

Appendices

Appendix 1. BMP Implementation

BMP	Q	U	Date	HUC12	HUC Name
Septic	1.0		Sep-18	050500090608	Browns Creek-Coal River
Nutrient management	14.3	ac	Sep-18	050500030107	Brush Run-Greenbrier River
Erosion control	35.5	ac	Sep-18	050500030107	Brush Run-Greenbrier River
Nutrient management	227.3	ac	Sep-18	050500020701	Burnside Branch
Erosion control	90.5	ac	Sep-18	050500020701	Burnside Branch
Erosion control	145.0	ac	Sep-18	050500030402	Clover Creek-Greenbrier River
Septic	1.0		Sep-18	020700041107	Elks Run
AMD system	1.0		Sep-18	050200030201	Headwaters Deckers Creek
AMD system	1.0		Sep-18	050200030201	Headwaters Deckers Creek
Upflow limestone well	1.0		Sep-18	050200030201	Headwaters Deckers Creek
Catch basin	500.0	sqft	Sep-18	050200030201	Headwaters Deckers Creek
Limestone bed	4,950.0	sqft	Sep-18	050200030201	Headwaters Deckers Creek
Tank/trough	500.0	sqft	Sep-18	050200030201	Headwaters Deckers Creek
Vertical flow treatment	5,372.0	sqft	Sep-18	050200030201	Headwaters Deckers Creek
Nutrient management	130.2	ac	Sep-18	020700010201	Headwaters Lunice Creek
Nutrient management	81.2	ac	Sep-18	020700010101	Laurel Fork-North Fork South Branch
Nutrient management	5.8	ac	Sep-18	050500030901	Laurel Run-Greenbrier River
Erosion control	31.5	ac	Sep-18	050500021002	Lick Creek-Bluestone Lake
Nutrient management	88.8	ac	Sep-18	050500050601	Little Clear Creek
Nutrient management	100.0	ac	Sep-18	050500030407	Locust Creek-Greenbrier River
Channel stabilization	1,900.0	ft	Sep-18	050500030505	Lower Anthony Creek
AMD system	1.0		Sep-18	050200040605	Lower Big Sandy Creek
Limestone bed	7,995.0	sqft	Sep-18	050200040605	Lower Big Sandy Creek
Limestone bed	4,272.0	sqft	Sep-18	050200040605	Lower Big Sandy Creek
Limestone channel	250.0	ft	Sep-18	050200040605	Lower Big Sandy Creek
Nutrient management	104.6	ac	Sep-18	050500020705	Lower Indian Creek
Nutrient management	95.4	ac	Sep-18	050500030703	Lower Second Creek
Erosion control	42.0	ac	Sep-18	050500030703	Lower Second Creek
Nutrient management	4.8	ac	Sep-18	050500050606	Meadow Creek-Meadow River
Nutrient management	32.8	ac	Sep-18	020700030601	Meadow Run-North River
Nutrient management	99.4	ac	Sep-18	050500020704	Middle Indian Creek
Erosion control	34.5	ac	Sep-18	050500020704	Middle Indian Creek
Nutrient management	195.0	ac	Sep-18	050500030702	Middle Second Creek
Erosion control	35.5	ac	Sep-18	050500030702	Middle Second Creek
Nutrient management	42.3	ac	Sep-18	050500050605	Mill Creek-Meadow River
Buffer	3.0	ac	Sep-18	020700040905	Mill Creek-Opequon Creek
Fencing	2,400.0	ft	Sep-18	020700040905	Mill Creek-Opequon Creek
Septic	1.0		Sep-18	020700040905	Mill Creek-Opequon Creek
Nutrient management	118.0	ac	Sep-18	050500030903	Milligan Creek-Greenbrier River
Nutrient management	235.2	ac	Sep-18	050500030408	Muddy Creek
Erosion control	102.0	ac	Sep-18	050500030804	Muddy Creek
Nutrient management	41.4	ac	Sep-18	050500030104	Outlet East Fork Greenbrier River
Nutrient management	21.8	ac	Sep-18	050500030203	Outlet Knapp Creek
Nutrient management	208.0	ac	Sep-18	050500030302	Outlet Spring Creek
Erosion control	11.5	ac	Sep-18	050500030302	Outlet Spring Creek
Nutrient management	179.4	ac	Sep-18	050500020601	Rich Creek
Erosion control	38.5	ac	Sep-18	050500020601	Rich Creek
Erosion control	7.0	ac	Sep-18	050500020702	Rock Camp Creek
Septic	2.0		Mar-18	050500050604	Sewell Creek
Septic	5.0		May-18	050500050604	Sewell Creek

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Septic-pump	10.0		May-18	050500050604	Sewell Creek
Nutrient management	103.2	ac	Sep-18	050500030408	Slabcamp Run-Greenbrier River
Erosion control	41.5	ac	Sep-18	050500030408	Slabcamp Run-Greenbrier River
Erosion control	57.0	ac	Sep-18	020802010401	South Fork Potts Creek
Nutrient management	6.0	ac	Sep-18	050500030406	Stamping Creek-Greenbrier River
Erosion control	327.0	ac	Sep-18	050500030406	Stamping Creek-Greenbrier River
Erosion control	9.5	ac	Sep-18	050500030401	Stitlington Creek
Erosion control	180.0	ac	Sep-18	050500030403	Stoney Creek
Nutrient management	28.2	ac	Sep-18	020802010301	Sweet Springs Creek-Cove Creek
Erosion control	32.5	ac	Sep-18	020802010301	Sweet Springs Creek-Cove Creek
Nutrient management	24.0	ac	Sep-18	050500030404	Thorny Creek-Greenbrier River
Erosion control	3.0	ac	Sep-18	050500030404	Thorny Creek-Greenbrier River
Buffer	3.0	ac	Sep-18	020700040907	Tuscarora Creek
Livestock crossing	2.0		Sep-18	020700040907	Tuscarora Creek
Septic	10.0		Sep-18	020700040907	Tuscarora Creek
Nutrient management	90.4	ac	Sep-18	050500030503	Upper Anthony Creek
Channel stabilization	1,964.0	ft	Sep-18	050500030503	Upper Anthony Creek
Erosion control	19.5	ac	Sep-18	050500020703	Upper Indian Creek
Alternate water	9.0		Mar-18	050500030701	Upper Second Creek
Irrigation pipe	4,308.0	ft	Mar-18	050500030701	Upper Second Creek
Pump plant	2.0		Mar-18	050500030701	Upper Second Creek
Well	2.0		Mar-18	050500030701	Upper Second Creek
Fencing	820.0	ft	Sep-18	050500030701	Upper Second Creek
Heavy use area	4,275.0	sqft	Mar-18	050500030701	Upper Second Creek
Nutrient management	232.4	ac	Sep-18	050500030701	Upper Second Creek
Buffer	4.0	ac	Sep-18	020700040201	Upper Sleepy Creek
Infiltration basin	3.0	ac	Sep-18	020700040201	Upper Sleepy Creek
Septic	4.0		Mar-18	020700040201	Upper Sleepy Creek
Nutrient management	62.4	ac	Sep-18	050500050101	Upper Williams River
Nutrient management	147.3	ac	Sep-18	050500030904	Wolf Creek
Erosion control	16.0	ac	Sep-18	050500030904	Wolf Creek
Outreach/education	11,431			Statewide	WV Conservation Agency
Outreach/education	5,117			Statewide	DEP-Project WET
Outreach/education	3,400			Statewide	DEP-Save Our Streams
Outreach/education	700+			CB-region	DEP-Stormwater

Priority areas	
Statewide/other	

Appendix 2. Pollutant load reductions

Pollutant	Q	U	Date	HUC12	HUC name
Coliform	1.48E+13	cfu	Sep-18	050500090608	Browns Creek-Coal River
Coliform	1.58E+12	cfu	Sep-18	050500030107	Brush Run-Greenbrier River
Phosphorus	866.4	lbs/yr	Sep-18	050500030107	Brush Run-Greenbrier River
Sediment	106.5	tons/yr	Sep-18	050500030107	Brush Run-Greenbrier River
Coliform	1.89E+12	cfu	Sep-18	050500020701	Burnside Branch
Nitrogen	4,617.3	lbs/yr	Sep-18	050500020701	Burnside Branch
Phosphorus	1,048.8	lbs/yr	Sep-18	050500020701	Burnside Branch
Phosphorus	820.8	lbs/yr	Sep-18	050500020701	Burnside Branch
Sediment	271.5	tons/yr	Sep-18	050500020701	Burnside Branch
Coliform	2.52E+12	cfu	Sep-18	050500030402	Clover Creek-Greenbrier River
Phosphorus	1,094.4	lbs/yr	Sep-18	050500030402	Clover Creek-Greenbrier River

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Sediment	435.0	tons/yr	Sep-18	050500030402	Clover Creek-Greenbrier River
Coliform	1.64E+12	cfu	Sep-18	020700041107	Elks Run
Acidity	14,121.0	lbs/yr	Sep-18	050200030201	Headwaters Deckers Creek
Acidity	28,314.2	lbs/yr	Dec-18	050200030201	Headwaters Deckers Creek
Metals-Al	4,695.0	lbs/yr	Sep-18	050200030201	Headwaters Deckers Creek
Metals-Al	673.9	lbs/yr	Dec-18	050200030201	Headwaters Deckers Creek
Metals-Fe	9,580.0	lbs/yr	Sep-18	050200030201	Headwaters Deckers Creek
Metals-Fe	2,563.1	lbs/yr	Dec-18	050200030201	Headwaters Deckers Creek
Nitrogen	13,020.0	lbs/yr	Sep-18	020700010201	Headwaters Lunice Creek
Nitrogen	6,496.0	lbs/yr	Sep-18	020700010101	Laurel Fork-North Fork South Branch
Phosphorus	6,090.0	lbs/yr	Sep-18	020700010101	Laurel Fork-North Fork South Branch
Nitrogen	200.8	lbs/yr	Sep-18	050500030901	Laurel Run-Greenbrier River
Phosphorus	45.6	lbs/yr	Sep-18	050500030901	Laurel Run-Greenbrier River
Coliform	6.30E+11	cfu	Sep-18	050500021002	Lick Creek-Bluestone Lake
Phosphorus	273.6	lbs/yr	Sep-18	050500021002	Lick Creek-Bluestone Lake
Sediment	94.5	tons/yr	Sep-18	050500021002	Lick Creek-Bluestone Lake
Nitrogen	2,409.0	lbs/yr	Sep-18	050500050601	Little Clear Creek
Phosphorus	547.2	lbs/yr	Sep-18	050500050601	Little Clear Creek
Nitrogen	6,022.5	lbs/yr	Sep-18	050500030407	Locust Creek-Greenbrier River
Phosphorus	1,368.0	lbs/yr	Sep-18	050500030407	Locust Creek-Greenbrier River
Sediment	15.0	tons/yr	Sep-18	050500030505	Lower Anthony Creek
Acidity	2,093.0	lbs/yr	Nov-18	050200040605	Lower Big Sandy Creek
Metals-Al	52.4	lbs/yr	Nov-18	050200040605	Lower Big Sandy Creek
Metals-Fe	138.9	lbs/yr	Nov-18	050200040605	Lower Big Sandy Creek
Metals-Mg	6,343.0	lbs/yr	Nov-18	050200040605	Lower Big Sandy Creek
Nitrogen	6,424.0	lbs/yr	Sep-18	050500020705	Lower Indian Creek
Phosphorus	1,459.2	lbs/yr	Sep-18	050500020705	Lower Indian Creek
Coliform	1.47E+12	cfu	Sep-18	050500030703	Lower Second Creek
Nitrogen	4,417.5	lbs/yr	Sep-18	050500030703	Lower Second Creek
Phosphorus	1,003.2	lbs/yr	Sep-18	050500030703	Lower Second Creek
Phosphorus	638.4	lbs/yr	Sep-18	050500030703	Lower Second Creek
Sediment	126.0	tons/yr	Sep-18	050500030703	Lower Second Creek
Phosphorus	91.2	lbs/yr	Sep-18	050500050606	Meadow Creek-Meadow River
Nitrogen	3,300.0	lbs/yr	Sep-18	020700030601	Meadow Run-North River
Phosphorus	1,135.0	lbs/yr	Sep-18	020700030601	Meadow Run-North River
Coliform	3.78E+12	cfu	Sep-18	050500020704	Middle Indian Creek
Nitrogen	3,613.5	lbs/yr	Sep-18	050500020704	Middle Indian Creek
Nitrogen	3,613.3	lbs/yr	Sep-18	050500030903	Middle Indian Creek
Phosphorus	820.8	lbs/yr	Sep-18	050500020704	Middle Indian Creek
Phosphorus	1,641.6	lbs/yr	Sep-18	050500020704	Middle Indian Creek
Phosphorus	1,368.0	lbs/yr	Sep-18	050500030903	Middle Indian Creek
Phosphorus	820.8	lbs/yr	Sep-18	050500030903	Middle Indian Creek
Phosphorus	547.2	lbs/yr	Sep-18	050500030903	Middle Indian Creek
Sediment	103.5	tons/yr	Sep-18	050500020704	Middle Indian Creek
Sediment	21.0	tons/yr	Sep-18	050500030903	Middle Indian Creek
Coliform	1.58E+12	cfu	Sep-18	050500030702	Middle Second Creek
Nitrogen	7,427.8	lbs/yr	Sep-18	050500030702	Middle Second Creek
Phosphorus	1,687.2	lbs/yr	Sep-18	050500030702	Middle Second Creek
Phosphorus	684.0	lbs/yr	Sep-18	050500030702	Middle Second Creek
Sediment	106.5	tons/yr	Sep-18	050500030702	Middle Second Creek
Nitrogen	1,606.0	lbs/yr	Sep-18	050500050605	Mill Creek-Meadow River
Coliform	1.64E+12	cfu	Sep-18	020700040905	Mill Creek-Opequon Creek
Coliform	1.26E+12	cfu	Sep-18	050500030903	Milligan Creek-Greenbrier River

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Coliform	2.21E+12	cfu	Sep-18	050500030804	Muddy Creek
Nitrogen	5,621.0	lbs/yr	Sep-18	050500030804	Muddy Creek
Phosphorus	1,276.8	lbs/yr	Sep-18	050500030804	Muddy Creek
Phosphorus	957.6	lbs/yr	Sep-18	050500030804	Muddy Creek
Sediment	306	tons/yr	Sep-18	050500030804	Muddy Creek
Nitrogen	803.0	lbs/yr	Sep-18	050500030104	Outlet East Fork Greenbrier River
Phosphorus	182.4	lbs/yr	Sep-18	050500030104	Outlet East Fork Greenbrier River
Nitrogen	401.5	lbs/yr	Sep-18	050500030203	Outlet Knapp Creek
Nitrogen	401.5	lbs/yr	Sep-18	050500050605	Outlet Knapp Creek
Phosphorus	91.2	lbs/yr	Sep-18	050500030203	Outlet Knapp Creek
Phosphorus	364.8	lbs/yr	Sep-18	050500050605	Outlet Knapp Creek
Coliform	4.20E+11	cfu	Sep-18	050500030302	Outlet Spring Creek
Nitrogen	11,242.0	lbs/yr	Sep-18	050500030302	Outlet Spring Creek
Phosphorus	2,553.6	lbs/yr	Sep-18	050500030302	Outlet Spring Creek
Phosphorus	182.4	lbs/yr	Sep-18	050500030302	Outlet Spring Creek
Sediment	34.5	tons/yr	Sep-18	050500030302	Outlet Spring Creek
Coliform	8.40E+11	cfu	Sep-18	050500020601	Rich Creek
Nitrogen	3,613.5	lbs/yr	Sep-18	050500020601	Rich Creek
Phosphorus	820.8	lbs/yr	Sep-18	050500020601	Rich Creek
Phosphorus	364.8	lbs/yr	Sep-18	050500020601	Rich Creek
Sediment	115.5	tons/yr	Sep-18	050500020601	Rich Creek
Coliform	5.25E+11	cfu	Sep-18	050500020702	Rock Camp Creek
Phosphorus	228.0	lbs/yr	Sep-18	050500020702	Rock Camp Creek
Sediment	21	tons/yr	Sep-18	050500020702	Rock Camp Creek
Coliform	8.66E+15	cfu	May-18	050500050604	Sewell Creek
Coliform	3.28E+12	cfu	Mar-18	050500050604	Sewell Creek
Coliform	2.94E+12	cfu	Sep-18	050500030401	Stitlington Creek
Phosphorus	1,276.8	lbs/yr	Sep-18	050500030401	Stitlington Creek
Sediment	28.5	tons/yr	Sep-18	050500030401	Stitlington Creek
Coliform	1.68E+12	cfu	Sep-18	050500030408	Slabcamp Run-Greenbrier River
Nitrogen	4,416.5	lbs/yr	Sep-18	050500030408	Slabcamp Run-Greenbrier River
Phosphorus	1,003.2	lbs/yr	Sep-18	050500030408	Slabcamp Run-Greenbrier River
Phosphorus	729.6	lbs/yr	Sep-18	050500030408	Slabcamp Run-Greenbrier River
Sediment	133.5	tons/yr	Sep-18	050500030408	Slabcamp Run-Greenbrier River
Coliform	4.20E+12	cfu	Sep-18	020802010401	South Fork Potts Creek
Phosphorus	182.4	lbs/yr	Sep-18	020802010401	South Fork Potts Creek
Sediment	171.0	tons/yr	Sep-18	020802010401	South Fork Potts Creek
Coliform	2.32E+12	cfu	Sep-18	050500030406	Stamping Creek-Greenbrier River
Nitrogen	401.5	lbs/yr	Sep-18	050500030406	Stamping Creek-Greenbrier River
Phosphorus	1,003.2	lbs/yr	Sep-18	050500030406	Stamping Creek-Greenbrier River
Phosphorus	91.2	lbs/yr	Sep-18	050500030406	Stamping Creek-Greenbrier River
Sediment	777.0	tons/yr	Sep-18	050500030406	Stamping Creek-Greenbrier River
Coliform	1.58E+12	cfu	Sep-18	050500030403	Stony Creek
Phosphorus	684.0	lbs/yr	Sep-18	050500030403	Stony Creek
Sediment	180.0	tons/yr	Sep-18	050500030403	Stony Creek
Coliform	4.20E+11	cfu	Sep-18	020802010301	Sweet Springs Creek-Cove Creek
Nitrogen	2,007.5	lbs/yr	Sep-18	020802010301	Sweet Springs Creek-Cove Creek
Phosphorus	456.0	lbs/yr	Sep-18	020802010301	Sweet Springs Creek-Cove Creek
Phosphorus	182.4	lbs/yr	Sep-18	020802010301	Sweet Springs Creek-Cove Creek
Sediment	97.5	tons/yr	Sep-18	020802010301	Sweet Springs Creek-Cove Creek
Coliform	2.10E+12	cfu	Sep-18	050500030404	Thorny Creek-Greenbrier River
Nitrogen	401.5	lbs/yr	Sep-18	050500030404	Thorny Creek-Greenbrier River
Phosphorus	91.2	lbs/yr	Sep-18	050500030404	Thorny Creek-Greenbrier River

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Sediment	9.0	tons/yr	Sep-18	050500030404	Thorny Creek-Greenbrier River
Coliform	3.14E+13	cfu	Nov-18	020700040907	Tuscarora Creek
Nitrogen	1,204.5	lbs/yr	Sep-18	050500030503	Upper Anthony Creek
Phosphorus	273.6	lbs/yr	Sep-18	050500030503	Upper Anthony Creek
Sediment	10.0	tons/yr	Sep-18	050500030503	Upper Anthony Creek
Coliform	6.30E+11	cfu	Sep-18	050500020703	Upper Indian Creek
Phosphorus	273.6	lbs/yr	Sep-18	050500020703	Upper Indian Creek
Sediment	58.5	tons/yr	Sep-18	050500020703	Upper Indian Creek
Coliform	4.37E+12	cfu	Mar-18	050500030701	Upper Second Creek
Nitrogen	8,350.0	lbs/yr	Mar-18	050500030701	Upper Second Creek
Nitrogen	8,833.0	lbs/yr	Sep-18	050500030701	Upper Second Creek
Nitrogen	1,405.3	lbs/yr	Sep-18	050500030701	Upper Second Creek
Phosphorus	1,896.0	lbs/yr	Mar-18	050500030701	Upper Second Creek
Phosphorus	2,006.4	lbs/yr	Sep-18	050500030701	Upper Second Creek
Phosphorus	319.2	lbs/yr	Sep-18	050500030701	Upper Second Creek
Sediment	70.9	tons/yr	Mar-18	050500030701	Upper Second Creek
Coliform	8.3E+12	cfu	Mar-18	020700040201	Upper Sleepy Creek
Coliform	6.39E+13	cfu	Nov-18	020700040201	Upper Sleepy Creek
Nitrogen	2,609.8	lbs/yr	Sep-18	050500050101	Upper Williams River
Phosphorus	592.8	lbs/yr	Sep-18	050500050101	Upper Williams River
Coliform	6.30E+11	cfu	Sep-18	050500030904	Wolf Creek
Nitrogen	6,022.5	lbs/yr	Sep-18	050500030904	Wolf Creek
Phosphorus	1,367.6	lbs/yr	Sep-18	050500030904	Wolf Creek
Phosphorus	273.6	lbs/yr	Sep-18	050500030904	Wolf Creek

Priority areas	
Statewide/other	

Appendices

Appendix 3. Watershed plan summaries

Plan Name	Deckers Creek		Plan date	2005/2015	Project Tracking						
Project Name	HUC12 BASINS	Stream	Best Management Practices	#	Pollutants	LRs	Units	319 funds	Other funds	Total	FY
Valley Point #12	Headwaters Deckers Creek	WVM-8	Land Reconstruction, AML	1	Metals (Aluminum)	9,400	lbs/yr	\$150,301	\$103,248	\$253,549	2005
					Metals (Iron)	45,400	lbs/yr				
Valley Highwall #3/	Headwaters Deckers Creek	WVM-8-I	AMD-Limestone Open Channel	2	Metals (Aluminum)	1,600	lbs/yr	\$237,694	\$161,775	\$399,469	2007
Kanes Creek South #1	Headwaters Deckers Creek		AMD-Constructed Wetland	2	Metals (Iron)	4,400	lbs/yr				
			AMD-Sulfate Reducing Bioreactor	1							
Kanes Creek South #3/	Headwaters Deckers Creek	WVM-8-I	AMD-Limestone Open Channel	2	Acidity	73,800	lbs/yr	\$300,000	\$210,000	\$510,000	2008
			AMD-Constructed Wetland	2	Metals (Aluminum)	17,000	lbs/yr				
Reed mine	Outlet Deckers Creek	WVM-8-I	AMD-Steel Slag Treatment	2	Metals (Iron)	15,200	lbs/yr				
			AMD-Limestone Leach Bed/Pond	1							
			AMD-Constructed Wetland	2	Acidity	82,000	lbs/yr	\$211,800	\$140,700	\$352,500	2010
Slabcamp mainstem	Headwaters Deckers Creek	WVM-8-F	AMD-Limestone Open Channel	1	Metals (Aluminum)	7,800	lbs/yr				
			AMD-Vertical Flow Treatment	4	Metals (Iron)	5,400	lbs/yr				
			AMD-Constructed Wetland	1	Acidity	77,000	lbs/yr	\$298,925	\$209,340	\$508,265	2011
Sandy Run	Headwaters Deckers Creek		AMD-Limestone Open Channel	2	Metals (Aluminum)	8,400	lbs/yr				
					Metals (Iron)	2,000	lbs/yr				
			AMD-Limestone Leach Bed/Pond	2	Acidity	63,000	lbs/yr	\$274,089	\$185,726	\$459,815	2012
Slabcamp tributary	Headwaters Deckers Creek	WVM-8-F-1	AMD-Limestone Open Channel	2	Metals (Aluminum)	3,800	lbs/yr				
					Metals (Iron)	5,000	lbs/yr				
Kanes Creek south upgrade	Headwaters Deckers Creek	WVM-8-I	Catch Basin-Leaching	1	Acidity	28,314	lbs/yr	\$112,750	\$74,200	\$186,950	2014
			Tank/ Trough	1	Metals (Iron)	2,563	lbs/yr				
			AMD-Limestone Leach Bed/Pond	2	Acidity	14,212	lbs/yr				
Valley Pt-12 upgrade	Headwaters Deckers Creek	WVM-8-I	AMD-Vertical Flow Treatment	1	Metals (Aluminum)	4,695	lbs/yr	\$163,000	\$107,800	\$270,800	2014
					Metals (Iron)	9,680	lbs/yr				
Total Metals						142,338	lbs/yr			Total \$	\$2,941,348
Acidity						338,326	lbs/yr				

Table 8. Deckers Creek watershed plan tracker

Plan Name	Wolf Creek		Plan date	2009/2013	Project tracking							
Project Name	HUC code	Stream code	Best Management Practices	#	Pollutants	LRs	Units	319 funds	Other funds	Total	FY	
Summerlee Phase 1	050500040304	WVKN-10-M	Land Reconstruction, AML	Multiple	Acidity	109,447	lbs/yr	\$54,456	\$36,304	\$90,760	2010	
			AMD-Passive Treatment		Metals (Aluminum)	7,731	lbs/yr					
			AMD-Constructed Wetland		1	Metals (Iron)	27,239	lbs/yr				
			AMD-Limestone Open Channel		1	Metals (Manganese)	3,751	lbs/yr				
Fayette Square	050500040304	WVKN-10	Urban Infiltration Basin	4	Oil and Grease	67	%	\$83,553	\$56,066	\$139,619	2012	
			Urban Grassed Swale	4	Chemical Oxygen	1						
			Urban Infiltration Trench	4	Suspended solids	406	lbs/yr					
					Nutrients	9	lbs/yr					
Summerlee Phase 1.2	050500040304	WVKN-10-M	AMD-Constructed Wetland	1	Acidity	91,409	lbs/yr	\$29,733	\$66,120	\$95,853	2013	
			AMD-Limestone Open Channel	1	Metals (Aluminum)	3,323	lbs/yr					
					Metals (Iron)	17,010	lbs/yr					
Summerlee Phase 2	50500040304	WVKN-10-M			Metals (Manganese)	1,549	lbs/yr					
			AMD-Limestone Open Channel	2	Acidity	123,064	lbs/yr	\$163,412	\$140,108	\$303,520	2015	
			AMD-Vertical Flow Treatment	2	Metals (Aluminum)	7,500	lbs/yr					
					Metals (Iron)	34,990	lbs/yr					
					Metals (Manganese)	2,992	lbs/yr					
Total Metals						106,085	lbs/yr			Total \$	\$629,752	
Total Acidity						323,920	lbs/yr					
Other pollutants						415	lbs/yr					

Table 9. Wolf Creek watershed plan tracker

Appendices

Appendix 4. Project status

2014	NPS#	End-date	319-funds	Spent	Basin
Nonpoint funds \$752,973					
DEP			\$483,811	\$324,775	SW
WVCA	1479	30-Sep-14	\$200,000	\$199,957	SW
Watershed Plan Tracking EPA in-kind			\$10,000	\$10,000	
WVRC monitoring AGO	1499	30-Apr-15	\$20,000	\$20,000	SW
Lattas Stormwater	1516	31-Dec-15	\$34,600	\$34,600	W
App WS stream monitoring - Mt. Inst.	1544	30-Sep-17	\$20,000	\$20,000	SW
FOB restoration planning	1546	30-Sep-17	\$10,000	\$10,000	N
WVRC WQ monitoring	1547	30-Sep-17	\$20,000	\$20,000	SW
Source Water Protection Planning - Fayette County	1551	30-Sep-17	\$10,000	\$10,000	S
Lamberts Run WBP	1568	30-Sep-18	\$56,043	\$56,041	N
WCD lunch 2017 - WVCA	1580	30-Sep-18	\$1,748	\$1,748	
TMI Experienced Learning	1595	30-Sep-17	\$20,000	\$20,000	SW
WVCA Back Creek Porous Pavers	1601	30-Sep-17	\$20,000	\$20,000	P
FOC DIY Data Loggers	1655	30-Sep-18	\$5,750	\$3,889	N
Watershed project funds \$997,149					
Sovern England AMD - FOC	1500	30-Sep-17	\$252,368	\$216,831	N
Greens Run Railroad Refuse	1527	31-Dec-16	\$105,000	\$98,485	N
Kanes Creek South Upgrade	1502	30-Sep-17	\$122,750	\$120,874	N
Revitalization of Valley Point 12	1503	30-Sep-16	\$163,100	\$163,088	N
Sleepy Creek - Phase 3	1504	30-Sep-17	\$74,600	\$74,600	P
Milligan Creek / Davis Springs 2	1505	30-Sep-16	\$150,000	\$150,000	S
Finley Run - FOB	1569	30-Sep-17	\$5,402	\$5,402	
Meadow River Sewell Creek Septics - WVCA	1570	30-Sep-17	\$53,100	\$32,898	S
Coketon Mine FOB	1615	30-Sep-17	\$69,988	\$69,988	N
2015					
Nonpoint funds \$619,631					
DEP			\$278,986	\$279,364	SW
WVCA	1523	30-Sep-16	\$116,000	\$95,192	SW
Watershed Plan Tracking EPA in-kind					
FOC Big Sandy WS planning	1531	30-Jun-18	\$84,000	\$75,557	N
Opequon Ck Tree Maintenance Intern	1528	30-Sep-17	\$3,000	\$3,000	P
FODC Clean Creek Program	1545	30-Sep-17	\$12,000	\$12,000	N
WVRC Source Water Protection Planning	1548	30-Sep-17	\$15,000	\$15,000	SW
Hursher's Run Monitoring - Hughes River	1549	30-Sep-17	\$1,282	\$1,282	W
AMD and WW research - WVU	1550	30-Sep-17	\$18,000	\$17,994	N
Friends of Hughes Source Water Monitoring	1607	30-Sep-17	\$20,000	\$20,000	W
Piney Creek WSA Pet Waste Campaign	1600	30-Jun-18	\$4,000	\$4,000	S
WVCA Anthony Creek stream stabilization	1602	30-Sep-17	\$20,000	\$20,000	S
WV DOF WVU LSCA	1616	30-Sep-18	\$10,310	\$10,000	N
FOC Cheat River Bacteria Monitoring	1636	30-Sep-18	\$11,125	\$10,150	N
FOH Baseline monitoring balance of Hursher's Run	1651	30-Apr-19	\$4,622		W
Experience Learning	1678	31-Jul-19	\$20,000		SW
Watershed project funds \$1,017,378					
Tuscarora Creek Phase 2 - CVI	1540	30-Jun-19	\$56,523	\$38,749	P
Mill Creek Opequon Phase 2 - CVI	1541	30-Jun-19	\$161,801	\$77,158	P
Morris Creek Upper Mainstem	1529	31-Dec-17	\$49,265	\$48,664	W
Pase Active Treatment - FOC	1530	31-Dec-18	\$101,387	\$87,587	N
Valley Highwall Upgrade - FODC	1532	30-Jun-19	\$170,500	\$22,260	N

Appendices

Summerlee - Phase 2	1534	1-Dec-16	\$163,412	\$163,412	S
YMCA land restoration - Piney Creek	1535	30-Jun-18	\$20,145	\$19,141	S
Elks Run Watershed Phase 2 - WVCA	1536	30-Jun-19	\$68,200	\$17,211	P
Herods Run, Buckhannon - WVU	1533	30-Jun-19	\$226,145	\$144,403	N

2016

Nonpoint funds		\$647,510			
DEP			\$420,448	\$293,170	SW
WVCA	1580	30-Sep-18	\$131,062	\$33,379	SW
Watershed Plan Tracking EPA in-kind			\$10,000	\$10,000	
NF Greens Run WBP - FY 15 carryover	1581	30-Sep-19	\$25,516	\$15,475	N
Muddy Creek WBP - FY 15 carryover	1582	30-Sep-19	\$60,484	\$26,390	N
Friends of Blackwater monitoring	1596	30-Jun-18	\$12,986	\$12,406	N
FODC clean creek program	1597	30-Jun-18	\$12,000	\$2,262	N
FOC state of the watershed	1598	30-Jun-18	\$15,000	\$14,275	N
Goodnews Mtneer Garage rain gardens	1599	1-Dec-17	\$3,000	\$2,906	W
WVRC volunteer monitoring	1603	30-Sep-17	\$18,000	\$18,000	SW
WVRC Source Water Community Engagement	1604	30-Sep-17	\$17,000	\$17,000	SW
FODC Kanes Creek Study	1639	30-Sep-19	\$13,350		N
WVRC Capacity Building for WSAs	1634	30-Sep-19	\$4,450	\$1,346	SW
WVRC WV TU WVCA monitoring program	1635	30-Sep-18	\$8,900	\$8,900	SW
WVCA Howards Creek Improvements	1637	30-Sep-18	\$13,350	\$11,388	S
CVI ALIVE education	1638	30-Sep-19	\$4,461	\$1,404	N
City of Charleston Rain Barrel Kits	1648	31-Jul-18	\$4,075	\$3,950	W
Rain Barrels			\$1,885		
WVCA Sleepy Creek septic mini grant	1677	30-Sep-21	\$21,000		P
Watershed project funds		\$1,099,895			
Browns Creek - Coal River	1583		\$8,381	\$8,381	W
Beaver Creek AMD - FOC	1584	30-Sep-19	\$175,100	\$67,399	N
Sandy Run Renovation - FODC	1585	30-Jun-20	\$223,500	\$7,224	N
Beckley Little League - PCWA	1586	30-Sep-18	\$54,291	\$37,001	S
Second Creek WSA - WVCA	1587	30-Sep-18	\$127,600	\$127,600	S
Back Creek - WVCA	1588	30-Sep-18	\$209,450		P
Swamp Run #2 - WRI	1589	30-Jun-20	\$183,954	\$46,039	N
Browns Creek - Coal River thru WVCA	1619	31-Dec-19	\$94,000	\$43,330	W

2017

Nonpoint funds		\$743,531			
DEP			\$407,667	\$324,282	SW
WVCA	1605	30-Sep-19	\$191,500		SW
Watershed Plan Tracking EPA in-kind			\$10,000	\$10,000	
WV Rivers Coalition	1610	30-Sep-19	\$100,000	\$20,729	SW
WV Fork WBP - Dunkard Creek	1653		\$24,000		
Beaver Creek WBP - FOB	1647	30-Sep-19	\$10,364	\$1,610	N
WVRC Building capacity for WSAs	1668	31-Dec-19	\$5,000		SW
WVRC water quality monitoring	1669	30-Sep-20	\$10,000		SW
FOB Targeted Analysis of Beaver Creek	1670	30-Sep-20	\$9,000		N
GWF Lamberts Run Study	1671	31-Dec-19	\$9,000		N
WVU Fisheries in treated AMD trib	1672	31-Dec-20	\$12,000		N
Piney Creek monitoring and education	1673	30-Sep-20	\$4,000	\$4,000	S
Morris Creek Lavender Patch	1674	30-Sep-20	\$5,000		W
FODC evaluating coliform	1675	30-Sep-20	\$12,000		N
FOC state of the watershed 2018	1676	30-Sep-20	\$9,000		N
Watershed project funds		\$1,115,279			
Summerlee AMD Phase 3A - PAN	1611	31-Dec-19	\$169,392		S

Appendices

New River Drive Soil Erosion - Piney Ck	1612	30-Sep-18	\$32,500		S
Morris Creek Rd and Stream Restoration	1613	30-Sep-20	\$72,000	\$67,000	W
Muddy Creek Dream Mountain Improvements - FOC	1633	30-Sep-20	\$176,800	\$1,397	N
Hartman Run AMD - FODC	1641	30-Sep-20	\$185,000		N
WALD treatment - Phase 1 - FOB	1632	30-Sep-19	\$149,594	\$16,388	N
Cane Fork Treatment - Phase 1 - WVU	1642	30-Sep-20	\$155,882	\$16,076	W
Spring Creek - Phase 1 - WVCA	1643	30-Apr-21	\$180,000		S

2018

Nonpoint funds		\$513,417			
DEP			\$332,662	\$289,611	SW
WVCA	1646	30-Sep-19	\$95,750		SW
Watershed Plan Tracking EPA in-kind			\$10,000	\$10,000	
Watershed project funds		\$1,347,125			
WALD Passive Treatment 2 - FOB	1680	31-Dec-20	\$134,000		N
Beaver Creek McElroy Seep - FOC	1681	30-Sep-21	\$130,000		N
Dillan Creek Remediation 1 - FODC	1682	30-Sep-20	\$207,000		N
Summerlee AMD Treatment 3B - PAN	1683	30-Sep-20	\$186,894		S
Barlow Portal 1 - WVU	1684	30-Sep-21	\$212,716		N
Woodrow Wilson HS Stream Restoration - Piney	1685	30-Sep-19	\$60,000		S
Upper Indian Creek - WVCA	1650	30-Sep-21	\$100,000		S
Second Creek Tall Hickory Farms - WVCA	1686	30-Sep-21	\$100,000		S
Back Creek Protection - WVCA	1687	30-Sep-20	\$216,515		P

Legend

- BC regions N Northern
- P Potomac
- W Western
- S Southern
- Statewide SW 2018 completed projects

Appendix 5. West Virginia’s 2019 §319 Grant

Table 10. 2019 §319 grant proposal

Org	Nonpoint Funds	§319	Match	Total	
WVDEP	WVDEP NPS Program	\$404,932	\$279,535	\$684,467	
WVCA	WVCA NPS Program	\$65,000	\$43,333	\$108,333	
WVRC	Integrating SWP and WBP (Phase 2)	\$80,000	\$53,506	\$133,506	
EPA	USEPA watershed tracking	\$10,000	\$6,667	\$16,667	
	Total Nonpoint	\$559,932	\$383,041	\$942,973	32%
	Watershed Project Funds				
FOC	Sovern Tom Clark Passive Treatment	\$152,000	\$105,000	\$257,000	
FODC	Marilla Park Restoration	\$118,121	\$83,230	\$201,351	
FODC	Slabcamp Run Remediation Phase 1	\$207,778	\$150,827	\$358,605	
WVU	Roaring Creek - North Portal	\$262,195	\$174,976	\$437,171	
PCWA	Creasant Elementary Retrofit	\$90,000	\$59,000	\$149,000	
WVCA	Burnside Branch - Indian Creek	\$121,770	\$81,147	\$202,917	
WVCA	Mill Creek - Meadow River	\$111,200	\$77,200	\$188,400	
WVCA	Second Creek Karst III	\$127,000	\$84,667	\$211,667	
	Total Watershed	\$1,190,064	\$816,047	\$2,006,111	68%
	Total Grant	\$1,749,996	\$1,199,088	\$2,949,084	

West Virginia’s 2019 §319 workplans consist primarily of continuous work in priority watersheds.

Watershed project funds focus on reducing the impacts of metals and acidity in the lower Cheat, Roaring Creek and Deckers Creek basins, sediment in Deckers Creek, sediment and bacteria in the Piney Creek basin, and agricultural projects targeting bacteria in the Indian Creek, Meadow River and Second Creek basins. Our Nonpoint funds will support a second phase of the WBP/SWP integration and statewide program administration.

Sub-grantees in 2019 will include WVCA, WVRC, FOC, FODC, PCWA, STTWA and WVU-NMLRC.