
FACILITY PERMIT TO OPERATE

**INLAND EMPIRE UTL AGEN, A MUN WATER DIS
2450 PHILADELPHIA AVE
ONTARIO, CA 91761**

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 

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

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTL AGEN, A MUN WATER DIS**

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	1	12/28/2011
B	RECLAIM Annual Emission Allocation	0	08/01/2008
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	0	08/01/2008
E	Administrative Conditions	0	08/01/2008
F	RECLAIM Monitoring and Source Testing Requirements	0	08/01/2008
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	0	08/01/2008
H	Permit To Construct and Temporary Permit to Operate	2	12/28/2011
I	Compliance Plans & Schedules	0	08/01/2008
J	Air Toxics	0	08/01/2008
K	Title V Administration	0	08/01/2008
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	0	08/01/2008
B	Rule Emission Limits	0	08/01/2008

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTL AGEN, A MUN WATER DIS**

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: INLAND EMPIRE UTL AGEN, A MUN WATER DIS

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 2450 PHILADELPHIA AVE
ONTARIO, CA 91761

MAILING ADDRESS: PO BOX 9020
CHINO HILLS, CA 91709

RESPONSIBLE OFFICIAL: THOMAS LOVE

TITLE: GENERAL MANAGER

TELEPHONE NUMBER: (909) 993-1740

CONTACT PERSON: CHRIS BERCH

TITLE: PLANNING & ENVIRON. COMPLIANCE
MANAGER

TELEPHONE NUMBER: (909) 993-1762

INITIAL TITLE V PERMIT ISSUED: August 01, 2008

TITLE V PERMIT EXPIRATION DATE: July 31, 2013

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

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

PERMITTED EQUIPMENT LIST

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

Application number	Permit to Construct Granted On	Equipment description	Page No.
436134	1/13/2005	BIOFILTER (>100 CFM)	3
501289	11/17/2009	SEWAGE TREATMENT (>5 MGD) ANAEROBIC	6
501290	11/17/2009	BIOFILTER (>100 CFM)	10
526318	12/28/2011	BOILER (5-20 MMBTU/HR) OTHER FUEL	13
526319	12/28/2011	BOILER (5-20 MMBTU/HR) OTHER FUEL	16

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
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

PERMIT TO CONSTRUCT

**Granted as of 1/13/2005
A/N 436134**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BIOFILTER NO. 2 (PHASE IB), CUSTOM MADE, QUARTER CIRCLE SHAPE, WITH AN APPROXIMATELY 9,293 SQUARE FEET SURFACE AREA, CONTAINING 0.5 FT. WOOD CHIP BASE LAYER, 4' DEEP BIOFILTER MEDIA LAYER AND 0.5 FT. WOOD SHIP COVER LAYER, PLENUM LAYER CONTAINING INCOMING FOUL AIR DISTRIBUTION DUCTS, AND SURFACE IRRIGATION SYSTEM WITH FOURTEEN (14) WATER SPRINKLERS.
2. EXHAUST SYSTEM WITH TOTAL OF 28,750 CUBIC FEET PER MINUTE FOUL AIR (PHASE IB) FROM THE FOLLOWING PROCESS AREAS,
 - A. HEADWORKS
 - B. COVERED PRIMARY CLARIFIERS
 - C. INTERMEDIATE PUMP STATION.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. 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 GUIDELINE AND AT 90 DEGREES APART, AND SHALL CONSIST OF ADEQUATE SIZE WELDED NIPPLES WITH CAPS.
[RULE 217]
5. THE CONCENTRATION OF AMMONIA AND HYDROGEN SULFIDE (H₂S) EMISSIONS FROM THE BIOFILTER SURFACE SHALL BE MEASURED DAILY FOR THE FIRST 3 WEEKS, WEEKLY FOR 2 MONTHS AND ON A MONTHLY BASIS THEREAFTER, USING PORTABLE ANALYZERS OR COLORIMETRIC DETECTOR TUBES IN A MANNER APPROVED BY THE EXECUTIVE OFFICER. THE

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

MEASUREMENTS SHALL BE TAKEN FROM SEVERAL POINTS ON EACH ACTIVE CELL (REPRESENTATIVE OF THE ENTIRE SURFACE OF EACH CELL). MONITORING RECORDS SHALL BE KEPT AND MAINTAINED ON FILE.
[RULE 402, 1303(A)(1)-BACT]

6. ONCE EVERY SIX MONTHS, SMOKE TESTS SHALL BE CONDUCTED TO ENSURE EVEN DISTRIBUTION OF FOUL AIR THROUGH THE BIOFILTER SYSTEM.
[RULE 204]
7. THE OWNER OF OPERATOR OF THE EQUIPMENT SHALL CONDUCT SOURCE PERFORMANCE TEST UNDER THE FOLLOWING CONDITIONS:
 - I. THE TESTS SHALL BE CONDUCTED AND WRITTEN REPORT SUBMITTED TO THE SCAQMD WITHIN 60 DAYS AFTER ACHIEVING DESIGN FLOW RATES AT WHICH THE EQUIPMENT WILL BE OPERATED, BUT NOT LATER THAN 180 DAYS AFTER INITIAL START-UP.
 - II. THE TESTS SHALL DETERMINE THE OVERALL CONTROL EFFICIENCY (WEIGHT %) OF THE BIOFILTER SYSTEM FOR H₂S, AMMONIA, TOTAL NON METHANE ORGANIC COMPOUNDS (TNMOC), AND SPECIATED ORGANICS, AND THEIR RESPECTIVE CONCENTRATIONS, IN PPMV, AND EMISSIONS TO ATMOSPHERE, IN LBS/HR.
 - III. A TEST PROTOCOL SHALL BE SUBMITTED TO AQMD NO LATER THAN 45 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY THE EXECUTIVE OFFICER BEFORE THE TEST COMMENCES. THE SCAQMD SHALL BE NOTIFIED 7 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT. AT A MINIMUM, THE TEST PROTOCOL SHALL INCLUDE THE FOLLOWING:
 - A. 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).
 - B. A BRIEF PROCESS DESCRIPTION.
 - C. OPERATING CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED, INCLUDING FLOW RATE, TEMPERATURE, PRESSURE, AND THROUGHPUT.
 - D. A DESCRIPTION OF THE SAMPLING AND ANALYTICAL METHODS FOR EACH CONSTITUENT MEASURED.
 - E. COMPLETE CALCULATIONS FOR FLOW RATES, CONCENTRATIONS, EMISSION RATES AND EFFICIENCIES.
 - F. A DESCRIPTION OF THE CALIBRATION AND QUALITY ASSURANCE PROCEDURES.
 - G. 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.

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

H. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR
CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE
217.

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

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

AMMONIA	4 PPMV	0.3 LBS/HR
TOTAL SULFUR AS H ₂ S	1 PPMV	0.15 LBS/HR.

[RULE 402, 1303 (a) (1)-BACT, 1401]

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

PERMIT TO CONSTRUCT

**Granted as of 11/17/2009
A/N 501289**

Equipment Description:

MODIFICATIONS OF THE EXISTING WASTEWATER TREATMENT PLANT (REGIONAL PLANT NO. 1), 44 MGD CAPACITY, CONSISTING OF:

A. PRIMARY TREATMENT:

1. HEADWORKS WITH FOUR CLIMBER SCREENS, A CONVEYOR, AN AERATED GRIT CHAMBER, 50'-0" L. X 20' - 0" W. X 15' - 0" D, WITH TWO BLOWERS, A PISTA GRIT CHAMBER, TWO GRIT SEPARATORS, AND A RAG COMPACTOR.
2. FERRIC CHLORIDE STORAGE AND INJECTION FACILITY, 6000 GALLON CAPACITY.
3. TEN PRIMARY CLARIFIERS, RECTANGULAR, EACH 100' L. X 20' - 0" W. X 9' - 0" D., WITH FIVE SLUDGE COLLECTORS, FIVE SCUM REMOVERS AND ASSOCIATED SLUDGE PUMP AND CENTRIFUGAL PUMPS.
4. THREE EQUALIZATION LAGOONS, PRIMARY EFFLUENT, EACH 12,200,000 GALLON CAPACITY WITH TWO SURFACE AERATORS.
5. TWO PRIMARY CLARIFIERS, 100' DIA. X 9' - 0" D.

B. SECONDARY TREATMENT:

6. TWELVE AERATION BASINS, EACH 60' - 0" L. X 120' - 0" W. X 17' - 10" D., WITH DIFFUSED AIR PANEL AERATORS, AND A BLOWER BUILDING WITH THREE BLOWERS.
7. SIX SECONDARY CLARIFIERS, FOUR 120' DIA. X 14' - 0" D., AND TWO 130' DIA. X 14' - 0" D., EACH WITH SLUDGE COLLECTOR.
8. SODIUM HYPOCHLORITE STORAGE AND INJECTION FACILITY FOR ALTERNATE USE WITH HYDROGEN PEROXIDE.
9. THREE ANOXIC BASINS (SIX ANOXIC ZONES), EACH 236'- 2" L. X 21' - 0" W. X 20' - 0" D, WITH ASSOCIATED MIXERS AND RECYCLE PUMPS.

C. SOLIDS HANDLING:

10. THREE DISSOLVED AIR FLOTATION (DAF) THICKENERS, EACH WITH SURFACE SCUM COLLECTOR AND BOTTOM SLUDGE COLLECTOR.
11. SLUDGE GRAVITY THICKENER, 70' DIA. X 14' - 0" D.

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

12. SLUDGE BLENDING TANK (ALSO KNOWN AS ACID MANURE DIGESTER- AMD), 14'- 3" L. X 20' - 0" W. X 31'- 0" H.
13. TWO DIGESTERS, ANAEROBIC, FLOATING ROOF, EACH 65' DIA. X 30' - 0" D.
14. FIVE DIGESTERS, ANAEROBIC, FIXED ROOF, TWO 65' DIA. X 30' - 0" D., AND ONE 80' DIA. X 30' - 0" D., AND TWO 90' DIA. X 33' - 6" D.
15. SLUDGE DEWATERING FACILITY WITH FOUR FILTER BELT PRESSES, A SLUDGE BELT CONVEYOR, AND A SLUDGE STORAGE HOPPER.
16. ONE FERRIC CHLORIDE STORAGE TANK, 13,000 GALLON CAPACITY, WITH THREE INJECTION PUMPS.
17. TWO BELT PRESS FILTRATE TREATMENT PROCESS TANKS ("DODA" PROCESS), EACH 40' - 6" DIA. X 33' - 10" D.

D. TERTIARY TREATMENT:

18. TWO FLOCCULATION BASINS, EACH WITH FOUR FLOCCULATORS.
19. TWO SETTLING BASINS, EACH WITH TWO SLUDGE COLLECTORS.
20. TWENTY-SIX DUAL MEDIA FILTERS, ANTHRACITE COAL AND SAND, EACH 300 FT² SURFACE AREA.
21. THREE CHLORINE CONTACT BASINS, SERPENTINE TYPE.
22. THREE SODIUM HYPOCHLORITE (SHC) STORAGE TANKS, EACH 10,000-GALLON CAPACITY.
23. DECHLORINATION FACILITY WITH TWO 12,500 GALLON SODIUM BISULFATE SOLUTION STORAGE TANKS, FOUR ABS METERING PUMPS, AND TWO SUBMERGED DIFFUSERS LOCATED IN THE CHLORINE CONTACT BASINS.

ALTERATION OF ITEMS 15, 17 & 23:

15. BELT PRESS SLUDGE DEWATERING FACILITY WITH FOUR FILTER BELT PRESSES, A SLUDGE BELT CONVEYOR, AND A SLUDGE STORAGE HOPPER.
17. TWO BELT PRESS FILTRATE/CENTRATE TREATMENT PROCESS TANKS ("DODA" PROCESS), EACH 40' - 6" DIA. X 33' - 10" D.
23. DECHLORINATION FACILITY WITH TWO 12,500 GALLON SODIUM BISULFATE SOLUTION STORAGE TANKS, FOUR SBS METERING PUMPS, AND TWO SUBMERGED DIFFUSERS LOCATED IN THE CHLORINE CONTACT BASINS.

AND ADDITION OF:

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

CENTRIFUGE SLUDGE DEWATERING FACILITY WITH FOUR CENTRIFUGES, EIGHT SLUDGE SCREW CONVEYORS, CENTRIFUGE DISCHARGE CHUTES, CENTRATE WET WELL, PLANT DRAIN WET WELL, TWO SLUDGE STORAGE SILOS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. HEADWORKS AND CLIMBER SCREENS SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AIR POLLUTION CONTROL SYSTEM WHICH IS IN FULL OPERATION AND HAS A VALID PERMIT TO CONSTRUCT/ OPERATE ISSUED BY THE SCAQMD.
[RULE 204]
5. THE DAILY TOTAL FLOW, IN MILLION GALLONS PER DAY (MGD), OF WASTEWATER PROCESSED BY THIS TREATMENT PLANT SHALL BE MEASURED AND RECORDED.
[RULE 1303(b)(2)-OFFSET]
6. THE DAILY FLOW OF WASTEWATER PROCESSED BY THIS PLANT SHALL NOT EXCEED 44 MGD EXCEPT DURING WET WEATHER PERIODS.
[RULE 1303(b)(2)-OFFSET]
7. A TOTALIZING FLOW METER SHALL BE INSTALLED TO MEASURE THE AMOUNT OF DIGESTER GAS CONSUMED DAILY.
[RULE 1303(b)(2)-OFFSET]
8. THE BELT PRESS SLUDGE DEWATERING FACILITY AND THE CENTRIFUGE SLUDGE DEWATERING FACILITY SHALL NOT OPERATE SIMULTANEOUSLY.
[RULE 1303(b)(2)-OFFSET, RULE 204]
9. THE SLUDGE STORAGE SILOS SHALL BE VENTED ONLY TO AN AIR POLLUTION CONTROL DEVICE (APC) WITH A VALID PERMIT TO CONSTRUCT OR OPERATE WHEN SLUDGE IS STORED IN THE SILO(S).
[RULE 204]
10. TOTAL SULFUR CONTENT OF THE DIGESTER GAS, WITH RESPECTIVE DAILY DIGESTER GAS FLOW RATE, SHALL BE MONITORED AND RECORDED ON A DAILY BASIS.
[RULE 431.1]

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

11. ALL OF THE DIGESTER GAS PRODUCED AT THIS FACILITY SHALL BE COMBUSTED IN EQUIPMENT WHICH HAVE VALID PERMITS TO CONSTRUCT OR OPERATE, EXCEPT DURING MAINTENANCE WORK OR CLEANING OF THE DIGESTERS AND RELATED DIGESTER GAS SYSTEM WHICH MAY REQUIRE ISOLATION OF THE DIGESTER GAS LINE.
[RULE 1303(a)(1)-BACT]
12. 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, RULE 402]
13. THE SLUDGE DEWATERING FACILITIES (BELT PRESS OR CENTRIFUGE) SHALL ONLY BE OPERATED WHEN THE EXHAUST FROM THESE FACILITIES ARE VENTED ONLY TO AN AIR POLLUTION CONTROL DEVICE (APC) WITH A VALID PERMIT TO CONSTRUCT OR OPERATE.
[RULE 204]
14. ALL DEWATERED SLUDGE SHALL BE CONVEYED IN AN ENCLOSED CONVEYOR UNTIL DEPOSITED INTO THE TRANSPORT BIN. WHENEVER THE BIN IS FILLED AND WHEN DEWATERING IS NOT BEING PERFORMED, THE BIN SHALL BE COMPLETELY COVERED TO PREVENT THE RELEASE OF AIR CONTAMINANTS.
[RULE 204, RULE 402]
15. ALL RECORDS AS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED FOR 5 YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 204]

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

PERMIT TO CONSTRUCT

**Granted as of 11/17/2009
A/N 501290**

Equipment Description:

MODIFICATION OF THE EXISTING AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BIOFILTER (PHASE IA), CUSTOM MADE, 76' - 0" W. X 86' - 0" L. X 5' - 6" H., OVERALL DIMENSIONS, APPROXIMATELY 6,536 SQUARE FEET SURFACE AREA, CONTAINING 0.5 FT. WOOD CHIP BASE LAYER, 4' DEEP BIOFILTER MEDIA LAYER AND 0.5 FT. WOOD CHIP COVER LAYER, PLENUM LATER CONTAINING WASHED GRAVEL WITH INCOMING FOUL AIR DISTRIBUTION DUCTS, AND SURFACE IRRIGATION SYSTEM WITH TEN (10) WATER SPRINKLERS.
2. EXHAUST SYSTEM WITH TOTAL OF 22,570 CUBIC FEET PER MINUTE FOUL AIR (PHASE IA) FROM THE FOLLOWING PROCESS AREAS,
 - A. SLUDGE DEWATERING BUILDING
 - B. EXISTING GRAVITY THICKENER
 - C. SIDE STREAM TREATMENT PROCESS ("DODA" TANK NO. 1, NO. 2, AND DIVERSION STRUCTURE).

BY ADDITION OF:

- D. THE CENTRIFUGE SLUDGE DEWATERING BUILDING AND SILOS EXHAUST TO THE BIOFILTER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THE BIOFILTER SHALL NOT VENT BOTH THE BELT PRESS SLUDGE DEWATERING FACILITY AND THE CENTRIFUGE SLUDGE DEWATERING FACILITY SIMULTANEOUSLY.
[RULE 204]

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

5. SAMPLING/TESTING PORT(S) SHALL BE PROVIDED AT THE BIOFILTER FOUL AIR INLET LINE, 8-10 DUCT DIAMETERS DOWNSTREAM AND 2 DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE, AT 90 DEGREES APART, AND SHALL CONSIST OF ADEQUATE SIZE WELDED NIPPLES WITH CAPS.
[RULE 217]
6. THE CONCENTRATION OF AMMONIA AND HYDROGEN SULFIDE (H₂S) EMISSIONS FROM THE BIOFILTER SURFACE SHALL BE MEASURED DAILY FOR THE FIRST 3 WEEKS, WEEKLY FOR 2 MONTHS AND ON A MONTHLY BASIS THEREAFTER, USING PORTABLE ANALYZERS OR COLORIMETRIC DETECTOR TUBES IN A MANNER APPROVED BY THE EXECUTIVE OFFICER. THE MEASUREMENTS SHALL BE TAKEN FROM A MINIMUM OF SIX POINTS ON EACH ACTIVE CELL (REPRESENTATIVE OF THE ENTIRE SURFACE OF EACH CELL). MONITORING RECORDS SHALL BE KEPT AND MAINTAINED ON FILE.
[RULE 402]
7. ONCE EVERY SIX MONTHS, SMOKE TESTS SHALL BE CONDUCTED TO ENSURE EVEN DISTRIBUTION OF FOUL AIR THROUGH THE BIOFILTER SYSTEM.
[RULE 204]
8. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT A SOURCE PERFORMANCE TEST WHILE THE CENTRIFUGE DEWATERING BUILDING IS IN OPERATION UNDER THE FOLLOWING CONDITIONS:
 - I. THE TESTS SHALL BE CONDUCTED AND WRITTEN REPORT SUBMITTED TO THE SCAQMD WITHIN 60 DAYS AFTER ACHIEVING DESIGN FLOW RATES AT WHICH THE EQUIPMENT WILL BE OPERATED, BUT NOT LATER THAN 180 DAYS AFTER INITIAL START-UP.
 - II. THE TESTS SHALL DETERMINE THE OVERALL CONTROL EFFICIENCY (WEIGHT %) OF THE BIOFILTER SYSTEM FOR H₂S, AMMONIA, TOTAL NON METHANE ORGANIC COMPOUNDS (TNMOC), AND SPECIATED ORGANICS, AND THEIR RESPECTIVE CONCENTRATIONS, IN PPMV, AND EMISSIONS TO ATMOSPHERE, IN LBS/HR.
 - III. A TEST PROTOCOL SHALL BE SUBMITTED TO AQMD NO LATER THAN 45 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY THE EXECUTIVE OFFICER BEFORE THE TEST COMMENCES. THE SCAQMD SHALL BE NOTIFIED 7 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT. AT A MINIMUM, THE TEST PROTOCOL SHALL INCLUDE THE FOLLOWING:
 - A. 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).
 - B. A BRIEF PROCESS DESCRIPTION.
 - C. OPERATING CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED, INCLUDING FLOW RATE, TEMPERATURE, PRESSURE, AND THROUGHPUT.

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

- D. A DESCRIPTION OF THE SAMPLING AND ANALYTICAL METHODS FOR EACH CONSTITUENT MEASURED.
- E. COMPLETE CALCULATIONS FOR FLOW RATES, CONCENTRATIONS, EMISSION RATES AND EFFICIENCIES.
- F. A DESCRIPTION OF THE CALIBRATION AND QUALITY ASSURANCE PROCEDURES.
- G. 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.
- H. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
- [RULE 204]
10. ALL RECORDS AS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED FOR 5 YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 204]
11. EMISSIONS FROM THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING:
- | | | |
|---------------------|-----------|--------------|
| AMMONIA | 4.44 PPMV | 0.22 LBS/HR |
| TOTAL SULFUR AS H2S | 0.25 PPMV | 0.02 LBS/HR. |
- [RULE 1401, RULE 402]

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

PERMIT TO CONSTRUCT

**Granted as of 12/28/2011
A/N 526318**

Equipment Description:

BOILER NO. 1, HURST, FIRETUBE TYPE, MODEL S45-X-250-60W, 8,700,000 BTU PER HOUR, DIGESTER OR NATURAL GAS FIRED, WITH A LOW NOX BURNER, POWER FLAME, MODEL NVCR7-GG-30.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON DIGESTER GAS OR NATURAL GAS ONLY.
[RULE 204, RULE 1146]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 431.1 AND RULE 1146.
[RULE 431.1, RULE 1146]
5. A NON-RESETTABLE, TOTALIZING FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO MEASURE AND RECORD THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED.
[RULE 204, RULE 1146]
6. WHEN IN OPERATION, TOTAL HEAT INPUT FOR THIS EQUIPMENT SHALL NOT EXCEED 8.7 MMBTU/HR. A MONTHLY LOG SHALL BE KEPT INDICATING THE TOTAL HOURS OF OPERATION AND THE TOTAL HEATING VALUE (BTU) OF FUEL GAS BURNED IN THIS EQUIPMENT BASED ON THE RECORDED TOTALIZED FLOW (SCF) AND THE BTU CONTENT OF THE FUEL.
[RULE 204]
7. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT AN INITIAL SOURCE TEST AND SUBSEQUENT SOURCE TESTS ONCE EVERY FIVE YEARS THEREAFTER, UNDER THE FOLLOWING CONDITIONS AND PER RULE 1146:
 - A. TESTING SHALL BE CONDUCTED BY AN APPROVED CONTRACTOR UNDER THE SCAQMD LABORATORY APPROVAL PROGRAM AND IN COMPLIANCE WITH SCAQMD RULE 304 (NO CONFLICT OF INTEREST).
 - B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO SCAQMD AND SHALL BE APPROVED BY SCAQMD BEFORE THE TEST COMMENCES. THE PROTOCOL SHALL

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

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 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.
- D. TWO COPIES OF THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO SCAQMD WITHIN 60 DAYS OF TESTING. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
- I. FUEL FLOW RATE FOR EACH FUEL
 - II. FLUE GAS FLOW RATE FOR EACH FUEL
 - III. METHANE CONTENT FOR DIGESTER GAS
 - IV. TOTAL NON-METHANE ORGANICS FOR DIGESTER GAS AND EXHAUST GAS
 - V. SPECIATED TRACE ORGANICS FOR DIGESTER GAS AND EXHAUST GAS
 - VI. TOTAL PARTICULATES FOR EXHAUST GAS
 - VII. OXIDES OF NITROGEN FOR EXHAUST GAS
 - VIII. CARBON MONOXIDE FOR EXHAUST GAS
 - IX. CARBON DIOXIDE FOR EXHAUST GAS
 - X. OXYGEN FOR EXHAUST GAS
 - XI. HIGHER HEATING VALUE FOR DIGESTER GAS
 - XII. TOTAL SULFUR CONTENT, AS H₂S, PPMV FOR DIGESTER GAS
- [RULE 404, RULE 1146, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets, RULE 1401]
8. THE OWNER OR OPERATOR SHALL CHECK NOX AND CO EMISSIONS WITH A PORTABLE NOX, CO AND O₂ ANALYZER ACCORDING TO THE SCAQMD APPROVED PROTOCOL FOR RULE 1146 BY A DISTRICT APPROVED TRAINED AND CERTIFIED PERSON AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER. IF A UNIT IS IN COMPLIANCE FOR THREE CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT SHALL BE CHECKED QUARTERLY OR EVERY 2,000 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.
[RULE 1146]
9. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1146]
10. THE PERMIT UNDER PERMIT NUMBER F19309 FOR A DIGESTER GAS/NATURAL GAS FIRED BOILER SHALL BE SURRENDERED AND THE EQUIPMENT PERMANENTLY REMOVED FROM SERVICE WITHIN 90 DAYS FROM THE START UP OF THE EQUIPMENT UNDER THIS PERMIT.
[RULE 1309.1]

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INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

Emissions and Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - PM: 0.1 GRAIN/SCF @ 12% CO₂, RULE 409
 - CO: 400 PPMV @ 3% O₂, DRY BASIS FOR DIGESTER GAS, RULE 1146
 - CO: 400 PPMV @ 3% O₂, DRY BASIS OR 0.30 LBS/MMBTU FOR NATURAL GAS, RULE 1146
 - CO: 100 PPMV @ 3% O₂, DRY BASIS FOR DIGESTER GAS, RULE 1303-BACT
 - CO: 50 PPMV @ 3% O₂, DRY BASIS FOR NATURAL GAS, RULE 1303-BACT
 - NO_x: 30 PPMV @ 3% O₂, DRY BASIS, RULE 1146
 - NO_x: 15 PPMV @ 3% O₂, DRY BASIS FOR DIGESTER GAS, RULE 1146 (EFFECTIVE 1/1/2015)
 - NO_x: 9 PPMV @ 3% O₂, DRY BASIS OR 0.011 LBS/MMBTU FOR NATURAL GAS, RULE 1146 (EFFECTIVE 1/1/2013)
 - NO_x: 30 PPMV @ 3% O₂, DRY BASIS FOR DIGESTER GAS, RULE 1303-BACT
 - NO_x: 12 PPMV @ 3% O₂, DRY BASIS FOR NATURAL GAS, RULE 1303-BACT

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

PERMIT TO CONSTRUCT

**Granted as of 12/28/2011
A/N 526319**

Equipment Description:

BOILER NO. 2, HURST, FIRETUBE TYPE, MODEL S45-X-250-60W, 8,700,000 BTU PER HOUR, DIGESTER OR NATURAL GAS FIRED, WITH A LOW NOX BURNER, POWER FLAME, MODEL NVCR7-GG-30.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON DIGESTER GAS OR NATURAL GAS ONLY.
[RULE 204, RULE 1146]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 431.1 AND RULE 1146.
[RULE 431.1, RULE 1146]
5. A NON-RESETTING, TOTALIZING FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO MEASURE AND RECORD THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED.
[RULE 204, RULE 1146]
6. WHEN IN OPERATION, TOTAL HEAT INPUT FOR THIS EQUIPMENT SHALL NOT EXCEED 8.7 MMBTU/HR. A MONTHLY LOG SHALL BE KEPT INDICATING THE TOTAL HOURS OF OPERATION AND THE TOTAL HEATING VALUE (BTU) OF FUEL GAS BURNED IN THIS EQUIPMENT BASED ON THE RECORDED TOTALIZED FLOW (SCF) AND THE BTU CONTENT OF THE FUEL.
[RULE 204]
7. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT AN INITIAL SOURCE TEST AND SUBSEQUENT SOURCE TESTS ONCE EVERY FIVE YEARS THEREAFTER, UNDER THE FOLLOWING CONDITIONS AND PER RULE 1146:
 - A. TESTING SHALL BE CONDUCTED BY AN APPROVED CONTRACTOR UNDER THE SCAQMD LABORATORY APPROVAL PROGRAM AND IN COMPLIANCE WITH SCAQMD RULE 304 (NO CONFLICT OF INTEREST).
 - B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO SCAQMD AND SHALL BE APPROVED BY SCAQMD BEFORE THE TEST COMMENCES. THE PROTOCOL SHALL

**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTIL AGEN, A MUN WATER DIS**

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- C. 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.
- D. TWO COPIES OF THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO SCAQMD WITHIN 60 DAYS OF TESTING. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
- I. FUEL FLOW RATE FOR EACH FUEL
 - II. FLUE GAS FLOW RATE FOR EACH FUEL
 - III. METHANE CONTENT FOR DIGESTER GAS
 - IV. TOTAL NON-METHANE ORGANICS FOR DIGESTER GAS AND EXHAUST GAS
 - V. SPECIATED TRACE ORGANICS FOR DIGESTER GAS AND EXHAUST GAS
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 - XII. TOTAL SULFUR CONTENT, AS H₂S, PPMV FOR DIGESTER GAS
- [RULE 404, RULE 1146, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets, RULE 1401]
8. THE OWNER OR OPERATOR SHALL CHECK NOX AND CO EMISSIONS WITH A PORTABLE NOX, CO AND O₂ ANALYZER ACCORDING TO THE SCAQMD APPROVED PROTOCOL FOR RULE 1146 BY A DISTRICT APPROVED TRAINED AND CERTIFIED PERSON AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER. IF A UNIT IS IN COMPLIANCE FOR THREE CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT SHALL BE CHECKED QUARTERLY OR EVERY 2,000 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.
[RULE 1146]
9. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1146]
10. THE PERMIT UNDER PERMIT NUMBER F19311 FOR A DIGESTER GAS/NATURAL GAS FIRED BOILER SHALL BE SURRENDERED AND THE EQUIPMENT PERMANENTLY REMOVED FROM SERVICE WITHIN 90 DAYS FROM THE START UP OF THE EQUIPMENT UNDER THIS PERMIT.
[RULE 1309.1]

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Emissions and Requirements:

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 - PM: 0.1 GRAIN/SCF @ 12% CO₂, RULE 409
 - CO: 400 PPMV @ 3% O₂, DRY BASIS FOR DIGESTER GAS, RULE 1146
 - CO: 400 PPMV @ 3% O₂, DRY BASIS OR 0.30 LBS/MMBTU FOR NATURAL GAS, RULE 1146
 - CO: 100 PPMV @ 3% O₂, DRY BASIS FOR DIGESTER GAS, RULE 1303-BACT
 - CO: 50 PPMV @ 3% O₂, DRY BASIS FOR NATURAL GAS, RULE 1303-BACT
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 - NO_x: 30 PPMV @ 3% O₂, DRY BASIS FOR DIGESTER GAS, RULE 1303-BACT
 - NO_x: 12 PPMV @ 3% O₂, DRY BASIS FOR NATURAL GAS, RULE 1303-BACT