

Table 1. Synopsis of Quick Respons Projects as of July 17, 2009

QR #	Status	System Name	QR Funding	System Location	BMP Type	System Sponsor	Application Date	Approval Date	Completion Date	System Description	Problem Description	Remedy Description
6001	Complete	JB#2 Abandoned Mine Treatment Facility	\$107,500	Smith Township, Washington County, Raccoon Creek Watershed	AMD Passive Treatment	Washington County Conservation District	07/14/06	09/08/06	12/22/06	Vertical Flow Wetland and settling basin to treat AMD discharge, originally funded by Section 319, OSM, and DEP Penalty assessment.	After one year of operation, iron deposition on top of the mushroom compost caused the system to fail.	Convert the system to a limestone bed which discharges to a settling basin by removing the old compost, adding high calcium carbonate limestone aggregate, and building a dike to create a fore-bay
6002	Complete	Abandoned Mine Drainage Abatement of the Oneida #1 Mine Tunnel Project	\$83,947	East and North Union Townships, Schuylkill County, Sugar Loaf Creek Watershed	AMD Passive Treatment	Schuylkill Conservation District	08/07/06	09/28/06	07/10/07	Series of three buried limestone cells where acidity is neutralized and alkalinity added to discharge.	Hurricane Ivan, during the fall of 2004, caused the emergency spillway of intake dam to become eroded and rendered the water collection system unable to hold water	Redesigned dam breast at intake, reinforced spillway, lined spillway channel, upstream corss vanes, cleaning sediment from settling pond, and a new inlet structure.
7001	Recinded	Tub Mill run Watershed Streambank Restoration Project		Manor Township, Armstrong County, Tub Mill Run Watershed		Manor Township Board of Supervisors	02/27/07	03/09/07		Original project addressed seven (7) problem areas of bank erosion, sedimentation, and debris dams in a highly urbanized drainage basin.	Heavy rainfall in a twenty-four hour period severly damaged two of the sites, dislodging rock rip-rap and causing instability.	Repair the damaged in areas with a precast concrete wall where the rock rip-rap failed and the remainder of the damaged area to be repaired with rock rip-rap of larger size than used initially.
7002	Complete	Bolich Wetland Project	\$1,410	Barry Township, Schuylkill County, Mahanoy Creek Watershed	AMD Passive Treatment	Mahanoy Creek Watershed Association	03/27/07	04/11/07	12/01/07	Original project constructed block and pipe inlet, five block sediment drop out cells, pond area, and rock lined discharge channel.	In June 2006, a flood caused damage to the block inlet and completely buried the sediment chambers.	Dig out five cells, haul away debris, purchase of sand bags, and rental of a three inch trash pump for the cleaning of the sediment traps.

7003	Complete	Kolb Passive Treatment System	\$10,200	Young Township, Indiana County, Blackleggs Creek Watershed	AMD Passive Treatment	Blackleggs Creek Watershed Association	05/15/07	06/05/07	03/20/07	Passive treatment system to remediate an AMD discharge along Blacklegs Creek.	Ruptured pipe is spilling AMD into the stream.	Ruptured pipe to be replaced with a higher quality pipe to prevent future ruptures.
7004	Complete	Benjamin 33 Treatment System	\$2,840	Canoe Township, Indiana County, Little Mahoning Creek Watershed	AMD Passive Treatment	Indiana County Conservation District	05/25/07	06/05/07	08/13/07	Treatment system and wetland built by Americoal to treat an alkaline iron seep.	Sediment filled canal and ponds, and breach in the breast of the wetlands is short-circuiting the system, allowing untreated water to escape the system.	Construction of diversion ditches, removal of sediment and enlarging canal, and repair of breach in the breast of the wetlands area.
7005	Complete	Latrobe Foundation Property Project-Phase II	\$10,400	Unity Township, Westmoreland County, Loyalhanna Creek Watershed	AMD Passive Treatment	Loyalhanna Watershed Association	06/11/07	06/14/07	06/29/07	Plugging of discharges and designing a passive treatment system for the discharges.	Flooding over past two years damaged one wall of the pond resulting in a decrease of treatment.	Repair the damaged northern wall and reconstruct the overflow pond.
7006	Complete	Rattler Mine AMD Project	\$9,981	Morris Township, Tioga County, Babb Creek Watershed	AMD Passive Treatment	Babb Creek Watershed Association, Inc.	07/06/07	07/12/07	08/29/07	Two vertical flow ponds and a wetland, a limestone cell with dosing syphon, and a limestone cell with dosing syphon and a vertical flow pond.	Iron oxide buildup on compost layer, reducing the effectiveness of the system.	Remove the sludge layer from the top of the compost then stir the compost layer to remove any crusting that may have occurred.
7007	Recinded	Penn Hills No. 2 AMD Treatment		Cherryhill Township, Indiana County, TwoLick Sub-watershed of Blacklick Creek watershed.	AMD Passive Treatment	Blacklick Creek Watershed Association	08/23/07	08/27/07		Three passive treatment systems to treat the Penn Hills #2 mine discharge.	Flood events, tree falls, and roadside growth severely impeded monitoring, maintenance, and repairs.	Clean out pipes and culverts, place stone in dip of road, and repair of pond embankment.
7008	Complete	Coal Pit-Lower AMD Treatment	\$9,180	Blacklick Township, Cambria County, Coal Pit Run Sub-watershed of Blacklick Creek Watershed.	AMD Passive Treatment	Blacklick Creek Watershed Association	10/15/07	10/18/07	11/05/07	Bioreactor passive treatment system to remediate an AMD discharge.	Precipitation in August of 2007, caused flooding and subsequent damage to the intake structures and transfer pipe of the lower treatment system causing the	Replace pipeline and cement footer to re-route the AMD back into the bioreactor.

7009A	Complete	Tubmill Run Streambank Restoration Project	\$48,560	Manor Township, Armstrong County, Tub Mill Run Watershed	stream bank stabilization	Manor Township Board of Supervisors	12/14/07	12/21/07	01/02/08	Project addresses problem areas of bank erosion, sedimentation, and debris dams.	Amendment to the original application submitted 10/16/07. Additional work required. Rip rap placed during original project failed and slid into the creek.	Restore the area with larger rip rap (R-6), install type B geo-textile, keying in riprap, and remaining area stored and seeded.
8001	Complete	Bear Creek Mine Drainage Remediation Project (Phase I)	\$48,758	Wiconisco Township, Dauphin County, Wiconisco Creek Watershed	AMD Passive Treatment	Dauphin County Conservation District	05/01/08	05/02/08		Passive Treatment system consisting of three settling basins with appropriate conveyance channels between them.	Storm even on March 6, 2008 resulted in a large amount of water in treatment system resulting in significant damage.	Repairs needed are: diversion of future stormwater, bank repair to two basins, redistribution and replacement of raceway limestone.
8002	Complete	Lowber Passive Treatment System	\$4,824	Sewickly Twp., Westmoreland Co., Sewickley Creek Watershed	AMD Passive Treatment	Sewickley Creek Watershed Assn.	05/21/08	06/23/08	09/21/08	Passive treatment system was installed for the Marchand Mine discharge	A breached berm redirected stream flow into a diversion ditch, resulting in stream flows to adjacent private property	Repair washed-out berm.
8003	Complete	Adams 06 Passive Treatment System (ALD)	\$13,069	Somerset Twp, Somerset Co., Wells Creek Watershed	AMD Passive Treatment	Wells Creek Watershed Assn.	09/08/08	10/09/08	11/18/08	Anoxic Limestone Drain designed to treat 694 GPM	Blockage at inlet prevents full discharge flow to reach and pass through ALD	Find and remove blockage and properly restore system following blockage repair.
8004	Complete	Klondike Mine Construction	\$12,145	Dean & Gallitzin Twps., Cambria Co., Little Laurel Run watershed	AMD Passive Treatment	Clearfield Creek Watershed Assn.	08/20/08	10/01/08	01/23/09	Treatment system of settling pond, vertical flow pond, and an oxidation-settling pond.	Vertical flow pond function being compromised with excessive deposits of iron precipitates.	Removal of additional iron precipitates by constructing two shallow ponds in front of first settling pond, install curtains in settling pond and filter at inflow of VFP.
8005	Complete	Blue Valley AMD Treatment Plant	\$13,091	Horton, Twp., Elk Co., Toby Creek watershed	AMD Active Treatment	Toby Creek Watershed Assn.	09/05/08	10/15/08	10/20/08	500 GPM active treatment system	Two large pumps plugged and worn with iron hydroxide	Clean and repair pumps

8006	Complete	Minersville AMD Passive Treatment System - FeAlMn Bed	\$5,329	Carbon Twp., Huntingdon Co., Shoup's Run watershed	AMD Passive Treatment	Huntingdon Co. Conservation Dist.	10/14/08			Innovative limestone bed known as FeAlMn bed where metal precipitates are purposely collected within the bed	Inability to properly control water level in bed	Additional limestone and Agri-drain valve control box to control water level.
8007	Complete	Passive Treatment of Site 15 Discharge	\$4,870	Coal Twp., Northumberland Co., Shamokin Creek	AMD Passive Treatment	Shamokin Creek Watershed Assn.	11/08/08	12/23/08	05/29/09	Multicell passive treatment using 3 aerobic wetlands and 3 anaerobic vertical flow wetlands.	Frequent clogging (and need for cleaning) by metals precipitation of subsurface intake pipe.	Re-design and retrofit of modified intake system to allow easier cleaning.
9001	Complete	Frick BMPs	\$2,625	Washing Twp., Indiana Co., South Branch Plum Creek	Fish Habitat Improvement Structure	Indiana County Conservation District	12/15/08	01/05/09	05/11/09	17 Fish Habitat Improvement Structures including double log vanes ab rock cross vanes, 2 cattle crossings, and 2800' of fencing	Several logs were washed away down stream during high flow event, causing flooding possibility.	Recover washed away logs, repair and bolster damaged structures.
9002	Complete	Blue Valley AMD Treatment Plant	\$5,000	Horton, Twp., Elk Co., Toby Creek watershed	AMD Active Treatment	Toby Creek Watershed Assn.	02/02/09	03/06/09	04/15/09	500 GPM active treatment system	Failure of aeration blower and motor from overheating	Replace blower and motor.
9003	Complete	Kolb AMD Treatment System	\$9,499	Young Township, Indiana County, Blackleggs Creek Watershed	AMD Passive Treatment	Blackleggs Creek Watershed Assn.	03/23/09	04/02/09	05/18/09	Piped discharge to aeration device and settling ponds	Failure of a portion of pipe conveying alkaline AMD to aeration device and settling ponds.	Replacement of deteriorated pipe. Replacement complicated by site conditions.
9004	Complete	Sporanza II (AKA Big Run #2)	\$31,175	Conemaugh Township, Indiana County, Blackleggs Creek Watershed	AMD Passive Treatment	Blackleggs Creek Watershed Assn.	03/23/09	04/02/09	06/25/09	A 1,200-1,500 GPM aluminum discharge is treated with a limestone pond followed by a settling pond.	Aluminum precipitate is clogging limestone rock and drain, causing backup and secondary damage, and preventing adequate treatment.	Limestone will be removed and cleaned, underdrain pipe modified with new drainage holes, and emergency spillway re-engineered to handle higher flows.

9005	Complete	Rattler Mine AMD Project	\$14,166		AMD Passive Treatment	Babb Creek Watershed Association, Inc.	04/20/09	04/28/09	06/17/09	Two vertical flow ponds and a wetland, a limestone cell with dosing syphon, and a limestone cell with dosing syphon and a vertical flow pond.	Effectiveness of SAPS A reduced from suspected armouring and plugging of iron oxide solids resulting in short circuiting.	Stir limestone in SAPS A and reconfigure that so that SAPS A and B run in series rather than in parallel.
------	----------	--------------------------	----------	--	-----------------------	--	----------	----------	----------	---	---	---

Total **\$448,569**