

Wellford Landfill Methane Recovery Project

Requesting Department/Division: Public Works/Solid Waste
 Project Manager/Contact: Mike Garrett/Fran Creel

Estimated Start Date: July 2008
 Est. Completion Date: January 2010

Project Category: New Construction

Project Status: Active Project
 Project Number: SW0007

Project Description, Justification and Location

The Wellford methane recovery project consists of collection, treatment, and delivery of the methane gas generated at the Wellford Landfill to the Milliken Dewey Plant in Inman. The project will also incorporate an electricity generation facility to utilize excess methane and will be owned and operated by Lockhart Power.



Benefits to Residents, Visitors, Businesses, or County Employees

Residents and visitors will benefit from improved air quality. The annual environmental benefits can be equated to:

- Removing the emissions of 10,000 vehicles;
- Planting 14,000 acres of forest;
- Offsetting the use of 260 railroad cars of coal;
- Offsetting the use of 125,000 barrels of oil;
- Eliminating the pollution emissions from providing electricity to 5,000 homes; and
- Eliminating 52,000 tons of the greenhouse gas carbon dioxide.

Impact on Annual Operating Budget

Annual impact on operating budget when fully operational is estimated at \$200,000, which will be offset by revenues derived from the sale of methane.

Project Status (as of April 1, 2009)

The County has identified two partners in the Wellford Landfill Methane Recovery Project in order to ensure that the maximum amount of methane is utilized either as a direct form of energy or as a fuel to produce electricity. Roles of all partners are being actively developed, including clarification of the County's level of investment. Project costs have been revised to reflect the County's anticipated contribution to the project. Engineering of the gas collection system is complete.

Project Expenditures and Funding Sources

<u>PROJECT</u>	<u>TOTAL</u>	<u>COMMITTED</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY 2010-14</u>
<u>Wellford Landfill Methane Recovery Project</u>	<u>PROJECT COST</u>	<u>FUNDING</u>	<u>2009/10</u>	<u>2010/11</u>	<u>2011/12</u>	<u>2012/13</u>	<u>2013/14</u>	<u>Totals</u>
<u>Expenditures</u>								
Planning/Design/Engineering	400,000	400,000	0	0	0	0	0	0
Land Acquisition/Right-of-Way	250,000	250,000	0	0	0	0	0	0
Construction/Improvements	960,770	350,000	610,770	0	0	0	0	610,770
Capital Materials/Equipment	0	0	0	0	0	0	0	0
Technology Expenditures	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Total Expenditures	1,610,770	1,000,000	610,770	0	0	0	0	610,770
<u>Revenues</u>								
Solid Waste Fund	1,000,000	1,000,000	0	0	0	0	0	0
Solid Waste Revenue Bond - FY 2009/10	610,770	0	610,770	0	0	0	0	610,770
Total Revenues	1,610,770	1,000,000	610,770	0	0	0	0	610,770