

# **Bethlehem RNG**

April 2019

## **Company History**

- Headquarters in Novi, MI with offices in Oakfield, NY; Frederick, CO; and Gilbert, AZ
- Developed, Owned and Operated Landfill Gas-to-Energy projects since 1986
- Experts in production and sale of Renewable Natural Gas (RNG) and electric power
- 43 projects located in 17 states
- Processing 53 billion cubic feet per year of Landfill Gas
- Generating 1.4 Million MW per year; Producing 4.4 Million MMBTU of RNG per year
- Aria removed over 7 Million Tons of CO2 equivalent from the atmosphere last year



## Proposed Bethlehem Landfill Project

- Landfills continuously generate landfill gas, a mixture of methane and carbon dioxide through a natural decay process
- EPA regulations under the Clean Air Act require larger landfills to collect and control landfill gas. The Bethlehem Landfill currently has this system in place
- The RNG facility will tie into the existing landfill gas system, process and treat the gas to a pipeline quality standard for injection of the natural gas (methane) into pipelines owned by UGI Utilities, Inc.
- Aria Energy has a Letter of Commitment from UGI Utilities, Inc. to provide the gas interconnect (4" or smaller line) for the RNG Facility and from Pennsylvania Power & Light to provide the electrical service
- Storm water control for the RNG facility will be provided by the Landfill's modified Basin 1







#### Proposed Bethlehem Project





## Local Benefits

- The RNG Facility will be a local source of natural gas to the community and decrease the need for import of natural gas and may reduce the need for additional pipelines for service to the community
- The RNG Facility will reduce CO2 equivalent emission in the local community by over 70 percent
- The RNG Facility will supply enough natural gas to the local community for approximately 6,250 homes per year. If vehicle fueling is developed in the community, it would provide about 12,000 cars per year with fuel
- Carbon dioxide (CO2) emissions reduction equivalent of the carbon sequestered by over 38,250 acres of U.S. forests in one year.



## **Special Exception Application**

- <u>Variances Requested</u> (If Site Plan Waivers are not granted)
- Section 180-102C (2) (a) Plan Scale not less than 1"=50' (use 1"=200' on base drawing)
- Section 180-102C (2) (d) Contour Interval of Two Foot (use Ten Foot on base drawing)
- Section 180-109F (1) (b) [1] Contour Interval of Two Foot (use Five Foot on other drawings)

