

PROJECT: Sussex County Landfill-Landfill Life Extension Stage 1 – Contract No. 444

LOCATION: Lafayette, NJ (Sussex County)

OWNER: Sussex County Municipal Utilities Authority (SCMUA)

ENGINEER: Cornerstone

COST: \$ 6,874,957

COMPLETED: November 2017



BCS was the Contractor for the Joint Venture with A. Servidone, Inc/B. Anthony Construction Corp. (BCS/ASI/BACC), for the landfill life extension, Stage 1 at the Sussex County landfill complex. The SCMUA received a major permit modification approval for the vertical and horizontal expansion of the landfill from the NJDEP. BCS/ASI/BACC self-performed the construction of a MSE berm as the new landfill boundary and the installation of the baseliner extension on the inside slope of the berm, which tied into and extended the existing landfill cell baseliner soil and geosynthetic components. Work also included leachate, electrical, landfill gas and stormwater system modifications. The work required temporary management of leachate and landfill gas, as well as the supply of electrical service as needed during the construction activities. The Work included: 32,198 Sq. Ft. (SF) of Mechanically Stabilized Earth (MSE) Berm (geogrid) up to 23' high; 43,000 Cubic Yards (CY) of Dense Grade Aggregate (DGA) Berm/Structural Fill; 25,886 CY of Crushing and Processing On-Site Stone and Boulders for DGA Structural Fill; 2,500 Tons of Select Fill Subgrade Preparation; 45,324 Square Yards (SY) total of HDPE Geomembrane/Geosynthetic Clay Liner/Geocomposite Drain; 11,000 Tons of Primary Blanket Drainage Sand; (2) Cast-In-Place Concrete and Framed Leachate Sideriser Valve Chamber Buildings; (2) Cast-In-Place Concrete and Framed Electrical Houses; (6) Control Valve Chambers and Forcemain Cleanout Chambers; Leachate Sideriser Extensions with pump systems; 8,967 LF of Landfill Gas Header, Condensate Forcemain, Airline and Leachate Forcemain; 1,612 LF of Precast Concrete Stormwater Channel; 382 LF of Rip Rap, Grass and Stormwater Channels/Culverts; (12) Stormwater Manhole Extensions and other stormwater modifications; Electrical Service Realignment; (9) Electrical Handhole Extensions; Sideriser Electrical and Control Equipment; Monitoring Well Installation and Abandonment; 2,233 LF of Litter Fence; 2,370 LF of Guide Rail; 3,000 LF of Access Road and Restoration.

