

Construction of a New Secure Sanitary Landfill Cell (2G) Phase 1 Daniel F. Riley Environmental Complex, Woodbine, NJ

PROJECT OVERVIEW

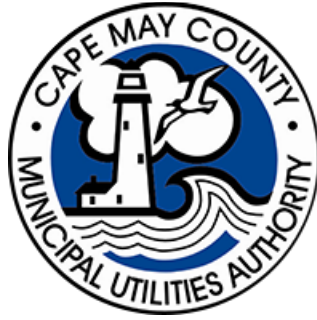
Modern landfills are complex engineering structures and are designed to protect the environment and public health by burying garbage (solid waste) in secure, sanitary, double lined, settings. Landfills are typically sectioned into areas called cells. The Authority began accepting solid waste at the Daniel F. Riley Environmental Complex, the only operating sanitary landfill in the Pinelands National Preserve, in May 1984. The CMCMUA is in the process of planning for future capacity by expanding the landfill through the construction of a new cell (2G). It is anticipated that this new cell will be open and accepting solid waste beginning in March 2023.

SCOPE OF WORK

After appropriate permits were obtained from both the New Jersey Pinelands Commission and the New Jersey Department of Environmental Protection, the site was cleared of vegetation, existing infrastructure moved, and the ground graded and surcharged. Cell 2G is the first cell of a larger 74 acre expansion which will increase the total landfill volume to 25.9 million cubic yards. A Cell 2G Phase 1 contract has been awarded to C. Abbonizio Contractors, Inc. in the amount of \$4,513,455.00 to prepare the site by removing and relocating existing infrastructure and installing new infrastructure related to the site leachate collection system, including pump stations, transmission piping, meter chambers, and associated electrical service and controls. A Cell 2G Phase 2 contract will be awarded, 2-3 years prior to waste acceptance in cell 2G, for installation of the double liner system and other associated infrastructure.

The double liner system is comprised of a layer of high density polyethylene (HDPE) underlain by a geosynthetic clay liner (GCL), a layer of synthetic drainage net material for leak detection, and another layer of HDPE and GCL. If the HDPE layer were to breach, the GCL absorbs liquid and expands into and plugs the hole. Above and between these liner systems is a series of collection pipes that gathers liquid (leachate) that has filtered through the solid waste. Leachate is collected in on-site tanks, recirculated through the landfill to aid in decomposition, or trucked offsite to the Authority's Seven Mile Beach / Middle Wastewater Treatment Facility.

In addition to leachate collection, a gas collection system will also to be installed. As organic material decomposes, landfill gas is generated. A large component of landfill gas is methane. Methane from existing CMCMUA landfill cells is currently conditioned and used to fuel generators for production of both on-site and grid connected electricity. The methane is also used by the Woodbine Developmental Facility as a fuel for their physical plant.



SCHEDULE

CMCMUA Begins Site Work:	October, 2011
Contractor Notice to Proceed (Phase 1):	April, 2015
Estimated Completion of Work (Phase 1):	December, 2015
Estimated Final Inspection (Phase 1):	January, 2016
Estimated Start (Phase 2):	March, 2020
Estimated Date New Cell Open:	March, 2023

IMPORTANT INFORMATION

If you are a customer of the CMCMUA who uses the Daniel F. Riley Environmental Complex, please exercise extra caution as you travel around our facility and be alert for changing traffic patterns and construction equipment.

TRAFFIC PLANS

No impacts to traffic outside the Daniel F. Riley Environmental Complex are anticipated. Traffic inside the Daniel F. Riley Environmental Complex may experience changing traffic patterns along with sporadic and temporary delays.

FOR MORE INFORMATION, PLEASE CONTACT

Email: info@cmcmua.com

Phone Number: (609) 465-9026

Website: www.cmcmua.com

PROJECT AREA

Daniel F. Riley Environmental Complex
2050 Route 610
Woodbine, NJ 08270

