

SEWARD COUNTY LANDFILL

BIO-GAS RECOVERY PROJECT
2009 WORKS CONFERENCE

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WHAT IS BIO-GAS?

Biogas is the gas produced by the anaerobic decomposition of organic matter

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BIOGAS HAS BEEN KNOWN ALSO AS:

- ▶ Landfill Gas
- ▶ Marsh Gas
- ▶ Swamp Gas
- ▶ Digester Gas

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TYPICAL MAKEUP OF LANDFILL GAS:

Methane 50-75%

CO₂ – 25-40%

Nitrogen, Hydrogen Sulfide, Hydrogen,
Oxygen in small %



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Seward County has entered into a public/private partnership with National Beef to recover and sell biogas to National. This allows National to save money on energy costs and for Seward County to reduce air emissions by utilizing the gas rather than venting to the atmosphere.

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The collection and reuse of biogas reduces greenhouse gases being vented to the atmosphere. These gases contribute to the global warming problem.







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Seward County is recovering gas from two Subtitle D landfill cells. The gas is pulled off the cells by two 25hp blowers and sent to National. The gas at National is injected into the side of a covered lagoon.

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Many systems require that the methane be split off. This system is designed so that we can send the entire gas stream to the lagoon and no processing is required. This makes the system more advantageous from a cost standpoint to eliminate any processing of the gas.







Extraction Piping & Anchor Trench



Installation of floating covers



Ballast System



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THE SEWARD COUNTY LANDFILL RECEIVED
THE AMERICAN COUNCIL OF ENGINEERING
COMPANIES COUNTY PUBLIC
IMPROVEMENT AWARD FOR COUNTIES
OVER 10,000 POPULATION IN NOVEMBER
OF 2006 FOR THIS PROJECT

Seward County Landfill

- ▶ The Seward County Landfill was recipient of the USEPA Community Partner Award for 2008. This award was presented at the 2008 Landfill Methane Outreach Conference in Baltimore , Maryland in January of this year.



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► QUESTIONS ??????????????????????????????????????

