

The Effects of Subsidence Resulting from Underground Bituminous Coal Mining on Surface Structures and Features and on Water Resources, 2003 to 2008 – University of Pittsburgh

APPENDIX F1 - Summary of Re-Survey of Problem Streams from the 2nd Assessment Period.

Mine Name	WRDS Stream Code	Stream Name	Surveyed	Taxa Richness	Trichoptera Richness	%EPT	Intolerant Taxa Richness	FC + PR Richness	Total Biological Score
Bailey	32500	Stone Coal Run	For flow on August 18, 2009						
Bailey	32511	UT to Dunkard Fork	TBS on May 5, 2009	75.4	19.1	63.3	62.5	74.1	58.9
Bailey	32513	Crabapple Creek	The area deemed impacted in the 2003 report could not be determined.						
Bailey	32600	Kent Run	TBS on April 28, 2009	55.7	38.1	95.8	50.0	51.9	58.3
Bailey	32650	Robinson Fork	For flow on August 13, 2009						
Bailey	32652	UT to Robinson Fork	For flow on August 27, 2009						
Bailey	32653	UT to Robinson Fork	Desired segment/stream could not be located in the field; resolution determined from stream investigation files						
Bailey	N/A	UT to Dunkard Fork	Desired segment/stream could not be located in the field; resolution determined from stream investigation files						
Bailey	N/A	UT to Robinson Fork	Desired segment/stream could not be located in the field; resolution determined from stream investigation files						
Blacksville No.2	41813	Roberts Run	TBS on April 13, 2010; For flow on August 27, 2009	52.5	19.1	40.6	25.0	59.3	39.3
Dilworth	40312	UT to South Fork Tenmile Creek	Resolution determined from stream investigation files						

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Mine Name	WRDS Stream Code	Stream Name	Surveyed	Taxa Richness	Trichoptera Richness	%EPT	Intolerant Taxa Richness	FC + PR Richness	Total Biological Score
Dilworth	40313	UT to South Fork Tenmile Creek	Resolution determined from stream investigation files						
Dilworth	40314	UT to South Fork Tenmile Creek	Resolution determined from stream investigation files						
Dilworth	40315	UT to South Fork Tenmile Creek	Resolution determined from stream investigation files						
Emerald	40432	Laurel Run	For flow on August 18, 2009						
Emerald	40442	Shriver Run	For flow on August 18, 2009						
Enlow Fork	32708	Templeton Fork	TBS on March 25, 2010; For flow on August 17, 2010??	85.3	28.6	43.8	68.8	88.9	63.1
Enlow Fork	32712	Rocky Run	TBS on March 25, 2010; For flow on August 17, 2009	36.1	19.1	29.2	0.0	37.0	24.3
Enlow Fork	32644	Enlow Fork	For flow on August 17, 2009						
Maple Creek	N/A	UT to Mingo Creek	Desired segment/stream could not be located in the field; resolution determined from stream investigation files						
Eighty-Four	36989	UT to Little Chartiers Creek	For flow on August 17, 2009						
Average				61.0	24.8	54.5	41.3	62.2	48.8
STD ERR				8.7	3.8	11.7	12.8	9.0	7.4

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APPENDIX F2 - Summary of Survey of Streams with Reported Effects from the 3rd Assessment Period (Streams surveyed in the Spring 2009 and the Spring 2010 following the TGD methodology).

Mine Name	WRDS Stream Code	Stream Name	Surveyed	Taxa Richness	Trichoptera Richness	%EPT	Intolerant Taxa Richness	FC + PR Richness	Total Biological Score
Bailey	32507	UT to Wharton Run	TBS on April 26, 2009	49.2	38.1	100.0	56.3	37.0	56.1
Bailey	32530	Headley Hollow	TBS on May 19, 2009	68.9	47.6	100.0	68.8	44.4	68.8
Bailey	32532	UT to Dunkard Fork	TBS on May 5, 2009	78.7	47.6	100.0	87.5	51.9	73.1
Bailey	32596	UT N Fork of Dunkard Fork	TBS on April 24, 2009	23.0	9.5	69.8	18.8	14.8	27.2
Bailey	32598	Polly Hollow	TBS on April 28, 2009	19.7	19.1	81.2	12.5	14.8	29.4
Bailey	N/A	UT to Dunkard Fork	TBS on May 19, 2009	49.2	19.1	86.0	50.0	37.0	48.3
Blacksville No.2	41728	Bulldog Run	TBS on April 13, 2010	59.0	38.1	90.9	50.0	51.9	58.0
Cumberland	41246	Dutch Run	TBS on May 12, 2009	75.4	9.5	42.2	43.8	81.5	50.5
Cumberland	41261	Dyers Fork	TBS on May 12, 2009	75.4	19.1	42.2	56.3	66.7	51.9
Cumberland	41268	Mt. Phoebe Run	TBS on May 12, 2009	59.0	19.1	90.9	50.0	51.9	54.2
Emerald	40417	UT Coal Lick Run	TBS on March 23, 2010	29.5	0.0	17.9	6.3	37.0	18.1

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Mine Name	WRDS Stream Code	Stream Name	Surveyed	Taxa Richness	Trichoptera Richness	%EPT	Intolerant Taxa Richness	FC + PR Richness	Total Biological Score
Emerald	41238	UT Frosty Run	Flow on March 23, 2010	N/A	N/A	N/A	N/A	N/A	N/A
Emerald	41239	UT Frosty Run	TBS on March 23, 2010	23.0	0.0	0.0	6.3	37.0	13.3
Enlow Fork	32721	UT to Rocky Run	TBS on May 29, 2009	68.9	38.1	77.9	68.8	59.3	62.6
Enlow Fork	32724	UT to Rocky Run	TBS on May 29, 2009	42.6	0.0	24.4	18.8	22.2	21.6
Enlow Fork	32740	UT to Templeton Fork	TBS on May 29, 2009	52.5	38.1	100.0	75.0	29.6	59.0
Enlow Fork	40930	UT to Short Creek	Flow on March 25, 2010	N/A	N/A	N/A	N/A	N/A	N/A
Average				51.6	22.9	68.2	44.6	42.5	46.1
STD ERR				7.7	6.5	12.8	9.9	7.1	7.2