



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
LANSING



DAN WYANT  
DIRECTOR

February 23, 2012

Mr. Stephen Smith, Vice President  
Canton Renewables, LLC  
3020 Old Ranch Parkway, Suite 400  
Seal Beach, California 90740

Dear Mr. Smith:

This letter is in reference to your Permit to Install application for a 4,200 CFM open flare for controlling product gas from the high Btu facility (State Registration Number P0270) located at Sauk Trail Hills Development, 5011 South Lilly Road, Canton, Michigan. This application, identified as No. 98-11A, has been evaluated and approved by the Air Quality Division (AQD), pursuant to the delegation of authority from the Michigan Department of Environmental Quality (DEQ).

This approval is based upon and subject to compliance with all administrative rules promulgated pursuant to Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), and conditions stipulated in the attached supplement. Please review these conditions thoroughly so that you may take the actions necessary to ensure compliance with all of these conditions.

Also, Permit to Install No. 98-11 has been voided because the equipment is now covered by Permit to Install No. 98-11A.

The equipment covered by this permit is also subject to the requirements of the Renewable Operating Permit Program. Submittal of the M-001 and C-001 forms may be required prior to commencing operation. Additional information is included in the M-001 form instructions. The forms and instructions are available on the Internet, or they can be obtained by contacting the Detroit District Office at 313-456-4700. The AQD permit web page is located at <http://www.deq.state.mi.us/aps>.

A change that is subject to Rule 215 subrules (1), (2), or (3) of Act 451 requires the submittal of the forms to the appropriate AQD District Office. If a change is made pursuant to Rule 216, please submit the required forms to the Kalamazoo District Office at the address provided in the M-001 form instructions.

To help us improve the service we provide our customers, we encourage you to complete a *Permit to Install Customer Service Survey* on the following Web page:

[http://www.michigan.gov/documents/deq/DEQEval\\_29-pti-customerservice\\_287285\\_7.html](http://www.michigan.gov/documents/deq/DEQEval_29-pti-customerservice_287285_7.html)

Please contact me if you have any questions regarding this permit.

Sincerely,

Jeffrey Rathbun  
Permit Section, Air Quality Division  
517-241-8072  
Rathbunj1@michigan.gov

Attachment  
cc/att: Ms. Wilhemina McLemore, DEQ

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION**

February 16, 2012

**PERMIT TO INSTALL  
98-11A**

**ISSUED TO  
Canton Renewables, LLC**

**LOCATED AT  
Sauk Trail Hills Development  
5011 South Lilly Road  
Canton, Michigan**

**IN THE COUNTY OF  
Wayne**

**STATE REGISTRATION NUMBER  
P0270**

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: <b>February 6, 2012</b>	
DATE PERMIT TO INSTALL APPROVED: <b>February 16, 2012</b>	SIGNATURE: 
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

**PERMIT TO INSTALL**

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**Common Abbreviations / Acronyms**

<b>Common Acronyms</b>		<b>Pollutant/Measurement Abbreviations</b>	
AQD	Air Quality Division	BTU	British Thermal Unit
ANSI	American National Standards Institute	°C	Degrees Celsius
BACT	Best Available Control Technology	CO	Carbon Monoxide
CAA	Clean Air Act	dscf	Dry standard cubic foot
CEM	Continuous Emission Monitoring	dscm	Dry standard cubic meter
CFR	Code of Federal Regulations	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H <sub>2</sub> S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	NO <sub>x</sub>	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality (Department)	PM	Particulate Matter
MIOSHA	Michigan Occupational Safety & Health Administration	PM10	PM less than or equal to 10 microns diameter
MSDS	Material Safety Data Sheet	PM2.5	PM less than or equal 2.5 microns diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	pph	Pound per hour
NSPS	New Source Performance Standards	ppm	Parts per million
NSR	New Source Review	ppmv	Parts per million by volume
PS	Performance Specification	ppmw	Parts per million by weight
PSD	Prevention of Significant Deterioration	psia	Pounds per square inch absolute
PTE	Permanent Total Enclosure	psig	Pounds per square inch gauge
PTI	Permit to Install	scf	Standard cubic feet
RACT	Reasonably Available Control Technology	sec	Seconds
ROP	Renewable Operating Permit	SO <sub>2</sub>	Sulfur Dioxide
SC	Special Condition	THC	Total Hydrocarbons
SCR	Selective Catalytic Reduction	tpy	Tons per year
SRN	State Registration Number	µg	Microgram
TAC	Toxic Air Contaminant	VOC	Volatile Organic Compounds
TEQ	Toxicity Equivalence Quotient	yr	Year
VE	Visible Emissions		

\* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

### GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R 336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303. **(R 336.1301)**
  - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
  - b) A visible emission limit specified by an applicable federal new source performance standard.
  - c) A visible emission limit specified as a condition of this Permit to Install.
  
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R 336.1370(2). **(R 336.1370)**
  
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

**SPECIAL CONDITIONS**

**EMISSION UNIT SUMMARY TABLE**

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EULFGPLANT	High Btu landfill gas compression and treatment plant. Emissions are controlled by a regenerative thermal oxidizer and a 4,200 SCFM open flare.	8/31/2011	NA
EUTREATMENTSYS	This emission unit is strictly for the NSPS WWW and MACT AAAA requirements pertaining to the landfill gas treatment system. The system treats landfill gas before it is sent to a local gas pipeline for subsequent sale.	8/31/2011	NA
Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1290.			

**The following conditions apply to: EULFGPLANT**

**DESCRIPTION:** High Btu landfill gas compression and treatment plant

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT:** Regenerative thermal oxidizer and 4,200 scfm open flare

**I. EMISSION LIMITS**

NA

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall not operate EULFGPLANT unless a malfunction abatement plan (MAP) as described in Rule 911(2), for EULFGPLANT, the thermal oxidizer and the flare, has been submitted within 60 days of initial equipment start-up, and is implemented and maintained. If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1225, R 336.1702(a), R 336.1910, R 336.1911)**
2. The permittee shall not operate the open flare for more than 1,248 hours per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.1901, R 336.2803, R 336.2804)**
3. The permittee shall only burn treated product gas from EULFGPLANT in the open flare except during periods of emergency shut down of EULFGPLANT, the open flare may also be utilized to control the ammonia stream from the chillers for EULFGPLANT. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.1901, R 336.2803, R 336.2804)**
4. The open flare shall comply with provisions of 40 CFR Part 60 Subpart A and shall be operated at all times when product gases may be vented to the flare. **(40 CFR 60.18(e))**
5. The open flare shall be operated with no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. **(40 CFR 60.18(c)(1))**

**IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall not operate EULFGPLANT unless the thermal oxidizer is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400 °F and a minimum retention time of 0.5 seconds. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a temperature monitoring device in the combustion chamber of the thermal oxidizer to monitor and record the temperature, on a continuous basis, during operation of EULFGPLANT. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
3. The permittee shall design and operate the EULFGPLANT gas collection and control system in accordance with 40 CFR Part 60, Subpart WWW, using equipment and instrumentation acceptable to the Department. **(40 CFR Part 60 Subpart WWW)**
4. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. **(40 CFR 60.18(f)(2))**

#### **V. TESTING/SAMPLING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. Within 180 days after commencement of initial startup, the permittee shall verify the reduction efficiency for NMOC or the NMOC parts per million outlet concentration from the EULFGPLANT thermal oxidizer, as required by 40 CFR 60.752(b)(2)(iii)(B) and (C) (initial performance test using test methods as specified in 40 CFR 60.754(d)) by testing at owner's expense, in accordance with Department requirements. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.1702(b), R 336.2001, R 336.2003, R 336.2004, 40 CFR 60.754(d), 40 CFR Part 63 Subparts A & AAAA)**
2. Within 180 days after commencement of initial startup, the permittee shall evaluate visible emissions from the flare for EULFGPLANT, as required by federal Standards of Performance for New Stationary Sources, at owner's expense, in accordance with 40 CFR Part 60 Subparts A (60.18) and WWW. Visible emission observation procedures must have prior approval by the AQD. Verification of visible emissions includes the submittal of a complete report of opacity observations to the AQD within 60 days following the last date of the evaluation. **(40 CFR Part 60 Subparts A (60.18) & WWW)**

#### **VI. MONITORING/RECORDKEEPING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor and record, in a satisfactory manner, the temperature in the combustion chamber of the thermal oxidizer, on a continuous basis, during operation of EULFGPLANT. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
2. The permittee shall keep, in a satisfactory manner, operating temperature records for the thermal oxidizer as required by SC VI.1. If the measured operating temperature of the thermal oxidizer falls below 1400 °F during operation of EULFGPLANT, the permittee may demonstrate compliance based upon a three-hour average temperature, by calculating the average operating temperature for each three hour period which includes one or more temperature readings below 1400 °F. The permittee shall keep all records and calculations on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
3. The permittee shall keep, in a satisfactory manner, a log of the number of hours the open flare is operated per month and 12-month rolling time period as determined at the end of each calendar month. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2803, R 336.2804)**

**VII. REPORTING**

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EULFGPLANT. **(R 336.1201(7)(a))**

**VIII. STACK/VENT RESTRICTIONS**

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVRTO	24	35	R 336.1225
2. SVOOPENFLARE	16	45	R 336.1225, R 336.2803, R 336.2804

**IX. OTHER REQUIREMENTS**

1. The permittee shall comply with all applicable provisions of 40 CFR Part 60 Subpart A and WWW, "Standard of Performance for Municipal Solid Waste Landfills", as they apply to EULFGPLANT. **(40 CFR Part 60 Subpart A and WWW)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63 Subparts A and AAAA, "National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills", as they apply to EULFGPLANT. **(40 CFR Part 63 Subpart A and AAAA)**

**Footnotes:**

<sup>1</sup>This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**The following conditions apply to: EUTREATMENTSYS**

**DESCRIPTION:** This emission unit is strictly for the NSPS WWW and MACT AAAA requirements pertaining to the landfill gas treatment system. The system treats landfill gas before it is sent to a local gas pipeline for subsequent sale.

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT:** Any emissions from any atmospheric vents or stacks associated with the treatment system shall be subject to §60.752(b)(2)(iii)(A) or (B).

**I. EMISSION LIMITS**

NA

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall operate the treatment system at all times when the collected gas is routed to the treatment system. **(40 CFR 60.753(f))**
2. The permittee shall operate the treatment system so that any emissions from any atmospheric vents or stacks associated with the treatment system shall be subject to §60.752(b)(2)(iii)(A) or (B). **(40 CFR 60.752(b)(2)(iii)(C), 40 CFR 63.1955(a))**
3. The permittee shall operate the treatment system to comply with the provisions of 60.753(e) and (f), and 60.756(d). **(40 CFR 60.752(b)(2)(iv), 40 CFR 63.1955(a))**

**IV. DESIGN/EQUIPMENT PARAMETERS**

1. The treatment system shall be designed as approved by AQD. **(40 CFR 60.752(b)(2)(iii)(C), 40 CFR 60.752(b)(2)(i)(D), 40 CFR 63.1955(a))**

**V. TESTING/SAMPLING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

**VI. MONITORING/RECORDKEEPING**

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep up-to-date, readily accessible records of all control or treatment system exceedances of the operational standards in §60.753(e) and (f). **(40 CFR 60.758(e), 40 CFR 63.1955(a))**
2. The permittee shall keep records of all preventative maintenance performed in accordance with the preventative maintenance plan (PMP) prepared pursuant to SC IX.3 of this permit. **(40 CFR 60.756(d))**

3. The permittee shall provide information to the AQD as provided in 40 CFR 60.752(b)(2)(i)(B) describing the operation of the control device, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. The AQD shall review the information and either approve it, or request that additional information be submitted. The AQD may specify additional appropriate monitoring procedures. **(40 CFR 60.756(d)).**

## **VII. REPORTING**

1. A description of the operation of the treatment system, the operating parameters that indicate proper performance, and the appropriate monitoring procedures shall be submitted the appropriate AQD District Office for review within 90 days after the issuance of this permit. **(40 CFR 60.752(b)(2)(i)(B), 40 CFR 63.1955(a))**

## **VIII. STACK/VENT RESTRICTIONS**

NA

## **IX. OTHER REQUIREMENTS**

1. The provisions of 40 CFR Part 60, Subpart WWW, apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 1 hour for the treatment system. **(40 CFR 60.755(e), 40 CFR 63.1955(a))**
2. The permittee shall have developed and implemented a written SSM plan according to the provision in 40 CFR 63.6(e)(3) for EUTREATMENTSYS. A copy of the SSM plan shall be maintained on-site. **(40 CFR 63.1960, 40 CFR 63.1965(c))**
3. Within 90 days after the issuance of this permit, the permittee shall have implemented a written preventative maintenance plan (PMP) for EUTREATMENTSYS. At a minimum, the plan shall include a schedule of maintenance activities consistent with manufacturer's recommendations, and the operating variables that will be monitored to detect a malfunction or failure. A copy of the PMP shall be maintained on site and available upon request. **(40 CFR 60.756(d), R 336.1911)**

### **Footnotes:**

<sup>1</sup>This condition is state only enforceable and was established pursuant to Rule 201(1)(b).



## PERMIT TO INSTALL APPLICATION

For authority to install, construct, reconstruct, relocate, or modify process, fuel-burning or refuse burning equipment and/or control equipment. Permits to install are required by administrative rules pursuant to Section 5505 of 1994 PA 451, as amended.

FOR DEQ USE
APPLICATION NUMBER
98-11A

Please type or print clearly. The "Application Instructions" and "Information Required for an Administratively Complete Permit to Install Application" are available on the Air Quality Division (AQD) Permit Web Page at <http://www.deq.state.mi.us/aps>. Please call the AQD at 517-373-7023 if you have not been contacted within 15 days of your application submittal.

RECEIVED

JAN 23 2012

AIR QUALITY DIV.

1. FACILITY CODES: State Registration Number (SRN) and North American Industry Classification System (NAICS)			
SRN	N-6009	NAICS	5 6 2 2 1 2
2. APPLICANT NAME: (Business License Name of Corporation, Partnership, Individual Owner, Government Agency) Canton Renewables, LLC			
3. APPLICANT ADDRESS: (Number and Street) 3020 Old Ranch Parkway, suite 400			MAIL CODE:
CITY: (City, Village or Township) Seal Beach	STATE: CA	ZIP CODE: 90740	COUNTY: Orange County
4. EQUIPMENT OR PROCESS LOCATION: (Number and Street - if different than Item 3) Sauk Trail Hills Development, Inc.			
CITY: (City, Village or Township) Canton		ZIP CODE: 48188	COUNTY: Wayne
5. GENERAL NATURE OF BUSINESS: Municipal Solid Waste Landfill			
6. EQUIPMENT OR PROCESS DESCRIPTION: (A Description MUST Be Provided Here. Include Emission Unit IDs. Attach additional sheets if necessary; number and date each page of the submittal.) Canton Renewables, LLC is proposing to install an additional 4,200 scfm open flare to control product gas from the 3,200 scfm high Btu facility already permitted under PTI #98-11 that does not meet pipeline specifications. This flare will be utilized as only control for the high Btu facility during times of start-up, shut-down, or malfunction when the product gas may not meet the strict pipeline specifications. During all other times the landfill gas will either be diverted to the Sauk Trail Hills Development permitted control devices (PTI # 122-11) or to the pipeline. Therefore this flare is not being permitted for 24/7 operation or as a backup landfill gas control device. Flare will be limited to 1,248 hours/yr of operation.			
7. REASON FOR APPLICATION: (Check all that apply.) <input checked="" type="checkbox"/> INSTALLATION / CONSTRUCTION OF NEW EQUIPMENT OR PROCESS <input type="checkbox"/> RECONSTRUCTION / MODIFICATION / RELOCATION OF EXISTING EQUIPMENT OR PROCESS - DATE INSTALLED: <input checked="" type="checkbox"/> OTHER - DESCRIBE REQUESTING MODIFICATION OF ISSUED PTI #98-11.			
8. IF THE EQUIPMENT OR PROCESS THAT WILL BE COVERED BY THIS PERMIT TO INSTALL (PTI) IS CURRENTLY COVERED BY ANY ACTIVE PERMITS, LIST THE PTI NUMBER(S):			
9. DOES THIS FACILITY HAVE AN EXISTING RENEWABLE OPERATING PERMIT (ROP)? <input type="checkbox"/> NOT APPLICABLE <input checked="" type="checkbox"/> PENDING APPLICATION <input type="checkbox"/> YES PENDING APPLICATION OR ROP NUMBER:			
10. AUTHORIZED EMPLOYEE: Stephen Smith		TITLE: Vice President	PHONE NUMBER: (Include Area Code) 562-626-8819
SIGNATURE: 		DATE: 1-12-12	E-MAIL ADDRESS: ssmith@cleanenergyfuels.com
11. CONTACT: (If different than Authorized Employee. The person to contact with questions regarding this application) Matt Boudreau		PHONE NUMBER: (Include Area Code) 630-633-5853	
CONTACT AFFILIATION: Environmental Consultant		E-MAIL ADDRESS: matt.boudreau@cornerstoneeg.com	
12. IS THE CONTACT PERSON AUTHORIZED TO NEGOTIATE THE TERMS AND CONDITIONS OF THE PERMIT TO INSTALL? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
FOR DEQ USE ONLY - DO NOT WRITE BELOW			
DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: 2/6/12			
DATE PERMIT TO INSTALL APPROVED: 2/16/12		SIGNATURE: 	
DATE APPLICATION / PTI VOIDED:		SIGNATURE:	
DATE APPLICATION DENIED:		SIGNATURE:	
A PERMIT CERTIFICATE WILL BE ISSUED UPON APPROVAL OF A PERMIT TO INSTALL			

Month (8-2011)



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - AIR QUALITY DIVISION

PERMIT TO INSTALL APPLICATION

For authority to install, construct, reconstruct, relocate, or modify process, fuel-burning or refuse burning equipment and/or control equipment. Permits to install are required by administrative rules pursuant to Section 5505 of 1994 PA 451, as amended.

FOR DEQ USE
APPLICATION NUMBER
98-11

Please type or print clearly. The "Application Instructions" and "Information Required for an Administratively Complete Permit to Install Application" are available on the Air Quality Division (AQD) Permit Web Page at http://www.deq.state.mi.us/aps. Please call the AQD at 517-373-7023 if you have not been contacted within 15 days of your application submittal.

RECEIVED

JUN 15 2011

AIR QUALITY DIV.

1. FACILITY CODES: State Registration Number (SRN) and North American Industry Classification System (NAICS)			
SRN	N 6 0 0 9	NAICS	5 6 2 2 1 2
2. APPLICANT NAME: (Business License Name of Corporation, Partnership, Individual Owner, Government Agency) Canton Renewables, LLC			
3. APPLICANT ADDRESS: (Number and Street) 3020 Old Ranch Parkway, suite 200		MAIL CODE:	
CITY: (City, Village or Township) Seal Beach		STATE: CA	ZIP CODE: 90740
4. EQUIPMENT OR PROCESS LOCATION: (Number and Street - if different than Item 3) Sauk Trail Hills Landfill			
CITY: (City, Village or Township) Canton		ZIP CODE: 48188	COUNTY: Wayne
5. GENERAL NATURE OF BUSINESS: Municipal Solid Waste Landfill			
6. EQUIPMENT OR PROCESS DESCRIPTION: (A Description MUST Be Provided Here. Include Emission Unit IDs. Attach additional sheets if necessary; number and date each page of the submittal.) Canton Renewables, LLC is proposing to install a 3,200 scfm high Btu landfill gas compression and treatment facility with a 4,200 scfm regenerative thermal oxidizer at Sauk Trail Hills Landfill to recover quality residue gas from the landfill.			
7. REASON FOR APPLICATION: (Check all that apply.) <input checked="" type="checkbox"/> INSTALLATION / CONSTRUCTION OF NEW EQUIPMENT OR PROCESS <input type="checkbox"/> RECONSTRUCTION / MODIFICATION / RELOCATION OF EXISTING EQUIPMENT OR PROCESS - DATE INSTALLED: <input type="checkbox"/> OTHER - DESCRIBE			
8. IF THE EQUIPMENT OR PROCESS THAT WILL BE COVERED BY THIS PERMIT TO INSTALL (PTI) IS CURRENTLY COVERED BY ANY ACTIVE PERMITS, LIST THE PTI NUMBER(S):			
9. DOES THIS FACILITY HAVE AN EXISTING RENEWABLE OPERATING PERMIT (ROP)? <input type="checkbox"/> NOT APPLICABLE <input checked="" type="checkbox"/> PENDING APPLICATION <input type="checkbox"/> YES PENDING APPLICATION OR ROP NUMBER:			
10. AUTHORIZED EMPLOYEE: Stephen Smith		TITLE: Vice President	PHONE NUMBER: (Include Area Code) 562-626-8819
SIGNATURE:		DATE: 6-14-11	E-MAIL ADDRESS: ssmith@cleanenergyfuel
11. CONTACT: (If different than Authorized Employee. The person to contact with questions regarding this application) Matt Boudreau		PHONE NUMBER: (Include Area Code) 630-633-5853	
CONTACT AFFILIATION: Environmental Consultant		E-MAIL ADDRESS: matt.boudreau@cornerstoneeg.com	
12. IS THE CONTACT PERSON AUTHORIZED TO NEGOTIATE THE TERMS AND CONDITIONS OF THE PERMIT TO INSTALL? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
<b>FOR DEQ USE ONLY - DO NOT WRITE BELOW</b>			
DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: 7/7/11			
DATE PERMIT TO INSTALL APPROVED: 8/31/11		SIGNATURE:	
DATE APPLICATION / PTI VOIDED: 2/16/12		SIGNATURE:	
DATE APPLICATION DENIED:		SIGNATURE:	
<b>A PERMIT CERTIFICATE WILL BE ISSUED UPON APPROVAL OF A PERMIT TO INSTALL</b>			