

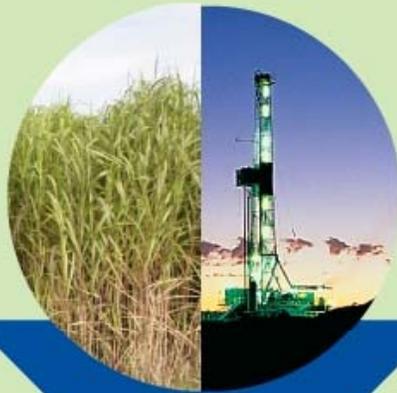


the Energy to Lead

LFG to Pipeline Quality Gas Report Interim status

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Addressing Key Energy Industry Issues Across the Value Chain



Supply

Expanding the supply of affordable energy



Delivery

Ensuring a safe and reliable energy delivery infrastructure



End Use

Promoting the efficient use of energy resources

Reducing carbon emissions to the environment

What Constituents Did GTI Analyze?

- > Those found in natural gas for which tariffs exist
- > Constituents that are known to be present in processed biomethane
 - or are of interest, due to potential breakthrough because of their presence in untreated biogas.
- > Constituents that could potentially pass through gas processing equipment
 - Pipeline integrity
 - End use applications

What Data will be in the report?

- > Gas property calculations (density, heating value and Wobbe Index)
- > Statistical examination for each constituent of interest found (median, averages, means, ranges)
- > Probability calculations to draw conclusions from the data at different confidence intervals

Status of Project

- > Completed sampling at 6 landfills
 - 24 samples collected in total
 - Clean-up technologies from landfills include: PSA, Physical solvent, membrane
- > Analysis on samples collected from 6 landfills are complete
 - Approximately 95% methane with very few trace constituents present (most at concentrations < 1ppmv)
 - No vinyl chlorides found in any sample

Remaining Work

- > Analyze samples collected in Sept from 1 landfill
- > Collect and analyze 3 natural gas samples
- > Target for guidance document – end of 2011