

3. Stoney Run Watershed

a. General

The headwaters of Stoney Run originate west of Indiana Borough and the stream flows in a generally southerly direction for approximately 4.5 miles where it discharges into Two Lick Creek near Lucerne. The total stream length including all tributaries is about 8.5 miles. The total area of the watershed is about 11.2 square miles.

Although much of the area is undermined, there are no deep mine entries nor any surface mining within the watershed. Consequently, there is no mine drainage and stream quality is relatively good.

There is some evidence of industrial and sewage pollution from factories and homes located near Indiana Borough.

Table 23 on the following page shows minimums, maximums, and yearly averages of water quality data for Sampling Station #318.

Plate 18 shows the location of the sampling station and the various tributaries of the watershed.

Plate 19 graphically illustrates the monthly relationship between stream flow, contamination load, and weather elements within the watershed.

Peak flow and contamination loads occurred during the month of August. As previously stated, the bulk of the contamination was caused by runoff from factories and homes located upstream.

Once again pH levels remained fairly stable throughout the year ranging from 6.0 to 6.6 with the lower pH's occurring during the winter months.

Figures representing the first seven months in Plate 19 are estimated due to difficulties in obtaining accurate stream readings as several weirs were destroyed by high water and ice.

Stoney Run contributed the following percentages of flow and contamination load to the total pollution load of Two Lick Creek at Sampling Station #419: Flow - 1%; Acidity - 0.3%; Iron - 0.2%; and Sulfate - 1%.

Approximately 694,000 gallons of water per day entered the Two Lick Creek System from Stoney Run during the study period.

Table 23

Water Quality Data

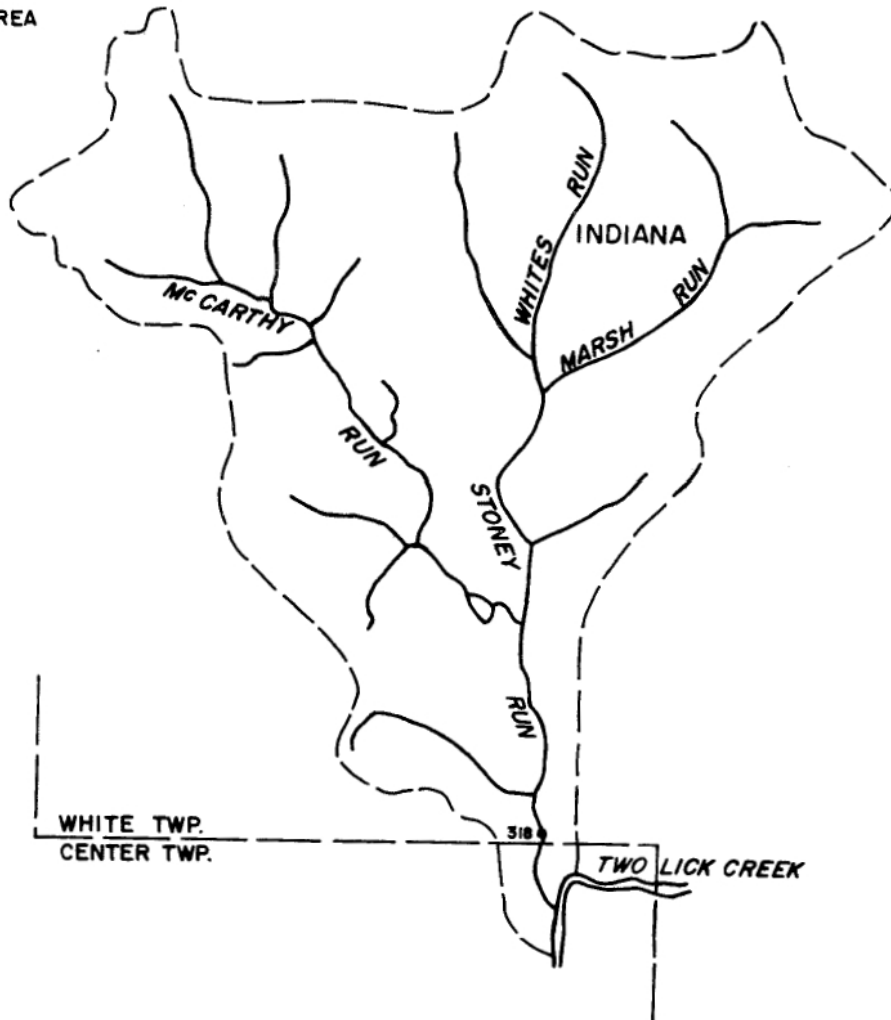
Stoney Run Watershed

<u>Sampling Station</u>	<u>Flow GPM</u>	<u>pH Range</u>	<u>Acid Load Lbs./Day</u>	<u>Acidity Mg./L.</u>	<u>Iron Mg./L.</u>	<u>Sulfate Mg./L.</u>
318	Max. 1,593 Min. 202 Ave. 482	4.6 - 5.9	31	Max. 60 Min. 1 Ave. 5	Max. 25 Min. .2 Ave. 1	Max. 310 Min. 39 Ave. 201



STONEY RUN WATERSHED

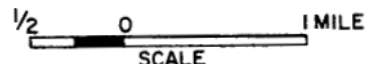


WATERSHED AREA



LEGEND

-  STONEY RUN DRAINAGE BASIN
-  SAMPLING STATION



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TWO LICK CREEK
MINE DRAINAGE POLLUTION
ABATEMENT PROJECT
 INDIANA COUNTY, PENNSYLVANIA

PREPARED FOR
 PENNSYLVANIA
 DEPARTMENT OF MINES
 AND
 MINERAL INDUSTRIES

STATION 318

STONEY RUN (Near Mouth)

RELATIONSHIP BETWEEN STREAM FLOW, POLLUTION LOAD AND WEATHER ELEMENTS

