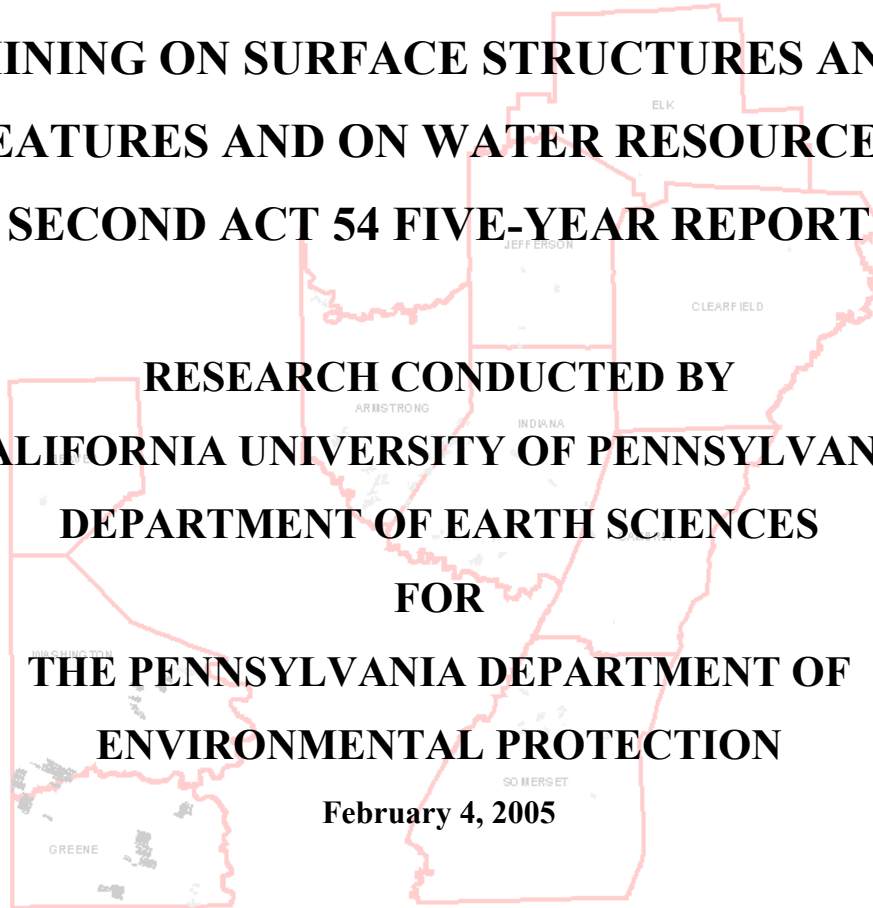


**THE EFFECTS OF SUBSIDENCE RESULTING
FROM UNDERGROUND BITUMINOUS COAL
MINING ON SURFACE STRUCTURES AND
FEATURES AND ON WATER RESOURCES:
SECOND ACT 54 FIVE-YEAR REPORT**

**RESEARCH CONDUCTED BY
CALIFORNIA UNIVERSITY OF PENNSYLVANIA
DEPARTMENT OF EARTH SCIENCES
FOR
THE PENNSYLVANIA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

February 4, 2005



Appendix A: STREAMS UNDERMINED DURING THE ASSESSMENT PERIOD

Most of the streams undermined during the assessment period were assessed pre-mining by biologists from the Regional Water Quality Office and were examined post-mining by the biologist from the California District Mining Office to check for flow.

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|-----------------------------|---------------------------|------------------------|-----------------------------------|---------------------------------|-----------------------|---|
| Beham | 32657_0_1.3001 | Perennial | Yes: 9/8/00 | 1999 | Attaining | |
| Beham | 32657_1.3001_2.3259 | Perennial | Yes: 9/8/00 | 1999 / 2000 | Attaining | |
| Trib. 32658 to Behan Run | 32658_0_0.861 | Intermittent | Yes: 9/8/00 | 1999 / 2000 | Attaining | |
| Trib. 32658 to Behan Run | 32658_0.861_1.4083 | Intermittent | Yes: 9/8/00 | 2000 | Attaining | |
| Trib. 32659 to Behan Run | 32659_0_0.46 | Intermittent | Yes: 9/8/00 | 2000 | Attaining | |
| Blockhouse Run | 32672_0_1.5004 | Perennial | Yes: 9/8/00 | 1999 | Attaining | |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | 1998, 1999, 2003 Mining Operations Started | Assessment Results | Streams with 2003 Flow Check |
|--------------------------------|------------------------|---------------------|-----------------------------|--|--------------------|------------------------------|
| Bull Dog Run | 41728_0_1.2711 | Perennial | No | 1998, 1999, 2003 | | Yes: 10/7/03 |
| Trib. 32521 to Crabapple Creek | 32521_0_0.5943 | Intermittent | Yes: 6/20/00 | 2000 | Attaining | |
| Dark Hollow | 40433_1.3714_2.0184 | Intermittent | Yes: 6/27/01 | 1999, 2000 | Attaining | |
| Trib. 40435 to Dark Hollow | 40435_0_0.3728 | Intermittent | Yes: 6/27/01 | 2000 | Attaining | |
| Trib. 32511 to Dunkard Fork | 32511_0.5206_1.7469 | Intermittent | Yes: 6/19/00 | 2002, 2003 | Attaining | No |
| Dyers Fork | 41261_2.9803_3.6151 | Perennial | No | 2003 | | Yes: 9/29/03 |
| Dyers Fork | 41261_3.6151_3.8465 | Perennial | No | 2003 | | Yes: 9/29/03 |
| Dyers Fork | 41261_3.8465_4.2223 | Perennial | No | 2003 | | Yes: 9/29/03 |
| Dyers Fork | 41621_4.2223_4.7292 | Perennial | No | 2003 | | Yes: 9/29/03 |
| Dyers Fork | 41261_4.7292_4.9684 | Perennial | No | 2003 | | Yes: 9/29/03 |
| Dyers Fork | 41261_4.9684_5.4978 | Intermittent | No | 2003 | | Yes: 9/29/03 |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|------------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|--|
| Dyers Fork | 41621_5.4978_6.0034 | Intermittent | No | 2002 | | Yes: 9/29/03 |
| Trib. to 41271 Dyers Fork | 41271_0.266_1.1697 | Intermittent | No | 2002 | | Yes: 9/29/03 |
| Trib. to 41271 Dyers Fork | 41271_1.1697_1.4593 | Intermittent | No | 2001 | | Yes: 9/29/03 |
| Trib. to 41272 Dyers Fork | 41272_0_0.3043 | Intermittent | No | 2002 | | Dry: 9/29/03 |
| Trib. to 41274 Dyers Fork | 41274_0_1.2683 | Intermittent | No | 2003 | | Yes: 9/29/03 |
| Trib. to 41275 Dyers Fork | 41275_0_0.5956 | Intermittent | No | 2003 | | Dry: 9/29/03 |
| Trib. to 41276 Dyers Fork | 41276_0_0.5519 | Intermittent | No | 2003 | | Yes: 9/29/03 |
| Trib. to 41276 Dyers Fork | 41276_0.5519_1.1801 | Intermittent | No | 2002, 2003 | | Yes: 5/03 |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | 2003 Mining Operations Started | Assessment Results | Yes: 9/29/03 Streams with 2003 Flow Check for Post-mining Flow |
|------------------------------|-------------------------------|----------------------------|------------------------------------|---------------------------------------|---------------------------|---|
| Trib. to 41278 Dyers Fork | 41278_0_0.3581 | Intermittent | No | 2003 | | Yes: 9/29/03 |
| Eaton Hollow | 41072_0_1.5914 | Intermittent | Yes: 9/30/99 | 1998 | Attaining | |
| Enlow Fork | 32644_2.3532_5.0247 | Perennial | Yes: 9/5/00 | 1998, 1999, 2000 | Impaired | |
| Enlow Fork | 32644_5.1368_5.5005 | Perennial | Yes: 9/5/00 | 1998 | Impaired | |
| Enlow Fork | 32644_5.5005_6.2443 | Perennial | Yes: 9/5/00 | 1998 | Impaired | |
| Enlow Fork | 32644_11.2312_11.6989 | Perennial | Yes: 9/19/00 | 1999 | Attaining | |
| Enlow Fork | 32644_11.6988_12.1518 | Perennial | Yes: 9/19/00 | 1999 | Attaining | |
| Enlow Fork | 32644_12.5453_12.9909 | Perennial | Yes: 9/19/00 | 1999 | Impaired | |
| Enlow Fork | 32644_12.9909_13.0852 | Perennial | Yes: 9/19/00 | 1999 | Impaired | |
| Enlow Fork | 32644_13.0851_13.4276 | Perennial | Yes: 9/19/00 | 2000 | Impaired | |
| Enlow Fork | 32644_13.4276_13.6181 | Perennial | Yes: 9/19/00 | 2000 | Impaired | |
| Enlow Fork | 32644_13.6181_14.0584 | Perennial | Yes: 9/19/00 | 2000, 2001 | Impaired | Yes |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|---------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|--|
| Enlow Fork | 32644_14.0584_14.427 | Perennial | Yes: 9/19/00 | 2001 | Impaired | Yes |
| Trib. 32692 to Enlow Fork | 32694_0_0.8381 | Intermittent | Yes: 9/5/00 | 1998 | Attaining | |
| Trib. 32695 to Enlow Fork | 32695_0_0.6424 | Intermittent | Yes: 9/5/00 | 1998 | Attaining | |
| Trib. 32696 to Enlow Fork | 32696_0_0.994 | Intermittent | Yes: 9/5/00 | 1998 | Attaining | |
| Trib. 32696 to Enlow Fork | 32696_0.0994_1.4608 | Intermittent | Yes: 9/5/00 | 1998 | Attaining | |
| Trib. 32697 to Enlow Fork | 32697_0_0.7363 | Intermittent | Yes: 9/5/00 | 1998, 1999 | Attaining | |
| Trib. 32751 to Enlow Fork | 32751_0_0.7427 | Intermittent | Yes: 9/19/00 | 1999 | Attaining | |
| Trib. 32751 to Enlow Fork | 32751_0.7427_1.3166 | Intermittent | Yes: 9/19/00 | 1999 | Attaining | |
| Trib. 32754 to Enlow Fork | 32754_0_0.9039 | Intermittent | Yes: 9/19/00 | 1999 | Attaining | |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|---------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|--|
| Trib. 32763 to Enlow Fork | 32763_0_0.6758 | Intermittent | Yes: 9/19/00 | | Attaining | |
| Trib. 32764 to Enlow Fork | 32764_0_1.1454 | Intermittent | Yes: 9/19/00 | 1999 | Attaining | |
| Trib. 32767 to Enlow Fork | 32767_0_0.5084 | Intermittent | Yes: 9/19/00 | 2000 | Attaining | |
| Trib. 32768 to Enlow Fork | 32768_0_1.3307 | Intermittent | Yes: 9/19/00 | 2000, 2001, 2002 | Attaining | Yes |
| Trib. 32769 to Enlow Fork | 32769_0_1.6707 | Intermittent | Yes: 9/19/00 | 2000 - 2003 | Attaining | Yes |
| Trib. 32770 to Enlow Fork | 32770_0_0.8863 | Intermittent | Yes: 9/19/00 | 2000 - 2003 | Attaining | Yes |
| Trib. 32771 to Enlow Fork | 32771_0_1.0997 | Intermittent | Yes: 9/19/00 | 2001 - 2003 | Attaining | Yes |
| Trib. 32771 to | | | | | | |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|---------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|--|
| Enlow Fork | 32771_1.0997_1.5544 | Intermittent | Yes: 9/19/00 | 2003 | Attaining | Yes |
| Trib. 32773 to Enlow Fork | 32773_0_0.6347 | Intermittent | Yes: 9/19/00 | 2003 | Attaining | Yes |
| Trib. 32775 to Enlow Fork | 32775_0_0.4896 | Intermittent | Yes: 9/19/00 | 2000 | Attaining | |
| Trib. 32776 to Enlow Fork | 32776_0_0.6012 | Intermittent | Yes: 9/19/00 | 2003 | Attaining | Yes |
| Hoover Run | 41724_1.6337_2.5403 | Perennial | Yes / Unknown | 1998 | Attaining | |
| Hoover Run | 41724_2.5403_2.7595 | Perennial | No | 1998 | | |
| Hoover Run | 41724_2.7595_3.0237 | Perennial | No | 1999 | | |
| Hoover Run | 41724_3.0237_3.2669 | Perennial | No | 2003 | | |
| Hoover Run | 41724_3.2669_3.8409 | Perennial | No | 2003 | | |
| Trib. 41727 to | | | | | | |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|--|------------------------|---------------------|-----------------------------|---------------------------|--------------------|---|
| Hoover Run | 41727_0_1.2725 | Perennial | No | 1998, 1999 | | Yes: 10/16/03 |
| Kent Run | 32600_1.4114_3.1504 | Intermittent | Yes: 6/21/00 | 2003 | Attaining | |
| Laural Run | 40432_1.3397_1.5984 | Perennial | Yes: 6/27/01 | 2000 | Attaining | |
| Laural Run | 40432_1.5984_1.8157 | Perennial | Yes: 6/27/01 | 1999, 2000 | Attaining | |
| Laural Run Table VII.B continued | 40432_1.8157_2.2305 | Perennial | Yes: 6/27/01 | 1999, 2000 | Attaining | |
| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Flow |
| Laural Run | 40432_2.2305_2.6512 | Perennial | Yes: 6/27/01 | 2000, 2001 | Attaining | |
| Laural Run | 40432_2.6512_2.8231 | Perennial | Yes: 6/27/01 | 2001 | Attaining | |
| Laural Run | 40432_2.8231_3.4617 | Intermittent | Yes: 6/27/01 | 2001, 2002 | Attaining | Yes: 09/03 |
| Laural Run | 40432_3.4617_4.022 | Intermittent | Yes: 6/27/01 | 2002, 2003 | Attaining | Yes: 09/03 |

Trib. 40437 to

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|---------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|--|
| Laural Run | 40437_0_0.5128 | Intermittent | Yes: 6/27/01 | 2000 | Attaining | |
| Trib. 40439 to Laural Run | 40439_0_0.0685 | Perennial | Yes: 6/27/01 | 2000 | Attaining | |
| Trib. 40439 to Laural Run | 40439_0.0685_0.2827 | Intermittent | Yes: 6/27/01 | 2001 | Attaining | |
| Trib. 40439 to Laural Run | 40439_0.2827_0.5284 | Intermittent | Yes: 6/27/01 | 2001 | Attaining | |
| Trib. 40440 to Laural Run | 40440_0_0.3714 | Intermittent | Yes: 6/27/01 | 2000 | Attaining | |
| Trib. 40441 to Laural Run | 40441_0_0.2753 | Intermittent | Yes: 6/27/01 | 2001 | Attaining | |
| Trib. 40442 to Laural Run | 40442_0_0.6839 | Intermittent | Yes: 6/27/01 | 2001 | Attaining | |
| Trib. 40442 to Laural Run | 40442_0.6839_1.117 | Intermittent | Yes: 6/27/01 | 2001 | Attaining | |
| Trib. 40443 to | | | | | | |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|---------------------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|--|
| Laural Run | 40443_0_0.4462 | Intermittent | Yes: 6/27/01 | 2000, 2001 | Attaining | |
| Trib. 40446 to Laural Run | 40446_0_0.3233 | Intermittent | Yes: 6/27/01 | 2002 | Attaining | Yes: 09/03 |
| Little Chartiers Creek | 36943_15.3374_15.7593 | Perennial | Yes: 10/22/97 | 2003 | Impaired | Yes: 10/2/03 |
| Little Chartiers Creek | 36943_16.195_16.5662 | Perennial | Yes: 10/22/97 | 2003 | Impaired | Yes: 10/2/03 |
| Little Chartiers Creek | 36943_16.5663_17.3168 | Perennial | Yes: 10/22/97 | 2002, 2003 | Impaired | Yes: 10/2/03 |
| Trib. 36989 to Little Chartiers Creek | 36989_1.0559_1.322 | Perennial | Yes: Unknown | 1998 | Attaining | Yes: 10/2/03 |
| Trib. 36989 to Little Chartiers Creek | 36989_1.322_1.188 | Perennial | Yes: Unknown | 1998 | Attaining | Yes: 10/2/03 |
| Trib. 36989 to Little Chartiers Creek | 36989_2.1607_2.6429 | Perennial | Yes: Unknown | 1998 | Attaining | Yes: 10/2/03 |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started Mining | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|---------------------------------------|-------------------------------|----------------------------|------------------------------------|---|---------------------------|--|
| Trib. 36989 to Little Chartiers Creek | 36989_3.1212_3.4222 | Perennial | Yes: 10/9/97 | 2000 | Impaired | Yes: 10/2/03 |
| Trib. 36989 to Little Chartiers Creek | 36989_3.4222_4.0696 | Perennial | Yes: 10/9/97 | 2000 | Impaired | Yes: 10/2/03 |
| Trib. 36991 to Little Chartiers Creek | 36991_0_1.6827 | Perennial | Yes: Unknown | 1999 | Attaining | Yes: 10/2/03 |
| Trib. 36992 to Little Chartiers Creek | 36992_0_1.0069 | Perennial | Yes: Unknown | 1998, 1999 | Attaining | Yes: 10/2/03 |
| Trib. 36993 to Little Chartiers Creek | 36993_0_1.1994 | Perennial | Yes: Unknown | 1998, 1999 | Attaining | Yes: 10/2/03 |
| Trib. 36993 to Little Chartiers Creek | 36993_1.994_2.1749 | Perennial | Yes: Unknown | 1999 | Attaining | Yes: 10/2/03 |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|---------------------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|--|
| Trib. 37001 to Little Chartiers Creek | 37001_0_0.3388 | Perennial | Yes: 10/9/97 | 2000 | Impaired | Yes: 10/2/03 |
| Trib. 37001 to Little Chartiers Creek | 37001_0.3388_1.8172 | Perennial | Yes: 10/9/97 | 2000, 2001, 2002 | Impaired | Yes: 10/2/03 |
| Trib. 37002 to Little Chartiers Creek | 37002_0_0.4298 | Perennial | Yes: 10/9/97 | 2000 | Impaired | Yes: 10/2/03 |
| Trib. 37003 to Little Chartiers Creek | 37003_0_0.7366 | Perennial | Yes: 10/9/97 | 2000 | Impaired | Yes: 10/2/03 |
| Trib. 37024 to Little Chartiers Creek | 37024_0_0.5145 | Perennial | Yes: 10/22/97 | 2003 | Impaired | Yes: 10/2/03 |
| Trib. 37024 to Little Chartiers Creek | 37026_0_0.6631 | Perennial | Yes: 10/22/97 | 2002, 2003 | Impaired | Yes: 10/2/03 |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check |
|----------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|-------------------------------------|
| Long Run | 32765_0_1.1543 | Intermittent | Yes: 10/19/00 | 1999, 2000 | Attaining | |
| Trib. 32766 to Long Run | 32766_0_0.3565 | Intermittent | Yes: 10/19/00 | 2000 | Attaining | |
| Trib. 39622 to Mingo Creek | 39622_0.2535_0.914 | Perennial | Yes: 6/14/02 | 1998, 2002 | Attaining | |
| Trib. 39622 to Mingo Creek | 39622_0.914_1.7568 | Perennial | Yes: 6/14/02 | 1998, 1999 | Attaining | |
| Trib. 39623 to Mingo Creek | 39623_0_1.3637 | Perennial | Yes: 6/14/02 | 1998, 1999, 2002 | Attaining | |
| Trib. 39624 to Mingo Creek | 39624_0_1.3975 | Perennial | Yes: 6/14/02 | 1998 | Attaining | |
| Trib. 39628 to Mingo Creek | 39628_0.8455_1.5219 | Perennial | Yes: 6/14/02 | 1999 | Attaining | |

Table VII.B
continued

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check |
|----------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|-------------------------------------|
| Trib. 39630 to Mingo Creek | 39630_0_0.426 | Perennial | Yes: 6/14/02 | 1999 | Attaining | |
| Trib. 39631 to Mingo Creek | 39631_0_0.3703 | Perennial | Yes: 6/14/02 | 2000 | Attaining | |
| Trib. 39631 to Mingo Creek | 39631_0.3703_0.9525 | Perennial | Yes: 6/14/02 | 2000, 2001 | Attaining | |
| Trib. 39632 to Mingo Creek | 39632_0_0.2423 | Perennial | Yes: 6/14/02 | 2000 | Attaining | |
| Trib. 39632 to Mingo Creek | 39632_0.2423_0.4669 | Perennial | Yes: 6/14/02 | 2000 | Attaining | |
| Trib. 39633 to Mingo Creek | 39633_0_0.2722 | Perennial | Yes: 6/14/02 | 2000 | Attaining | |
| Trib. 39634 to Mingo Creek | 39634_0_0.4938 | Perennial | Yes: 6/14/02 | 2002 | Attaining | |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|------------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|--|
| Morris Run | 41720_0_2.4313 | Intermittent | No | 1998, 1999 | | Yes: 10/6/03 |
| Patterson Run | 41299_2.3972_2.8225 | Intermittent | No | 1999, 2000 | | Yes: 10/2/03 |
| Trib. 41300 to Patterson Run | 41300_0_1.0728 | Intermittent | No | 1998 | | Yes: 9/29/03 |
| Trib. 41301 to Patterson Run | 4131_0_1.034 | Intermittent | No | 1998 | | Yes: 9/29/03 |
| Trib. 41303 to Patterson Run | 41303_0_0.4045 | Intermittent | No | 1998 | | Yes: 10/2/03 |
| Trib. 41304 to Patterson Run | 41304_0_0.3132 | Intermittent | No | 1998 | | Yes: 10/2/03 |
| Trib. 41306 to Patterson Run | 41306_0_0.4244 | Intermittent | No | 1998 | | Yes: 10/2/03 |
| Pumpkin Run | 40975_4.1952_4.6334 | Intermittent | Yes: 5/18/99 | 2000 | Attaining | Yes: 10/2/03 |
| Pumpkin Run | 40975_4.6334_4.9713 | Intermittent | Yes: 5/18/99 | 2000 | Attaining | Dry: 10/2/03 |

| | | | | | | |
|---|-----------------------------------|--------------------------------|--|--|-------------------------------|--|
| Trib. 40992 to Pumpkin Run | 40992_0_0.5323 | Intermittent | Yes: 5/18/99 | 2000, 2001 | Attaining | Yes: 10/2/03 |
| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
| Robinson Fork | 32650_1.82_2.1961 | Intermittent | Yes: 9/8/00 | 2003 | Impaired | Yes |
| Robinson Fork Table VII.B continued | 32650_2.1961_3.5951 | Perennial | Yes: 9/8/00 | 2002, 2003 | Impaired | Yes |
| Robinson Fork | 32650_5.6051_6.4716 | Perennial | Yes: 9/8/00 | 1998 | Impaired | |
| Robinson Fork | 32650_6.4716_6.5158 | Perennial | Yes: 9/8/00 | 1998 | Impaired | |
| Robinson Fork | 32650_6.5158_6.7474 | Perennial | Yes: 9/8/03 | 1998 | Impaired | |
| Robinson Fork | 32650_6.7474_7.1104 | Perennial | Yes: 9/8/00 | 1998, 1999 | Impaired | |
| Robinson Fork | 32650_7.1104_7.269 | Perennial | Yes: 9/8/00 | 1999 | Impaired | |
| Trib. 32651 to Robinson Fork | 32651_0_0.8715 | Perennial | Yes: 9/8/00 | 2003 | Attaining | |
| Trib. 32652 to | | | | | | |

| Stream Name | Identification | Classification | Performed / Date | Started | Results | Post-mining Flow |
|------------------------------|-----------------------|-----------------------|-------------------------|----------------|----------------|-------------------------|
| Trib. 32653 to Robinson Fork | 32653_1.1772_2.2196 | Intermittent | Yes: 9/8/00 | 1998, 1999 | Attaining | |
| Trib. 32653to Robinson Fork | 32653_2.2196_2.4878 | Perennial | Yes: 9/8/00 | 1999 | Attaining | |
| Trib. 32654 to Robinson Fork | 32654_0_0.6205 | Intermittent | Yes: 9/8/00 | 2001 | Attaining | Yes |
| Trib. 32655 to Robinson Fork | 32655_0_0.4635 | Intermittent | Yes: 9/8/00 | 1998 | Attaining | |
| Trib. 32656 to Robinson Fork | 32656_0_0.4301 | Perennial | Yes: 9/8/00 | 1999 | Attaining | |
| Trib. 32665to Robinson Fork | 32665_0_0.9927 | Intermittent | Yes: 9/8/00 | 1998 | Attaining | |
| Trib. 32666 to Robinson Fork | 32666_0_1.1371 | Intermittent | Yes: 9/8/00 | 1998 | Attaining | |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check for Post-mining Flow |
|---|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|--|
| Robinson Fork | 32668_0_0.9407 | Intermittent | Yes: 9/8/00 | 1998, 1999 | Attaining | |
| Roberts Run | 41625_2.0156_2.1411 | Perennial | No | 2002 | | |
| Roberts Run | 41625_2.1411_2.6652 | Perennial | No | 2001, 2002 | | |
| Roberts Run | 41625_2.6652_3.1786 | Perennial | No | 1999, 2001 | | |
| Roberts Run | 41625_3.1786_3.5865 | Perennial | No | 2000 | | |
| Roberts Run | 41625_3.5865_3.7841 | Perennial | No | 2000 | | |
| Trib. 41631 to Roberts Run | 41631_0_0.3646 | Perennial | No | 2002 | | No: 10/15/03 |
| Trib. 41632 to Roberts Run | 41632_0_0.7151 | Perennial | No | 2001, 2002 | | Yes: 10/15/03 |
| Trib. 41633 to Roberts Run Table VII.B continued | 41633_0_1.1354 | Perennial | No | 1999, 2000, 2001 | | Yes: 10/15/03 |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Operations Started | Assessment Results | Streams with 2003 Flow Check |
|--------------------------|-------------------------------|----------------------------|------------------------------------|---------------------------|---------------------------|-------------------------------------|
| Rocky Run | 32712_0.5144_0.9535 | Perennial | Yes: 9/18/00 | 1998 | Impaired | |
| Rocky Run | 32712_0.9535_1.9287 | Perennial | Yes: 9/18/00 | 1998, 2000 | Impaired | |
| Rocky Run | 32712_1.9287_2.7121 | Perennial | Yes: 9/18/00 | 2001, 2002 | Attaining | Yes |
| Rocky Run | 32712_2.7121_2.7971 | Perennial | Yes: 9/18/00 | 2002 | Attaining | Yes |
| Rocky Run | 32712_2.7971_3.111 | Perennial | Yes: 9/18/00 | 2002 | Attaining | Yes |
| Rocky Run | 32712_3.111_3.8346 | Perennial | Yes: 9/18/00 | 2002 | Attaining | Yes |
| Trib. 32714 to Rocky Run | 32714_0_0.1684 | Perennial | Yes: 9/18/00 | 1998 | Attaining | |
| Trib. 32714 to Rocky Run | 32714_0.1684_0.3736 | Intermittent | Yes: 9/18/00 | 1998 | Attaining | |
| Trib. 32715 to Rocky Run | 32715_0_0.6814 | Intermittent | Yes: 9/18/00 | 1998, 2000 | Attaining | |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Operations Started | Assessment Results | Streams with 2003 Flow Check |
|--------------------------|-------------------------------|----------------------------|------------------------------------|---------------------------|---------------------------|-------------------------------------|
| Trib. 32716 to Rocky Run | 32716_0.2261_0.8243 | Intermittent | Yes: 9/18/00 | 2001, 2002 | Attaining | Yes |
| Trib. 32717 to Rocky Run | 32717_0_0.409 | Intermittent | Yes: 9/18/00 | 2001, 2002 | Attaining | Yes |
| Trib. 32718 to Rocky Run | 32718_0_0.5892 | Intermittent | Yes: 9/18/00 | 2002 | Attaining | Yes |
| Trib. 32719 to Rocky Run | 32719_0_0.837 | Intermittent | Yes: 9/18/00 | 2002, 2003 | Attaining | Yes |
| Trib. 32720 to Rocky Run | 32720_0_0.4803 | Intermittent | Yes: 9/18/00 | 2002, 2003 | Attaining | Yes |
| Rush Run | 41628_0_1.2716 | Perennial | No | 2002, 2003 | | Yes: 9/26/03 |
| Rush Run | 41628_1.2716_2.0239 | Perennial | No | 2001, 2002 | | Yes: 9/26/03 |
| Trib. 41629 to Rush Run | 41629_0_0.344 | Perennial | No | 2002 | | Yes: 10/1/03 |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Operations Started | Assessment Results | Streams with 2003 Flow Check |
|----------------------------|--|----------------------------|------------------------------------|---------------------------|---------------------------|-------------------------------------|
| | 20010629-1430- GJK 20010801-1330- GJK | | | | | |
| Smith Creek | 40463 20010824-1100-GJK | | 2002 | | Impaired | |
| Smith Creek | 40464 20010824-1100-GJK | | 2002 | | Impaired | |
| Trib. 40484 to Smith Creek | 40484_0_0.5717 | Perennial | Yes: 6/29/01 | 1998, 1999 | Attaining | |
| Trib. 40484 to Smith Creek | 40484_0.5717_0.6032 | Perennial | Yes: 6/29/01 | 1999 | Attaining | |
| Trib. 40484 to Smith Creek | 40484_0.6032_1.0762 | Perennial | Yes: 6/29/01 | 1998 | Attaining | |
| Trib. 40484 to Smith Creek | 40484_01.0762_1.4615 | Intermittent | Yes: 6/29/01 | 1998 | Attaining | |
| Trib. 40487 to Smith Creek | 40487_0_0.1553 | Intermittent | Yes: 6/29/01 | 1998 | Attaining | |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check |
|---------------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|-------------------------------------|
| Trib. 32649 to Spotted Tail Run | 32649_0_0.6029 | Perennial | Yes: 8/16/00 | 2001 | Attaining | Yes |
| Stone Coal Run | 32500_0.2236_0.8275 | Intermittent | Yes: 6/19/00 | 2002, 2003 | Attaining | Yes |
| Stone Coal Run | 32500_0.8275_1.1887 | Intermittent | Yes: 6/19/00 | 2002 | Attaining | Yes |
| Stone Coal Run | 32500_1.1887_2.3474 | Intermittent | Yes: 6/19/00 | 2000, 2001, 2002 | Attaining | Yes |
| Trib. 32502 to Stone Coal Run | 32502_0_0.4003 | Intermittent | Yes: 6/19/00 | 2002 | Attaining | Yes |
| Trib. 32503 to Stone Coal Run | 32503_0_0.5676 | Intermittent | Yes: 6/19/00 | 2001, 2002 | Attaining | Yes |
| Templeton Fork | 32708_2.8472_3.5642 | Perennial | Yes: 9/18/00 | 1998, 2000 | Impaired | |
| Templeton Fork | 32708_3.5642_3.8963 | Perennial | Yes: 9/18/00 | 2000 | Impaired | |
| Templeton Fork | 32708_3.8963_4.1889 | Perennial | Yes: 9/18/00 | 2001 | Impaired | Yes |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Flow |
|-------------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|-------------|
| Trib. 32726 to Templeton Fork | 32726_0.8551_1.5756 | Intermittent | Yes: 9/12/00 | 1998 | Attaining | |
| Trib. 32728 to Templeton Fork | 32728_0_0.8221 | Intermittent | Yes: 9/12/00 | 2000 | Attaining | |
| Trib. 32729 to Templeton Fork | 32729_0_1.0896 | Intermittent | Yes: 9/12/00 | 2000, 2001 | Attaining | Yes |
| Trib. 32730 to Templeton Fork | 32730_0_1.2427 | Intermittent | Yes: 9/12/00 | 2002 | Attaining | Yes |
| Trib. 32731 to Templeton Fork | 32731_0_1.3926 | Intermittent | Yes: 9/18/00 | 2002 | Attaining | Yes |
| Trib. 32732 to Templeton Fork | 32732_0_0.578 | Intermittent | Yes: 9/18/00 | 2002, 2003 | Attaining | Yes |
| Trib. 32733 to Templeton Fork | 32733_0_0.9671 | Intermittent | Yes: 9/18/00 | 2003 | Attaining | Yes |

| Stream Name | Segment Identification | Flow Classification | Assessment Performed / Date | Mining Operations Started | Assessment Results | Streams with 2003 Flow Check |
|--------------------------------------|-------------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------|-------------------------------------|
| S. Fork Tenmile Creek | 40335_0_0.3428 | Intermittent | Yes: 6/22/01 | 1999 | Attaining | |
| Trib. 40337 to S. Fork Tenmile Creek | 40337_0_0.3555 | Intermittent | Yes: 6/22/01 | 1998 | Attaining | |
| Whiteley Creek | 41178_22.1802_22.7873 | Intermittent | No | 1998 | | Yes: 9/30/03 |
| Trib. 41289 to Whiteley Creek | 41289 | Intermittent | No | 2001 | | Yes: 9/29/03 |
| Trib. 41290 to Whiteley Creek | 41290_0_0.4696 | Intermittent | No | 1999 | | Yes: 9/29/03 |
| Trib. 41291 to Whiteley Creek | 41291_0.201_1.3266 | Intermittent | No | 1999, 2000, 2001 | | Yes: 9/29/03 |
| Trib. 41292 to Whiteley Creek | 41292_0_1.4864 | Intermittent | No | 1999, 2000, 2001 | | Yes: 9/29/03 |

Trib. 41310 to

Whiteley Creek 41310_0_0.5163 Intermittent No 1998 Yes: 9/30/03

Wrights Run 41653_1.1247_1.4935 Perennial No 2003 Yes:10/1/03
