

## HARDEN GROUP, LLC

NEW CELL CONSTRUCTION TOTALS TO DATE	LANDFILL CELL CLOSURES TOTALS TO DATE	VERT. EXTRACTION WELLS TOTALS TO DATE	HDPE CONVEYANCE PIPE TOTALS TO DATE	FLARE STATIONS TOTALS TO DATE
47 Cells - 348 acres	21 Caps - 585 acres	20,096 vf	84 miles	13

<u>Project Name/Location/Designer</u>	<u>Owner/Contact</u>	<u>Description of Work</u>	<u>Value/Start Date/Completion</u>
Augusta County Landfill Phase 5, Closure, and GCCS Construction Staunton, VA	Augusta County Service Authority 18 Government Center Lane Verona, Virginia 24482 Cole Seldomridge (540) 337-2857	Construction of a new 9 acre geosynthetic lined cell and an 8 acre geosynthetic cap. Over 87,000 CY of soil excavation and placement. 30,000 TNS of aggregate protective cover. Installation of over 23,000 LF of LFG, Air, Condensate, & Leachate piping with 3 new sumps. Drill and install 24 new LFG extraction wells totaling 1688 VF. Construction of a new Blower and Flare station and connection to new and existing LFG systems. Installation of over 2,500 LF of drain and stormwater piping. Regrading of two existing sediment basins with installation of new riser and outlet structures. E&S controls and restabilization.	\$11,261,978.06 Start Date 4/2023 Scheduled 4/2024
Fauquier 149 Landfill Closure Warrenton, VA	Fauquier County Government and School Board 320 Hospital Dr. Suite 23 Warrenton, Virginia 20186 Michael Kreese (540) 422-8354	Construction of a 33.1 acre cap. Excavation and screening of over 145,000 CY of soil for bedding layer and cover soil. Clearing of 2 acres to install a new sediment basin. Installation of over 6300 LF of drain and stormwater piping. Addition of over 2000 LF of leachate collection piping to the existing system. 5100 LF of new perimeter road.	\$8,066,605.00 Start Date 3/2023 Scheduled 12/2023
Frey Farm Landfill 2023 Gas System Expansion Conestoga, PA	Lancaster County Solid Waste Management Authority 1299 Harrisburg Pike Lancaster, PA 17604 Nick Kohr (717) 735-0199	Installation of 800LF of horizontal collectors and wellheads connecting to the existing LFG header. Drill and install 8 new vertical LFG wells and wellheads totaling in 437 VF. Install 1200 LF of lateral pipe to tie into the existing LFG system. E&S controls and re-stablization of disturbed areas.	\$231,026.48 Start Date 01/2023 Completed 02/2023
Livingston Landfill Construction Construction of Cells IIA and IIB Spotsylvania, VA	Board of Supervisors of Spotsylvania 9104 Courthouse Road Spotsylvania, VA 22553 Joshua Knight (540) 507-7305	Construction of two new landfill cells, four new stormwater management ponds and 1 new leachate basin; totaling over 19 acres. Clear and Grub 14 acres. Install 14 acres of geosynthetic base liner system for new cells and leachate basin. Install 7000 LF of leachate collection and force main piping. Installation of risers, electrical, and controls for new leachate pump station. 2500 LF of new access road and ramps. Extensive E&S controls to protect nearby delineated wetlands.	\$7,632,846.07 Start Date 06/2022 Scheduled 03/2023

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Northern Landfill Cell 7 Construction Accomack County Northern Landfill Atlantic, VA	County of Accomack, VA 23296 Courthouse Avenue Accomac, VA 23301 Lucy Huffman (757) 787-5709	Construction of a new 9.5 acre cell. Clear and Grub 4 acres. Installation of 9 acres of geosynthetic liner system. Excavation of new stormwater management pond and system. Installation of 1,890 LF of leachate collection piping and pump station, 870 LF of LFG and forcemain piping, access road, E&S controls and electrical.	\$3,799,899.15 Start Date 08/2021 Completed 07/2022
2021 Enclosed Flare Installation Blue Ridge Landfill Chambersburg, PA	Blue Ridge Landfill Company 1660 Orchard Road Chambersburg, PA 17202 David Pannucci (610) 317-3200	Installation of a new ZTOF enclosed flare and blower skid including modifications and additions to existing LFG and electrical systems. Installation of two condensate sumps, 600LF of LFG piping, pneumatic butterfly valves, 500 LF of DC forcemain, 375 SF concrete foundation pad, 450 LF of electrical lines, and 280LF of security fence.	\$636,526.00 Start Date 08/2021 Completed 04/2022
LFG Extraction Wells & Sumps Cumberland County Solid Waste Complex Rosenhayn, NJ	Cumberland County Improvement Authority 745 Lebanon Road Millville, NJ 08332 Mr. Gerald Velazquez (856) 825-3700	Installation of 9 new extraction wells and 5 condensate sumps, 508 VF total. Including connecting sumps to existing LFG gas header, force main, and air lines.	\$294,791.00 Start Date 03/2021 Completed 05/2021
Frey Farm Landfill 2020 Cap Construction Conestoga, PA	Lancaster County Solid Waste Management Authority 1299 Harrisburg Pike Lancaster, PA 17604 Nick Kohr (717) 735-0199	Construction of a 12.2 acre landfill capping system including the removal of 6.1 acres of an existing liner system, cover soil, excavation and screening of 65,000 CY of soil. Excavation of municipal solid waste, 4,700 LF of LFG surface collectors & lateral piping. Installation of access roads, gabion downchute channels and E&S controls.	\$2,679,104.00 Start Date 05/2020 Completed 12/2020
Landfill Gas Utility Flare Skid Installation Pine Grove Landfill Pine Grove, PA	Waste Mangement Pine Grove Landfill, Inc. 193 Shultz Rd. Pine Grove, PA 17963 David Kassa (479) 295-4676	Install Owner supplied skid mounted flare. Furnish and Install interconnected piping, instrumentation and electrical	\$51,459.00 Start Date 01/2020 Completed 02/2020

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On-Call Construction Services for Landfill Gas Coveyance System Baltimore County, MD	Baltimore County 400 Washington Ave Towson, MD 21204 Brian Lavigne (410) 887-8145	On-Call services include repairs and installation of a landfill gas system. To date, Harnden has installed 17 new wells, 4000 LF of various sized HDPE and numerous repairs to existing risers.	\$2,954,256.15 Start Date 8/2019 Scheduled 8/31/24
Millersville Landfill MLRRF Cell 567 Replacement Cap Severn, MD 21144	Anne Arundel County Heritage Office Complex 2660 Riva Road, 3rd Floor Annapolis, MD 21404 Mr. Stephen Krajcsik (410) 222-6108	Installation of a 6 acre replacement 40-mil geomembrane liner cap on top of existing cell. Raise and regrade cell cap elevation and extend existing LFG wells to meet new grades. Install new HDPE LFG pipe headers and laterals. Pond clean out and restoration. Cell 567 Terrace regrade for erosion and sediment control.	\$2,029,962.71 Start Date 8/2019 Completed 05/2020
On-Call Landfill Maintenance and Repair Services Anne Arundel County, MD	Anne Arundel County Heritage Office Complex 2660 Riva Road, 3rd Floor Annapolis, MD 21401 Mr. David Moncrief (410) 224-1276	On-Call services may include repairs and installation of a landfill gas system. Upgrades for capped cells including verticle and horizontal LFG wells, geosynthetic cap system installation, cover soil placement on geomembrane liner, drainage channel cleanout and restoration.	\$228,915.00 Start Date 8/2019 Scheduled 07/2024
Frederick County Leachate Frederick, MD	Frederick County Division of Utilities and Solid Waste Management Steve DeFriece (310) 600-2996	Installation of 3121 LF of 4"x8" HDPE forcemain and structures for the leachate collection system upgrades at the Federick Co. Landfill. This project also includes 977 LF of HDPE and PVC Gravity lines for the bypass sewer, concrete pads, electric upgrades, demolition, pavilion construction (carpentry) and SCATA upgrades.	\$749,538.00 Start Date 8/2018 Completed 04/2020
Lanchester Landfill Area E Cell 2A Narvon, PA 17555	Chester Co. Solid Waste Authority Narvon, PA Mr. Robert Watts (484) 796-4040	New 9 acre cell constructed on existing capped landfill, including demolition, erosion and sedimentation controls, existing liner system removal, excavation and preparation of subgrade, stormwater measures and drainage channel installation.	\$5,020,643.11 Start Date 6/2018 Completed 9/2019
On-Call Landfill Maintenance and Repair Services Anne Arundel County, MD SCS Engineers	Anne Arundel County Dept. of Public Works Mr. Stephen Krajcsik (410) 222-6108	Cell 567 GCCS upgrades for a 54 acre capped cell including verticle and horizontal LFG wells, geosynthetic cap system installation, cover soil placement on geomembrane liner, condensate traps and dual containment force main.	\$718,260 Start Date 5/2014 Completed 5/2019

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Millersville Landfill MLRRF Cell 8 Closure Severn, MD Geosyntec	Anne Arundel County Dept. of Public Works Mr. Stephen Krajcsik (410) 222-6108	Construction of 58/Acre Cap including geomembrane liner, 1,500/VF of LFG extraction wells, 20,000/LF of 4" though 14" HDPE LFG pipe, condensate knock out and lift stations, electrical work, flare station modifications, SCADA System, 440/LF of RCP culverts and precast box culverts, 10,000/CY of waste excavation and relocation, 330,000/CY of excavation, sheet piling, and 1,400/LF of grouted rip rap channels	\$12,392,425.93 Start Date 9/2016 Completed 8/2019
Midshore Closure Cap Easton, MD Geosyntec	Maryland Environmental Service Steve Tomczewski (410) 980-6307	Construct a 70 acre Exposed Geomembrane cap at the Midshore Regional Solid Waste Facility. Including 16 verticle LFG extraction wells, 6,450 LF DR-17 HDPE pipe, 70 acres/89,000 CY of subgrade prep.,30 acres of former borrow area grading, 36" through 54" diameter storm water culverts and head walls, 60 mil. textured geomembrane with earth anchor system, 8,500 LF of perimeter channel, fabric formed concrete downchute and channel lining. 12,000 CY of waste relocation.	\$6,708,467 Start Date 4/2015 Completed 7/2016
On-Call Construction Services for Landfill Gas Coveyance System Baltimore County, MD AECOM	Baltimore County, MD Kari Hogson (410) 887-4370	Landfill Gas Expansion over a 38 acre partially capped site including verticle and horizontal LFG wells and HDPE collection pipe, geosynthetic cap system installation and repair, cover soil placement on geomembrane liner and leachate seep repair.	\$750,000 Start Date 4/2011 Completed 4/2016
Groundwater System Expansion Alpha Ridge Landfill Howard County, MD ARM Group	Howard County, MD Dept. of Public Works Jeffrey Dannis, P.E. (410) 313-6419	Construct ground water pumping system including designing and fabricating control panels to implement Supervisory Control and Data Acquisition (SCADA). Installation of 2100 LF of 2" DR-11 HDPE Force Main pipe, 5100 LF of PVC conduit, 8650 FT of electrical wire, 3000 LF of instrumentation/ control cable, pre-cast vaults, poured in place concrete pads, flow meters, valves, access road and seeding.	\$414,980 Completed 09/2015

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Phase X - Base Liner System Eastern Sanitary Landfill Baltimore County AECOM	Baltimore County, MD Department of Public Works Kari Hogson (410) 887-4370	Construction of a 19.1 acre cell with a 12-mil reinforced geosynthetic capping system including erosion control, cell floor preparation, geosynthetic clay liner, geomembrane, sump pumping system, wetwells, LFG collection system, electric, force main, geotextiles, aggregate drainage layer, protective soil cover material, and installation of litter control net.	\$3,642,000 Completed 01/2015
Cell 7 West Grove, PA BAI Group	Southeastern Chester County Refuse Authority (SECCRA) Al Roman (610) 587-9240	Construction of 12.7 acre cell including excavation, 24" thick clay subbase, geomembrane, leachate collection aggregate, protective cover soil, 1725 LF of 2"/4" dual contained HDPE pipe, 2000 LF 4"/8" dual contained HDPE pipe, 1700 LF 6" HDPE pipe, 2925 LF 3" HDPE pipe.	\$2,064,716 Completed 06/2014
Cell 5/6 LFG Migration Control Hernwood Landfill Baltimore County, MD EA Engineering	Baltimore County, MD Dept. of Public Works Kari Hodgson (410) 887-4370	Excavation of a 200 FT by 10 FT deep trench. Lining trench with 40 mil LLDPE and non-woven geotextile. Installing aggregate and DR-11 HDPE pipe in trench. Installing 5 each 36" diameter Landfill Gas Vents and Solar Flare Units.	\$198,935 Completed 05/2014
Expansion of LFG System Rolling Hills Landfill Berks County, PA BAI Group	Delaware County Solid Waste Authority Wendy Marburger (610) 367-2373	15 acre closure including geomembrane capping system with the Installation of 5 each LFG verticle extraction wells totaling 419 LF and 1,530 LF of 4" thru 6" DR-17 HDPE header and lateral pipe.	\$87,720 Completed 10/2013
Subcell 8.8 - LFGMS Expansion Anne Arundel County, MD SCS Engineers	Anne Arundel County, MD Ms. Ashley Evans (410) 224-1274	Installation of 560vf of LFG vericle extraction wells, 4,340lf of horizontal LFG collectors & leachate collection system pipe tie-ins (including 4" piping), condensate drain, 4" and 10" LFG piping, CMP road crossing/pipe casing, connection to existing condensate drain and site restoration.	\$436,089 Completed 8/2013
Enclosed Flare Station relocation Lanchester Landfill Honey Brook, PA SCS Engineers	Chester Co. Solid Waste Authority Narvon, PA Mr. Robert Watts (484) 796-4040	Install 4,500 scfm enclosed blower/flare station;disassemble and transport, recondition flare including sand blast and paint, install new blowers, VFD's, flame arrestor, louvers, stainless steel pipe, condensate drains, concrete pad and foundations, control panel, electric and system intergration. Demolish 3,000 scfm flare.	\$572,964 Completed 2/2013

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Verticle Gas Well Construction Mt. View Reclamation Landfill Greencastle, PA AECOM	Waste Management Gary Von Stetina (610) 367-1387	Installation of 465vf LFG verticle and horizontal extraction wells. 150lf LFG header and lateral piping and decommissioning of recirculation risers and existing gas wells.	\$70,150 Completed 11/2012
Construction of LFG System Boyertown, PA BAI Group	Delaware County Solid Waste Authority Wendy Marburger (610) 367-2373	Installation of 4 each LFG verticle extraction wells totaling 309 VF and 815 LF of 6" thru 10" DR-17 HDPE header and lateral pipe.	\$89,989 Completed 7/2012
Area E - Stage 1A Lanchester Landfill Honey Brook, PA ARM Group, Inc.	Chester Co. Solid Waste Authority Narvon, PA Mr. Robert Watts (610) 273-3771	Site preparation for 18 acre cell including E&S controls, 8 acres of clearing and grubbing, 250,000 cy of excavation, 78,000 cy of rock excavation including drilling & blasting, 400lf of 60" RCP, 650lf of 48" RCP, 1,200lf of access road, monitoring wells, 35,000' of overhead and below grade electric and fiber optics, 8acres of seeding.	\$4,060,546 Completed 6/2012
Blower / Flare Station Modifications Egg Harbor Township, NJ SCS Engineers	Atlantic Co. Utilities Authority Egg Harbor Township, NJ Mr. Matt Denafu (609) 272-6991	Construction of a blower/flare station including 5 blowers, 2 flares (1,800 SCFM Flare and 3,000 SCFM Enclosed Flare) 24" HDPE pipe, 24" stainless steel pipe, and the construction of a control building including concrete and electrical work, system integration of the Owner-supplied John Zink and Parnel flare stacks, Gardner Denver blowers, and Contractor-furnished instrumentation and controls.	\$1,038,593 Completed 09/2011
LFG Extraction Wells Egg Harbor Township, NJ ACUA	Atlantic Co. Utilities Authority Egg Harbor Township, NJ Mr. Dennis Smith (609) 272-6909	Provide all necessary labor, materials, machinery, tools, equipment, appurtenances, and services required to construct and complete all work for the drilling and installation of seven (7) methane gas collection wells in the Atlantic County Utilities Authority Landfill 540vf.	\$128,840 Completed 07/2011
Ft. Belvoir Lagoon Springfield, VA CCS	Chesapeake Containment Systems Middle River, MD Mr. Ryan Clark (410) 335-5886	Construction of a 2 acre lined lagoon including placement of protective aggregate with low ground pressure equipment over an HDPE liner.	\$58,338 Completed 11/2010

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Bethlehem Landfill Bethlehem, PA Martin and Martin, Inc.	IESI Bethlehem, PA Mr. Sam Donato (610) 317-3200	Expansion of existing LFG extraction system, including 450 lf 4" LFG collection piping, 275 lf 14" LFG collection piping, 73 lf LFG extraction wells, 690 lf horizontal LFG extraction wells, installation of 10 LFG extraction well heads, and slope riser connections.	\$71,195 Completed 9/2010
Blue Ridge Landfill LFG Expansion Chambersburg, PA Martin and Martin, Inc.	IESI Bethlehem, PA Mr. Sam Donato (610) 317-3200	Expansion of existing LFG extraction system, including 2,250 lf 12" LFG collection piping, 400 lf 4" LFG collection piping, 30 lf 6" LFG collection piping, 96 lf LFG extraction wells, installation of 12 LFG extraction well heads, 6" and 12" isolation valves, 1,245 lf horizontal gas collectors, and leachate clean-out connections.	\$100,261 Completed 8/2010
Landfill Gas Heaters Prince William, VA Solid Waste Services, LLC	County of Prince William Prince William, VA Mr. Sadhu Sandhu (703) 792-6265	Construction of a landfill gas transmission and compression facility, along with the installation of Robert Gordon-Vantage HE heaters in the landfill maintenance facility, utilizing the treated landfill gas, 7,000 lf 6" HDPE LFG header pipe, isolation valves, road boring, LFG dehydration compression system, LFG blower station, landfill gas fired low intensity unitary heaters, stainless steel piping, and electrical.	\$956,402 Completed 5/2010
LFG System Expansion Rustburg, VA SCS Engineers	County of Campbell Rustburg, VA Mr. Clif Tweedy (434) 332-9528	Investigation and abandonment or retrofit of 37 existing landfill gas extraction wells, installation of 31 new LFG extraction wells totaling 1,591 vf, installation of 3,230 lf of HDPE LFG header pipe and 8"/6" butterfly valves, 500 tons of municipal solid waste excavation, handling and disposal, system testing, balancing, and start-up.	\$327,920 Completed 3/2010
LFGTE Facility Waste Management Alliance Landfill Taylor, PA LaSalle Associates, Inc.	T. V. John & Son, Inc. Butler, WI Mr. Dean Handrow (262) 781-9304	Construction of a new landfill gas transmission and compression facility, including a 6,000 SCFM enclosed flare, a 3,300 SCFM enclosed flare, a 500 SCFM open flare, condensate pump station and knock-out, valve vault, 4,000 lf of dual containment HDPE pipe, 24" HDPE LFG header pipe, site excavation,	\$690,494 Completed 1/2010
Landfill Gas System Expansion Phase I, Parts 3 and 4 Prince William, VA Solid Waste Services, LLC	County of Prince William Prince William, VA Mr. Sadhu Sandhu (703) 792-6265	Installation of landfill gas collection system, including 460 vf gas extraction wells, 2,100 lf of 16" SDR17 HDPE header pipe, 1,300 lf of 4"-8" SDR17 HDPE lateral pipe, condensate drains and traps, MSW refuse removal, and site restoration.	\$226,498 Completed 7/2009

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LFGTE Facility Quarantine Road Landfill Baltimore, MD Ameresco	Ameresco Knoxville, TN	Installation of landfill gas blower and LFG gas conditioning dehydration unit, stainless steel interconnection piping, candlestick flare, carbon steel interconnection piping, LFG HDPE header piping, and electrical interconnections, and concrete foundation.	\$483,002 Completed 5/2009
Gas Collection System Quarantine Road Landfill Baltimore, MD SCS Engineers	City of Baltimore Baltimore, MD Mr. Vivaldi Nguyen (443) 984-3974	Fabrication and installation of landfill gas flare station, installation of 3,300 vf of LFG extraction wells, installation of 12,250 lf of 6"-14" HDPE header and collection piping, relocation and disposal of municipal solid waste, construction and installation of LFG well heads and control valves, 80,000 cy earthwork, reinforced concrete, chain link fence, and seeding.	\$1,977,371 Completed 5/2009
Area D - Cell 2 Construction Lanchester Landfill Honey Brook, PA ARM Group, Inc.	Chester Co. Solid Waste Authority Narvon, PA Mr. Robert Watts (610) 273-3771	New 9-acre cell partially constructed on existing capped landfill, including clearing and grubbing, demolition, erosion and sedimentation controls, existing liner system removal, excavation and preparation of subgrade, geogrid reinforcement, 110,000 cy earthwork, 27,000 cy low permeability soil, subbase installation, 60-mil HDPE liner, geocomposite, geosynthetic clay liner, 16 oz. geotextile, 18" protective cover, litter fence, access road, guide rails, leachate collection system and risers, pump system, controls, and electric.	\$2,917,440 Completed 10/2008
Cells 1 and 2 Southern Solid Waste Management Georgetown, DE GeoSyntec Consultants	Delaware Solid Waste Authority Dover, DE Mr. Bruce Hulman (302) 739-5361	Polypropylene cap repair on 20-acre landfill, including landfill gas management, liner system removal, terrace regrading, channel restoration, and LFG/liner system repair and retrofit.	\$148,840 Completed 7/2008
Hernwood Landfill Closure Baltimore County, MD EA Engineering	Baltimore County, MD Mr. Stephen Lippy (410) 887-2009	Closure of an existing solid waste disposal landfill, approximately 72 acres in area, including clearing and grubbing, 400,000 cy earthwork, gabion, reno mattress and rip-rap channels, super silt fence, landscaping, wetland and stream rehabilitation, gravel and paved roads, landfill closure cap covering 68 acres requiring installation of soil subbase layer, 40 mil LLDPE geomembrane, geocomposite, PVC underdrain pipe system, 2' soil cover, vegetative stabilization, construction of 5,215 lf of 10'-15' deep gas migration control trenches, 500 vf LFG extraction wells, abandonment of existing leachate lines and ground water monitoring wells, excavation, and placement and off-site disposal of municipal solid waste.	\$8,400,000 Completed 12/2007



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<b>LANDFILL PROJECTS CONSTRUCTED BY HARNDEN GROUP, LLC PERSONNEL</b>			
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Lanchester Scales Honey Brook, PA	Chester Co. Solid Waste Authority Mr. Robert Watts (610) 273-3771	Construction of scale, recycling, and small load drop-off facility, including demolition of existing facility while maintaining daily uninterrupted landfill traffic through construction site, constructing two truck scales, scale house and scale booth, site grading, concrete foundations and structures, paving, utilities including water, waste water, storm water, propane gas, electric, and data communication.	\$2,585,901 Completed 6/2007
Resh Road Landfill Washington County, MD	Washington County, MD Mr. Randy Edwards (240) 313-2403	30 acre closure, subgrade preparation, waste removal and relocation, 40-mil textured geomembrane liner system, installation of 9 LFG extraction wells 750vf with solar flare, 145,000 cy earthwork, and gabion toe wall.	\$5,795,000 Completed 5/2007
Oaks Landfill Montgomery County, MD SCS Engineers	Montgomery County, MD Mr. Peter Karasik/Mr. Steve Lezinski (301) 840-2361	Construction of approximately 3,700 lf of 3"-12" HDPE force main and gravity lines for leachate removal and transmission, including pump station, wet wells, pumps and control panels, and site electric.	\$616,829 Completed 3/2007
Cumberland Landfill Pad N-6/N-7 Newburg, PA	Interstate Waste Services Mr. Kevin Bush (717) 243-1692	5 acre new cell construction, subbase, screening, protective cover placement, and leachate collection system.	\$500,000 Completed 8/2006
Millersville Landfill Cells 8.7 and 8.8 Anne Arundel County, MD	Anne Arundel County, MD Mr. Stephen Krajcsik (410) 222-6108	18 acre new cell construction, ground water interceptor trench, subbase, protective cover, liner system, leachate collection and pump system, 3,000 lf HDPE force main, pump stations and control system, 116,000 cy earthwork, 46,000 cy low permeability soil, lightning protection, and site electric.	\$4,747,638 Completed 6/2006
Eastern Landfill Force Main Baltimore County, MD SCS Engineers	Baltimore County, MD Mr. Stephen Lippy (410) 887-2009	HDPE dual containment 12" x 8" force/gravity leachate transmission line (5,100 lf), pump station, two boring, HDPE manholes, and site electric.	\$458,477 Completed 4/2006
Lanchester Wheel Wash Honey Brook, PA	Chester Co. Solid Waste Authority Mr. Robert Watts (610) 273-3771	Construction of truck wheel wash facility, installation of Moby Dick wheel washing system, concrete foundations and ramps, utilities, and paving.	\$437,544 Completed 4/2006

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Lanchester Area C & D Honey Brook, PA ARM	Chester Co. Solid Waste Authority Mr. Robert Watts (610) 273-3771	Capping and closure of a 25 acre landfill, including waste relocation and subgrade preparation, construction of an 8 acre new cell, 3,000 lf mechanically stabilized earth berm 40' high with 81,850 sf of facing, 6,420 lf dual containment leachate conveyance lines, wet wells, pumping facilities, 8 acres geogrid reinforcement at new cell, 33 acres geomembrane liner system, 520,000 cy earthwork, 60,000 cy low permeability soil, 120,000 sf litter fence, 8,500 sy bituminous paving, 420 vf LFG probes, 18,000 lf HDPE LFG piping.	\$11,373,100 Completed 12/2005
Harrisburg Landfill Harrisburg, PA Brinjac Engineering	The Harrisburg Authority Mr. John Lukens (717) 255-7338	6 acre closure, including residual waste relocation and grading, subbase, 40 mil VLDPE textured geomembrane, geocomposite, placement of cover soils, drainage swales, and revegetation.	\$1,418,491 Completed 6/2005
Lanchester Flare Station Honey Brook, PA SCS Engineers	Chester Co. Solid Waste Authority Mr. Robert Watts (610) 273-3771	Installation, start-up, and testing of three 2,400 scfm blowers and one 4200 scfm enclosed flare with associated S.S. piping, controls, concrete foundations, and electrical.	\$732,827 Completed 12/2004
Oak Avenue Phase IV Joppa, MD AECOM	Waste Management, Inc Mr. Christopher Isakov (410) 309-4598	Capping and closure of a 6 acre landfill, including terrace construction, gabion walls, geomembrane, protective cover soil, installation of 300vf LFG extraction wells and HDPE header pipe.	\$540,008 Completed 8/04
Oak Avenue Phase IV Joppa, MD AECOM	Waste Management, Inc Mr. Christopher Isakov (410) 309-4598	Construction of a 7 acre cell, including 800lf of horizontal gas extraction wells, leachate collection system, and geomembrane liner.	\$483,300 Completed 4/04
Area B Gas, phase 1 Largo, MD SCS Engineers	Prince George's County Mr. Pat Connelly (301) 952-7609	7,200lf of 16" HDPE gas collection pipe, 3,600vf of LFG extraction wells, well field balancing and road restoration.	\$874,520 Completed 1/04
Field 10 Allenwood, PA	Lycoming County Mr. Stephen Tucker (570) 547-2470	10.6 acre cell, including 300,000 cy excavation, subbase, 100mil geomembrane, 4,200lf HDPE leachate collection pipe, 2,500lf 12"-16" HDPE gas pipe, 3,000sy riprap lined channels	\$3,684,000 Completed 10/03
Horizontal LFG expansion Cumberland Landfill Newburg, PA Martin & Martin	WSI Mr. Bill Neidigh (717) 423-5917	1,500lf of horizontal gas collection pipe and 3,000lf of LFG header pipe, condensate knock-outs and flare system connection.	\$521,980 Completed 6/02
Pad N-2 Cumberland Landfill Newburg, PA	WSI Mr. Bill Neidigh (717) 423-5917	8.6 acre cell construction, including screening and placing subbase, installation of protective cover and leachate collection system.	\$1,203,747 Completed 6/02
Barner 3-3 Disposal Area Lewistown, PA	Mifflin County Solid Waste Authority Mr. Kerry Tyson (717) 242-3301	3 acre cell construction over refuse, including soil stabilization, waste relocation, subbase and leachate collection system.	\$383,000 Completed 5/02
Lanchester Cells 3 & 4 Overfill	Chester Co. Solid Waste Authority	Construction of 3 landfill cells totaling 25 acres, including	\$7,021,802

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Honey Brook, PA GeoSyntec Consultants	Mr. Robert Watts (610) 273-3771	geosynthetic reinforcement, clay subbase, leachate collection, leachate recirculation system, and LFG extraction wells.	Completed 3/02
Pads 4/6 Lebanon, PA Martin & Martin	Greater Lebanon Refuse Authority Mr. Larry Taylor (717) 867-5790	17 acre cell construction, including screening and placing subbase, installation of protective cover and leachate collection system, force main and pump station, litter fence.	\$2,010,861 Completed 1/02
Lanchester Area B Honey Brook, PA GeoSyntec Consultants	Chester Co. Solid Waste Authority Mr. Robert Watts (610) 273-3771	35 acre closure, soil screening, geomembrane, LFG extraction wells, LFG collection piping, LFG blower and flare station	\$3,680,000 Completed 10/01
Berks County Superfund site Reading, PA Golder Associates	Golder Associates Ms. Veronica Foster (856) 616-8166	Superfund remedial action, including containment and capping for 42 acres of contaminated soils, installation of ground water monitoring wells and gas monitoring probes, repair/construction of leachate collection system.	\$1,855,000 Completed 1/01
Sanitary Landfill Closure York, PA Malcom Pirnie	York County Solid Waste Authority Mr. Doug Jasitt (717) 845-1066	16 acre closure, including 17 LFG 550vf extraction wells, Geogrid reinforcement, geomembrane, soil screening, protective cover soil placement, 2,500lf HDPE leachate & LFG collection piping.	\$1,525,000 Completed 1/99
Carr's Mill Landfill Remediation Howard County, MD SCS Engineers	Howard Co. Dept. of Public Works Mr. Kris Singleton (410) 313-6418	Closure of a 9 acre drum disposal site, requiring hazardous waste classification and disposal, soil screening, geomembrane and protective cover soil placement.	\$1,505,000 Completed 11/98
Lanchester Overfill Project Honey Brook, PA GeoSyntec Consultants	Chester Co. Solid Waste Authority Mr. Robert Watts (610) 273-3771	Overfill of 2 cells totaling 24 acres, leachate transmission pipe line, Excavtion & disposal of refuse, access road, MSE wall, clay subbase, geomembrane, protective cover, leachate system.	\$9,150,000 Completed 2/98
Phase 2 Gas Honey Brook, PA SCS Engineers	Chester Co. Solid Waste Authority Mr. Robert Watts (610) 273-3771	Gas management system, 10,750lf of horizontal LFG extraction wells and HDPE header pipe, verticle LFG extraction wells 450vf.	\$692,300 Completed 2/98
Bethlehem Landfill Bethlehem, PA Gannet Flemming	City of Bethlehem Paul O'Neal (Gannet Flemming) (717) 763-7211	50 acre closure, 40 LFG extraction wells 1,900vf, 5,000lf of HDPE gas header and lateral pipe, blower and enclosed flare station, liner system, 250,000cy of excavation, 125,000 cy of waste relocation, cover soil placement.	\$6,455,400 Completed 8/96
Colebrookdale Landfill Berks County, PA	Delaware County Solid Waste Authority Wendy Marburger (610) 367-2373	Installation of leachate effluent transmission line and outfall, 12,900lf of 6"x10" & 4"x8" dual containment HDPE Pipe	\$1,063,201 Completed 6/95

<u>Project Name/Location/Designer</u>	<u>Owner/Contact</u>	<u>Description of Work</u>	<u>Value/Start Date/Completion</u>
Area B Cells 3 & 4 Honey Brook, PA GeoSyntec Consultants	Chester Co. Solid Waste Authority Mr. Robert Watts (610) 273-3771	Construction of 2 cells totaling 21 acres, 225,000 cy of excavation, clay subbase, liner system, protective cover, leachate collections system, force main.	\$4,511,358 Completed 12/94
Parkton Landfill Parkton, MD	Baltimore County, MD Mr. Stephen Lippy (410) 887-2009	Capping of cells 1,2,3,4,4a,7 totaling 35acres. Subgrade prep., geomembrane, protective cover soil import and placement, gabion downchutes and acces roads.	\$2,151,900 Completed 8/93
Frey Farm Cell 3 Lancaster, PA	Lancaster Area Refuse Authority Mr. Brooks Norris (717) 397-9968	Construction of a 19 acre cell including, 375,00cy of excavation subbase prep., liner system, protective cover leachate collection and conveyance system.	\$5,301,815 Completed 11/92
York Co. Sanitary Landfill York, PA Malcom Pirnie	York County Solid Waste Authority Mr. Doug Jasitt (717) 845-1066	30 acre closure, including subbase placement, liner system soil screening, protective cover soil placement.	\$3,367,154 Completed 11/92
Pads 2/3 Lebanon, PA Martin & Martin	Greater Lebanon Refuse Authority Mr. Larry Taylor (717) 867-5790	17 acre cell construction, including screening and placing subbase, installation of protective cover and leachate collection system, force main and pump station and Leachate storage Tank.	\$2,911,934 Completed 2/92
Frey Farm Cell 2 Lancaster, PA	Lancaster Area Refuse Authority Mr. Brooks Norris (717) 397-9968	Construction of a 12 acre cell including, 240,00cy of excavation subbase prep., liner system, protective cover leachate collection and conveyance system.	\$4,022,823 Completed 10/90
Creswell Landfill Phase 2 Lancaster, PA	Lancaster Area Refuse Authority Mr. Gary Yoder (717) 397-9968	Construction of a 21 acre cell including, 180,00cy of excavation subbase prep., liner system, protective cover leachate collection and conveyance system.	\$1,272,959 Completed 2/88
Creswell Landfill Lancaster, PA	Lancaster Area Refuse Authority Mr. Gary Yoder (717) 397-9968	Construction of a 12 acre cell including, subgrade preparation, single liner sytem, protective cover gravel and leachate collection system. <b>First geomembrane lined cell in PA.</b>	\$1,225,193 Completed 10/86

**NOTE: Projects completed prior to 1/1/2008 were performed under previous employer, Pavex Inc.**