

FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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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PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application No.	Equipment Description	Page No.
536399	AIR POLLUTION CONTROL SYSTEM, BIOFILTER (> 100 CFM), supersedes Permit F72330, A/N 388295	4
536401	DIGESTED EFFLUENT LIQUID WASTE PROCESSING	8

NOTE: EQUIPMENT LISTED ABOVE 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)

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 RINGLEMANN 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. THIS FACILITY SHALL NOT EMIT TOTAL SULFUR COMPOUNDS AT 5 POUNDS PER DAY OR MORE, CALCULATED AS HYDROGEN SULFIDE. IF THIS LIMIT IS EXCEEDED AT ANY ONE DAY, THE OPERATOR SHALL NOT USE SEWAGE DIGESTER GAS CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED DAILY, OR 40 PPMV AND 500 PPMV WITH AN AVERAGING PERIOD OF MONTHLY AND 15 MINUTES, RESPECTIVELY; THE OPERATOR SHALL NOT USE OTHER GASES CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE WITH AN AVERAGING PERIOD OF 4 HOURS; OR SHALL USE GASEOUS FUELS IN ACCORDANCE WITH THE ALTERNATIVE MONITORING PLAN APPROVED BY SCAQMD IN ACCORDANCE WITH RULE 431.1.
[RULE 431.1]
3. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
[RULE 431.2]
4. THE OWNER OR OPERATOR SHALL COMPLY WITH ALL APPLICABLE CONTENTS OF THE ADDENDUM, MITIGATION MEASURES STIPULATED IN THE STATEMENT OF FINDINGS AND STATEMENT OF OVERRIDING CONSIDERATIONS WHICH ARE PART OF THE CERTIFIED FACILITIES MASTER PLANS PROGRAM ENVIRONMENTAL IMPACT REPORT (FMP PEIR).
[RULE 204]

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PERMIT TO CONSTRUCT

A/N 536399
Granted as of 12/14/2012

Equipment Description:

ALTERATION OF THE AIR POLLUTION CONTROL SYSTEM UNDER PERMIT F72330, A/N 388295
CONSISTING OF:

1. BIOFILTER, CUSTOM MADE, MULTI-COMPARTMENTS, 37'- 0" W. X 74'- 0" L. X 9'- 0" D. OVERALL DIMENSIONS EACH COMPARTMENT, CONTAINING BIOFILTER MEDIA, WITH INCOMING FOUL AIR HUMIDIFICATION AND SURFACE IRRIGATION SYSTEM.
2. EXHAUST SYSTEM WITH A 60 H.P. FAN, HARTZELL FAN, INC., MODEL 412-44-FAU3-STFC13, 29,000 CFM, SERVING THE DAIRY MANURE RECEIVING AND DELIVERY BUILDING, CONTAINING MANURE HANDLING, LOADING/UNLOADING, STORAGE, HEATING / MIXING TANKS, SLUDGE DEWATERING, AND SLUDGE-CAKE STORAGE OPERATIONS;.

BY REPLACEMENT OF THE FOLLOWING:

1. "37'- 0" W. X 74'- 0" L. X 9'- 0" D. OVERALL DIMENSIONS EACH COMPARTMENT" WITH "74'- 0" W. X 111'- 0" L. X 9'- 0" D. OVERALL BIOFILTER DIMENSIONS" (ITEM NO. 1).
2. "DAIRY MANURE RECEIVING AND DELIVERY BUILDING" WITH "FOOD WASTE AND DAIRY MANURE RECEIVING AND DEWATERING BUILDING" (ITEM NO. 2).

AND BY ADDITION OF THE FOLLOWING:

1. OPTIONAL ADDITION OF 5 FT. OF MEDIA IN WIDTH, 16 FT. OF MEDIA IN LENGTH, AND 2 FT. OF MEDIA IN HEIGHT TO THE OVERALL DIMENSIONS OF THE BIOFILTER, AND/OR OPTIONAL REDUCTION OF 3 FT. OF MEDIA IN HEIGHT TO THE BIOFILTER (ITEM NO. 1).
2. OPTIONAL SHORING EQUIPMENT ALONG THE SIDES OF THE BIOFILTER, INCLUDING CONCRETE BARRIERS, SUCH AS K-RAILS, OR EQUIVALENT EQUIPMENT.
3. VENTING THE DIGESTED EFFLUENT WASTEWATER TREATMENT SYSTEM AND FOUR (4) 15,000 GALLON LIQUID FOOD WASTE STORAGE TANKS, VENTED THROUGH THE RECEIVING AND DELIVERY BUILDING (ITEM NO. 2).

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]

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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 CONSTRUCTED, OPERATED AND MAINTAINED BY PROPERLY TRAINED PERSONNEL.
[RULE 204]
4. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THE EQUIPMENT 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. THIS EQUIPMENT SHALL BE IN FULL OPERATION WHENEVER THE FOOD WASTE AND DAIRY MANURE RECEIVING AND DEWATERING BUILDING, DIGESTED EFFLUENT WASTEWATER TREATMENT SYSTEM, OR FOUR 15,000 GALLON FOOD WASTE TANKS ARE IN OPERATION, EXCEPT DURING A BIOFILTER MEDIA REPLACEMENT EVENT, WHICH SHUTS OFF OPERATION OF HALF OF THE BIOFILTER AT A TIME, WHICH SHALL NOT EXCEED 48 HOURS AND SHALL NOT OCCUR MORE THAN ONCE EVERY 3 YEARS, UNLESS OTHERWISE APPROVED. EACH REPLACEMENT EVENT SHALL BE RECORDED WITH DATE, TIME, DURATION AND PURPOSE OF THE SHUTDOWN.
[RULE 204]
6. SAMPLING/TESTING PORT(S) SHALL BE PROVIDED AT THE BIOFILTER FOUL AIR INLET LINE, ADEQUATELY SPACED DOWNSTREAM AND UPSTREAM OF ANY FLOW DISTURBANCE AS PER DISTRICT GUIDELINES AND AT 90 DEGREES APART, AND SHALL CONSIST OF ADEQUATE SIZE WELDED NIPPLES WITH CAPS, UNLESS OTHERWISE APPROVED.
[RULE 217]
7. 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 BIOFILTER TO BE SUFFICIENTLY MOIST.
[RULE 402]
8. A CONTINUOUS FLOW INDICATOR SHALL BE INSTALLED AND MAINTAINED AT THE HEADER TO THE BIOFILTER TO INDICATE THE FLOW RATE IN STANDARD CUBIC FEET PER MINUTE (SCFM). IN CASE A PRESSURE SENSOR DEVICE IS USED IN PLACE OF THE FLOW INDICATOR, A CONVERSION CHART SHALL BE POSTED ON THE EQUIPMENT TO INDICATE THE FLOW RATE (IN SCFM) CORRESPONDING TO THE PRESSURE READING. THE FLOW RATE AT THE INLET TO THE BIOFILTER SHALL BE INDICATED AND RECORDED AT LEAST ONCE PER WEEK. THE INLET FLOW RATE TO THE BIOFILTER SHALL NOT EXCEED 29,000 SCFM.
[RULE 204]
9. A TEMPERATURE INDICATOR SHALL BE INSTALLED AND MAINTAINED AT THE HEADER TO THE BIOFILTER. THE FOUL AIR TEMPERATURE SHALL BE INDICATED AND RECORDED AT LEAST ONCE PER WEEK.
[RULE 204]
10. THE TEMPERATURE OF THE BIOFILTER MEDIA SHALL BE MEASURED AT A MINIMUM OF 5 LOCATIONS AND RECORDED AT LEAST ONCE PER WEEK.
[RULE 204]

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11. THE MOISTURE CONTENT OF THE BIOFILTER MEDIA SHALL BE MEASURED USING A MOISTURE SENSOR AT A MINIMUM OF 5 LOCATIONS AND RECORDED AT LEAST ONCE PER WEEK. THE MOISTURE SENSOR SHALL BE CALIBRATED WITH EACH MONITORING VISIT.
[RULE 204]
12. THE OWNER OR OPERATOR SHALL CONDUCT DAILY INSPECTIONS TO MAKE SURE THAT THE BIOFILTER SURFACE IRRIGATION SPRINKLERS, INCLUDING WATER SUPPLY PUMPS, ARE OPERATING SATISFACTORILY AND ARE MAINTAINING THE BIOFILTER SURFACE SUFFICIENTLY MOIST. RECORDS OF SURFACE MONITORING, INCLUDING CORRECTIVE DAILY ACTIONS, IF NECESSARY, SHALL BE MAINTAINED.
[RULE 204]
13. THE OWNER OR OPERATOR SHALL CONDUCT DAILY INSPECTIONS TO MAKE SURE THAT THE BIOFILTER SURFACE DOES NOT CONTAIN APERTURES OR EXCESSIVE VEGETATION.
[RULE 204]
14. SMOKE BOMB TESTS SHALL BE CONDUCTED AT LEAST ANNUALLY TO DEMONSTRATE UNIFORM DISTRIBUTION OF AIR FLOWS, AND AREAS OF COMPACTION, AND/OR CHANNELING, THAT NEEDS REPAIR.
[RULE 204]
15. THE CONCENTRATION OF HYDROGEN SULFIDE (H₂S) AT THE BIOFILTER SURFACES (TOP AND SIDES) SHALL BE MEASURED, USING COLORIMETRIC TUBES OR A PORTABLE H₂S ANALYZER, AT LEAST ONCE PER MONTH. THE MEASURED H₂S CONCENTRATION SHALL NOT EXCEED 0.43 PPMV AVERAGED OVER THE SURFACE (AVERAGED OVER 25 POINTS, 6 OF WHICH SHALL BE MEASURED ON THE SIDES OF THE BIOFILTER IF SHORING EQUIPMENT IS NOT USED TO ENCLOSE THE SIDES) OF THE BIOFILTER. IF ANY SINGLE H₂S CONCENTRATION READING EXCEEDS 1 PPMV, THE OPERATOR SHALL INVESTIGATE, REPAIR, AND TAKE ANY OTHER CORRECTIVE ACTION NECESSARY UNTIL THE H₂S CONCENTRATION READING AT THE SAME LOCATION IS LESS THAN 1 PPMV H₂S. MONITORING RECORDS AND RECORDS OF CORRECTIVE ACTIONS SHALL BE KEPT AND MAINTAINED ON FILE.
[RULE 402, RULE 1401]
16. EMISSION FROM THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING:
TOTAL NON-METHANE ORGANIC COMPOUNDS (TNMOC) 1.08 LBS/HR
[RULE 1303(b)(2)-Offsets]
17. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT SOURCE PERFORMANCE TESTS WITHIN 180 DAYS OF OPERATION, OR AS OTHERWISE APPROVED BY THE EXECUTIVE OFFICER, UNDER THIS PERMIT AND EVERY FIVE YEARS THEREAFTER UNDER THE FOLLOWING CONDITIONS:
 - A. THE TESTS SHALL BE CONDUCTED AT 75% OR GREATER THAN THE MAXIMUM FOOD WASTE/DAIRY MANURE THROUGHPUT RATES.
 - B. 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 TEST PROTOCOL SHOULD INCLUDE THE FOLLOWING:

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- I. A DESCRIPTION OF THE EQUIPMENT TESTED. INCLUDE A PROCESS SCHEMATIC INDICATING SAMPLING LOCATIONS/PORTS, SAMPLING DUCT/STACK DIMENSIONS ALONG WITH UPSTREAM AND DOWNSTREAM FLOW DISTURBANCES (E.G. ELBOWS, TEES AND FANS).
 - II. A BRIEF PROCESS DESCRIPTION.
 - III. OPERATING CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED, INCLUDING FLOW RATE, TEMPERATURE, PRESSURE, AND THROUGHPUT.
 - IV. A DESCRIPTION OF THE SAMPLING AND ANALYTICAL METHODS FOR EACH CONSTITUENT MEASURED.
 - V. COMPLETE CALCULATIONS FOR FLOW RATES, CONCENTRATIONS, EMISSION RATES AND EFFICIENCIES.
 - VI. A DESCRIPTION OF THE CALIBRATION AND QUALITY ASSURANCE PROCEDURES.
 - VII. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
 - VIII. A STATEMENT DETERMINING THAT THE TESTING LABORATORY QUALIFIES AS AN "INDEPENDENT TESTING LABORATORY" UNDER RULE 304 (NO CONFLICT OF INTEREST) AND SIGNED BY THE RESPONSIBLE AUTHORITY.
- C THE BIOFILTER TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO:
- A. TOTAL NON METHANE ORGANIC COMPOUNDS (TNMOC).
 - B. SPECIATED ORGANICS (INITIAL TEST ONLY, OUTLET ONLY).
 - C. TOTAL SULFUR COMPOUNDS AS H₂S.
 - D. AMMONIA.
- ALL COMPOUNDS SHALL BE TESTED AT THE INLET AND OUTLET OF THE BIOFILTER AND RESULTS REPORTED IN UNITS OF PPMV AND LBS/HR, UNLESS OTHERWISE NOTED.
[RULE 217, RULE 204, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets, RULE 1401]
18. THE OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED ON THE BIOFILTER.
[RULE 204]
 19. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 204]

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PERMIT TO CONSTRUCT

A/N 536401
Granted as of 12/14/2012

Equipment Description:

DIGESTED EFFLUENT LIQUID WASTE PROCESSING SYSTEM CONSISTING OF:

1. ROTATING SLUDGE THICKENER (RST) SYSTEM, 300 GPM MAXIMUM FLOW, WITH HORIZONTAL CYLINDRICAL DRUM AND INTERNALLY FED ROTARY SCREEN.
2. DISSOLVED AIR FLOATATION (DAF) SYSTEM, 300 GPM MAXIMUM FLOW, WITH ONE (1) TANK, WITH POLYMER FEED AND STORAGE SYSTEM, AND ASSOCIATED MIXERS AND PUMPS.
3. OPTIONAL MOVING BED BIOFILM REACTOR (MBBR) SYSTEM 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 BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THE EQUIPMENT 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 TOTAL GALLONS OF DIGESTED EFFLUENT PROCESSED AND DISCHARGED BY THIS EQUIPMENT SHALL BE MEASURED (BY FLOW METERS) AND RECORDED ON A DAILY BASIS.
[RULE 204]
6. THIS EQUIPMENT SHALL NOT EMIT GREATER THAN 0.49 POUNDS PER DAY OF VOLATILE ORGANIC COMPOUNDS.
[RULE 1303]
7. THIS EQUIPMENT WHEN IN OPERATION SHALL BE VENTED TO AN AIR POLLUTION CONTROL SYSTEM (BIOFILTER) WHICH IS IN GOOD OPERATING CONDITION, IN FULL OPERATION, AND HAS A VALID PERMIT TO CONSTRUCT/OPERATE ISSUED BY THE SCAQMD.
[RULE 204]

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8. ANY SOLID WASTE MATERIAL GENERATED FROM THE DIGESTED EFFLUENT LIQUID WASTE PROCESSING SYSTEM SHALL BE RETURNED TO THE RECEIVING PITS/STORAGE MIX TANKS OR DIGESTERS, OR STORED IN DUMPSTERS WITH TIGHT LIDS FOR DISPOSAL.
[RULE 204]

9. THE DIGESTED EFFLUENT AT THE INLET TO THIS EQUIPMENT AND THE FINAL EFFLUENT AT THE OUTLET OF THIS EQUIPMENT SHALL BE SAMPLED, ANALYZED, AND THE RESULTS RECORDED ON A MONTHLY BASIS FOR TOTAL SOLIDS CONTENT, TOTAL SULFUR COMPOUNDS AS H₂S (PPMV), VOLATILE ORGANIC COMPOUNDS, AND VOLATILE ORGANICS SPECIATED (ONLY ONCE DURING THE FIRST MONTH OF OPERATION UNDER THIS PERMIT). AFTER ONE YEAR OF OPERATION, THE OWNER OR OPERATOR MAY REQUEST IN WRITING FOR LESS FREQUENT SAMPLING AND ANALYSIS OF THE LIQUID WASTE.
[RULE 204]

10. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 204]