

**Growing Greener II
2008 Annual Report**

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DEPARTMENT OF ENVIRONMENTAL PROTECTION					
Project Type	Project Name	Project Description	Grantee/Contractor	Award	County
Abandoned Mine Reclamation	Charlestown Southwest - OSM 03(3498)101.1	Abandoned Mine Land Surface Mine Reclamation - 14 acres. Total cost: \$153,759	Contractor: J & J Svonavec Excavating	\$80,000.00	Armstrong
Abandoned Mine Reclamation	Eau Claire Southeast - OSM 10(7000)101.1	Abandoned Mine Land Reclamation - 11.5 acres. Total cost: \$232,700	Contractor: E. M. Brown, Inc.	\$35,700.00	Butler
Abandoned Mine Reclamation	Coaltown South - OSM 10(2922)101.1	Abandoned Mine Land Surface Mine Reclamation - 20 acres. Total cost: \$232,700	Contractor: E. M. Brown, Inc.	\$54,906.00	Butler
Abandoned Mine Reclamation	Greene Mtn. S. - OSM 54(3046)101.1	Abandoned Mine Land Reclamation - 113 acres. Total cost: \$1,795,443	Contractor: Wolverine Constructors, Inc.	\$1,200,000.00	Schuylkill
Abandoned Mine Reclamation	West Liberty East #3 - OSM 10(6493)101.1	Abandoned Mine Land Surface Mine Reclamation - 4 acres. Total cost: \$86,584	Contractor: Lanagra Gralan Corp.	\$51,583.50	Butler
Abandoned Mine Reclamation	Swoyersville - OSM 40(2233)101.1	Abandoned Mine Land Surface Mine Reclamation - 38.6 acres. Total cost: \$423,920	Contractor: Brdaric Excavating Inc.	\$233,920.00	Luzerne
Abandoned Mine Reclamation	Woods Corners - OSM 61(2906)201.1	Abandoned Mine Land Reclamation - 20 acres. Total cost: \$652,867	Contractor: Quality Aggregates Inc.	\$502,867.25	Venango
Abandoned Mine Reclamation	Dents Run - OSM 24(3890)101.1	Abandoned Mine Land Surface Mine Reclamation - 50.7 acres. Total cost: \$777,634	Contractor: Berner Construction Inc.	\$410,008.19	Elk
Abandoned Mine Reclamation	Darlington Lake N.W. - OSM 04(1820)101.1	Abandoned Mine Land Surface Mine Reclamation - 100 acres. Total cost: \$1,724,771	Contractor: Berner Construction Inc.	\$974,412.50	Beaver
Abandoned Mine Reclamation	Branch Dale East - OSM 54(3639)102.1	Abandoned Mine Land Surface Mine Reclamation - 72 acres. Total cost: \$1,435,988	Contractor: D.A. Kessler Construction Co. Inc.	\$1,416,698.00	Schuylkill
Abandoned Mine Reclamation	Baxter North - OSM 33(3465)101.1	Abandoned Mine Land Surface Mine Reclamation - 46.7 acres. Total cost: \$999,771	Contractor: Berner Construction Inc.	\$911,000.00	Jefferson
		<i>Total Abandoned Mine Projects</i>	11	\$5,871,095.44	

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Acid Mine Drainage Abatement	Pine Run - AMD 65(2971)101.1	Acid Mine Drainage Abatement - 2 acres. Total cost: \$102,966	Contractor: Meadville Land Service, Inc.	\$67,965.70	Westmoreland
Acid Mine Drainage Abatement	Saltlick Run (Mineral Point) - AMD 11(0632)101.1	Acid Mine Drainage Abatement - 3 acres. Total cost: \$723,244	Contractor: T.P. Sanitation	\$423,244.21	Cambria
		<i>Total Acid Mine Drainage Projects</i>	2	\$491,209.91	
Brownfields	Berks Economic Partnership	Remediation and demolition for a project located on a 13-acre former industrial property in Wyomissing Borough, Berks County. The site will be redeveloped for commercial, retail, and residential use.	Berks Economic Partnership	\$850,000	Berks
Brownfields	City of York Redevelopment Authority	For the Northwest Triangle mixed-use development to include residential and office space components.	City of York Redevelopment Authority	\$1,050,000	York
		<i>Total Brownfields Projects</i>	2	\$1,900,000.00	
Oil & Gas Well Plugging	BOGM-07-5	Plug 8 Orphan and abandoned wells some of which are leaking	R. Rindfuss Drilling , L.P.	\$75,798.85	Erie
Oil & Gas Well Plugging	BOGM 07-9	Plug 6 orphan gas wells some of which are leaking	S&T Service & Supply, Inc.	\$86,020.00	Clarion
Oil & Gas Well Plugging	BOGM 07-10	Plug 6 abandoned oil wells some of which are leaking	Gravatt Drilling	\$50,939.28	Crawford
Oil & Gas Well Plugging	BOGM-07-12	Plug 28 abandoned & orphan oil wells some of which are leaking	Phillips & Dart Oil Field Service, Inc.	\$227,460.00	McKean
Oil & Gas Well Plugging	BOGM 08-2	Plug 8 abandoned oil wells one of which is leaking oil to stream	Harris Oil Contractors	\$45,851.20	McKean
		<i>Total Oil & Gas Well Projects</i>	5	\$486,069.33	

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PA Energy Development Authority	CES Landfill Gas Energy Facility	Construction of a 12.3 megawatt landfill gas-to-electricity (LFGE) facility at the Commonwealth Environmental Services landfill in Hegins, PA. Upon completion, the project claims to be the largest landfill gas fired power plant in Pennsylvania.	UGI Development Company	\$500,000	Schuylkill
PA Energy Development Authority	Beltzville Hydroelectric Project	Build a powerhouse with two hydroelectric turbines and generators at Beltzville Dam.	Borough of Lehighton	\$750,000	Carbon
PA Energy Development Authority	SECCRA Power Landfill Gas to Energy Project	Purchase and install a second landfill-gas-to-electricity generator (1.06 megawatt) at the London Grove Township landfill.	Southeastern Chester County Refuse Authority	\$250,000	Chester
PA Energy Development Authority	Center of Excellence for Advanced Energy Sys - Phase 2	Phase 2 of a 3 phase plan to establish a "Center of Excellence" for Advanced Energy Systems Manufacturing at Windber, PA. This center will manufacture fuel cell components and provide training to employees.	Kuchera Defense Systems, Inc.	\$600,000	Somerset
PA Energy Development Authority	Local Soybean Processing in Support of Pennsylvania Biodiesel Production	Expansion of grantee's soybean processing facility. The proposed expansion will increase production to 3 million gallons/year of locally produced soybean oil for biodiesel manufacturing and reduce soy oil transportation costs.	Boyd Station, LLC	\$750,000	Northumberland
PA Energy Development Authority	The Living Building at Phipps: Fueling Green Energy Innovation	Build a 25,000 square foot Center for Sustainable Landscapes, a zero net energy education/research/administration center.	Phipps Conservatory and Botanical Gardens, Inc.	\$30,000	Allegheny

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PA Energy Development Authority	Demonstrating Carbon Dioxide Capture for PFBC Wet Waste Coal Technology	Demonstrate carbon dioxide capture for grantee's wet waste coal technology. The project site will be the CONSOL Research and Development facility in South Park, Allegheny County.	PFBC Environmental Energy Technology, Inc.	\$600,000	Allegheny
PA Energy Development Authority	Year-round Solar Thermal Utilization	Install a new proprietary heat exchanger, solar thermal panels and a groundwater cooling loop to augment existing Heating, Ventilation, and Air Condition as part of "recycling" of the former Greene County nursing home constructed in 1930.	Separation Design Group, LLC	\$112,852	Greene
PA Energy Development Authority	Rapid, Cost Effective Soil Measurements for Accurate Agricultural Carbon Crediting	Develop technology that will enable farmers to sequester carbon. Helps fight greenhouse gases.	The Rodale Institute	\$208,374	Multiple
PA Energy Development Authority	Deep Standing Column Geoexchange in an Urban Setting	Installation of a 1500 ft. deep standing geothermal exchange well to provide fossil fuel free heating and cooling to a two building renovation project in Philadelphia.	Friends Center Corporation	\$505,540	Philadelphia
PA Energy Development Authority	Wind Turbine Towers & Lifting System Commercial Demonstration Project	Engineering and testing of a lift and tower system for the easier placement of 1 megawatt and larger wind turbines.	Wind Tower Systems LLC	\$600,000	Schuylkill
PA Energy Development Authority	Cogeneration Biodiesel Energy Program	Verify engine performance and emissions under varying blends of biodiesel fuel at grantee's cogeneration facility. The results of the project will be used to implement the use of biodiesel at stationary diesel engine electric generation and cogeneration.	NRG Energy Center Paxton LLC	\$112,000	Dauphin
PA Energy Development Authority	Ellwood City Energy Conservation and Management Program	Replace 289 (total 389 excluding grant funds) of 796 existing street lamps with light emitting diode (LED) lighting.	Ellwood City Borough	\$168,750	Multiple

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PA Energy Development Authority	Egg Basket Biomass-to-Energy and Nutrient Recovery Facility	Bioenergy project to incorporate the gasification of poultry litter (manure and wood shavings) with wood wastes to reduce nutrients and produce approximately 3,500 megawatt hours of electricity per year.	Energy Works North America, LLC	\$410,250	Adams
PA Energy Development Authority	Construct and Operate a Biodiesel Soy Oil Degumming System	Construction and operation of a 25 million gallon per year soy oil degumming system. This system will be part of a larger planned facility.	Northeast BioEnergy, LLC	\$400,000	Schuylkill
PA Energy Development Authority	3 MW Utility Scale Solar PV Project	Installation of the largest solar photovoltaic arrays on the East Coast (3megawatt, utility-scale).	SunTechnics Energy Systems, LLC	\$300,000	Multiple
PA Energy Development Authority	Stable Flats	Install a 235.4 kilowatt photovoltaic system (Philadelphia). Expects to be the first multi-family Leadership in Energy and Environmental Design (LEED) Gold certified structure in the country and a representative urban community.	Stable Flats, LLC	\$700,000	Philadelphia
PA Energy Development Authority	Hybrid Renewable Energy Systems Laboratory	Development of a hybrid renewable energy systems laboratory at Penn State's Net-Zero Energy MorningStar Home.	Pennsylvania State University	\$560,000	Centre
PA Energy Development Authority	SEDA-COG Green Building	Funding toward Leadership in Energy and Environmental Design (LEED) Gold green building would be used for solar photovoltaic system, geothermal, insulation, windows, and solar water heating system.	SEDA-Council of Governments	\$442,234	Union
PA Energy Development Authority	AE Polysilicon Equipment Procurement	Procurement of initial equipment to bring production technology to commercial operation.	AE Polysilicon Corporation	\$1,000,000	Bucks
		<i>Total Energy Development Projects</i>	20	\$9,000,000.00	

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Acid Mine Drainage Abatement	C & K Passive Treatment System	Renovation of an existing passive treatment system on an acid mine discharge into the West Branch of the Susquahanna River.	Clearfield Creek Watershed Association	\$174,000	Cambria
Acid Mine Drainage Abatement	Portable Run Passive Treatment System	Construct a passive treatment system on two abandoned mine discharges which flow to Portable Run, a tributary to Sterling Run.	Allegheny Enterprises Inc.	\$30,343	Cameron
		<i>Total Acid Mine Abatement Projects</i>	2	\$204,343	
Stream Improvement	Wallace Run Stream Improvement	Construct a "Natural Channel Design" project along Wallace Run to protect a residence from streambank erosion.	Environmental Quality Resources	\$203,932.00	Centre
		<i>Total Stream Improvement Projects</i>	1	\$203,932.00	
Watershed Protection	Swamp Creek-Erwinna Covered Bridge Project	Survey, design and construction of stream stabilization and restoration for a 1000' section of Swamp Creek in Erwinna, Tinicum Township, Bucks County.	American Littoral Society - Delaware Riverkeeper Network	\$145,000	Bucks
Watershed Protection	Free-Flowing Pennsylvania 3: Ecosystem Restoration through Dam Removal	Design, permitting, construction, restoration, and monitoring activities for dam removal and river restoration projects statewide.	American Rivers, Inc.	\$500,000	Multiple
Watershed Protection	Rock Run Acid Mine Drainage Treatment System	Design, engineering, permitting and the construction of two limestone bed passive systems to treat several acid mine drainage discharges from abandoned pre-act deep and reclaimed surface mines. The discharges flow to an unnamed tributary to Rock Run.	Babb Creek Watershed Association, Inc.	\$290,000	Tioga
Watershed Protection	Arnot #2 Anoxic Limestone Drain (ALD) Conversion	Rehabilitation of an acid mine drainage passive treatment system.	Babb Creek Watershed Association, Inc.	\$21,731	Tioga

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Watershed Protection	Berks County Agricultural Center Interpretative Stormwater Retrofit Project	Install innovative agricultural best management practices.	Berks County Conservation District	\$171,660	Berks
Watershed Protection	Stormwater Management Constructed Wetland Project	Implement a stormwater management constructed wetland within the Bushkill Creek Watershed.	Bushkill Stream Conservancy	\$107,000	Northampton
Watershed Protection	Trout Run Acid Mine Drainage Treatment Project Phase I	Address the four non-point sources of pollution highlighted by use of a innovative iron-aluminum-manganese limestone bed to treat the Puritan discharge.	Cambria County Conservation District	\$172,180	Cambria
Watershed Protection	South Fork AMD Remediation Project	Construct four limestone beds (including an innovative iron-aluminum-manganese Bed) to treat acid mine drainage that impacts a active brook trout fishery on the South Fork Little Conemaugh River.	Cambria County Conservation District	\$105,000	Cambria
Watershed Protection	Saucon Creek Dam Removal and Stream Restoration Project	Remove Saucon Creek Dam and enhance/stabilize approximately 2100 feet of stream channel.	City of Bethlehem	\$64,071	Northampton
Watershed Protection	Dayton Dam Removal and Brook Trout Restoration Project on Sixmile Run	Remove the remains of Dayton Dam, restore stream channel through former impoundment and install fish habitat structures to enhance the existing wild trout fishery.	ClearWater Conservancy of Central Pennsylvania, Inc.	\$34,150	Centre
Watershed Protection	Crawford County Agricultural Best management Practice Initiative II Project	Install agricultural best management practices on a total of eight farms located on impaired waterways in Crawford County.	Crawford County Conservation District	\$108,000	Crawford
Watershed Protection	Big Spring Dam Removal Project	Remove floodplain and channel obstructions associated with the Piper Mill and Thomas Hatchery operations on Big Spring Creek.	Cumberland Valley Chapter of Trout Unlimited, Inc.	\$6,863	Cumberland
Watershed Protection	Remediation of Acid Deposition Impacts in Big Mill Creek, Elk County, Pennsylvania	Engineering and construction of two alkaline addition systems on Big Mill Creek, Elk County.	Elk County Freshwater Association	\$250,000	Elk

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Watershed Protection	Big Spring Run Stream and Floodplain Restoration	Restore 3,850 feet of stream and removing legacy sediments, reconnecting stream to floodplain, restore and create wetlands and riparian buffer. The project will also generate nutrient credits and develop some economic value projections for legacy sediments mixed with manure compost.	Enterprising Environmental Solutions, Inc. (EESI)	\$387,500	Lancaster
Watershed Protection	Falling Spring Restoration @ Skelly Powers Properties	Restore two degraded reaches of the Falling Spring Branch for salmonids and upland wildlife.	Falling Spring Greenway, Inc.	\$200,000	Franklin
Watershed Protection	Big Cove Creek Community Corridor Initiative	Design, permit, and construct a publicly accessible greenway with a stable stream channel and a walking trail along Big Cove Creek as it flows along the McConnellsburg/Ayr Township border.	Fulton County Conservation District	\$160,500	Fulton
Watershed Protection	Raredon Run Stream Restoration Project	Stream restoration/stabilization of Raredon Run at four sites accounting for about 3100 linear feet of stream.	Independence Conservancy	\$330,000	Beaver
Watershed Protection	Mangan Cove Shoreline Stabilization Project	Stabilization of shoreline along Lake Wallenpaupack adjacent to the PA Fish and Boat Commission Access at Mangan Cove to reduce soil erosion and provide riparian plantings.	Lake Wallenpaupack Watershed Management District	\$7,300	Wayne
Watershed Protection	Latrobe Foundation Property Project Phase III	Construct a passive treatment system to treat up to 600 gpm of acid mine drainage and improve the water quality in the Loyalhanna Creek near Latrobe, PA.	Loyalhanna Watershed Association, Inc.	\$500,000	Westmoreland

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Watershed Protection	Windy Valley Stream Restoration	Restore the stream channel to its historical channel and provide additional natural stream channel stabilization techniques to prevent future migration concerns.	Mehoopany Creek Watershed Association Inc.	\$550,000	Wyoming
Watershed Protection	Installation of Best Management Practices at Four Farms in the Bushkill-Jacoby Watershed	Install agriculture best management practices at four sites determined to be non point sources of nutrients and sediment pollution to the Bushkill-Jacoby watersheds in Northampton County..	Northampton County, Chief Executive Office	\$115,261	Northampton
Watershed Protection	Carnahan Run Streambank Stabilization Project	Streambank stabilization and erosion control on Carnahan Run. In addition, it would aid in protecting a portion of State Route 66 in Parks Township, Armstrong County, from being negatively affected and possibly being "washed out" from undercutting as a result of erosion.	Parks Township	\$24,950	Armstrong
Watershed Protection	PA Conservation Reserve Enhancement Program: Original, Northern Expansion & Ohio Basins	Continue the Conservation Reserve Enhancement program in 59 counties.	Pennsylvania Association of Conservation Districts, Inc.	\$3,773,735	Multiple
Watershed Protection	Remediation of Acid Mine Impacts in Coal Run, a Tributary to Schrader Creek	Build a passive acid mine drainage treatment system on the second largest AMD discharge in the Schrader Creek Watershed.	Schrader Creek Watershed Association	\$129,985	Bradford
Watershed Protection	Project Grass Pasture Resource Protection	Install stream bank-fencing, livestock watering systems, Fencing, access lanes, and other pasture improvement management practices on 20 farms in a 14 county area.	Somerset County Conservation District	\$150,000	Multiple

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Watershed Protection	Replacement and Repair for Passive Treatment Systems in Somerset County	Replace and repair 2 passive treatment systems in Somerset County along the Stonycreek River; so as to maintain this important water resource used for drinking water, boating and kayaking, and fishing.	Somerset County Conservation District	\$86,000	Somerset
Watershed Protection	Valley Creek Retrofit BMP Demonstrations	Construct two rock infiltration trenches at two storm sewer outfalls in Valley Creek watershed.	Tredyffrin Township	\$64,415	Chester
Watershed Protection	Swamp Area Passive Treatment System	Design, permit, and construct a passive treatment system for the "swamp" discharges to Twomile Run, a tributary to lower Kettle Creek.	Trout Unlimited, Inc.	\$595,000	Clinton
Watershed Protection	Haymaker Run Stream Restoration	Construct a 2200 linear feet of stream restoration and riparian buffer in the Haymaker Run tributary of Turtle Creek.	Turtle Creek Watershed Association, Inc.	\$142,338	Westmoreland
Watershed Protection	Little Pine Run Restoration	Restore 360 linear feet of an unnamed tributary to Little Pine Run which is a tributary to Sandy Run/Wissahickon Creek.	Upper Dublin Township	\$42,283	Montgomery
Watershed Protection	Conversion of abandoned mine drainage treatment facility	Convert the existing discharge vertical flow pond system into a iron-aluminum-manganese bed type of treatment system.	Washington County Conservation District	\$100,000	Washington
Watershed Protection	Morrison Cove Agriculture BMP Implementation	Several agricultural best management practices in heavy farming area in impaired Yellow Creek watershed.	Western Pennsylvania Conservancy	\$111,566	Multiple
Watershed Protection	Conversion of Two Existing Detention Basins to Naturalized Detention Basins	Retrofit 2 stormwater detention basins to naturalized basins, both of which are township owned.	Whitpain Township	\$60,000	Montgomery

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Watershed Protection	Restoration of Saucon Creek	Construction of a natural stream channel, floodplain and bank restoration design for more than 1000 feet of Saucon Creek and an unnamed tributary located in Northampton County, PA.	Wildlands Conservancy, Inc.	\$325,670	Northampton
Watershed Protection	Sandy Run Wetland Restoration Phase 2	Expand a created wetland area along Bethlehem Pike in Fort Washington.	Wissahickon Valley Watershed Association	\$40,611	Montgomery
Watershed Protection	Keystone College Streambank Stabilization Project	Streambank stabilization demonstration along the South Branch of Tunkhannock Creek.	Wyoming County Conservation District	\$131,680	Multiple
		<i>Total Watershed Projects</i>	36	\$10,004,449	
		<i>Total DEP Projects</i>	79	\$28,161,098.68	