4)]

11. OPERATOR SHALL RECORD THE PRESSURE DROP OF THE SCRUBBER AT LEAST ONCE PER DAY. [RULE 3004(a)(4)]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No. R-G4345
A/N 485853

Equipment Description:

INTERNAL COMBUSTION ENGINE, ENGINE NO. 113, CATERPILLAR, MODEL NO. G-379 SI-NA HCR, RICH BURN, FOUR-STROKE CYCLE, 8 CYLINDER, 330 B.H.P, NATURAL GAS FIRED, WITH AN AIR TO FUEL RATIO CONTROLLER, ALTRONIC EPC-100, AND JOHNSON MATTHEY NON-SELECTIVE CATALYTIC REACTOR, MODEL MX-40, DRIVING AN AERATION BLOWER.

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 OPERATOR SHALL COMPLY WITH THE RECORD KEEPING, SOURCE TESTING, AND EMISSION LIMITS OF RULE 1110.2.
[RULE 1110.2]

4. A PRESSURE DIFFERENTIAL MEASURING DEVICE SHALL BE INSTALLED TO MEASURE PRESSURE DROP ACROSS THE CATALYST BED WHILE THE EQUIPMENT IS IN OPERATION, THE PRESSURE DROP SHALL NOT EXCEED 5 INCHES OF WATER COLUMN.
[RULE 1303]

5. 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]

Periodic Monitoring

6. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

8. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

9. 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 3004 (a)(4)]

10. THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED 0.5 PERCENT OXYGEN EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT. [RULE 3004 (a)(4)]

11. 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 9. 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 3004 (a)(4)]

12. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST. [RULE 3004 (a)(4)]

13. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE OUTLET OF THE CATALYST. [RULE 3004 (a)(4)]

14. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1300 DEGREES FAHRENHEIT. [RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

15. 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 3004 (a)(4)]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 45 PPMV, RULE 1110.2
NOX: 0.15 GM/BHP-HR, RULE 1303
VOC: 250 PPMV, RULE 1110.2
VOC: 0.15 GM/BHP-HR, RULE 1303
CO: 2000 PPMV , RULE 1110.2
CO: 0.6 GM/BHP-HR, RULE 1303

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No. R-G4346
A/N 485855

Equipment Description:

INTERNAL COMBUSTION ENGINE, ENGINE NO. 33, CATERPILLAR, MODEL G379, SERIAL NO. 72B465, EIGHT CYLINDERS, SPARK IGNITION, 330 BHP, NATURALLY ASPIRATED, NATURAL GAS FIRED, WITH A MIRATECH EQUINOX CATALYTIC SILENCER MODEL E1300-6-D, AN AIR/FUEL RATIO CONTROLLER, ALTRONIC EPC-100, AND A WASTE HEAT RECOVERY SYSTEM, DRIVING AN AIR BLOWER.

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 IS TO BE FIRED ONLY ON NATURAL GAS.
[RULE 204, 1110.2]

4. A NON-RESETTABLE TIMER SHALL BE INSTALLED TO INDICATE, IN CUMULATIVE HOURS, THE NUMBER OF HOURS THE ENGINE IS OEPRATED.
[RULE 204, 1110.2]

5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL PROVISIONS OF RULE 1110.2.
[RULE 204, 1110.2]

6. THE OXYGEN CONTENT OF THE EXHAUST GAS ENTERING THE CATALYST SHALL NOT EXCEED 0.5 PERCENT ON A VOLUME BASIS, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]

7. THE EXHAUST GAS OXYGEN SENSOR SHALL BE REPLACED AT LEAST ONCE PER YEAR.
[RULE 204, 1110.2]

8. 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, 1110.2]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

9. THE TEMPERATURE OF THE EXHAUST GAS AT THE CATALYST OUTLET SHALL NOT EXCEED 1350 DEGREES F.
[RULE 204, 1110.2]

10. 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]

Periodic Monitoring

11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

14. 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 3004 (a)(4)]

15. 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 6. 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 3004 (a)(4)]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

16. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST. [RULE 3004 (a)(4)]

17. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE OUTLET OF THE CATALYST. [RULE 3004 (a)(4)]

18. THE OPERATOR SHALL RECORD THE MONTHLY FUEL CONSUMPTION FOR THIS EQUIPMENT. [RULE 1110.2, 3004 (a)(4)]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 45 PPM AT 15% O2, RULE 1110.2
VOC 250 PPM AT 15% O2, RULE 1110.2
CO 2000 PPM AT 15% O2, RULE 1110.2

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No. R-G4347
A/N 485856

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL G379 SI-TA-HCR, SERIAL NO. 72B01430, EIGHT CYLINDERS, SPARK IGNITION, 260 BHP, TURBOCHARGED AND AFTERCOOLED, DIGESTER GAS FIRED, WITH A PRE-STRATIFIED CHARGE SYSTEM, AIR TO FUEL RATIO CONTROLLER, CUSTOM, AND HEAT RECOVERY SYSTEM, DRIVING AN AERATION BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT IS TO BE FIRED ONLY ON DIGESTER GAS.
[RULE 1110.2]

4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL PROVISIONS OF RULE 1110.2.
[RULE 1110.2]

6. A NON-RESETTABLE TIMER SHALL BE INSTALLED TO INDICATE, IN CUMULATIVE HOURS, THE NUMBER OF HOURS THE ENGINE IS OPERATED.
[RULE 1110.2]

7. 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]

Periodic Monitoring

8. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

11. THE OPERATOR SHALL RECORD THE MONTHLY FUEL CONSUMPTION FOR THIS EQUIPMENT. [RULE 1110.2, 3004 (a)(4)]

12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER. [RULE 3004 (a)(4)]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 45 PPM AT 15% O2, RULE 1110.2
VOC: 250 PPM AT 15% O2, RULE 1110.2
CO: 2000 PPM AT 15% O2, RULE 1110.2

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No. R-G4348
A/N 486679

Equipment Description:

INTERNAL COMBUSTION ENGINE [NO.36], CATERPILLAR, SPARK IGNITION, FOUR-STROKE CYCLE, NATURALLY ASPIRATED, RICH BURN, 8 CYLINDER, MODEL NO. G-379, 330 H.P, NATURAL GAS FIRED, WITH A MIRATECH EQUINOX CATALYTIC SILENCER MODEL EQ300-6-D2, AND AN AIR/FUEL RATIO CONTROLLER, ALTRONIC EPC-100, DRIVING A PUMP.

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 OXYGEN CONTENT OF THE EXHAUST GAS ENTERING THE CATALYST SHALL NOT EXCEED 0.5 PERCENT ON A VOLUME BASIS, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]

4. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 850 DEGREES F AND 1200 DEGREES F., EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]

5. THE TEMPERATURE OF THE EXHAUST GAS AT THE CATALYST OUTLET SHALL NOT EXCEED 1500 DEGREES F.
[RULE 204, 1110.2]

6. A TEMPERATURE INDICATOR SHALL BE INSTALLED A THE INLET AND OUTLET OF THE CATALYST.
[RULE 204, 1110.2]

7. THE EXHAUST GAS OXYGEN SENSOR SHALL BE REPLACED AT LEAST ONCE PER YEAR.
[RULE 204, 1110.2]

8. 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]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

Periodic Monitoring

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER. [RULE 3004 (a)(4)]

13. 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 3. 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 3004 (a)(4)]

14. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST. [RULE 3004 (a)(4)]

15. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE OUTLET OF THE CATALYST. [RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

16. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME. [RULE 1110.2, 3004 (a)(4)]

17. THE OPERATOR SHALL RECORD THE MONTHLY FUEL CONSUMPTION FOR THIS EQUIPMENT. [RULE 1110.2, 3004 (a)(4)]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 45 PPMV, RULE 1110.2
VOC: 250 PPMV, RULE 1110.2
CO: 2000 PPMV , RULE 1110.2

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No. R-G4344
A/N 486680

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, SPARK IGNITION, FOUR-STROKE CYCLE, NATURALLY ASPIRATED, RICH BURN, 8 CYLINDER, MODEL NO. G-379, 330 H.P, NATURAL GAS FIRED, WITH A MIRATECH EQUINOX CATALYTIC SILENCER MODEL EQ300-6-D2, AND AN AIR/FUEL RATIO CONTROLLER, ALTRONIC EPC-100, DRIVING A PUMP.

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 OXYGEN CONTENT OF THE EXHAUST GAS ENTERING THE CATALYST SHALL NOT EXCEED 0.5 PERCENT ON A VOLUME BASIS, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]

4. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 850 DEGREES F AND 1200 DEGREES F., EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]

5. THE TEMPERATURE OF THE EXHAUST GAS AT THE CATALYST OUTLET SHALL NOT EXCEED 1500 DEGREES F.
[RULE 204, 1110.2]

6. A TEMPERATURE INDICATOR SHALL BE INSTALLED A THE INLET AND OUTLET OF THE CATALYST.
[RULE 204, 1110.2]

7. THE EXHAUST GAS OXYGEN SENSOR SHALL BE REPLACED AT LEAST ONCE PER YEAR.
[RULE 204, 1110.2]

8. 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]

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Periodic Monitoring

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a)(4)]

12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER. [RULE 3004 (a)(4)]

13. 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 3. 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 3004 (a)(4)]

14. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST. [RULE 3004 (a)(4)]

15. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE OUTLET OF THE CATALYST. [RULE 3004 (a)(4)]

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16. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME. [RULE 1110.2, 3004 (a)(4)]

17. THE OPERATOR SHALL RECORD THE MONTHLY FUEL CONSUMPTION FOR THIS EQUIPMENT. [RULE 1110.2, 3004 (a)(4)]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 45 PPMV, RULE 1110.2
VOC: 250 PPMV, RULE 1110.2
CO: 2000 PPMV, RULE 1110.2

FACILITY PERMIT TO OPERATE
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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, BOILER, > 400,000 BTU/HR BUT ≤ 2 MMBTU/HR.

Emissions and Requirements:

1. 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 GR/SCF, RULE 409
   NOx: 30 PPMV, @ 3% O2, DRY, OR 0.037 POUNDS PER MMBTU, RULE 1146.2
   CO: 400 PPMV, @ 3% O2, DRY, RULE 1146.2
   CO: 2000 PPMV, RULE 407

FACILITY PERMIT TO OPERATE
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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions and Requirements:

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

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE
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PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE
(SECTION H)

This section consists of a table listing all equipment with Permits to Construct and copies of 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 that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

FACILITY PERMIT TO OPERATE
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PERMITTED EQUIPMENT LIST

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

Application number	Equipment description	Page #
R-446534	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	3
R-475845	BIOFILTER (> 100 CFM)	8
503050	BOILER (5-20MMBTU/HR), DIGESTER GAS	9
503053	BOILER (5-20MMBTU/HR), NATURAL GAS	12
503055	ICE (>500 HP) EMERGENCY ELEC. GENERATOR, DIESEL	15
512190	SEWAGE TREATMENT (>5 MG/D) ANAEROBIC	17

NOTE: 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
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PERMIT TO CONSTRUCT

GRANTED AS OF: December 10, 2010
A/N R-446534

Equipment Description:

DIGESTER GAS FLARING SYSTEM CONSISTING OF:

1. ONE (1) ENCLOSED FLARE, JOHN ZINK, MODEL ZTOF, 18,000,000 BTU/HR, 5'-0" DIA. X 50'-0" H.
2. NATURAL GAS PILOT SYSTEM WITH ELECTRIC IGNITION.
3. ULTRA-VIOLET FLAME DETECTOR.
4. KNOCKOUT VESSEL
5. ONE (1) COMBUSTION AIR BLOWER, ¾ HP.

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. AT LEAST TWO (2) SAMPLING PORTS SHALL BE PROVIDED IN THE FLARE STACK AT LEAST ONE-HALF 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 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 204]
5. A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE FLARE TO ALLOW THE COLLECTION OF A DIGESTER GAS SAMPLE
   [RULE 204]

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6. THE FLARE SHALL BE EQUIPPED WITH AT LEAST ONE TEMPERATURE INDICATOR AND 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]

7. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 DEGREES F, AS MEASURED BY AN APPROVED TEMPERATURE INDICATOR, SHALL BE MAINTAINED IN THE FLARE STACK.
[RULE 1303]

8. 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 1303]

9. THE AUTOMATIC SHUT-DOWN SYSTEM SHALL BE TESTED MONTHLY FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 1303]

10. 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 1303]

11. THE TOTAL VOLUME OF DIGESTER GAS BURNED IN THE FLARE SHALL NOT EXCEED 480 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303]

12. THE HEAT INPUT THROUGH THE FLARE SHALL NOT EXCEED 18 MILLION BTUS PER HOUR.
[RULE 1303]

13. 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 204]

14. 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, FOR THE SCAQMD.
[RULE 204]

15. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 204]

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16. 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. SAFE AND ADEQUATE ACCESS SHALL BE PROVIDED FOR ALL VIEW PORTS UPON REQUEST BY SCAQMD PERSONNEL.
[RULE 204]

17. THE FLARE SHALL BE DESIGNED AND OPERATED SO THAT THE FLAME IN THE FLARE REMAINS BELOW THE HEIGHT OF THE FLARE'S OPERATING THERMOCOUPLE AT ALL TIMES.
[RULE 1303]

18. THE MAXIMUM FLARE SKIN TEMPERATURE AT ANY LOCATION SHALL NOT EXCEED 250 DEGREES F.
[RULE 1303]

19. 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 EMISSIONS OF RAW DIGESTER GAS SHALL BE REPORTED TO THE SCAQMD MANAGER OF PUBLIC FACILITIES BRACH WITHIN ONE HOUR AFTER OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSION INTO THE ATMOSPHERE.
[RULE 204]

20. WITHIN 180 DAYS OF INITIAL START-UP 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 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 TESTS.

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
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, FORMALDEHYDE, TETRACHLOROETHYLENE, TOLUENE, 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE, VINYL CHLORIDE, AND XYLENE ISOMERS (EXHAUST ONLY)
J. OXYGEN
K. NITROGEN

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L. MOISTURE CONTENT
M. TEMPERATURE
N. FLOW RATE
O. BTU VALUE.
[RULE 1303]

21. OXIDES OF NITROGEN EMISSIONS SHALL NOT EXCEED 0.06 POUNDS PER MILLION BTUS INLET GAS.
[RULE 1303]

22. EMISSIONS OF TOTAL SULFUR COMPOUNDS FROM COMBUSTION OF DIGESTER GAS AT THIS FACILITY SHALL NOT EXCEED 5 LB/DAY MEASURE AS H2S.
[RULE 431.1]

23. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]

24. APPLICANT SHALL PERFORM A FULL RISK ASSESSMENT ON THE EMISSION FROM THE FLARE WITHIN 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]

25. APPLICANT SHALL SUBMIT FINAL DESIGN SPECIFICATIONS AND DIMENSIONS IN SUFFICIENT DETAIL TO DEMONSTRATE COMPLIANCE WITH THE FOLLOWING REQUIREMENTS. FOLLOWING SUBMITTAL, WRITTEN APPROVAL OF SUCH SPECIFICATIONS AND PLANS SHALL BE OBTAINED FROM SCAQMD PRIOR TO STARTING CONSTRUCTION.
A. CONDENSATE KNOCKOUT MAKE, MODEL NO., AND EFFICIENCY.
B. BLOWER MAKE AND MODEL NO.
C. FLAME ARRESTOR MAKE AND MODEL NO.
D. FLARE MAKE, MODEL NO., DIAMETER, HEIGHT, FLOW RATE, VELOCITY, RESIDENCE TIME AT 1400 DEGREES F., COMBUSTION AIR AND TEMPERATURE CONTROL SYSTEM, AUTOMATIC NOTIFICATION SYSTEM, GUARANTEED EMISSION RATES OF NOX AND CO, AND GUARANTEED DESTRUCTION RATES OF NMHC AND TOXICS.
E. CONDENSATE FEED AND NOZZLE CONFIGURATION.
[RULE 1303]

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EASTERN MUNICIPAL WATER DIST.

Emissions and Requirements:

26. 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 GR/SCF, RULE 409
    - PM10: 0.52 LB/HR, RULE 1303
    - NOX: 1.08 LB/HR, RULE 1303
    - CO: 3.6 LB/HR, RULE 1303
    - VOC: 0.65 LB/HR, RULE 1303
    - SOX: 0.31 LB/HR, RULE 1303

THIS PERMIT TO CONSTRUCT R-446534 SUPERSEDES PERMIT TO CONSTRUCT 446534 ISSUED ON NOVEMBER 4, 2005.

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

PERMIT TO CONSTRUCT

GRANTED AS OF: December 10, 2010
A/N R-475845

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:
1. BIOFILTER, CUSTOM, TWO CELLS OPERATING IN PARALLEL, EACH CELL 75'-0" W. X 75'-0" L.,
2. TWO BLOWERS, EACH 15,000 CFM
3. EXHAUST SYSTEM, 30,000 CFM MAXIMUM CAPACITY, VENTING THE WET WELL, HEADWORKS, GRIT CHAMBER, AND PRIMARY CLARIFIERS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
   [RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
   [RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
   [RULE 204]
4. THE CONCENTRATION OF H2S EMISSIONS FROM THE BIOFILTER SHALL BE MEASURED AT LEAST ONCE PER WEEK, AT A MINIMUM OF 10 POINTS, REPRESENTATIVE OF THE ENTIRE SURFACE. THE AVERAGE H2S CONCENTRATION SHALL NOT EXCEED 0.5 PPMV AT ANY POINT ON THE SURFACE OF THE BIOFILTER.
   [RULE 402]
5. THE FOUL AIR STREAM MOISTURIZING SYSTEM AND/OR THE SPRINKLERS SHOULD BE UTILIZED AS NEEDED TO MAINTAIN THE BIOFILTERS AT THE OPTIMAL MOISTURE CONTENT.
   [RULE 204]
6. THE BIOFILTER MEDIA SHOULD BE REPLACED OR REPLENISHED AS NEEDED TO MAINTAIN ADEQUATE PERFORMANCE.
   [RULE 402]
7. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH THE CONDITIONS ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.
   [RULE 204]

THIS PERMIT TO CONSTRUCT R-475845 SUPERSEDES PERMIT TO CONSTRUCT 475845 ISSUED ON JANUARY 1, 2010.

FACILITY PERMIT TO OPERATE
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PERMIT TO CONSTRUCT

GRANTED AS OF: March 9, 2010
A/N 503050

Equipment Description:

BOILER, 5.3 MMBTU PER HOUR, DIGESTER GAS FIRED, WITH ULTRA LOW NO_X BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT TO CONSTRUCT 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. EASTERN MUNICIPAL WATER DISTRICT SHALL INSTALL, A JOHNSTON BOILER MODEL 509, 5.3 MMBTU/HR, DIGESTER GAS FIRED, WITH ULTRA-LOW NOx BURNER; OR A HURST BOILER, SERIES 500, 5.3 MMBTU/HR, DIGESTER GAS FIRED, WITH ULTRA-LOW NOx BURNER; OR AN EQUIVALENT BOILER.
[RULE 204]

4. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO SCAQMD FOR APPROVAL, THE FINAL BOILER 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]

5. THIS BOILER SHALL BE FIRED PRIMARILY ON DIGESTER GAS. NATURAL GAS MAY BE USED AS A STANDBY FUEL AS ALLOWED PER RULE 1146.
[RULE 204, 1146]

6. NON-RESETTABLE, TOTALIZING FUEL METERS SHALL BE INSTALLED AND MAINTAINED IN EACH FUEL SUPPLY LINE TO MEASURE AND RECORD THE AMOUNT OF FUEL BURNED.
[RULE 1303(b)(1), 1303(b)(2) – MODELING & OFFSET]

7. WHEN IN OPERATION, TOTAL HEAT INPUT FOR THIS EQUIPMENT SHALL NOT EXCEED 5.3 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 1303(b)(1), 1303(b)(2) – MODELING & OFFSET]

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8. 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]

9. EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS AND SHALL BE MEASURED BY VOLUME AT 3% O2, DRY BASIS.

FUEL USED	NOX AS NO2	CO
DIGESTER GAS	30 PPMV	<100 PPMV
NATURAL GAS	12 PPMV	<50 PPMV

[RULE 1146, RULE 1303(a)(1) – BACT/LAER]

10. ON AND AFTER JANUARY 1, 2015, EMISSIONS OF NOX SHALL NOT EXCEED 15 PPMV (CORRECTED TO 3% O2, DRY) WHILE FIRING ON DIGESTER GAS.
[RULE 1146]

11. 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 DISTRICT RULE 304 (NO CONFLICT OF INTEREST).

B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO AQMD WITHIN 30 DAYS OF INITIAL START UP AND SHALL BE APPROVED BY AQMD 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 AQMD 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

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IV. TOTAL NON-METHANE ORGANICS FOR DIGESTER GAS AND EXHAUST GAS
V. SPECIATED TRACE ORGANICS FOR DIGESTER GAS AND EXHAUST GAS
VI. TOTAL PARTICULATES OF EXHAUST GAS
VII. OXIDES OF NITROGEN FOR EXHAUST GAS
VIII. CARBON MONOXIDE FOR EXHAUST GAS
IX. OXYGEN FOR EXHAUST GAS
X. HIGHER HEATING VALUE FOR DIGESTER GAS
XI. TOTAL SULFUR CONTENT, AS H2S, PPMV FOR DIGESTER GAS
[RULE 217, RULE 404, RULE 1146, RULE 1303(a)(1), 1303(b)(1), 1303(b)(2)-BACT, MODELING AND OFFSET, RULE 1401]

12. EMISSIONS FROM THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	POUNDS PER HOUR
CO	0.41 (0.2 FOR NATURAL GAS)
NOX	0.20 (0.19 FOR NATURAL GAS)
PM10	0.004
ROG	0.047
SOX	0.095

[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]

13. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF 40 CFR 63 SUBPART DDDDD.
[40 CFR 63 SUBPART DDDDD]

14. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004(A)(1)]

Periodic Monitoring:

15. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE EMISSION LIMITS IN CONDITION NO. 12, AT LEAST ONCE EVERY FIVE YEARS USING AQMD-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.

Emissions and Requirements:

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

CO: 2000 PPMV, RULE 407
CO: 400 PPMV @ 3% O2, DRY BASIS, RULE 1146
PM: 0.1 GR/SCF, RULE 409

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

PERMIT TO CONSTRUCT

GRANTED AS OF: March 9, 2010
A/N 503053

Equipment Description:

BOILER, 5.3 MMBTU PER HOUR, NATURAL GAS FIRED, WITH ULTRA LOW NOX BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT TO CONSTRUCT 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. EASTERN MUNICIPAL WATER DISTRICT SHALL INSTALL, A JOHNSTON BOILER MODEL 509, 5.3 MMBTU/HR, NATURAL GAS FIRED, WITH ULTRA-LOW NOx BURNER; OR A HURST BOILER, SERIES 500, 5.3 MMBTU/HR, NATURAL GAS FIRED, WITH ULTRA-LOW NOx BURNER; OR AN EQUIVALENT BOILER.
[RULE 204]

4. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO SCAQMD FOR APPROVAL, THE FINAL BOILER 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]

5. THIS BOILER SHALL BE FIRED ON NATURAL GAS ONLY.
[RULE 204, 1146]

6. A NON-RESETTABLE, TOTALIZING FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO MEASURE AND RECORD THE AMOUNT OF FUEL BURNED.
[RULE 1303(b)(1), 1303(b)(2) – MODELING & OFFSET]

7. WHEN IN OPERATION, TOTAL HEAT INPUT FOR THIS EQUIPMENT SHALL NOT EXCEED 5.3 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 1303(b)(1), 1303(b)(2) – MODELING & OFFSET]

8. 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]

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9. EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS AND SHALL BE MEASURED BY VOLUME AT 3% O2, DRY BASIS.

FUEL USED	NOX AS NO2	CO
NATURAL GAS	12 PPMV	<50 PPMV

[RULE 1303(a)(1) – BACT/LAER]

10. ON AND AFTER JANUARY 1, 2015, EMISSIONS OF NOX SHALL NOT EXCEED 9 PPMV (CORRECTED TO 3% O2, DRY).
[RULE 1146]

11. 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 DISTRICT RULE 304 (NO CONFLICT OF INTEREST).

B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO AQMD WITHIN 30 DAYS OF INITIAL START UP AND SHALL BE APPROVED BY AQMD 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. 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 AQMD WITHIN 60 DAYS OF TESTING. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

I. FUEL FLOW RATE
II, FLUE GAS FLOW RATE
III. TOTAL NON-METHANE ORGANICS FOR EXHAUST GAS
IV. SPECIATED TRACE ORGANICS FOR EXHAUST GAS
V. OXIDES OF NITROGEN FOR EXHAUST GAS
VI. CARBON MONOXIDE FOR EXHAUST GAS
VII. OXYGEN FOR EXHAUST GAS

[RULE 217, RULE 1146, RULE 1303(a)1), 1303(b)(1), 1303(b)(2)-BACT, MODELING AND OFFSET, RULE 1401]

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12. EMISSIONS FROM THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	POUNDS PER HOUR
CO	0.28
NOX	0.06
PM10	0.05
ROG	0.05
SOX	0.003

[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]

13. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF 40 CFR 63 SUBPART DDDDD.
[40 CFR 63 SUBPART DDDDD]

14. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004(A)(1)]

Periodic Monitoring:

15. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE EMISSION LIMIT(S) IN CONDITION NO. 12, AT LEAST ONCE EVERY FIVE YEARS USING AQMD-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 1303 – OFFSET, 3004(a)(4)]

Emissions and Requirements:

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

CO: 2000 PPMV, RULE 407
CO: 400 PPMV @ 3% O2, DRY BASIS, RULE 1146
PM: 0.1 GR/SCF, RULE 409

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PERMIT TO CONSTRUCT

GRANTED AS OF: March 9, 2010
A/N 503055

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL 3512C, 2000 BHP, DIESEL FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR, OR AN EQUIVALENT SCAQMD CERTIFIED EQUIPMENT.

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. A NON-RESETTABLE TOTALIZING TIMER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, 40CFR Subpart IIII]

4. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF THREE YEARS FROM THE DATE OF ENTRY AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDING HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1470]

5. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING.
[RULE 1470]

6. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOCATED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT: (A) 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 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 1470]

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7. THE OPERATOR SHALL USE ONLY DIESEL FUEL WITH A SULFUR CONTENT THAT DOES NOT EXCEED 15 PPM BY WEIGHT.
[RULE 431.2, RULE 1470]

8. THE OPERATOR SHALL PROVIDE THE FINAL EQUIPMENT SPECIFICATIONS, AND EMISSION CERTIFICATIONS, MORE THAN 30 DAYS PRIOR TO INSTALLATION.
[RULE 204]

Emissions and Requirements:

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

PM:	RULE 404, SEE APPENDIX B FOR EMISSION LIMITS	
PM10:	0.12	G/BHP-HR, RULE 1303
PM10:	0.40	G/BHP-HR, 40CFR Subpart IIII
NOX:	4.0	G/BHP-HR, RULE 1303
VOC:	0.19	G/BHP-HR, RULE 1303
CO:	0.82	G/BHP-HR, RULE 1303
CO:	2.61	G/BHP-HR, 40CFR Subpart IIII
NOx+NMHC	7.87	G/BHP-HR, 40CFR Subpart IIII

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PERMIT TO CONSTRUCT

GRANTED AS OF: December 10, 2010
A/N 512190

Equipment Description:

MODIFICATION OF A WATER RECLAMATION PLANT, ANAEROBIC, 11 MGD CAPACITY, CONSISTING OF:

I. HEADWORKS PROCESSES CONSISTING OF:
1. ONE (1) CLIMBING BAR SCREEN WITH RAG COMPACTOR AND ONE (1) COMMINUTOR FOR BACKUP.
2. ONE (1) STORAGE TANK, FERRIC CHLORIDE, 2,500 GALS.
3. THREE (3) AERATED GRIT CHAMBERS WITH ASSOCIATED PUMPS AND MOTORS.
4. ONE (1) GRIT WASHER AND HOPPER WITH ASSOCIATED PUMPS AND MOTORS.

II. PRIMARY TREATMENT PROCESSES CONSISTING OF:
5. FIVE (5) PRIMARY SEDIMENTATION TANKS, UNCOVERED, EACH 16' W X 123' L X 12' H, WITH ASSOCIATED DRIVES, PUMPS AND MOTORS.
6. FIVE (5) AERATION TANKS, EACH 24' W X 210' L X 15' H, WITH ASSOCIATED PUMPS AND MOTORS.

III. SECONDARY TREATMENT PROCESSES CONSISTING OF:
7. ELEVEN (11) SECONDARY SEDIMENTATION TANKS, EACH 16' W X 110' L X 12' H, WITH ASSOCIATED PUMPS AND MOTORS.
8. TWO (2) FLOW EQUALIZATION BASINS, EACH 2.5 MILLION GALLONS PER DAY CAPACITY, 150' W X 420' L X 3' H, WITH ASSOCIATED PUMPS AND MOTORS.
9. TWO (2) STORAGE TANKS, CHLORINE, 10 TON CAPACITY, EACH 4'-6" D X 16'-11" L.
10. SCRUBBER, CHLORINE NEUTRALIZING, RJ-2000 BULK.
11. ONE (1) STORAGE TANK, CAUSTIC SODA, 14,500 GALLON CAPACITY, 16' D X 10' H.
12. TWO (2) CHLORINE CONTACT TANKS, EACH 28'-6" W X 235' L X 12' H.
13. TEN (10) SECONDARY EFFLUENT EVAPORATION/STORAGE PONDS, 264 MILLION GALLONS TOTAL CAPACITY.
14. TWELVE (12) WETLAND RESEARCH CELLS, EACH 45' W X 225' L X 2' H.
15. ONE (1) CONSTRUCTED WETLANDS, 40 MILLION GALLON CAPACITY, 25 ACRES, 5' DEEP.

IV. TERTIARY TREATMENT PROCESSES, 22 MGD CAPACITY, CONSISTING OF:
16. FOUR TERTIARY FILTERS, ROTARY DISC CLOTH TYPE, EACH 636 SQUARE FEET.

V. SLUDGE PROCESSES CONSISTING OF:
17. TWO (2) DISSOLVED AIR FLOATATION (DAF) SLUDGE THICKENER TANKS, EACH 30' D X 6' H, WITH ASSOCIATED PUMPS AND MOTORS.
18. THREE (3) PRIMARY DIGESTERS WITH FIXED ROOF, EACH 50' D X 22' H, EACH 309,000 GALLONS, WITH ASSOCIATED PUMPS AND MOTORS.
19. ONE (1) SECONDARY DIGESTER WITH FLOATING ROOF, 50' D X 22' H, 309,000 GALLONS.
20. ONE (1) GAS DRYER WITH ASSOCIATED MOTOR.
21. ONE (1) DIGESTER GAS STORAGE SPHERE, 35' D, WITH GAS COMPRESSOR.

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22. ONE (1) DIGESTER GAS DESULFURIZATION (IRON SPONGE), GROTH EQUIPMENT CORPORATION, DUAL VESSEL, EACH VESSEL, 5' W X 9'-9" L X 7'-1" H, EACH CELL CONTAINING 112 CUBIC FEET OF FERRIC OXIDE MATERIAL.
23. ONE (1) SLUDGE OFF-LOADING STATION.
24. TWO (2) SLUDGE DRYING BEDS, EACH 160' W X 140' L X 1' H.
25. EIGHT (8) SLUDGE DRYING BEDS, EACH 40' W X 140' L X 1' H.
26. ONE (1) STORAGE TANK, CAUSTIC SODA, 1,000 GALLONS.
27. TWO (2) BOILERS, FULTON PULSEPAK, MODEL PHW 1400, 1.4 MMBTU/HR EACH, NATURAL GAS FIRED.
28. ONE (1) SCRUBBER, WESTERN TECHNOLOGY, PACKED BED, 8' D X 16'-8" H.
29. PASTEURIZATION SYSTEM, FULLY ENCLOSED TO THE ATMOSPHERE, ECO-THERM, WITH A VARIABLE SPEED FEED PUMP, SPIRAL-TYPE HEAT EXCHANGERS AND TWO SERPENTINE PIPE REACTORS.

BY THE ADDITION OF:

I. HEADWORKS:

1. TWO MECHANICAL BAR SCREENS AND ONE BY-PASS MANUAL BAR SCREEN. ONE UNUSED INFLUENT CHANNEL FOR FUTURE BAR SCREEN.
2. TWO HORIZONTAL SCREW CONVEYORS
3. ONE SCREENINGS COMPACTOR
4. TWO STORAGE TANKS, FERRIC CHLORIDE, 11,000 GALS.
5. ONE GRIT WASHER AND ONE HOPPER WITH ASSOCIATED PUMPS AND MOTORS.
6. TWO GRIT BASINS, CIRCULAR VORTEX TYPE, 18'-0" DIA, WITH ASSOCIATED GRIT PUMPS AND GRIT CLASSIFIER
7. SPLITTER BOX

II. PRIMARY TREATMENT PROCESS:

8. INFLUENT SPLITTER BOX
9. FIVE PRIMARY SEDIMENTATION TANKS, COVERED, EACH 16'W X 123'L X 10'H WITH ASSOCIATED DRIVERS, PUMPS AND MOTORS.
10. TWO PRIMARY CLARIFIERS, COVERED, EACH 100'-0" DIA. X 12'-0" D., WITH ASSOCIATED DRIVES, PUMPS, MOTORS. (PLANT 2)
11. PRIMARY EFFLUENT SPLITTER BOX.

III. SECONDARY TREATMENT PROCESS:

12. FIVE AERATION TANKS, EACH 24'W X 210'L X 12'H, WITH ASSOCIATED PUMPS AND MOTORS.
13. THREE AERATION BLOWERS, EACH AT 6000 SCFM.
14. ELEVEN (11) SECONDARY SEDIMENTATION TANKS, EACH 16' W X 110" L X 10' H WITH ASSOCIATED PUMPS AND MOTORS.
15. ONE FLOW EQUALIZATION BASIN, 2.0 MILLION GALLONS PER DAY CAPACITY, 138' W X 452' L X 3' H, WITH ASSOCIATED PUMPS AND MOTORS.
16. ONE FLOW EQUALIZATION BASIN, 2.3 MILLION GALLONS PER DAY CAPACITY, 160' W X 452' L X 3' H, WITH ASSOCIATED PUMPS AND MOTORS.
17. ONE (1) CHLORINE CONTACT TANK, 28'-6" W X 235' L X 12' H.
18. AERATION TANK, 168' W X 207' L X 12' H WITH ASSOCIATED MIXERS
19. TWO AERATION BLOWERS, 6400 SCFM EACH
20. THREE SECONDARY CLARIFIERS, EACH 125' DIA X 14'H, WITH ASSOCIATED DRIVERS, PUMPS AND MOTORS. (PLANT 2)
21. FIVE SECONDARY PONDS:

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POND 1 -- 7.5 MG
POND 3 – 15.5 MG
POND 4 – 26 MG
POND 8 – 27 MG
POND 9 – 26.5 MG

IV. TERTIARY TREATMENT PROCESS:

22. FILTER INFLUENT PUMP STATION WITH 5000 GPM PUMP.
23. ONE FILTER INFLUENT PUMP STATION WITH 3 PUMPS.
24. SIX TERTIARY CLOTH FILTERS, 636 SQ. FT EACH.
25. THREE (2) CHLORINE CONTACT TANKS, EACH 9.5' W (3 PASS) X 235' L X 10' H".
26. TERTIARY CHEMICAL BUILDING WITH ONE ALUM STORAGE TANK (13,000 GALLONS) WITH ASSOCIATED PUMPS AND TWO POLYMER TOTES AT 260 GALLONS EACH AND ASSOCIATED BLENDERS.
27. TWO FLOCCULATION BASINS, EACH 18'-0"L X 18'-0" W X 18'-0"H, WITH ALUM AND POLYMER STORAGE, PUMPING EQUIPMENT, ONE RAPID MIXER AND FOUR FLOCCULATORS.
28. TERTIARY EFFLUENT DIVERSION BOX.
29. TERTIARY EFFLUENT/UTILITY WATER PUMP STATION WITH TEN PUMPS.
30. SIX (6) TERTIARY STORAGE PONDS:
    PONDS 2A & 2B – 19.7 MG
    POND 5 – 28 MG
    POND 6 – 40 MG
    POND 7 – 50 MG
    WETLAND – 40 MG

V. SLUDGE PROCESSES:

31. THREE (3) PRIMARY DIGESTERS WITH FIXED ROOF, EACH 50' D X 21' H, EACH 309,000 GALLONS.
32. SCUM DECANT STATION.
33. THREE ROTARY DRUM THICKENERS, WITH ASSOCIATED PUMPS AND POLYMER BLENDING UNITS.
34. TWO DIGESTERS, DOMED ROOF, 80'0"D X 30'-0"H EACH.
35. ONE (1) OPTIONAL STORAGE TANK, COLD SLUDGE, WITH FLOATING ROOF, 50'-0" D. X 22'-0" H., 309,000 GALLONS.
36. ONE STORAGE TANK, COLD SLUDGE, WITH FIXED DOMED COVER, 50' D X 22' H, 293,005 GALLONS.
37. ONE STORAGE TANK, DIGESTED SLUDGE, 80'-0" DIA X 23'-0" H, 864,767 GALLONS CAPACITY.
38. ONE PREHEAT TANK.
39. ONE STORAGE TANK, DIGESTER GAS, LOW PRESSURE, 24' D X 30'-0" H.
40. THREE CONVEYORS, SLUDGE CAKE.

BY THE REMOVAL OF:

I. HEADWORKS:

1. ONE (1) CLIMBING BAR SCREEN WITH RAG COMPACTOR AND ONE (1) COMMINUTOR FOR BACKUP.
2. ONE (1) STORAGE TANK, FERRIC CHLORIDE, 2,500 GALS.
3. THREE (3) AERATED GRIT CHAMBERS WITH ASSOCIATED PUMPS AND MOTORS.

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II. PRIMARY TREATMENT PROCESSES CONSISTING OF:

4. FIVE (5) PRIMARY SEDIMENTATION TANKS, UNCOVERED, EACH 16' W X 123' L X 12' H, WITH ASSOCIATED DRIVES, PUMPS AND MOTORS.
5. FIVE (5) AERATION TANKS, EACH 24' W X 210' L X 15' H, WITH ASSOCIATED PUMPS AND MOTORS.

III. SECONDARY TREATMENT PROCESSES CONSISTING OF:

6. ELEVEN (11) SECONDARY SEDIMENTATION TANKS, EACH 16' W X 110' L X 12' H, WITH ASSOCIATED PUMPS AND MOTORS.
7. TWO (2) FLOW EQUALIZATION BASINS, EACH 2.5 MILLION GALLONS PER DAY CAPACITY, 150' W X 420' L X 3' H, WITH ASSOCIATED PUMPS AND MOTORS.
8. TEN (10) SECONDARY EFFLUENT EVAPORATION/STORAGE PONDS, 264 MILLION GALLONS TOTAL CAPACITY.
9. TWELVE (12) WETLAND RESEARCH CELLS, EACH 45' W X 225' L X 2' H.
10. ONE (1) CONSTRUCTED WETLANDS, 40 MILLION GALLON CAPACITY, 25 ACRES, 5' DEEP.

IV. TERTIARY TREATMENT PROCESSES, 22 MGD CAPACITY, CONSISTING OF:

11. FOUR TERTIARY FILTERS, ROTARY DISC CLOTH TYPE, EACH 636 SQUARE FEET.

IV. SLUDGE PROCESSES CONSISTING OF:

12. THREE (3) PRIMARY DIGESTERS WITH FIXED ROOF, EACH 50' D X 22' H, EACH 309,000 GALLONS, WITH ASSOCIATED PUMPS AND MOTORS.
13. ONE (1) SECONDARY DIGESTER WITH FLOATING ROOF, 50' D X 22' H, 309,000 GALLONS.
14. ONE (1) SLUDGE OFF-LOADING STATION.
15. TWO (2) SLUDGE DRYING BEDS, EACH 160' W X 140' L X 1' H.
16. EIGHT (8) SLUDGE DRYING BEDS, EACH 40' W X 140' L X 1' H.
17. TWO (2) BOILERS, FULTON PULSEPAK, MODEL PHW 1400, 1.4 MMBTU/HR EACH, NATURAL GAS FIRED.
18. PASTEURIZATION SYSTEM, FULLY ENCLOSED TO THE ATMOSPHERE, ECO-THERM, WITH A VARIABLE SPEED FEED PUMP, SPIRAL-TYPE HEAT EXCHANGERS AND TWO SERPENTINE PIPE REACTORS.

AND BY INCREASING THE PLANTS CAPACITY FROM 11 MGD TO 14 MGD.

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 CONCENTRATION OF FUGITIVE H2S EMISSIONS FROM THE OPTIONAL COLD SLUDGE STORAGE TANK WITH FLOATING ROOF SHALL BE MEASURED AT LEAST ONCE PER WEEK, AT A MINIMUM OF 4 POINTS ON TOP OF THE FLOATING ROOF. THE H2S CONCENTRATION SHALL NOT EXCEED 1 PPMV.
[RULE 204]

5. THE MONITORING FREQUENCY IN CONDITION NO. 4 CAN BE CHANGED TO ONCE A MONTH IF NO EXCEEDANCE IS MEASURED IN FOUR CONSECUTIVE WEEKS.
[RULE 204]

6. THE PRIMARY DIGESTERS AND SECONDARY DIGESTERS SHALL BE VENTED TO THE INTERNAL COMBUSTION ENGINES, DIGESTER GAS STORAGE FACILITY, MICROTURBINES AND/OR DIGESTER GAS FLARE WHICH ARE IN FULL USE AND HAVE BEEN ISSUED PERMITS TO CONSTRUCT OR OPERATE BY THE SCAQMD OR TO EQUIPMENT EXEMPT PER SCAQMD RULE 219.
[RULE 1303]

7. THE MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT SHALL NOT EXCEED 14 MILLION GALLONS IN ANY ONE DAY, EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]

8. ALL SLUDGE SHALL BE PIPED AND STORED IN AN ENCLOSED MANNER TO PREVENT THE RELEASE OF AIR CONTAMINANTS UNTIL AFTER IT IS DEWATERED.
[RULE 1303]

9. A FLOW INDICATOR AND RECORDER SHALL BE INSTALLED AND MAINTAINED TO MEASURE AND RECORD THE DIGESTER GAS FLOW RATE TO THE FLARE(S), BOILERS, COGEN, AND ANY OTHER COMBUSTION DEVICE. THE FLOW INDICATOR AND RECORDER SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION.
[RULE 431.1]

10. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE HEADWORKS, GRIT CHAMBERS, AND PRIMARY CLARIFIERS (PLANT 2) ARE VENTED TO AN AIR POLLUTION CONTROL SYSTEM WHICH IS IN FULL USE AND HAS A VALID PERMIT TO OPERATE ISSUED BY THE SCAQMD.
[RULE 402]

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

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