

Sub-watershed 4R (Un-named)

General Discussion

This sub-watershed encompasses 0.36 square miles or 229.50 acres of land area, approximately 0.56% of the total study area. This basin is drained by 1.57 miles of tributaries (0.58% of the total length of all watershed tributaries) and contains 2 acres of lakes and ponds (0.87% of the total sub-watershed land area). Commonwealth records show 1 surface mine and no deep mines in the area. Our field surveys have located the surface mine which is not flowing and have not found any evidence of deep mining.

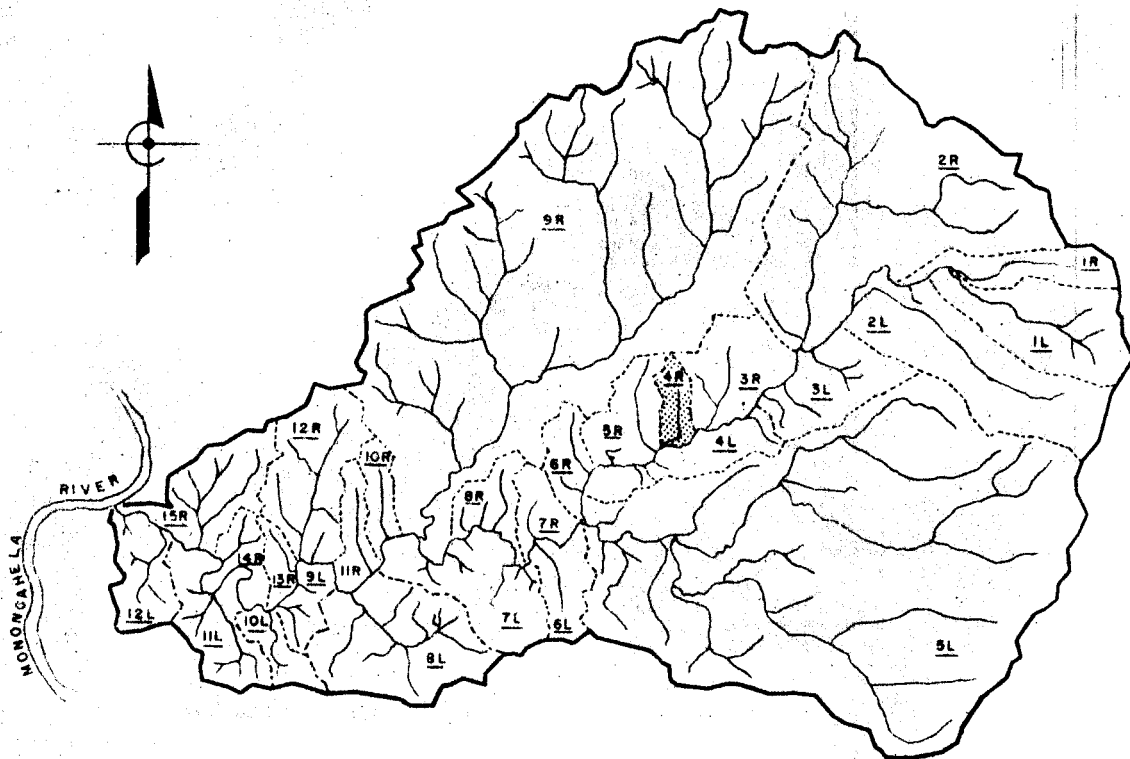
The following information gives the averages of the sampling station designated as GC4R1 which is shown on Drawing 7316-7. The percentages of pollution load and flow that this sub-watershed contributes to Monitoring Station GC8 near the mouth of Georges Creek are also shown.

	<u>Averages</u>		<u>Percent of Total Watershed</u>	
pH 6.8				
Net Hot Acidity	0	PPO	0	%
Ferrous Iron	0	PPO	0	%
Total Iron	1	PPO	0.01%	
Sulfate	14	PPO	0.02%	
Flow	41,760	GPD	0.07%	





TABLE 35  
 TRIBUTARY AVERAGE WATER QUALITY DATA  
 Sub-watershed  
 4R

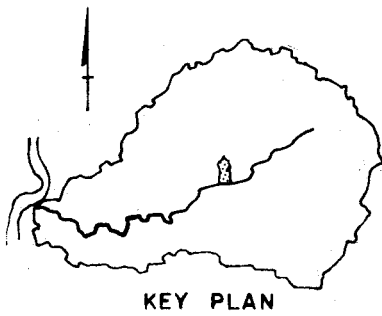
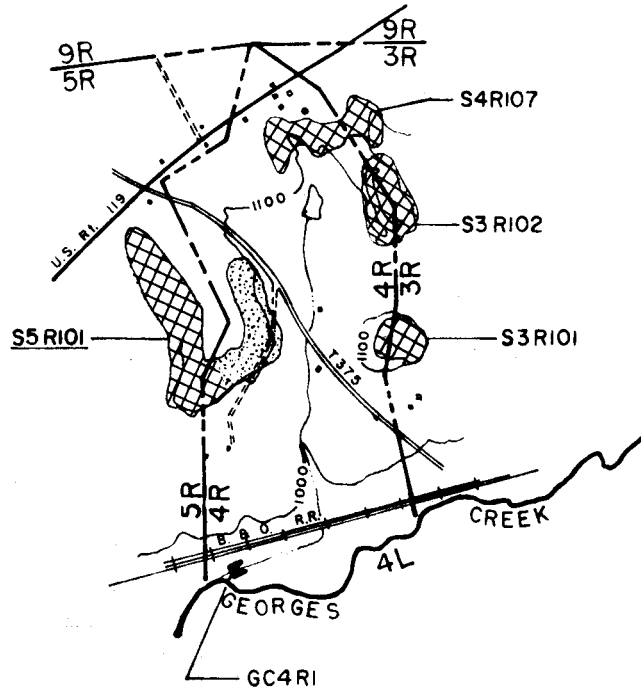
Station	pH	Hot Acid		Alkalinity		Net Hot Acid		Ferrous Iron		Iron as Fe		Sulfate		Flow	
		PPM	#/Day	PPM	#/Day	PPM	#/Day	PPM	#/Day	PPM	#/Day	PPM	#/Day	GPM	G.P.D.
GC4R1	6.8	5.0	1.83	73.0	26.88	0	0	0	0	.44	.14	36.0	13.05	29	41,760

# Location Plan



## LEGEND FOR THE FOLLOWING PLATES

- Y DEEP MINE OPENING (M9R59A)
- ▲ DEEP MINE PIPE (SAMPLE STATIONS - MP5L2A, or BH9R2)
- ▼ WEIR (TRIBUTARY SAMPLE STATION - GC7L1)
- CROSS-SECTION (TRIBUTARY SAMPLE STATION - GC9R1)
- ⊙ GEORGES CREEK CROSS-SECTION (SAMPLE STATION - GC5)
-  STRIP MINE (ABANDONED-UNRECLAIMED - S11L102)
-  STRIP MINE (ACTIVE - S4R107)
-  STRIP MINE (ABANDONED-RECLAIMED - S7L106)
-  GOB PILE (G9R301)
- A,B,C UNDERLINED SUFFIX INDICATES FLOWING DEEP MINE SAMPLE STATIONS - M9R74A,B,C
- S7L101 UNDERLINE - INDICATES FLOWING STRIP MINE, GOB PILE, OR BORE HOLE SAMPLE STATION



**MAP OF  
SUB-WATERSHED 4R**  
(UN-NAMED)  
SCALE: 1" = 2000'

### Strip Mines

The Commonwealth records indicate there is 1 strip mine in this sub-watershed. Our field investigations located the surface mine which was not flowing. Table 36 shows the abandoned strip mine, and the following information: the name of the mine or operator if known, permit number, the acres of area mined and which seam was mined, the designation we give the mine, whether or not there is a flow, and whether there is a deep mine connection.

The total acreage of the abandoned surface mine is 20.20 acres or 8.80% of the total sub-watershed land area.

TABLE 36  
 Abandoned Surface Mines  
 Sub-watershed  
 4R

Mine Number	Name of Mine or Operator	Permit No.	Area Mined (Acres)	Seam Mined	Flowing	Connection w/Deep Mine
S4R107	Edward James Co.	10389	20.20	SEW	No	--