



Landscape Performance Research Matchmaking Site - Research by Andropogon on Landscapes Designed by Andropogon

PROJECT NAME	LOCATION			DESCRIPTION	COMPLETED RESEARCH * ACTIVE RESEARCH				RESEARCH OPPORTUNITIES					ANDROPOGON'S SPECIFIC INTERESTS			
	City	State	Region		Partner Institution	Research Focus	Study Timeline	Publications	Habitat	Social	Soil	Stormwater	Vegetation				
Avalon Park and Preserve	Stony Brook	NY	NE	Seven-acre memorial garden within a nature preserve that includes a fern glade; restored forest, wetland, and meadow; and an extensive forest groundlayer planting.	University of Virginia	Biodiversity and social benefits	2011	"Avalon Park and Preserve." Landscape Architecture Foundation, Case Study Investigation.	X	X			X	1) Habitat creation	2) Landscape asset management and life cycle cost benefits	3) Psychological health/ Mental restoration	
Bartram's Mile	Philadelphia	PA	NE	Public brownfield redevelopment waterfront park with biochar test plots and habitat restoration.					X		X	X	X	1) Effects of biochar on plant and soil health	2) Reforestation strategies in post-industrial landscapes and plant preference for native insects		
Central Park, Woodland Restoration	Manhattan	NY	NE	Urban woodland restoration in Central Park's North Woods, The Ramble, and Hallet Nature Sanctuary.			1984-1989	1) Sauer, L. J. (1999). Soil as a living system. <i>Arnoldia</i> , 35-43. 2) Sauer, L. (1993). The North Woods of Central Park and Restoration Project. <i>Landscape Architecture</i> , 83(3), 55-57. 3) Cramer, M. (1993). Urban Renewal Restoring the Vision of Olmsted and Vaux in Central Park's Woodlands. <i>Ecological Restoration</i> , 11(2), 106-116. 4) Sauer, L. (1998). The once and future forest: A guide to forest restoration strategies. Island Press. 5) Sauer, L. (1989). Landscape Management & Restoration Program for the Woodlands of Central Park: Phase One Report: Consensus of the Interviews, Key Issues & Initial Program Recommendations. Central Park Administration	X		X		X	1) Urban ecological restoration	2) Soil restoration		
Cusano Environmental Education Center	Philadelphia	PA	NE	Environmental education center and surrounding sustainable landscape at the John Heinz National Wildlife Refuge at Tinicum, completed in 2001, which includes permeable paving, native plantings, and on-site wastewater treatment and reuse.	Temple University	Stormwater performance and habitat creation	2011	"Cusano Environmental Education Center." Landscape Architecture Foundation, Case Study Investigation. Alminana, J., & Eisenman, T. (2003). LEED in the landscape: thinking outside the box. <i>Environmental Design & Construction</i> , 6(5), 20.	X	X		X		1) Habitat creation	2) Landscape asset management and life cycle cost benefits		
Drexel University, Quadrangle	Philadelphia	PA	NE	Urban university quadrangle with wooded walks and flexible plaza spaces.						X							
Drexel University, The Raymond G. Perelman Plaza	Philadelphia	PA	NE	Urban university plaza with permeable paving, smart drains, stormwater re-use cistern, and a continuous tree trench.	University of Michigan	Preconstruction behavior mapping	2014				X	X	X	X	1) Behavior mapping pre and post construction	2) Stormwater performance	3) Urban heat island and plant health
Fresh Kills Landfill, Re-vegetation Strategies	Staten Island	NY	NE	Capped urban landfill containing wetlands, shoreline remediation, and re-vegetation test plots.	SCS Engineers		1990	1) SCS Engineers and Andropogon Associates. (1990). Operational Landscape Plan. City of New York Department of Sanitation. 2) Robinson, G. R., Yurlina, M. E., & Handel, S. N. (1994). A century of change in the Staten Island flora: ecological correlates of species losses and invasions. <i>Bulletin of the Torrey Botanical Club</i> , 119-129.	X		X		X	1) Landfill reclamation			
Lewes Canalfront Park	Lewes	DE	SE	Public waterfront park that contemplates natural flood regimes, native plant communities, and the park's historic context.						X		X	X	1) Designing for flooding and resiliency in a coastal, public park	2) Plant vigor and salt tolerance	3) Park revitalization and tourism economies	
Loantaka Brook Reservation, Pipeline Installation	Morristown	NJ	NE	1986 Woodland and meadow restoration of an ecologically-oriented natural gas pipeline corridor.		Ecologically-oriented pipeline installation; woodland restoration; meadow restoration	1986-2015	Mandel, Lauren and McCoy, Emily. "Woodland Restoration: 30 Years Later." <i>Arnoldia</i> Spring 2016. Print. (Anticipated publication date)	X				X	1) Long term biodiversity analysis of an alternative pipeline construction method	3) Long term economic analysis of an alternative pipeline construction method		
Lower Darby Creek, Ecological Master Plan for the Eastwick and Folcroft Neighborhoods	Philadelphia	PA	NE	Conceptual ecological master planning for development in Philadelphia's Eastwick and Folcroft neighborhoods that considers landfill reclamation, floodplain restoration, environmental justice, and climate change resiliency.	Temple University	Case study research on landfill reclamation sites	2011		X	X		X		1) Environmental justice issues	2) Landfill reclamation	3) Tidal river floodplain restoration	
Lower Venice Island	Philadelphia	PA	NE	Five-acre, post-industrial riparian island park that contains a subgrade CSO storage tank and pumping station. The park is designed to flood.								X	X	1) Evaluation of riverbank restoration techniques	2) Silvacell performance and tree health	3) Rain garden maintenance	
Morris Arboretum of the University of Pennsylvania, Parking Lot	Philadelphia	PA	NE	One of the world's oldest permeable asphalt parking lots, installed in 1989 and re-furbished in 2015.	Villanova University	Porosity and contaminants evaluation of one of the oldest porous parking lots in the world	2015	Burlotos, Raquel. (2015). Examining Infiltration Capabilities, Contaminant Concentrations, and Porosity of Porous Asphalt at the Morris Arboretum.				X		1) Construction methods of porous asphalt and life-span			



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Phipps Conservatory, Center for Sustainable Landscapes Education-Research-Administration Building	Pittsburgh	PA	NE	Teaching landscape on a steeply sloping brownfield redevelopment site with rain gardens, tree groves, alkaline meadow, green roofs, a constructed wetland, and other measures that helped the building and site meet the Living Building Challenge.					X	X	X	X	X	1) Slope stabilization technique comparison; 2) Ecological succession of alkaline meadow soil microbes and plants;	3) Visitor experience related to constructed landscapes' ability to provide ecosystem services	
Salvation Army, Ray and Joan Kroc Corps Community Center	Philadelphia	PA	NE	Thirteen-acre, post-industrial brownfield development with an urban farm, rain gardens, cisterns, and re-use of site materials during construction.	Temple University	Multivalent Landscapes	2012-2013	"Salvation Army Kroc Community Center." Landscape Architecture Foundation, Case Study Investigation. Myers, M. (2013). Multivalent Landscape The Salvation Army Kroc Community Center Case Study. Landscape Journal, 32(2), 183-198.	X	X	X	X	X	1) Green stormwater infrastructure and landscape performance benefits (primary research)	2) Long-term social benefits and economic analysis	3) Landscape management, habitat value and perceptions of beauty
Schenley Park, Golf Course and Meadow	Pittsburgh	PA	NE	Public park in the Panther Hollow Watershed, retrofit with infiltration trenches, retentive grading areas, and engineered soil.	* University of Pittsburgh	* Green infrastructure performance	* 2014-2016	* Hydrologic Assessment of Green Infrastructure Pilot Projects in Schenley Park, PA			X	X		1) Green infrastructure performance/ BMP comparison between various strategies		
Sidwell Friends School, Green Middle School	Washington	DC	SE	Private Middle School building and grounds that feature a living machine, water-efficient landscaping, green roofs, and rooftop agriculture.	University of Maryland	Ecorevatory Design and Alternative Wastewater Treatment	2007	"Sidwell Friends Middle School." Landscape Architecture Foundation, Case Study Investigation.	X	X		X	X	1) Landscape design and STEM education/ pedagogy	2) Long-term performance of constructed wetlands	
Stroud Water Research Center, Moorhead Environmental Complex	Avondale	PA	NE	Site designed as an outdoor classroom that teaches the water cycle, using rain, gardens, wetlands, a green roof, pervious surfaces, bioswales, and native plants.					X	X		X	X	1) Maximizing rain garden performance through biological amendments	2) Long-term performance of constructed wetlands	
SUNY College of Environmental Science and Forestry, Gateway Center	Syracuse	NY	NE	Semi-intensive to intensive green roof on a LEED Platinum building, planted with plant species endemic to the Alvar Grasslands and Lake Ontario Dune communities.	SUNY College of Environmental Science and Forestry	Plant spacing and media depth; analog plant community comparison	2011-2013	Daley, D. J., Toland, T. R., & Leopold, D. (2014). Design and Performance of an Intensive Green Roof System using Native Plant Communities in Upstate New York. Proceedings of the Water Environment Federation, 2014(11), 1654-1657.	X		X	X	X	1) Native analog plant communities for green roofs	2) Habitat value and native plants on green roofs	
SUNY College of Environmental Science and Forestry, Quad	Syracuse	NY	NE	Research-oriented public college campus quadrangle with a constructed salt marsh, brackish marsh, freshwater marsh, oak-hickory-chestnut forest, limestone woodland, upland meadow, and green roof.	* SUNY College of Environmental Science and Forestry	* Behavior mapping; snowmelt salinity	* 2015-?		X	X	X	X	X	1) Marsh plant survivorship;	2) Soil and snowmelt salinity monitoring	
The Kresge Foundation Headquarters	Detroit	MI	MW	LEED Platinum office complex with native plants, bioswales, permeable paving, rainwater re-use cisterns, green roofs.	Meliora Design; Davis Langdon; Center for the Built Environment	Landscape maintenance costs and return on investment; potable water use; impacts on regional biodiversity	2011	Goins, J. (2011). Case study of Kresge Foundation office complex.	X				X	1) Landscape asset management and life cycle cost benefits		
Thomas Jefferson University, Sidney and Ethal Lubert Plaza	Philadelphia	PA	NE	60,000 sf urban university plaza over structure that collects building runoff for site irrigation.	Temple University	Stormwater performance and social benefits	2011	"Thomas Jefferson University Lubert Plaza." Landscape Architecture Foundation, Case Study Investigation.		X	X	X		1) Compost tea turf management	2) Psychological health/ Mental restoration	3) Urban heat island and plant health
U.S. Coast Guard Headquarters	Washington	DC	SE	31-acre LEED Gold federal redevelopment project with tree plantings, a stormwater pond, plazas, and 400,000 sf of green roofs.	University of Maryland; HOK	Ecosystem services;	2014-2015	"U.S. Coast Guard Headquarters." Landscape Architecture Foundation, Case Study Investigation.		X		X	X	1) Landscape asset management and life cycle cost benefits	2) Green roofs and habitat value	
University of Pennsylvania, Shoemaker Green	Philadelphia	PA	NE	Non-infiltrating, high-occupancy, urban university plaza with lawn, bioretention gardens, engineered soils, a rainwater re-use cistern, and permeable paving.	* University of Pennsylvania	* Weather; transpiration; runoff volume; runoff quality; plant vigor; human occupancy / behavior mapping; soil physical, chemical, and biological properties	* 2012-2017	* McCoy, Emily and Mandel, Lauren. "Soak It Up: Managing Non-Infiltrating Stormwater in a High-Use Urban Park." Ecological Restoration April 2016. (Anticipated publication date)	X	X	X	X	X	1) Green infrastructure performance/ soil and vegetation performance compared to engineering model assumption	2) Landscape design and higher education/ pedagogy	3) Compost tea turf management