



Delta County Landfill Escanaba, Michigan

LMOP PROJECT EXPO

2013

Delta County Landfill Overview

Open Year
1985

Closure Year
2014

Waste in Place
1.6 million tons

Design Capacity
6.2 million tons

Annual Acceptance
54,008 tons (2011)

Current Landfill Area
6 acres

Waste Depth
About 85 feet

LFG Collection System
Yes. Average annual LFG collected in 2012:
225 scfm at 50% methane

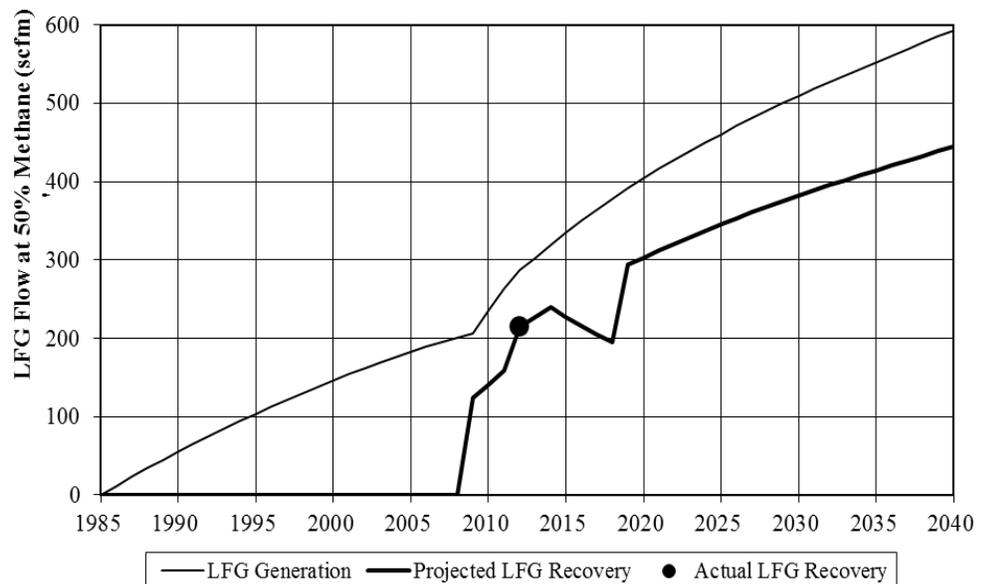
The Delta County Landfill is a municipally owned and operated landfill located outside of Escanaba in Michigan's Upper Peninsula. Landfill gas (LFG) estimated to be recoverable in 2013 for collection and utilization is ~225 scfm (50% methane). LFG collection efficiency is estimated at 75%. Utilization of this LFG would result in avoided emissions from conventional electricity sources, equivalent to preventing emissions of nearly **4,000 metric tons of CO₂e per year**.

These emission reductions are equivalent to any one of the following annual environmental benefits for 2014:

- ◆ Annual greenhouse gas emissions from **780 passenger vehicles**
- ◆ Carbon sequestered annually by **850 acres of pine or fir forests**
- ◆ CO₂ emissions from **446,500 gallons of gasoline** consumed
- ◆ CO₂ emissions from more than **9,200 barrels of oil** consumed

The Delta County Landfill reports that it is currently required to collect and combust LFG under the Landfill NSPS/EG.

Landfill Gas Generation and Collection Rates



Incentives for LFG Energy

The state of Michigan currently offers some incentives for renewable energy produced from LFG. Resources available that summarize existing incentives include:

- ◆ The Database of State Incentives for Renewable Energy and Efficiency outlines incentive programs and funding options for renewable energy projects in Michigan – www.dsireusa.org.
- ◆ U.S. EPA LMOP offers a summary of available federal and state incentives for LFG energy projects as part of its Funding Guide - <http://www.epa.gov/lmop/publications-tools/funding-guide/index.html>.
- ◆ Michigan has established a Renewable Portfolio Standard which requires covered entities to generate 10% of their retail electric sales from renewable sources by 2015 – the Michigan Public Service Commission administers the program – www.michigan.gov/customergeneration.

Landfill Location

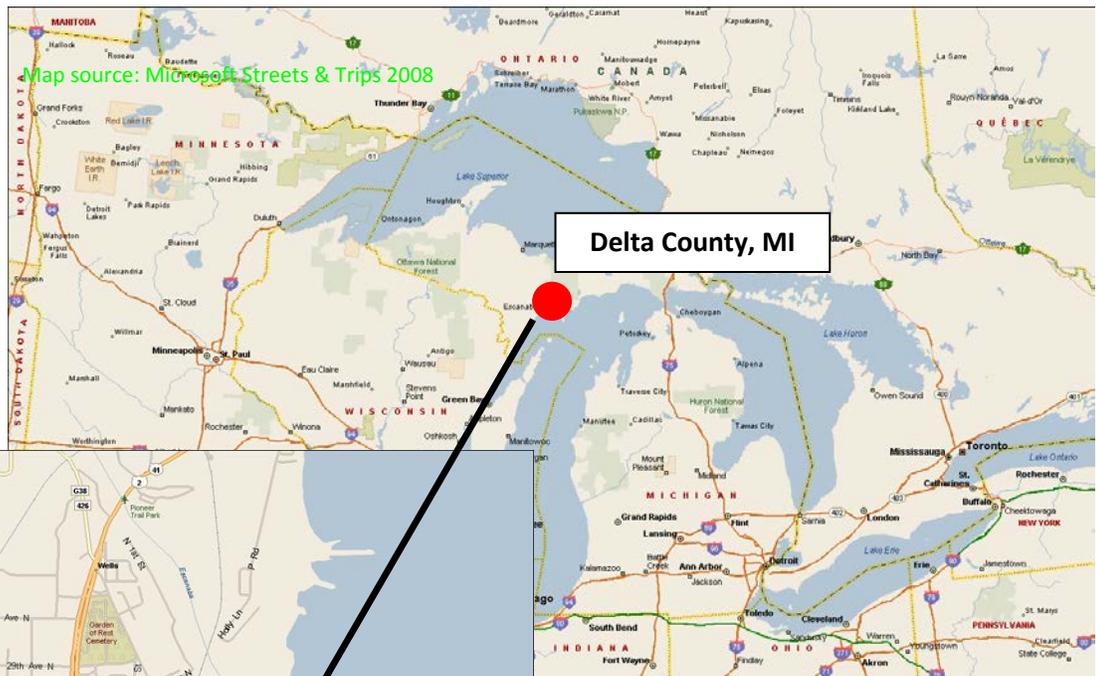
Contact

Delta County Landfill

5701 19th Avenue North
Escanaba, MI 49829

Delta Solid Waste Management Authority (Landfill Owner)

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Map source: Microsoft Streets & Trips 2008

For more information, please visit LMOP's website at www.epa.gov/lmop.