



## Part B, Section 1, SCAQMD BACT Determination

Source Type: **Major/LAER**  
 Application No.: **513835**  
 Equipment Category: **Flare**  
 Equipment Subcategory: **Digester Gas, Wastewater**  
 Date: **March 15, 2017**

### 1. EQUIPMENT INFORMATION

A. MANUFACTURER: Bekaert		B. MODEL: CEB 350	
C. DESCRIPTION: 12 MMBtu/hr enclosed flare, digester gas fired with natural gas pilots			
D. FUNCTION: Flare incinerates excess digester gas not used as fuel in the boilers or fuel cell system, or to relieve pressure from storage tanks.			
E. SIZE/DIMENSIONS/CAPACITY: 3'-8" W. x 3' 8" L. x 23'-4" H., 12 MMBtu/hr, 333 SCFM digester gas permitted limit			
<b>COMBUSTION SOURCES</b>			
F. MAXIMUM HEAT INPUT: 12 MMBtu/hr			
G. BURNER INFORMATION			
	TYPE	INDIVIDUAL HEAT INPUT	NUMBER
	NIT MESH	12 MMBtu/hr	1
H. PRIMARY FUEL: DIGESTER GAS		I. OTHER FUEL: NATURAL GAS (PILOT)	
J. OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR			
K. EQUIPMENT COST:			
L. EQUIPMENT INFORMATION COMMENTS: FLARE OPERATES INTERMITTANTLY AS NEEDED SECONDARY TO FUEL CELLS AND BOILER. MAINTENANCE IMPROVEMENTS FOR THERMOCOUPLES, IGNITERS AND THE EXHAUST STACK WERE MADE BY THE FACILITY TO IMPROVE RELIABLE OPERATION. THE FLARE IS LOCATED AT A SEWAGE TREATMENT PLANT.			

### 2. COMPANY INFORMATION

A. COMPANY: EMWD-PVRWRF		B. FAC ID: 7417	
C. ADDRESS: 1301 Case Rd. CITY: Perris STATE: CA ZIP: 92570		D. NAICS CODE: 221320	
E. CONTACT PERSON: Alison Torres		F. TITLE: Sr. AQ Compliance Analyst	
G. PHONE NO.: 951-928-3777 x 6345		H. EMAIL: torresa@emwd.org	

### 3. PERMIT INFORMATION

A. AGENCY: SCAQMD	B. APPLICATION TYPE: NEW CONSTRUCTION
C. SCAQMD ENGINEER: Angela Shibata	
D. PERMIT INFORMATION: PC ISSUANCE DATE: 6/27/12 P/O NO.: G25306 PO ISSUANCE DATE: 6/26/2013	
E. START-UP DATE: 11/9/2011	
F. OPERATIONAL TIME: 5 years	

### 4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES:						
	<b>VOC</b>	<b>NOx</b>	<b>SOx</b>	<b>CO</b>	<b>PM OR PM<sub>10</sub></b>	<b>INORGANIC</b>
BACT Limit	0.038 lb/MMBtu	0.025 lb/MMBtu		0.06 lb/MMBtu		
Averaging Time	1 HR	1 HR		1 HR		
Correction						
B. OTHER BACT REQUIREMENTS:						
C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology						
D. EMISSION INFORMATION COMMENTS: Maximum 333 scfm digester gas (Condition 11 – project specific). 1600°F Min temp (Condition 7 - project specific). Performance tests every five years (Condition 18). BACT Limits apply when fired on digester gas.						

## 5. CONTROL TECHNOLOGY

A. MANUFACTURER:		B. MODEL:	
C. DESCRIPTION:			
D. SIZE/DIMENSIONS/CAPACITY:			
E. CONTROL EQUIPMENT PERMIT INFORMATION: APPLICATION NO.    PC ISSUANCE DATE: PO NO.:    PO ISSUANCE DATE:			
F. REQUIRED CONTROL EFFICIENCIES:			
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	___%	___%	___%
NOx	___%	___%	___%
SOx	___%	___%	___%
CO	___%	___%	___%
PM	___%	___%	___%
PM <sub>10</sub>	___%	___%	___%
INORGANIC	___%	___%	___%
G. CONTROL TECHNOLOGY COMMENTS			

## 6. DEMONSTRATION OF COMPLIANCE

A. COMPLIANCE DEMONSTRATED BY: Source Test
B. DATE(S) OF SOURCE TEST: 11/9/2011
C. COLLECTION EFFICIENCY METHOD: N/A
D. COLLECTION EFFICIENCY PARAMETERS: N/A
E. SOURCE TEST/PERFORMANCE DATA: 96.9% TGNMO Destruction Effic., 99.99 HC destruction Effic., 0.70 ppm VOC (as hexane) @3%O2, 0.011 lb CO/MMBtu; 13.8 ppm CO@ 3%O2, 0.014 lb/MMBtu NOx, 10.45 ppm NOx @3%O2; 0.455 lb SOX/hr (as SO2)
F. TEST OPERATING PARAMETERS AND CONDITIONS: 246 dscfm digester gas
G. TEST METHODS (SPECIFY AGENCY): SCAQMD 25.3, 100.1, ARB Mod. Method 307.91
H. MONITORING AND TESTING REQUIREMENTS: Source Testing every five years for TGNMO, NOx, CO, PM10, O2, N2, H2O, Temp and BTU Value
I. DEMONSTRATION OF COMPLIANCE COMMENTS:

**7. ADDITIONAL SCAQMD REFERENCE DATA**

A. BCAT:		B. CCAT: 50		C. APPLICATION TYPE CODE: 10	
D. RECLAIM FAC? YES <input type="checkbox"/> NO <input type="checkbox"/>		E. TITLE V FAC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		F. SOURCE TEST ID(S):	
G. SCAQMD SOURCE SPECIFIC RULES:					
H. HEALTH RISK FOR PERMIT UNIT					
H1. MICR: 6.55 x10-9		H2. MICR DATE: 6/19/13		H3. CANCER BURDEN: <0.5	
H4. CB DATE: 6/19/13		H5: HIA:		H6. HIA DATE:	
H7. HIC:		H8. HIC DATE:			