

ARPA Funding Request for Clean Water Projects

This list of clean water projects is a list of priority projects from a must larger list of projects submitted to the ARPA Committee; however it is NOT in priority order and is not exhaustive of the total demand.

These projects have been selected from the longer list according to the BOTH the Commissioners' guidelines for ARPA and potential to achieve the goals of the Countywide Action Plan (CAP). Criteria used for this prioritization – in no particular order – include:

- Last in Funding
- Transformative for the community
- Timeline
- Collaborative, including multi-sector partners
- Part of larger initiative in a watershed
- Efficiency/return on investment
- Pollutant load reductions

Attachments (descriptions, cost estimates, and plans) are enclosed for each of the prioritized projects listed below. Please request more information for any project in which you are interested.

Partnering Organizations	Contact Person Contact Info Role	Project Name	Brief Project Description	Funding Leveraged	Funding Notes	ARPA Request	Total Project Cost	Timeline	Case for Funding
Alliance for the Chesapeake Bay; Mowery Environmental	Adam Mowery Project coordination; design engineer	Ag BMPs in the Bells Run Watershed	Colerain Twp.; Roof Barnyard and Manure Stacking Pad, Animal Walkways, Streambank Fencing, Riparian Forest Buffer, Stream Crossings; Amish farm owner and operator; primarily beef operation & crops.	\$290,580	CEG funding awarded (\$215,580); funding for this project has also been secured from Stroud Water Research Center, Alliance for the Chesapeake Bay, and Octoraro Watershed Association	\$58,406	\$348,986	Starting late Summer/early Fall '22 and finishing Spring '23	Tier 1 catchment landowner that will inspire the rest of the community to also do conservation work, opening the door to access and leverage other implementation dollars lined up like RCPP; great example of "last in" funding to get this project across the finish line
Alliance for the Chesapeake Bay; Mowery Environmental	Adam Mowery Project coordination; design engineer	Poultry Farm BMPs	Fulton Twp.; Roofed Manure Stacking Pad, Roof Gutters, and Underground Outlets; Farm ins an organic broiler operation; the existing riparian forest buffer is being expanded in cooperation with Alliance for the Chesapeake Bay	\$174,435	CEG funding awarded (\$174,435); attached is cost estimate and project description	\$156,805	\$331,240	Starting late May '22 and finishing Spring '23	Great example of "last in" funding for a project that will start immediately
Alliance for the Chesapeake Bay	Mauricio Rosales PA Ag Projects Manager, Alliance for the Chesapeake Bay Project planning and coordination	Esh farm in Paradise	Implementation of Manure stacking (313), 2 Animal walkway (575), Access road (560)	\$25,000	\$10,000 NFWF MEB grant (applied); \$15,000 Growing Greener (received)	\$54,768	\$79,768	Engineering and design completed; will be complete no later than 12/31/2024	Great example of "last in" funding for a project that will start immediately
Lancaster Farmland Trust	Lancaster Farmland Trust	The D.B. Farm: A Shovel Ready Agricultural BMP Implementation Project	A barnyard, manure and stream-related BMP implementation project on a visible farm in East Lampeter Township that includes the construction of 2 heavy-use areas (one roofed), stormwater controls, a new manure storage unit and waste transfer system, a 2-acre buffer, streambank fencing and gates, and 3 stabilized animal accesses.	\$249,000	\$249,000 - DEP Growing Greener Grant (received). Lancaster Farmland Trust cannot access the DEP funding that has already been awarded until they secure match funding. Dollars from the County ARPA fund can serve as that match and would be critical in helping to unlock that funding and leverage even more money for BMP implementations in East Lampeter Township.	\$331,000	\$580,000	Fall 2022.	Truly "last in" funding that will allow this project to happen immediately in a visible area where the municipality is working to be one of the first to use DEP's flexibility for MSA credits on Ag land; County could be supporting multiple local leaders
Conservation Foundation of Lancaster County	Emily Smedley The Lancaster Clean Water Partners' Buffer Action Team oversees the Buffer Establishment Support Team program, including approving the projects, provision of technical assistance, and issuing payment.	Buffer Establishment Support Team (BEST)	The Buffer Establishment Support Team (BEST) provides payment to landowners (at \$750/acre/yr. for 3 years) to establish newly planted riparian buffers	\$350,000	Average cost to install a buffer is \$5,000 acre; funding from various sources and implemented by combination of volunteers and organizations including DCNR, Chesapeake Bay Foundation, NFWF, Stroud, PSU Ag and Environment Center, Lancaster County Conservation District	\$105,000	\$455,000	Agreements will be signed by landowners in 2022 (landowners are already identified and have confirmed they are ready); payments will be made through 12/24 or until funding exhausted, whichever is earlier	Supporting the appropriate establishment of a riparian buffer so maintenance is not a deterrent to other community members inspires more conservation. This line item will achieve immediate goals as well as create more demand for future conservation practices, leveraging future dollars in better ways.
Conestoga River Club & Lower Susquehanna Riverkeeper Association	Todd Roy President, Conestoga River Club	Conestoga Water Trail Rehabilitation Plan	Corridor conservation and free public access improvements plan	\$47,000	\$30,000 PFC Launch Facilities grant (received), \$15,000/ Riverlands mini grant(applied)	\$15,000	\$62,000	By April 2023	Project has multi-agency support and is "last in" funding for work that will guide implementation as well as recreation access in the immediate future
Londonderry Twp. & Mount Joy Twp.; Landstudies, Inc.	Monique Dykman Specialist Londonderry Township, Dauphin County: Lead in project grant funding, scoping, engineering, grant applications, elected official support (state level), meeting scheduling, project direction, partnership development, accounting Mt. Joy Township, Lancaster County: Project funding/planning, grant applications	Conewago Floodplain Restoration	The multi-municipal Conewago Creek Stream Restoration project includes the implementation of stream restoration, legacy sediment removal, floodplain reconnection, and wetland creation that will lead to quantifiable improvements to water quality, promote enhanced ecosystem resiliency and support the goals of the Lancaster County CAP. Due to the extent of the improvements, the project has been divided into three phases. For the purposes of this application, funding is being requested to support Phase 3 of the project. The full Conewago Creek Stream Restoration project proposes 4,877 linear feet (LF) of stream restoration, 2,988 LF of stream creation, 15.2 acres of floodplain restored through reconnection, 125,000 yards of legacy sediment removal and plantings of new riparian forest buffers. The project site is primarily farmland with thin wooded fencerows along portions of the stream. The restoration originates immediately downstream of the Hertzler Rd bridge on Brills Run, and approximately 3,500-LF downstream of the Mill Rd bridge on the mainstem. The restoration continues through the Brills Run-Conewago Creek confluence and downstream through an existing farm bridge to its terminus approximately 750-LF upstream of the PA-230 bridge. https://storymaps.arcgis.com/stories/c3a1e7e257f54ad59b237e1d40417fa9	\$3,400,000	Funding is being provided by the Lancaster Clean Water Fund (\$500,00 from the Large Implementation Grant), DEP's Growing Greener program, National Fish and Wildlife Foundation (NFWF), Mount Joy Township, Londonderry Township, Susquehanna River Basin Commission Consumptive Use Mitigation Grant	\$400,000	\$3,800,000	Phases 1 and 2 underway; Phase 3 will be completed by 12/2024	Transformational project at a watershed scale that addresses local water quality needs in a watershed where collaboration has been driving overall success for years; great example of last in funding; has already been approved and financially supported by multiple state agencies as well as the Clean Water Fund advisors
Ephrata Borough; Landstudies, Inc.	Nancy Harris Borough of Ephrata Project coordinator	Gross Run Stream Restoration	The Gross Run Stream Restoration project will be implemented along 4,400 feet of the main stem of Gross Run and tributaries that discharge to the Cocalico Creek. Gross Run is a major source of sedimentation to the Cocalico Creek; therefore, the Borough is targeting this restoration project to improve water quality as part of their PRP reduction requirements. Of the 4,400-foot reach, 2,834 feet of stream are actively eroding. These areas will require channel realignments and stabilization with grade control structures and native vegetation establishment. On the remaining 1,566 linear feet that is currently more stable, riparian buffer enhancements and plantings will occur to ensure these areas remain stable and to provide continuous habitat along the stream corridor. Water quality improvements from the proposed project will achieve approximately 325,910 pounds of sediment reduction, 372 pounds of total nitrogen reduction, and 171 pounds of total phosphorus reduction annually.	\$1,500,000	Awarded SRBC grant for \$500,000; Ephrata Borough is committing \$1 million from bond funds	\$500,000	\$2,000,000	Construction will start in early 2023 and will be complete in July 2023	Project is already in motion and will have huge local improvements for water quality as well as the community with a large number of individual landowners committed to the project
City of Lancaster	Cody Kiefer Urban Forester, City of Lancaster Project planning and coordination	Urban Forest	Implementation of Trees for People Plan	\$2,150,000	City Bond and grants	\$500,000	\$2,650,000	Spring 2023 - end of 2024; \$1.7 million will be spent through 2024 (including ARPA funding)	Community co-benefits, leveraging a lot of funding, potential for high reductions
Little Conestoga Creek Foundation; Landstudies, Inc. and ELA group	Jason Andrews Project planning and coordination	Blue/Green Corridor - Phase 3 F&M College	A stream and floodplain restoration is being proposed to address water quality and provide increased flood storage capacity. The F&M section of the Little Conestoga Blue/Green Corridor Project includes a 737 LF section of floodplain restoration and reconnection proposed on the eastern sides of the main stem of the Little Conestoga Creek. The project will connect F&M's Spalding Conservancy's created wetland with the Little Conestoga Creek and provide environmental education opportunities as part of the 2.5 mile trail system, proposed as part of the Little Conestoga Creek Blue/Green Corridor project. The floodplain restoration includes 0.96 acres of floodplain reconnection and 0.68 acres of wetland creation, that includes a rich variety of native wetland vegetation and increases biodiversity and habitat along the corridor. The project will result in estimated 2,436 pounds suspended solids annually, 94 lbs nitrogen annually, and 2 lbs phosphorous annually.	\$628,010	The restoration work in the whole Blue/Green Corridor will total approximately \$10 million. Funding for the whole project will be ~ 80% PA DEP, and the remainder DCNR, NFWF, County of Lancaster, and the 4 participating municipalities. For Phase 3, \$137,010 from Growing Greener and Steinman Foundation have funded design/engineering.	\$750,000	\$1,378,010	This project will have a DEP watershed permit by June, 2022 and ready to implement. Phase 3 timeline that will be April 1, 2023 through March 30, 2024	Transformational project at a watershed scale that will be extremely visible; lead by a team where collaboration has been driving success with over 40 landowners and 4 municipalities; great example of last in funding; has already been approved and financially supported by multiple state agencies as well as the Clean Water Fund advisors

Lancaster County Conservation District	Matthew, W. Kofroth, Watershed Specialist Lancaster County Conservation District Project Coordination	Continuous Instream Monitoring	8 Continuous Instream Monitoring Units (CIMS) to be placed in two watersheds, Conestoga and Pequea	\$280,000	Ongoing water monitoring throughout Lancaster County by the Lancaster County Conservation District and volunteers	\$142,200	\$422,200	Spring 2023	Transformational change requires data to tell the story. This item allows us to show the positive direction that all the other line items are taking us. A quality assurance plan is in place and local experts know where and how to place the equipment to start getting results immediately.
SUBTOTAL				\$9,094,025		\$3,013,179	\$12,107,204		
Lancaster Clean Water Partners	Allyson Gibson The Lancaster Clean Water Partners is proposing to manage any awarded ARPA funding through the established Clean Water Fund.	Project Management	Project management (10%) to be included in subgrants to subrecipient organizations for outreach, project coordination, bid process, etc.. This does not include overhead (traditional "administration").			\$301,318	\$301,318		
			Project Management (5%) - staff time for grant management by the Lancaster Clean Water Partners and Lancaster County Conservation District (audits, invoice processing, agreements, communication with County and partners). This does not include overhead (traditional "administration").			\$150,659	\$150,659		
TOTAL				\$9,094,025		\$3,465,156	\$12,559,181		