



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PAUL R. LEPAGE
GOVERNOR

PAUL MERCER
COMMISSIONER

**Tri-Community Recycling and
Sanitary Landfill
Aroostook County
Fort Fairfield, Maine
A-977-71-E-M**

**Departmental
Findings of Fact and Order
Air Emission License
Amendment #1**

FINDINGS OF FACT

After review of the air emission license amendment application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 Maine Revised Statutes Annotated (M.R.S.A.), §344 and §590, the Maine Department of Environmental Protection (Department) finds the following facts:

I. REGISTRATION

A. Introduction

Tri-Community Recycling and Sanitary Landfill (TCL) was issued Air Emission License A-977-71-D-R on 06/17/2014, for the operation of emission sources associated with their landfill facility.

TCL has requested a minor revision to their license in order to adjust Specific Condition (16) from License A-977-71-D-R by defining uptime and removing the 75% uptime requirement.

The equipment addressed in this license amendment is located at 303 Murphy Road, Fort Fairfield, Maine.

B. Emission Equipment

The following emission sources are addressed in this air emission license amendment:

Landfill

Emission Source	Max. Capacity
Solid Waste Landfill	1.7 Mg

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826
RAY BLDG., HOSPITAL ST.

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769
(207) 764-0477 FAX: (207) 760-3143

Flare

<u>Equipment</u>	<u>Max. Input Capacity (MMBtu/hr)</u>	<u>Firing Rate (gal/hr)</u>	<u>Date of Install.</u>
Landfill Gas Flare	7.5 MMBtu/hr	250 scfm	2008

C. Application Classification

This amendment will not increase emissions for any pollutant and is therefore determined to be a minor revision and has been processed as such.

D. Revision Description

TCL was issued Air Emission License A-977-71-D-R on 06/17/2014 to permit the operation of its 1.7 Mg landfill and 7.5 MMBtu/hr landfill gas flare.

Specific Condition (16) requires that TCL meet a 75% uptime requirement for the landfill gas collection and control system (Landfill Gas Flare) on a 12-month rolling total basis and keep records documenting compliance with the uptime requirement in an attempt maximize VOC and methane emissions control while allowing downtime for maintenance, repair, and malfunction. TCL has requested that this condition be restructured to remove the 75% uptime requirement.

TCL's Landfill Gas Flare system operates automatically. When the flare does not operate, the system's blower shuts off and its control valve closes. This results in no increase in released methane into the ambient air. Additionally, as the landfill ages, its methane production declines, thus increasing the frequency of flare downtime because of insufficient levels of methane to support combustion. Because of these trends, Specific Condition (16), as written, is not sustainable for the facility or practical for the reduction of VOC and methane emissions.

The amendment to Specific Condition reverts its language, in part, to the BACT as established in Air Emission License A-977-71-A-N (dated 09/06/2007) which required TCL to operate and maintain the landfill gas collection and control system except during periods of maintenance or malfunctions of the system. The amended Specific Condition requires also that TCL document periods of flaring as to ensure that the system is being maintained, allowing the control valve closure to be considered part of the "landfill gas collection and control system" as long as it is operated in a way that flare downtimes do not result in increased emissions of VOCs or methane gas.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards, and
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License Amendment A-977-71-E-M subject to the conditions found in Air Emission License A-977-71-D-R and the following conditions.

Severability. The invalidity or unenforceability of any provision of this License Amendment or part thereof shall not affect the remainder of the provision or any other provisions. This License Amendment shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

SPECIFIC CONDITIONS

Specific Condition (16) from Air Emission License A-977-71-D-R, dated 06/17/2014, is to be replaced by the following condition:

(16) Solid Waste Landfill and Flare

A. TCL shall keep readily accessible, on-site records of the following:

1. The design capacity report which demonstrated that the landfill has a design capacity less than 2.5 megagrams and 2.5 million cubic meters.
2. The current amount of solid waste in place.

Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

[06-096 CMR 115, BPT]

B. Visible emission from the flare shall not exceed 5% opacity for five (5) minutes in any two (2) hour period, and fugitive emissions from any source (including stockpiles and roadways) shall not exceed 20% opacity except for no more than five (5) minutes in any one (1) hour period. [06-096 CMR 115, BPT]

C. TCL shall operate their landfill gas collection and control system, including the flare, at all times as appropriate to minimize VOC and methane gas emissions from the landfill. Periods of maintenance or malfunctions of the system shall be minimized in accordance with TCL's maintenance plan for the system. TCL shall keep records

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documenting periods when a flame is present in the flare, as well as documentation of inspections, maintenance, and malfunctions of the system.

- D. TCL shall test the landfill gas for VOC and TRS concentrations at least once per calendar year. [06-096 CMR 115, BPT]
- E. If testing demonstrates an emission rate for any pollutant in excess of the emission limits associated with this license, TCL shall submit an application to amend the license as necessary within 90 days of the test date. [06-096 CMR 115, BPT]

DONE AND DATED IN AUGUSTA, MAINE THIS 9 DAY OF September, 2016.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Maure Allen Robert Core for
PAUL MERCER, COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-977-71-D-R.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 08/17/2016

Date of application acceptance: 08/22/2016

Date filed with the Board of Environmental Protection:

This Order prepared by Colby Fortier-Brown, Bureau of Air Quality.

