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Stream Water Quality in the Coal Region of West Virginia and Maryland

Kenneth L. Dyer

in cooperation with Industrial Environmental Research Laboratory, Office of Research and Development, United States Environmental Protection Agency

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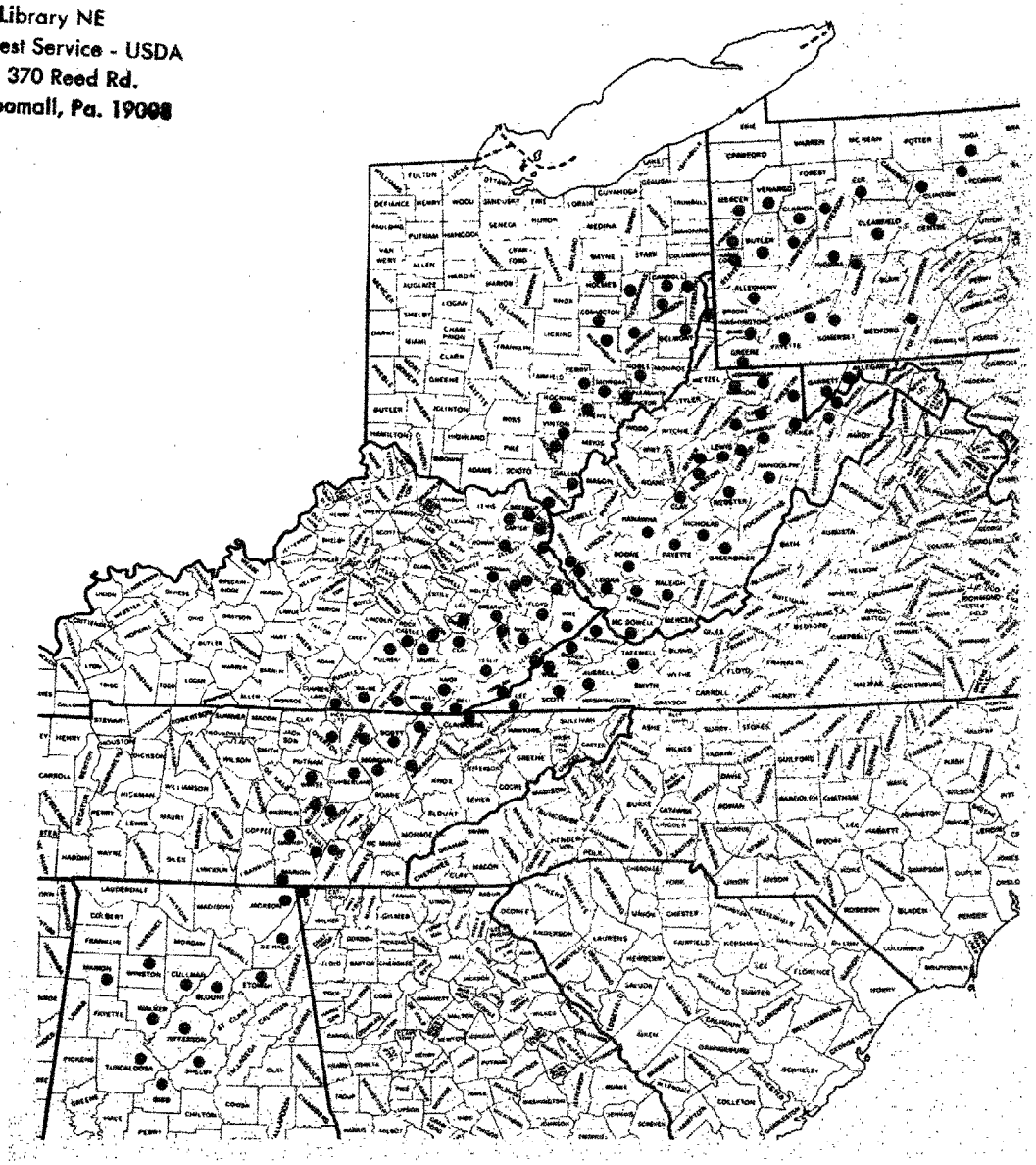

STREAM WATER QUALITY IN THE COAL REGION OF WEST VIRGINIA AND MARYLAND

by

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This study was conducted
in cooperation with
Industrial Environmental Research Laboratory
Office of Research and Development
U.S. Environmental Protection Agency
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ABSTRACT

This report is a compilation of water quality data for 118 small streams sampled in 27 counties of West Virginia and nine streams in two counties of western Maryland. Forty-eight of these streams drain unmined watersheds; 79 drain areas where coal has been surface mined. Most of these streams were sampled at approximate monthly intervals. The water quality data from these streams are presented in this report and should help fill the need for data from small watersheds in West Virginia and Maryland. Data reported include the common ions, alkalinity, acidity, pH, 16 trace elements, 5 nitrogen and phosphorus species, specific conductance, suspended solids, turbidity, settleable matter, water temperature, and estimated discharge.

Data contained in this report should not only be useful in assessing the environmental impacts on stream water quality of old and recent surface-mining for coal, it should also provide a data base of small reference watersheds which can serve as a basis for future studies. The report covers the period June 9, 1977 to November 9, 1979.

THE AUTHOR

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FOREWORD

When energy and material resources are extracted, processed, converted, and used, these operations usually pollute our environment. The resultant air, land, solid waste, and other pollution may adversely affect our aesthetic and physical well-being. Protection of our environment requires that we recognize and understand the complex environmental impacts of these operations and apply corrective measures.

This study was undertaken with the primary objective of establishing a water quality data base for small first-order unmined and surface-mined watersheds throughout Appalachia. There is a need for data that explicitly show changes in water quality attributable to past and recent surface mining. Most previous water quality data in the study area came from watersheds so large that it was impossible to isolate the effects of surface mining from the confounding effects of other human activities.

This report includes a compilation of water quality data for 118 small watersheds in West Virginia and 9 in western Maryland collected as part of a study of the effects of surface mining on water quality in Appalachia. Most streams were sampled at approximate monthly intervals for two years from about August 1977 through July 1979 in West Virginia and from October 1977 through October 1979 in Maryland. Forty-eight of these sampled watersheds were unmined; 79 contained areas that had been surface-mined for coal. These data are being released ahead of the interpretative report because of the immediate needs of many potential users.

Regulatory agencies, environmentalists, and writers of environmental impact statements will be particularly interested in these data. The water quality data base provided in this report for small reference watersheds should provide a basis for future studies and should be especially helpful in determining the probable hydrologic consequences of future mining operations.

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LIST OF ABBREVIATIONS AND SYMBOLS

AL = Aluminum
B = Boron
BA = Barium
BE = Beryllium
C = Celsius
CA = Calcium
CFS = Cubic feet per second
CL = Chloride
CO = Cobalt
CO3 = Carbonate
CU = Copper
DA = Day
DEG C = Degrees Celsius
DIS SOLID = Calculated total dissolved solids
EST DISCH = Estimated Discharge
F = Filtered water sample (see Table 3)
FA = Filtered water sample preserved with nitric acid (see Table 3)
FE = Iron
FN = Filtered water sample preserved with sulfuric acid (see Table 3)
FP = Filtered water sample preserved with mercuric chloride (see Table 3)
HCO3 = Bicarbonate
JTU = Jackson turbidity units (assumed to be equivalent to both nephelometric and formazin turbidity units)
K = Potassium
KJ = Unfiltered sample preserved with sulfuric acid (see Table 3)
L (or 1) = Liter
LI = Lithium
MG = Magnesium
MG/L (or mg/l) = Milligrams per liter. Essentially the same value as parts per million for concentrations given in this report.
ML/L (or ml/l) = Milliliters per liter
MO = Molybdenum (when found under the date heading MO = Month)
MN = Manganese
N = Nitrogen
NA = Sodium
NEUT RATIO = Neutralization ratio
NH3 = Ammonia
NI = Nickel
NO3 = Nitrate plus nitrite as N, determined on an unpreserved sample (sample F)
*NO3 = Nitrate plus nitrite as N, determined on a sample preserved with H_2SO_4 (sample FN)
ORTHO PO4 = Orthophosphate
P = Phosphorus
PB = Lead

PH = pH
SA = Unfiltered water sample preserved with nitric acid (see Table 3)
SETT MATTER = Settleable matter
SI = Silicon
SO4 = Sulfate
SPEC COND = Specific conductance at 25° Celsius
SR = Strontium
SUSP SOL = Suspended solids
SV = Unfiltered, untreated water sample for settleable matter analyses (see Table 3)
TEMP = Temperature
TI = Titanium
TKN = Total Kjeldahl nitrogen
TOT = Total
TURB = Turbidity
U = Unfiltered, untreated water sample (see Table 3)
UM/CM = Micromhos/centimeter
YR = Year
ZN = Zinc

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The cooperation of the West Virginia Department of Natural Resources, Division of Reclamation and the Maryland Department of Natural Resources, Bureau of Mines is gratefully acknowledged. Personnel from these agencies designated those areas in which sites suitable for this study might be found. Numerous individuals, including landowners and mining company representatives, cooperated in this study by helping select watersheds which met the criteria for this study, or by allowing access onto or over their land so that the samples might be taken, or both.

SECTION 1

INTRODUCTION

Surface mining throughout Appalachia is known to cause changes in the quality of water downstream from the mined areas (U.S. Army Corps of Engineers and others 1969). Numerous water quality sampling sites have been established on Appalachian streams since 1950, but most of these are on streams that drain large watersheds with multiple land uses so that it is not possible to correlate surface mining with downstream water quality.

A network of sampling sites on small first-order surface-mined and unmined watersheds throughout Appalachia was needed so that water quality data could be correlated with the type and date of surface mining, the type and date of reclamation, and the type of coal mined. These small reference watersheds should provide a good data base for future studies to aid in determining differences in stream water quality from mined and unmined watersheds, differences in the effects of various mining and reclamation techniques on water quality, and water quality recovery rates in streams that have been affected by mining.

Such a network of sampling sites was established in 1977 in the 135 Appalachian counties in nine states where coal was surface mined. The three sites initially selected in each county were to represent three watershed conditions: (1) unmined, (2) surface mined before January 1972, and (3) surface mined after January 1972. The 135 Appalachian counties which comprise the study area are mapped in Figure 1.

Starting in June 1977, 118 water sampling sites were established in 28 counties of West Virginia and nine sampling sites were established in the two western-most counties of Maryland. Surface mining for coal was practiced in all of these counties except Wayne County, West Virginia. Most of these sites were sampled at approximately monthly intervals until July 1979.

Time was not available for a detailed examination of each watershed, so some may not now be correctly classified by mining status, dates of mining, or hydrologic boundaries. The user of this report should not make crucial decisions based on these data unless the classification of the site can be verified. Verification of mining activity is of special concern as there may be old, unreported underground mine discharge in some watersheds.

Ultimately the data from throughout Appalachia should help determine which methods of surface mining are most effective in reducing the quantity of pollution reaching streams. An interpretive report covering the entire Appalachian study area is to be published later.

SECTION 2

STUDY METHODS

SITE SELECTION

A critical element in collecting valid water-quality data is site selection. Procedures and criteria used for site selection follow:

General Criteria for all Watersheds

1. A first order stream was to be selected if at all practical. A first-order stream is defined as a stream with perennial flow but without perennial tributaries. Information provided by local residents was often used to identify perennial streams. When possible, sampling sites were selected at points where flow was over bedrock to lessen the chance of contamination of samples with streambed materials, to increase likelihood of perennial flow, and to improve the discharge estimates.

2. Springs flowing from hillsides were not to be sampled.

3. When possible watersheds from 50 to 250 acres were selected.

Criteria for Unmined Watersheds

1. These watersheds were to be strictly unmined.

2. These watersheds were to have no roads or cuts which exposed bare ground. Old revegetated logging roads and skid trails were allowed.

3. These watersheds were not to be farmed, disturbed, or developed in any way.

4. Watersheds that were completely forested were to be selected if at all possible; when no completely forested watersheds were available, one that was part forest and part grassland or pasture was substituted.

5. Unmined watersheds were to be as close as possible to the mined watersheds, and as similar in aspect as possible.

6. There were to be no plans to mine or develop the watershed within the 2-year study period.

Criteria for Newly Mined Watersheds

1. No mining should have occurred before January 1972.

2. From 10 to 100 percent of the watershed should have been disturbed by surface mining after January 1972. Active surface mines were permitted on watersheds in this category. Old mines that were worked before January 1972, were permitted provided that all surfaces exposed to the atmosphere before then were completely reworked after January 1972.

3. When possible, watersheds were to be selected where only one seam of coal had been or was being mined. This was to make it possible to better evaluate the effects of mining each coal seam on water quality. Watersheds with two or more seams of coal mined were selected when these were the best available.

Criteria for Old Mined Watersheds

1. No mining or reclamation should have occurred since January 1972.

2. From 10 to 100 percent of the watershed should have been disturbed by surface mining before January 1972.

3. When possible, watersheds were to be selected where only one seam of coal had been mined. Watersheds with two or more seams of coal mined were selected when these were the best available.

4. There should be no plans for further mining or development in the watershed within the 2-year study period.

Problems in Site Selection

Site selection was carried out under severe time restraints; therefore, few of the watersheds selected met the specified criteria fully. Many of the watersheds initially classified as either old mined or newly mined have been found to be a mixture of the two. These have been arbitrarily given site classification numbers indicative of newly mined watersheds--even though in some cases the old mining may have had a greater impact on water quality.

Underground mines were prevalent over much of the area in West Virginia and Maryland, making it difficult to find watersheds suitable for study there. Time was not available for close examination of the watersheds, thus some may not be what they appeared to be from the limited information then available on mining status, dates of mining, or hydrologic boundaries.

SITE NOMENCLATURE

Site Numbers

Four-digit site numbers were assigned thus:

First digit designates state:

1. Alabama	4. Maryland	7. Tennessee
2. Georgia	5. Ohio	8. Virginia
3. Kentucky	6. Pennsylvania	9. West Virginia

Second and third digits designate county:

(See Tables 1 and 2 for county numbers)

Fourth digit:

0 used as needed for any watershed condition

1, 4, or 7 indicates an unmined watershed

2, 5, or 8 indicates a watershed that has been surface mined since January 1972 (surface mining may still be in progress on some of these)

3, 6, or 9 indicates a watershed that was surface mined before January 1972

Example: In site number 9012 the 9 indicates West Virginia, the 01 indicates Barbour County, and the 2 designates this as a watershed on which surface mining for coal has occurred after January 1972.

Site Names

Names are taken from U.S. Geological Survey topographic maps of the 7-1/2 minute series (scale 1:24,000). The site is designated as being at a community when it is within a mile of the center of the community or within the urbanized area of the community. The site is designated as being near a community when it is more than a mile from the center of the community and outside an urbanized area.

STREAM SAMPLING PROCEDURES

Samples collected as part of this study are listed in Table 3 with treatment, time interval over which collected, and approximate volume of sample.

In addition to the samples described in Table 3 two samples of bottom material (generally rocks, sand, gravel, and/or mud) were collected from the bottoms of most streams sampled, one early in 1978 and one early in 1979. These samples were analyzed by X-ray diffraction for mineralogy and by X-ray fluorescence for major and minor elements including aluminum, calcium, iron, manganese, magnesium, potassium, silicon, and titanium. Data from the analyses of these samples are not given in this report but will be released later.

All samples were collected in plastic bottles, rinsed twice with at least 25 ml of the water being collected. Attempts were made to collect representative stream samples free of bottom material, floating debris, or material put in suspension through disturbance of the stream bottom. Unfiltered samples (KJ, SA, SV, and U) were generally dipped from flowing water or pools, but in extremely shallow streams these samples were collected with a 50-ml prerinsed syringe. When necessary, a clean thin rock was placed on the stream bottom at the collection site to avoid inadvertent collection of bottom material with the syringe.

All filtered samples were collected in a 50 ml plastic syringe and forced through a 0.45-micron type HAWG millipore filter 47 millimeters in diameter. The syringe was prerinsed with two 50 ml slugs of sample water and each filter was prerinsed with 50 ml of sample water. Filters for samples FN and FP (see Table 3 for description) were prerinsed with 200 ml of distilled water or sample water. Collection of samples F and FA generally sufficed for the prerinsing of the filters for samples FN and FP. A few samples were so muddy they could not be filtered at the site; so, liter samples of these were collected, allowed to settle a few hours, and then filtered.

Samples were refrigerated from the time they were received in Berea until they could be analyzed. As much as 2 weeks could pass between collection and refrigeration. Samples were usually stored in the refrigerator a month or two before they were analyzed in the lab. Samples were protected from freezing during the winter.

FIELD MEASUREMENTS

Field measurements were performed concurrently with stream sampling. The reported stream discharges are all listed as estimates, though in a very few cases the discharge was computed when the entire flow was allowed to fill a cup or bucket of known volume during a measured time. Discharge in cubic feet per second was generally estimated by multiplying the mean estimated cross-sectional area of flow in square feet by the mean surface velocity (estimated by movement of a floating leaf or stick) in feet per second times a roughness factor. The assigned roughness factors ranged from 0.5 to 0.9 and were designed to compensate for differences in stream channel shape and roughness.

Field pH measurements were obtained at streamside for most samples collected during the first half of the study. These were generally measured in the flowing stream unless velocities exceeded about 0.5 ft/sec, in which case they were measured at streamside in a cup of water collected for the purpose. Field pH readings were made with a Markson digi-sense pH meter, Model 5985-40, which was standardized with two buffers at each sampling site. The collection of field pH values was discontinued after we discovered that even under carefully controlled laboratory conditions the field meters were giving pH values for natural waters which, though stable, sometimes differed by as much as two whole pH units from readings taken only a few minutes before. Time was not available either to ascertain why field pH readings were inconsistent or to develop a better system for measuring. Because of the unreliability of many of these values, no field pH data are included in this report.

Water temperatures were measured with a thermometer placed in a flowing portion of the stream and are reported in degrees Celsius.

LABORATORY ANALYSES

Most analyses given in this report were determined at the laboratory of the Surface-Mined Area Reclamation Research Unit of the Northeastern Forest Experiment Station in Berea, Kentucky. Most samples of suspended solids were analyzed at Eastern Kentucky University in Richmond, Kentucky under the direction of Dr. Samuel S. Leung, Department of Geology. Special Nutrient samples collected between June 23 and September 5, 1979, were analyzed at the Argonne National Laboratory at Argonne, Illinois, under the direction of Dr. Richard D. Olsen.

An attempt was made to maintain the same analytical techniques throughout the study; however, this was not always possible. Changes and the dates they were instituted have been specified in the following discussions of individual parameters.

Elemental Analyses by Emission Spectrometer

A total of 31 elements was analyzed on the "FA" samples using a Spectraspan III emission spectrometer with DC argon plasma source. Data for 20 of these elements are included in this report. These 20 elements are tabulated in Table 4 along with approximate detection limits and approximate levels of reproducibility.

Concentrations of 11 additional elements were obtained but are not published in this report because their concentrations in natural waters were generally far below the detection limits of the emission spectrometer. These elements and their approximate detection limits in mg/l are: Arsenic (3), bismuth (5), cadmium (0.5), chromium (0.1), germanium (0.1), mercury (0.05), phosphorus (0.7), selenium (0.3), silver (0.05), tin (0.2), and vanadium (0.2).

Other Analyses

Descriptions of the remaining laboratory analyses (anions, nutrients, physical parameters, and calculated values) follow in alphabetical sequence.

Acidity--

Reported as mg/l calcium carbonate equivalent and analyzed in accordance with a modification of the procedure published in Methods for Chemical Analysis of Water and Wastes (EPA 1974). A 25-ml portion of the filtered "F" sample was first acidified to pH 4.0 with 0.02 N H_2SO_4 with a Mettler autotitrator consisting of modules DK 10, DK 11, DK 12, DK 13, and DV 210. Three drops of 30 percent H_2O_2 were then added and the sample boiled for 2 to 4 minutes. Upon cooling, samples were titrated by autotitrator with either 0.02 N NaOH; or 0.1 N NaOH. Paired aliquots titrated with 0.1 N NaOH and containing less than 20 mg/l acidity as $CaCO_3$ differed from their respective means by an average of $\pm$ 2.4 mg/l while those containing more than 20 mg/l acidity as $CaCO_3$ differed from their respective means by an average of $\pm$ 6.9 percent. Paired samples titrated with 0.02 N NaOH should be in much better agreement in the lower range and in slightly better agreement in the upper range.

Negative acidity values represent excess alkalinity contributed by constituents such as bicarbonates. Negative acidities are frequently reported as zero but the negative values are needed if the final acidity of a mixed water system is to be computed from the acidities of each of its component waters. In general, the negative acidities should be fairly close in absolute value to the alkalinity concentrations, though there can be exceptions.

Acidity is normally determined on unfiltered and untreated raw water samples but such samples were not available at the end of the study when the decision was made to analyze the available samples for acidity. Only filtered samples were available then, so the acidity data reported may differ appreciably from what would have been obtained from unfiltered, untreated samples. If the sediment contained pyritic materials, as was sometimes the case in the study area, then the unfiltered samples would have been higher in acidity than the filtered samples used in this study. If the sediment contained carbonate minerals (rarely the case in the study area) then the unfiltered samples would have been lower in acidity than the values given in this report.

Alkalinity--

Reported as mg/l calcium carbonate equivalent. A 25 ml portion of the "F" sample was titrated with 0.02 N H_2SO_4 to a calculated end point using a Mettler autotitrator (described above). During the first few months of the study alkalinity was determined on 50 ml portions of the unfiltered, untreated "U" sample. After it was observed that the pH of a few of the "U" samples dropped appreciably during storage before analysis, the remaining alkalinities were determined on 25 ml portions of the "F" samples. It had been observed that the "F" samples were not only more stable than the "U" samples, but maintained pH

values that agreed more closely with field pH values. The titration was done in two steps, first to a preliminary end point at pH 5.64, then to a final computed end point based on the number of milliliters of titrant required to reach the preliminary end point. Samples with pH values less than 5.64 were assumed to have no measurable alkalinity. The end points used were essentially the same as those given by Barnes (1964, p. H15, Table 4) but minor corrections were added to account for dilution of the samples by titrant.

Alkalinities of the filtered samples used in this study may be either higher or lower than alkalinities that would have been measured in unfiltered samples, as explained in the preceding section on acidity.

During storage calcium carbonate tended to precipitate from many of those samples in which alkalinity exceeded about 100 mg/l. The reported alkalinity, carbonate, and bicarbonate values from these samples may be lower than the concentrations that would have been found had the samples been analyzed before storage.

Ammonia--

Reported as mg/l N. Ammonia was analyzed on the "FN" sample with a Technicon autoanalyzer II using industrial method number 154-71W tentative, dated February 1973. Technicon gives the detection limit for this method as 0.024 mg N/l and the coefficient of variation at 0.14 mg N/l as 0.31 percent.

Bicarbonate--

Computed from alkalinity, pH, and ionic strength using the formula:

$$HCO_3 = \frac{(1.219)(A2)(HYD)(ALK)}{(9.6 \times 10^{-11}) + (HYD)(A2)}$$

Wherein HCO_3 is bicarbonate in mg/l, ALK is the alkalinity in mg/l calcium carbonate equivalent, HYD is the hydrogen ion concentration in moles/l computed by: HYD = antilog (-pH), and A2 is the activity coefficient for divalent ions computed from the equation:

$$A2 = \text{antilog} \frac{-2.034 \quad \sqrt{I}}{1 + 1.64 \sqrt{I}}$$

where I is the ionic strength (Garrels and Christ 1965, p. 61-62). The value 1.64 is the product of 0.3281 (Garrels and Christ 1965, Table 2.6) and 5 [an approximate value for major ions in the streams sampled (Garrels and Christ

1965, Table 2.7)]. This equation is valid when the total ionic concentration is less than or equal to 0.1 mole per liter and the sample temperature is near 25° C. The ionic strength, I, is defined by:

$$I = 0.5 \sum_{i=1}^{n} C_i Z_i^2$$

wherein n is the number of ion species, i, in the solution; C_i is the concentration in moles/l of ion species, i, in the solution; and Z_i is the charge (or volence) of the ion (Garrels and Christ 1965, p. 56).

Carbonate--

Computed from alkalinity and bicarbonate using the equation:

$$CO_3 = 0.4917\ (1.219\ ALK - HCO_3)$$

wherein CO_3 is carbonate as mg/l, HCO_3 is bicarbonate is mg/l, and ALK is alkalinity in mg/l calcium carbonate equivalent.

Chloride--

Except for the last few samples chloride was determined on the "F" sample with a Technicon autoanalyzer II using industrial method number 99-70 W/B released September 1974, revised February 1976. This procedure depends on the liberation of thiocyanate ion from mercuric thiocyanate by the formation of soluble, un-ionized mercuric chloride. In the presence of ferric ion, the liberated thiocyanate forms a highly colored ferric thiocyanate proportional to the original chloride concentration. Technicon gives the coefficient of variation of this method at 5.0 mg/l as ± 0.42 percent, and the detection limit as 0.2 mg/l.

Chloride samples collected during the last 2 months of the study were analyzed on a Coulter Industrial Kem-O-Lab, model IKL, using procedures supplied with the instrument dated February 1979. This procedure uses ferric thiocyanate as the colorimetric indicator and is similar to the automated method described in Methods for Chemical Analysis of Water and Wastes (EPA 1974, p. 31-34). The detection limit is about 0.1 mg/l.

Conductivity--

See Specific Conductance

Dissolved Solids--

See Total Dissolved Solids, calculated

Neutralization Ratio--

Computed from the equation:

$$\text{Neutralization ratio} = \frac{\text{gross alkalinity (in meq/l)}}{\text{gross acidity (in meq/l)}}$$

$$= \frac{(Ca^{++} + Mg^{++} + Na^{+} + K^{+}) - (Cl^{-} + F^{-} + NO_3^{-})}{SO_4^{=}}$$

wherein all ions in the water sample are reported in milliequivalents per liter (Hollyday and McKenzie 1973, p. 24-25). The neutralization ratio is unity when the gross alkalinity produced during formation and neutralization of mine drainage is equal to the gross acidity produced concurrently. A neutralization ratio greater than 1.00 indicates that the alkalinity formed was more than enough to neutralize the gross acidity from sulfuric acid released to the water by oxidation of iron sulfide.

Fluoride concentrations were not obtained as a part of this study and so were omitted from the computation of the neutralization ratios. Since fluoride rarely exceeds a few mg/l in natural waters and is low in comparison to the other ions summed in the computations, only negligible errors have been introduced by its omission.

Nitrate--

See Nitrate Plus Nitrite

Nitrate Plus Nitrite--

Nitrate and nitrite were analyzed together on the "F" sample with a Technicon autoanalyzer II using a modification of industrial method number 100-70W, released September 1973. Nitrate is reduced to nitrite by a copper-cadmium reductor column developed by Willis (1980). The nitrite ion reacts with sulfanilamide under acidic conditions to form a diazo compound, which couples with N-1-naphthylethylenediamine dihydrochloride to form a reddish purple azo dye. Technicon states that the coefficient of variation at 1.0 mg N/l is 0.31 percent and that the detection limit is 0.04 mg N/l.

The preserved "FN" samples collected late in the study were analyzed by the Argonne National Laboratory using a similar procedure (Technicon industrial method number 158-71W/A tentative, released December 1972, revised June 1977). The Argonne National Lab reported the detection limit using this method as 0.1 mg N/l.

Nitrite--

See Nitrate Plus Nitrite

Nitrogen, Total Kjeldahl--

Total Kjeldahl nitrogen was analyzed simultaneously with total phosphorus on the "KJ" sample using a Technicon autoanalyzer II and industrial methods number 376-75W/B, released November 1975, and number 334-74W/B released January 1976, both methods revised March 1977. The Argonne National Laboratory reported the detection limit using this method as 0.20 mg/l.

Orthophosphate--

Orthophosphate was analyzed colorimetrically on the "FP" sample with a Technicon autoanalyzer II using industrial method number 155-71W tentative, released January 1973. Ammonium molybdate reacts in an acid medium containing ascorbic acid and antimony to form a phosphomolybdenum-blue complex. The Argonne National Laboratory reported the detection limit using this method as about 0.01 mg/l.

pH--

Reported as pH units. The laboratory pH values were initially analyzed on the unfiltered "U" samples; but after a few months were analyzed only on the filtered "F" samples after it was observed that the latter were in closer agreement with field pH measurements than were the former. The pH value of many of the "U" samples tended to change appreciably (usually to lower pH values) during a few weeks in storage, while the pH value of almost all the "F" samples remained nearly constant for a year or more. Five different types of meters were used to measure pH values. Two of these were highly accurate while two used during the first half of the study were frequently in error, sometimes by as much as two full pH units. Questionable pH values were rerun using one of the more reliable meters when sufficient sample remained.

Phosphorus, Total--

Total phosphorus was analyzed simultaneously with total nitrogen on the "KJ" sample using a Technicon autoanalyzer II and the same methods given earlier for total Kjeldahl nitrogen. The Argonne National Laboratory reported the detection limit using this method as 0.05 mg/l.

Settleable Matter--

Settleable matter was determined as the volume of material settling in an Imhoff cone in 45 minutes, in accordance with the procedure given in Standard Methods for the Examination of Water and Waste Water (APHA 1975, p. 95-96). Precision data are not available but samples were usually read to hundredths of a milliliter. Settleable matter was determined on the approximately 1-liter "SV" sample.

Specific Conductance--

Reported as micromhos/cm at 25° Celsius. Specific conductance was determined on the "U" sample during the first few months of the study, then on the "F" sample for the remainder of the study. This change was made because some samples containing sediment increased in conductivity after a few months storage. The use of the "F" sample gave more reliable results, since most samples were stored prior to analysis. Samples collected during the first third of the study were analyzed on a Yellow Springs Instrument Company model 31 conductivity bridge which gave values reproducible to within ± 30 percent. Many of these samples were rerun on the equipment used for the later samples.

The last two-thirds of the samples were analyzed using improved techniques and a temperature-compensated Markson Electromark analyzer. Precision data are not available but sample reproducibility is about ± 2 percent.

Sulfate--

Sulfate was analyzed on the "F" sample during the first few months of the study, and on the "FA" sample during the remainder of the study. The change was made to avoid interference from the precipitate which formed in some of the unacidified samples. Sulfates were analyzed by a turbidimetric technique using Sulfaver IV powder pillows (Hach Chemical Company 1970, p. 91). Absorbance by the barium sulfate suspension was measured using a Bausch and Lomb Spectronic 20 spectrophotometer. Sulfate standards deviated as much as ± 30 percent from the known concentration when measured from this standard curve. In the latter months of the study the standard curve was calibrated daily, and data obtained during this period probably did not deviate more than about ± 15 percent from the true values.

Suspended Solids--

Suspended solids were determined gravimetrically on either the "U" or "SA" sample using Millipore 47-mm fiberglass filter paper (equivalent to about 0.45 micron pore size), and an analytical balance sensitive to 0.1 mg. Samples and filter paper were dried at 105° C for a minimum of 4 hours and cooled 1.5 hours in a desiccator before being weighed. Acidified "SA" samples were used in the beginning of the study to prevent precipitation of salts which might add to the suspended solids concentration. Unacidified samples were used after a preliminary investigation indicated that error due to precipitation of salts was negligible, and that dissolution of some of the sediment by the acid might introduce a larger error. A further inspection and analysis of "U" and "SA" samples late in the study indicated that during storage there had been appreciable precipitation of iron compounds from the more acid samples, and of calcium carbonate from the more alkaline samples. In either case this would cause the measured suspended solids concentrations to be higher than they would have been at the time the samples were collected. Unreasonably high suspended solids values were systematically deleted when field notes indicated that the streams had been

clear when sampled and when orange or yellow precipitates of iron compounds had formed before analysis. Suspended solids concentrations were less seriously affected by precipitation of calcium carbonate (most adhered to the walls of the container), so little effort was made to delete data that might have been affected by this precipitate. Samples collected during the first half of the study were stored for a year or more before analysis for suspended solids and so are more likely to have been affected by precipitates than the remaining samples, which received more prompt analysis.

The "U" and "SA" samples were collected solely for turbidity and suspended solids analyses; nevertheless, by the time the suspended solids analyses were performed an appreciable part of many of these samples had been lost--either through use in other analyses or through slow leakage from overturned containers. In both cases supernatant liquid was lost, leaving essentially all the now-settled suspended solids. All samples weighing less than 100 grams were corrected for this loss of liquid and were assumed to have weighed exactly 100 grams when collected. Suspended solids concentrations in these 100-ml samples are not highly reproducible, so errors introduced by this type of sample reconstruction should be minor by comparison. Most of these samples were collected from shallow streams and there is some evidence that the recommended collection techniques were not always carefully followed. Traces of bottom material, algae, and/or floating debris probably account for many of the higher values observed in the unmined watershed samples. Suspended solids data were deleted where there was evidence that bottom materials (generally sand and gravel) had been scooped up from the streambed during seasons of low flow. The true suspended solids concentrations should almost always be equal to or less than the reported values.

A big percentage of the samples were clear and without visible turbidity. Careful work by the author indicated that most of these should contain no more than 4 or 5 mg/l suspended solids. After a certain date, the suspended solids data generated by two of the eight analysts stand apart in that most of them run 20 to 100 mg/l higher than data by the other analysts, or data analyzed earlier by these two analysts. The data in question, 2,300 values out of a total of 6,400 analyzed can readily be identified as work of these two analysts from the data alone. Suspended solids data that ran about 40 to 100 mg/l or more above the norm for one group of 300 of these samples were deemed so defective that all of them were deleted. Most of the remaining 2,000 questionable values have been left in the various state reports but they have been marked with asterisks to indicate that they are 5 to 80 mg/l (generally 20 to 40 mg/l) higher than the true values.

Total Dissolved Solids, Calculated--

The calculated total dissolved solids value is the sum of all the dissolved constituents and approximates the quantity of dry residue that would be left after evaporation. It is assumed that all the bicarbonate is converted to carbonate and carbon dioxide when evaporated to dryness at 180° C, so the bicarbonate is multiplied by 0.4917 to give an estimate of residual carbonate. The silicon value is multiplied by 2.142, on the assumption that silicon dioxide residue is left upon evaporation.

Turbidity--

Reported as Jackson turbidity units (JTU)--equivalent to formazin or nephelometric turbidity units. Turbidity was measured on the "U" samples except for a few measured on "SA" samples. Transmittance of light through the sample contained in a 1-inch test tube was measured at a wavelength of 450 nanometers with a Bausch and Lomb Spectronic 20 spectrophotometer. Turbidity was determined from transmittance using a table prepared by the Hach Chemical Company (1970, p. 97). This table was prepared from standard formazin solutions calibrated with a Jackson candle turbidimeter. Recent checking indicates that this table is not very suitable for analysis of natural water samples in that values obtained in the more turbid samples were highly dependent upon the dilution chosen. Turbidities computed from a transmittance of 80 would be about double those computed from a transmittance of 20.

The turbidity values reported have not been corrected for the small positive bias which may have been introduced by the presence of true color in some of the water samples. Numerous analysts produced the turbidity data contained in this report and it is obvious that some of them deviated from the prescribed methods, perhaps by not adequately dispersing the settled materials or by using 1/2-inch test tubes instead of 1-inch test tubes. In general, most of the questionable data appear to be too low. The most obviously defective turbidity data were deleted. Unreasonably high turbidity values were systematically deleted when field notes indicated that the water had been clear when sampled but the orange and yellow precipitates of iron compounds had formed before analysis.

SECTION 3

RESULTS

A tabulation of sites by site number, county, date of surface mining, latitude, longitude, surface drainage area, percentage of land disturbed by surface mining, and site name is given in Tables 1 and 2. Site locations and watershed boundaries were drawn on U. S. Geological Survey 7 1/2 minute topographic maps which are reproduced in Figures 2 through 71. Field observations and analytical data are tabulated in Tables 5 through 131. An interpretive report, to be released later, will cover all nine states in the Appalachian study area.

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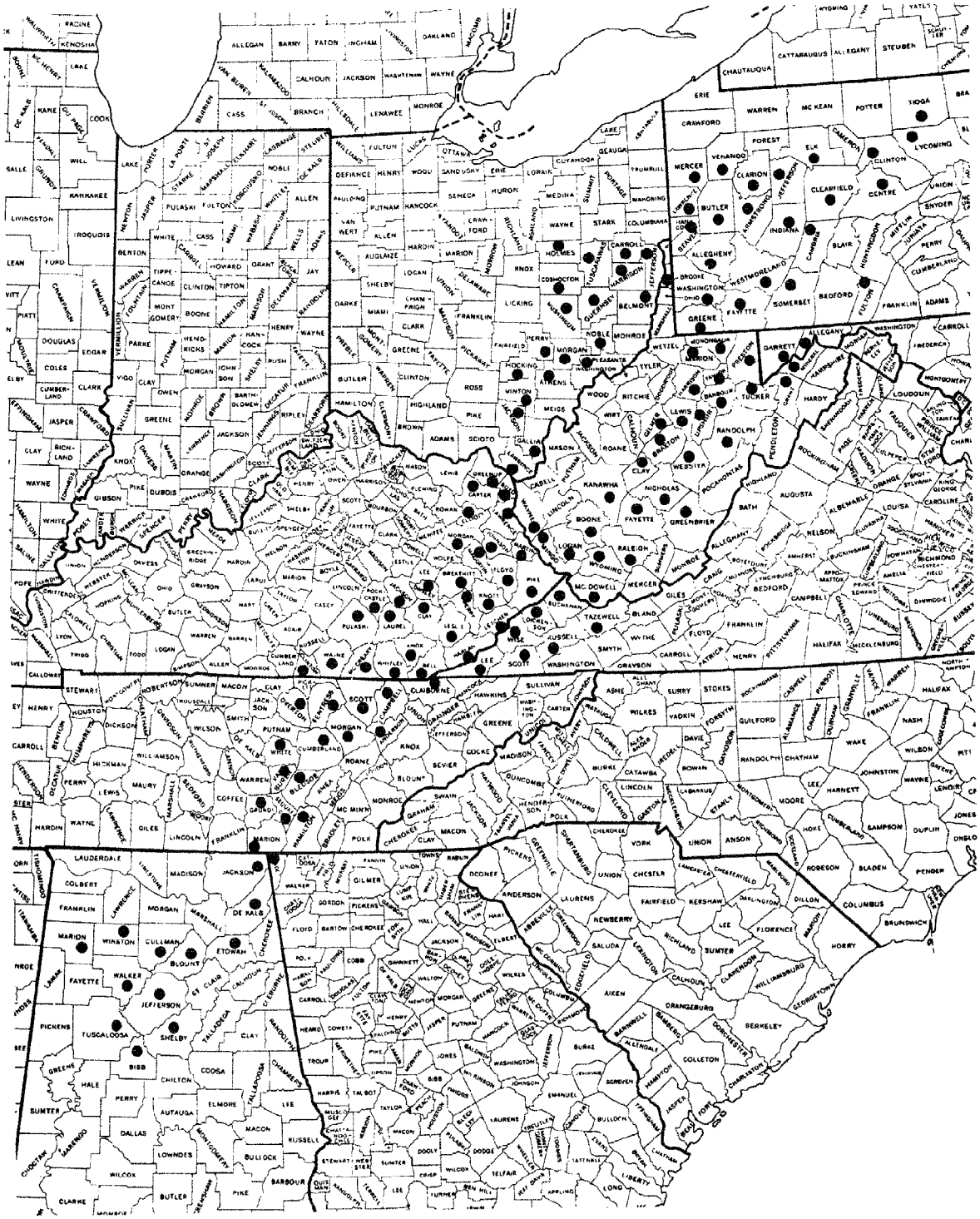

Figure 1. The study area. (Each dot marks one of the 136 Appalachian counties included in this study)

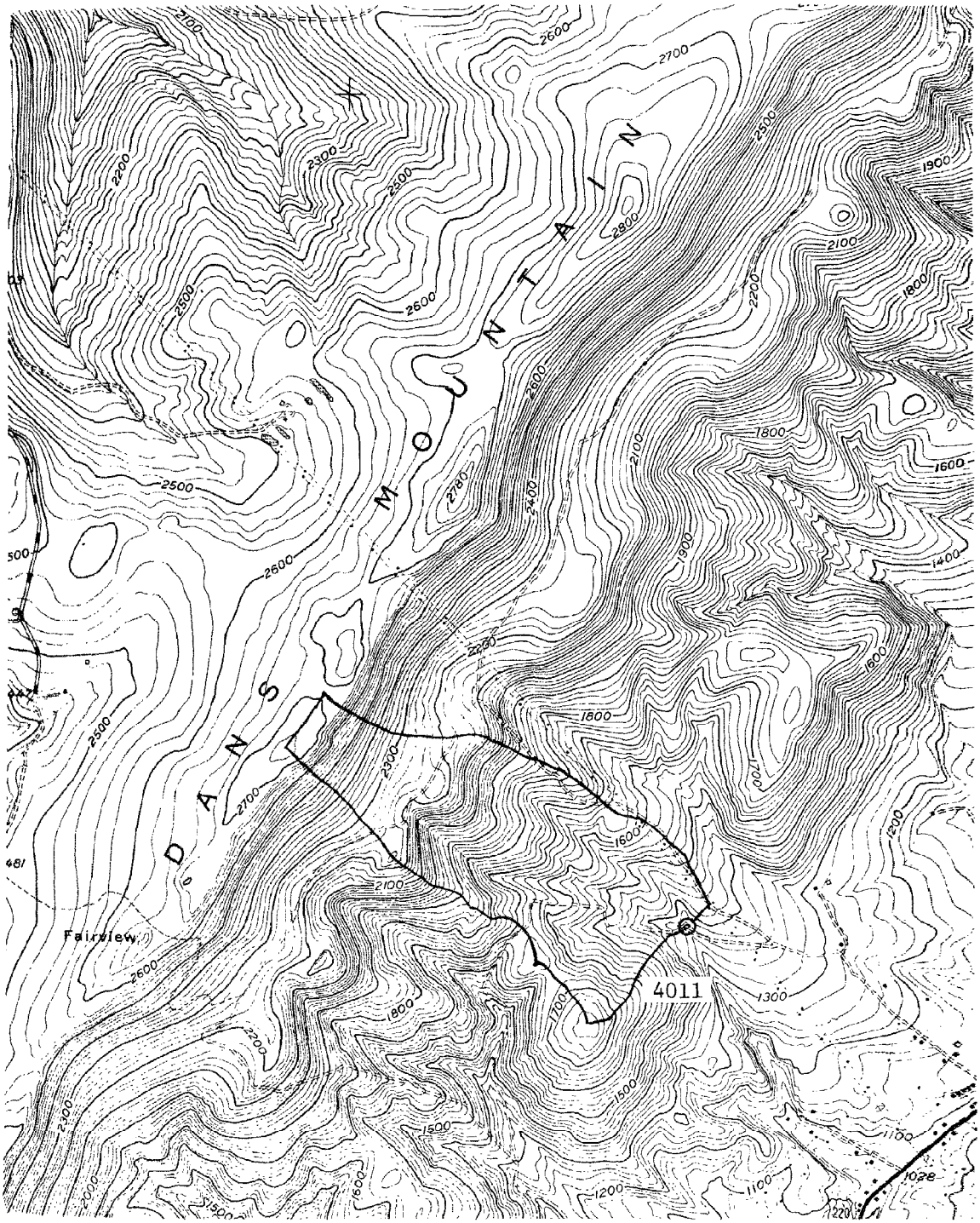

Figure 2. Location map for site 4011, Allegany Co., Maryland. Lonaconing Quadrangle.

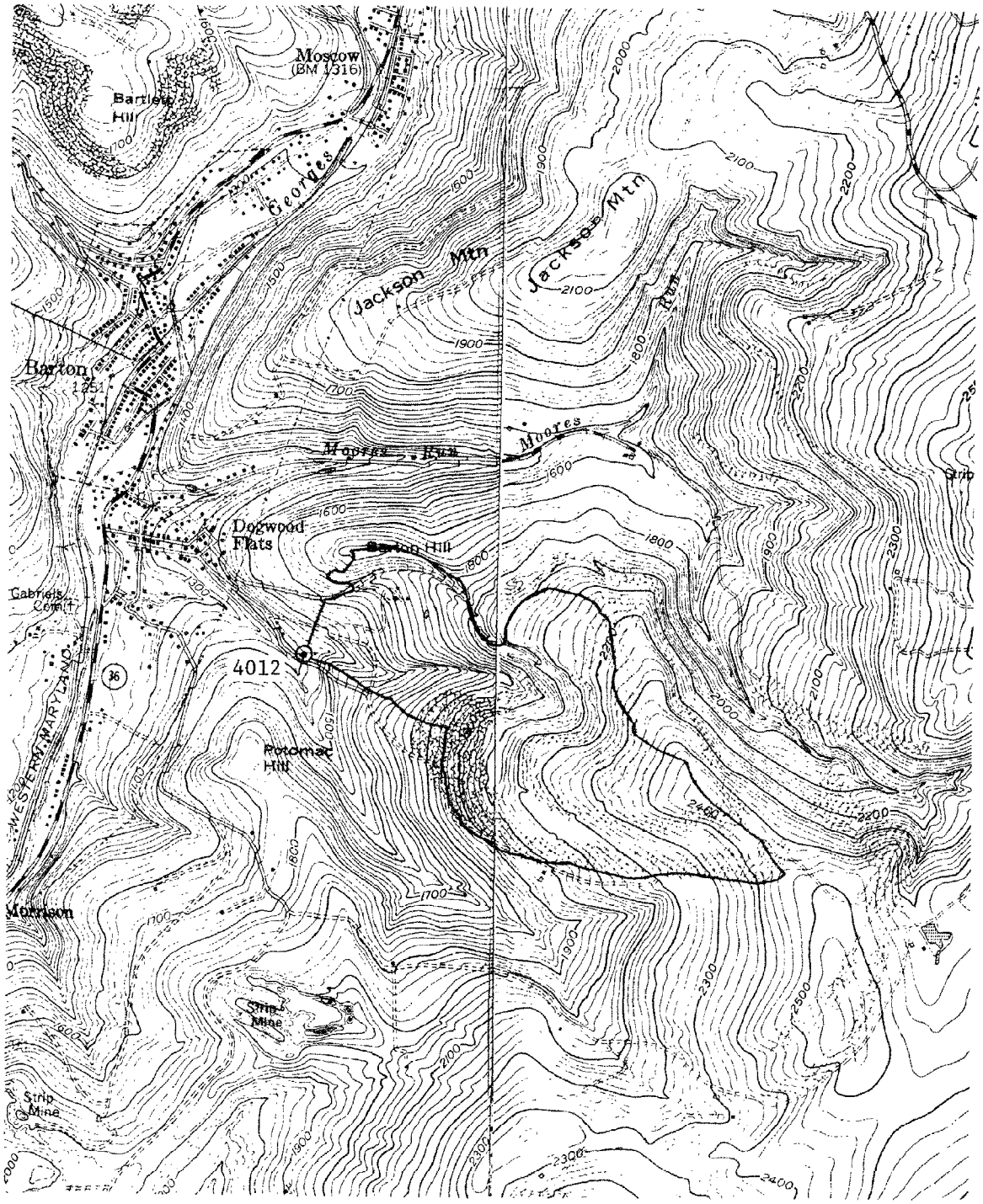

Figure 3. Location map for site 4012, Allegany Co., Maryland. Allegany and Lonaconing Quadrangles.

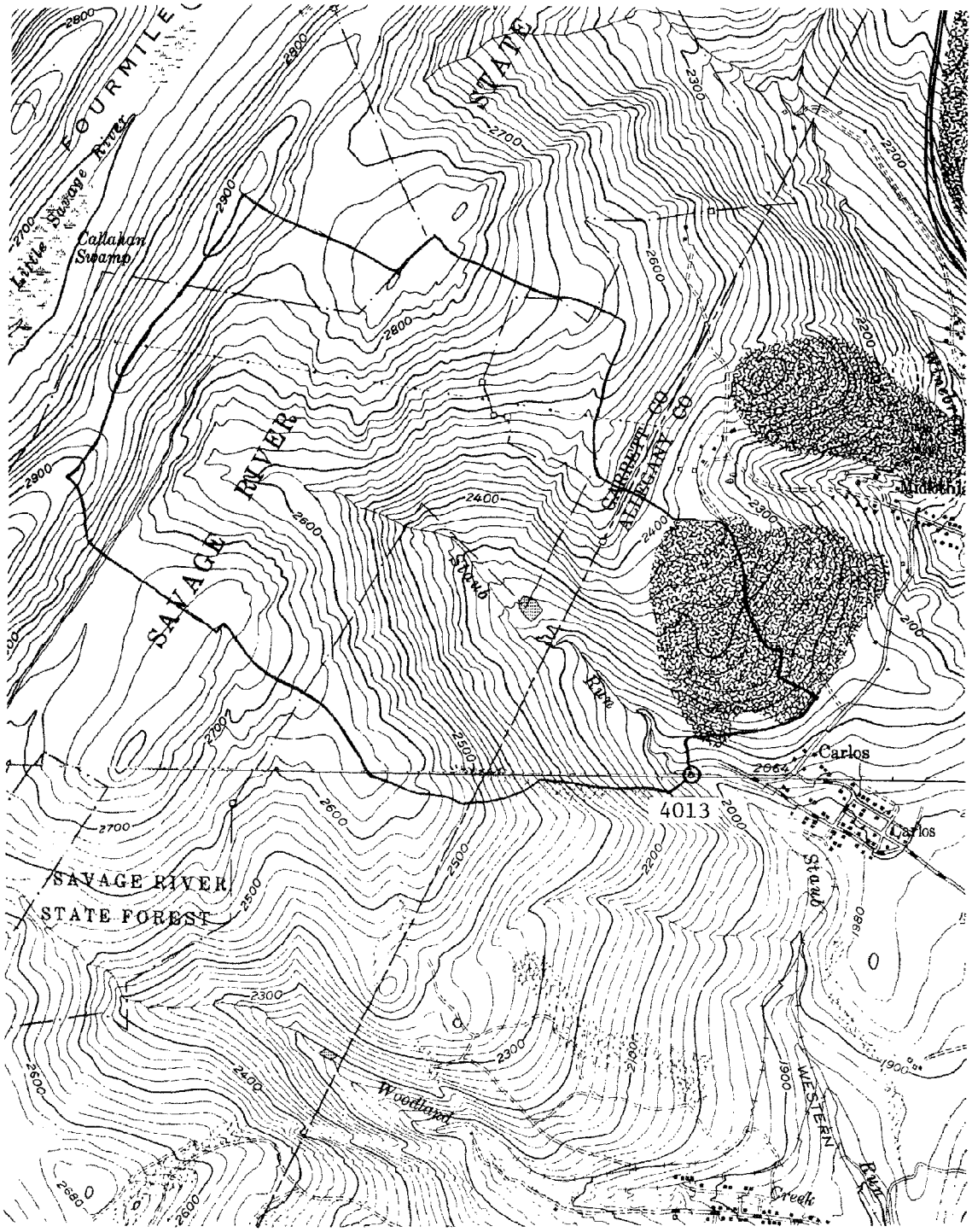

Figure 4. Location map for site 4013, Allegany Co., Maryland. Frostburg and Lonaconing Quadrangles.

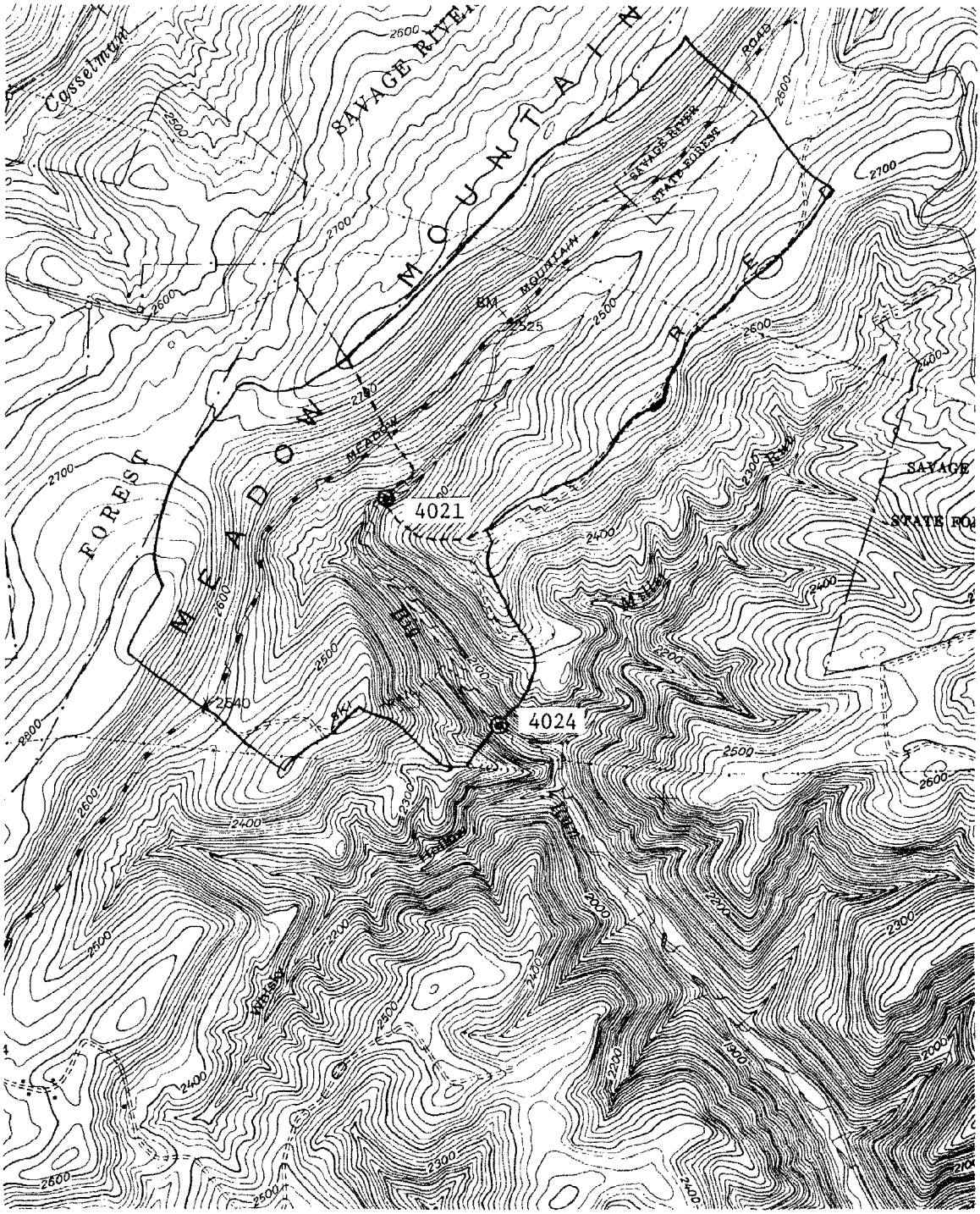

Figure 5. Location map for sites 4021 and 4024, Garrett Co., Maryland. Bittinger Quadrangle.

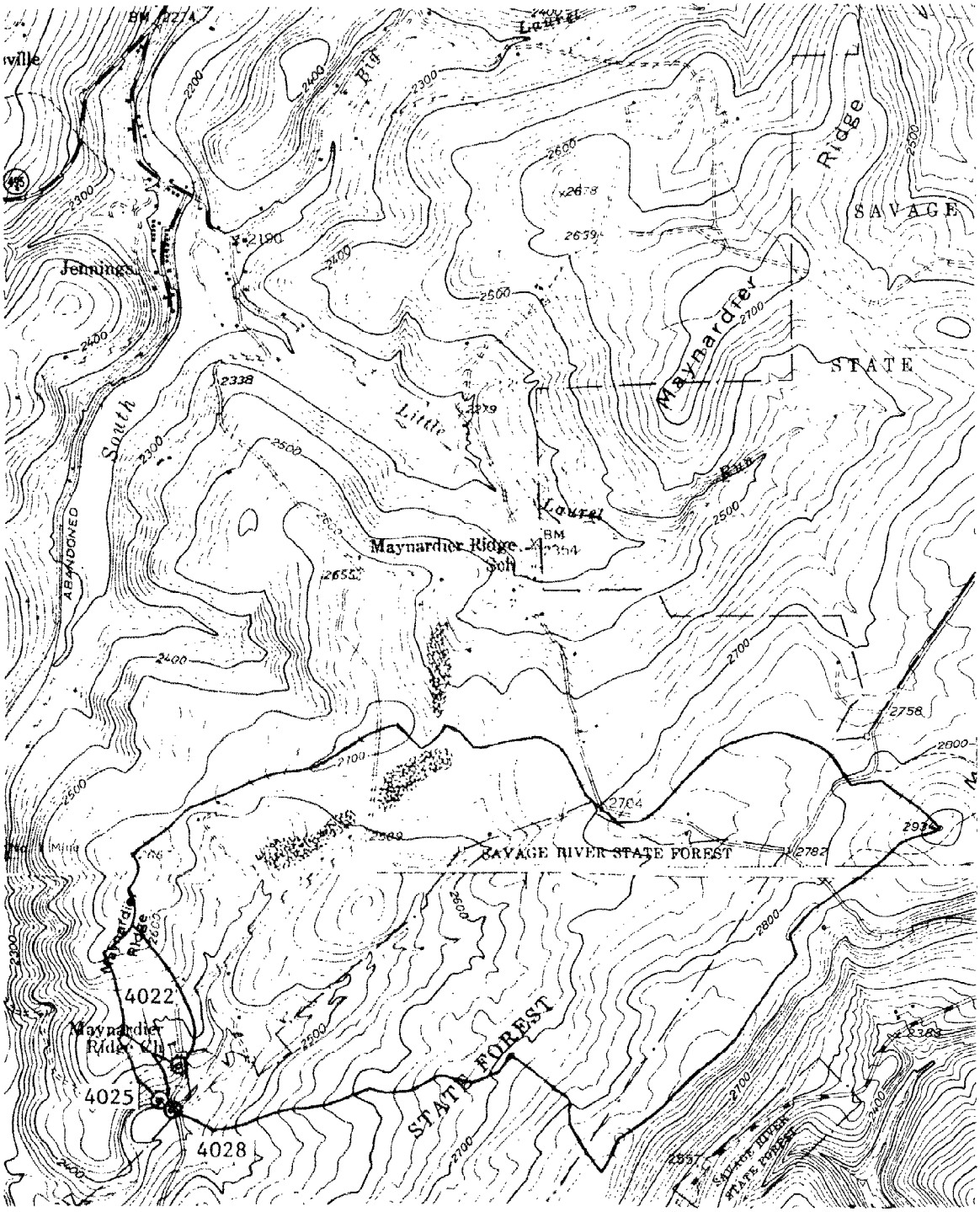

Figure 6. Location map for sites 4022, 4025, and 4028, Garrett Co., Maryland. Bittinger and Grantsville Quadrangles.

Figure 7. Location map for site 4023, Garrett Co., Maryland. Grantsville Quadrangle.

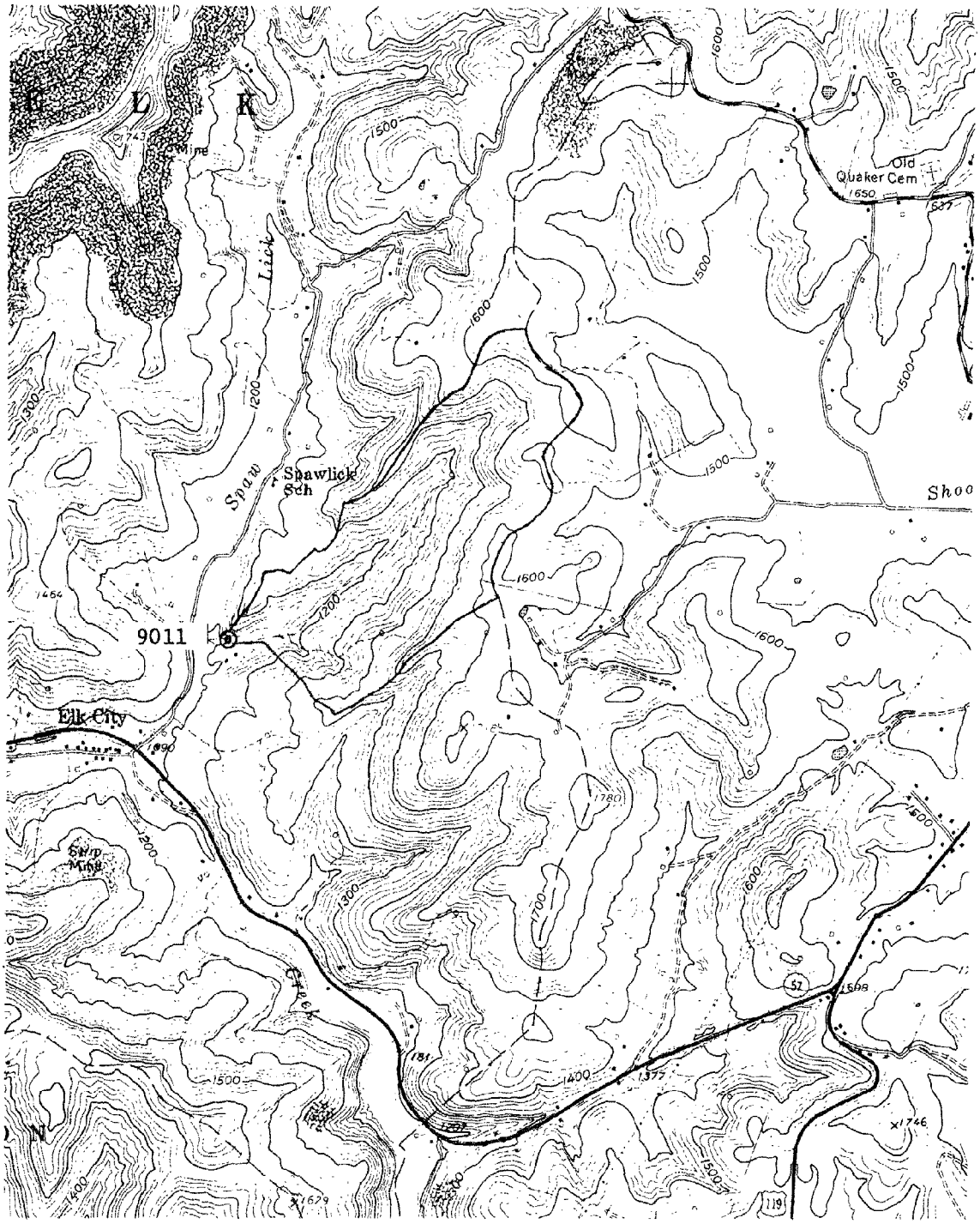

Figure 8. Location map for site 9011, Barbour Co., West Virginia. Philippi Quadrangle.

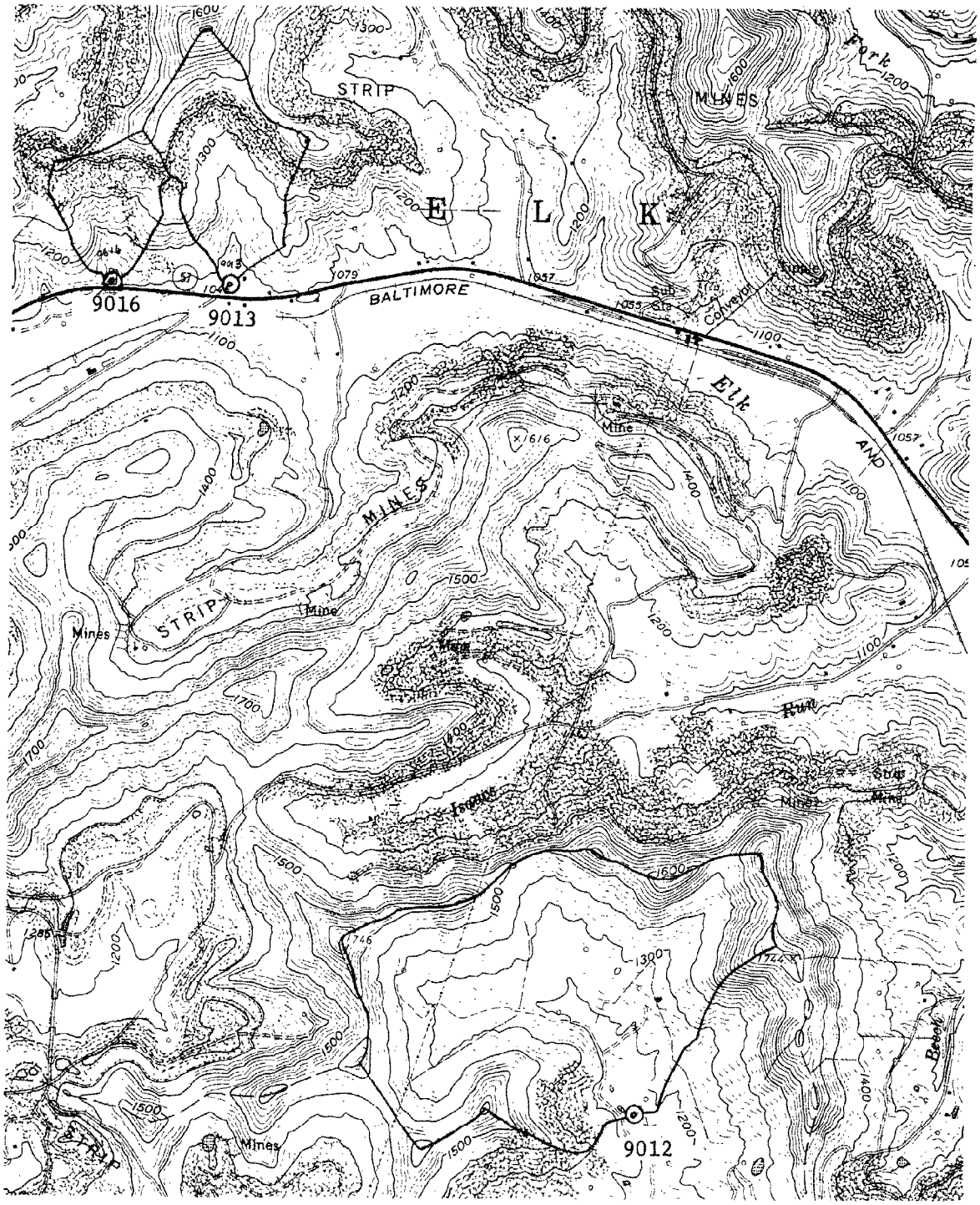

Figure 9. Location map for sites 9012, 9013, and 9016, Barbour Co., West Virginia. Brownton Quadrangle.

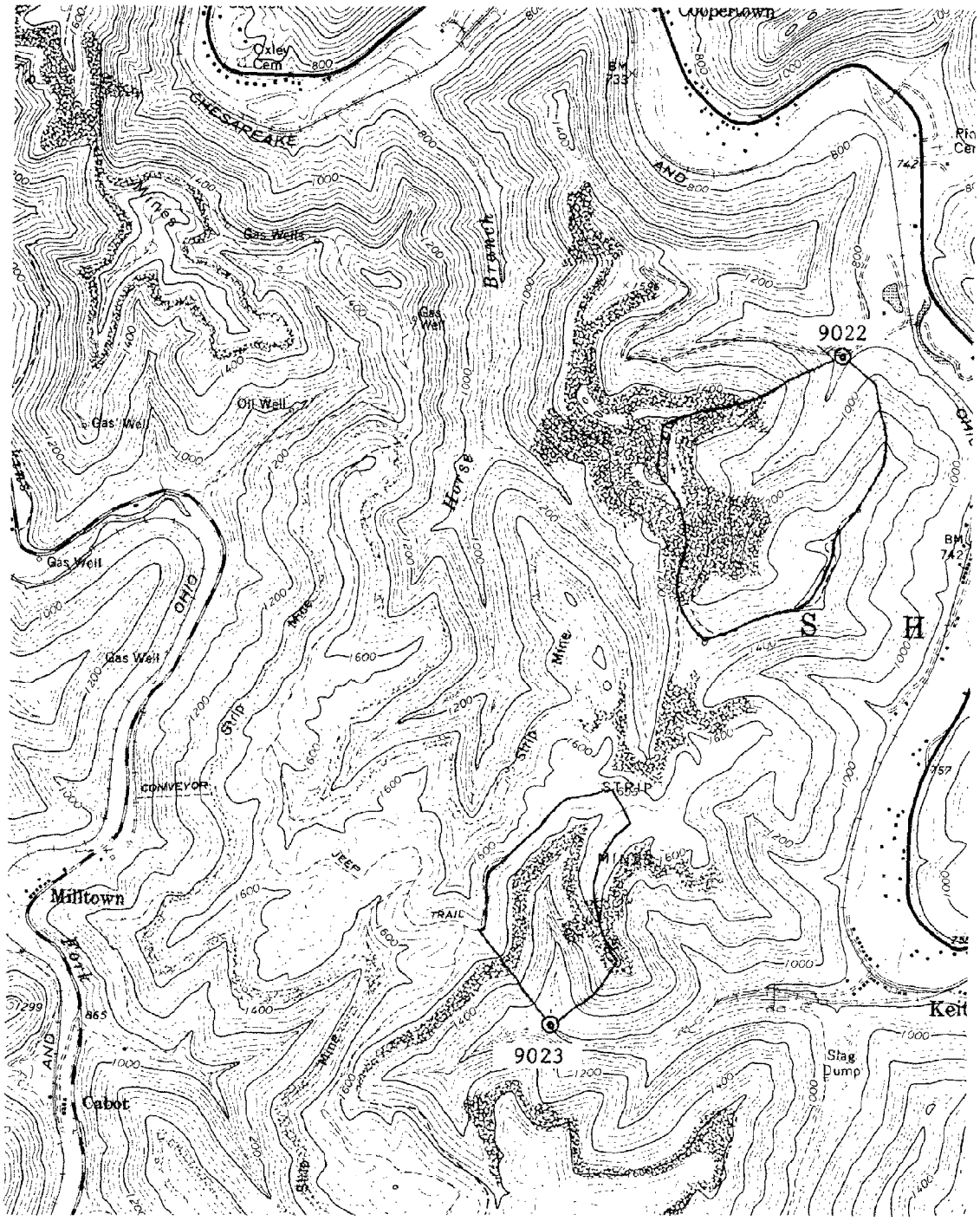

Figure 10. Location map for sites 9022 and 9023, Boone Co., West Virginia. Slyvester Quadrangle.

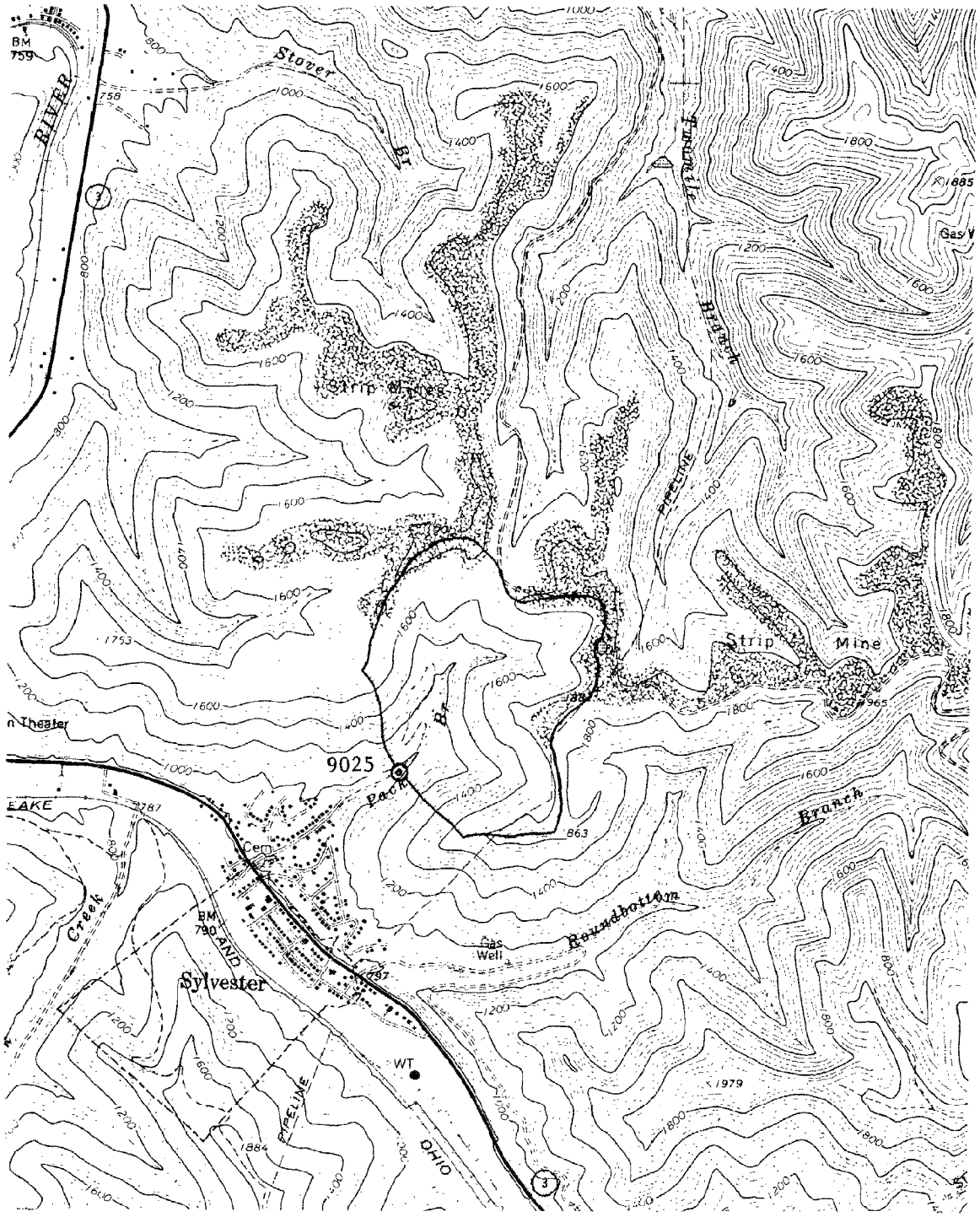

Figure 11. Location map for site 9025, Boone Co., West Virginia. Slyvester Quadrangle.

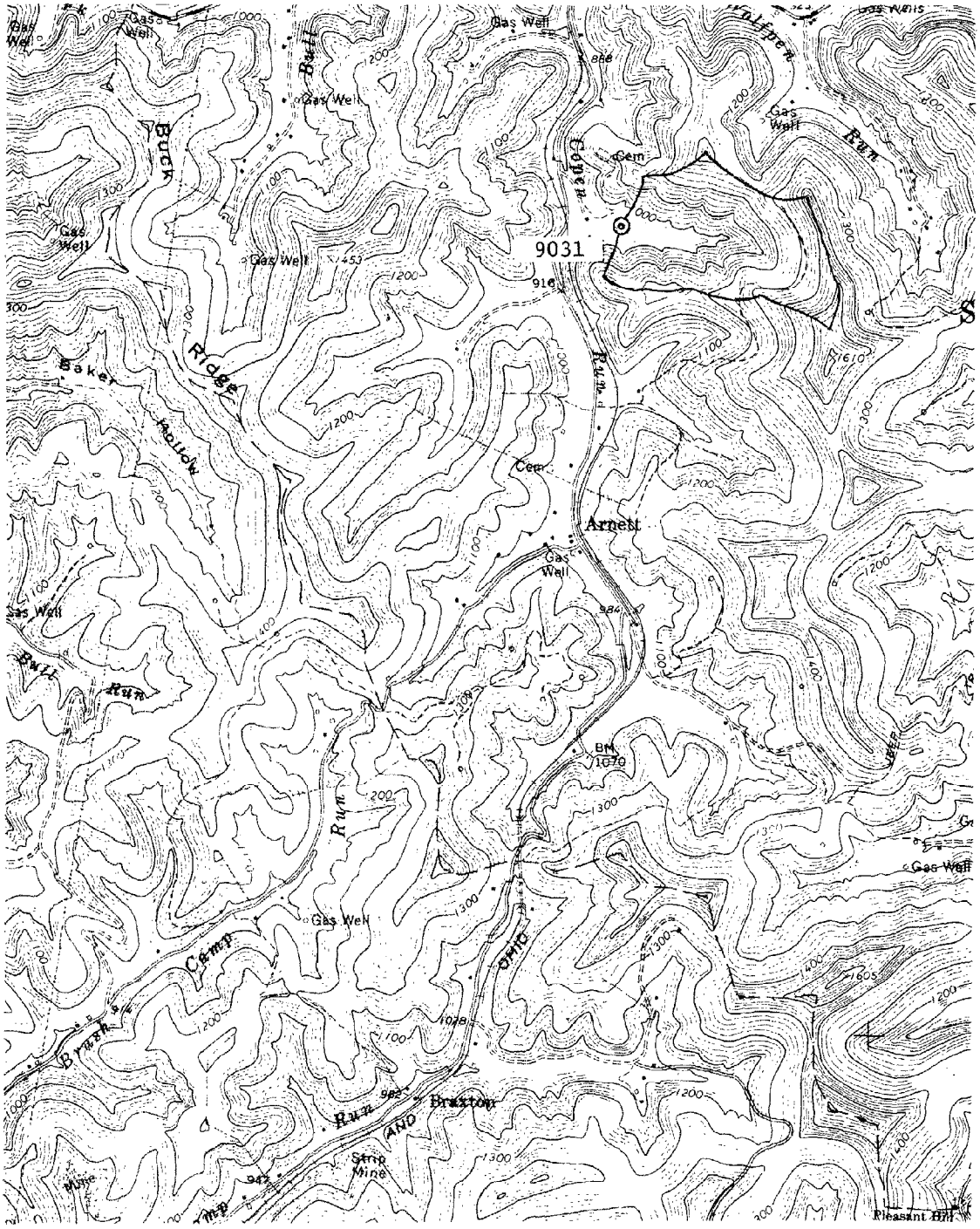

Figure 12. Location map for site 9031, Braxton Co., West Virginia. Burnsville Quadrangle.

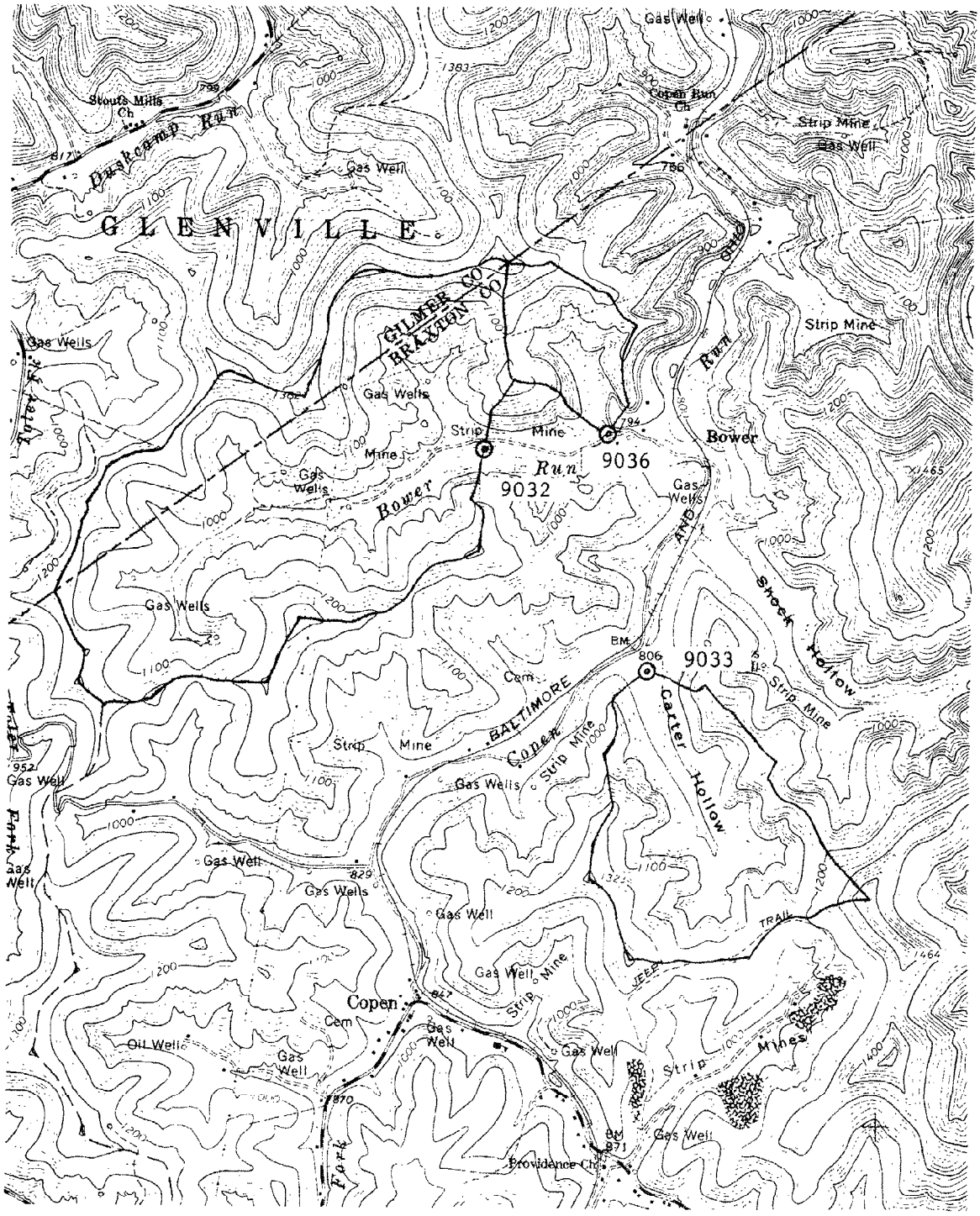

Figure 13. Location map for sites 9032, 9033, and 9036, Braxton Co., West Virginia. Burnsville Quadrangle.

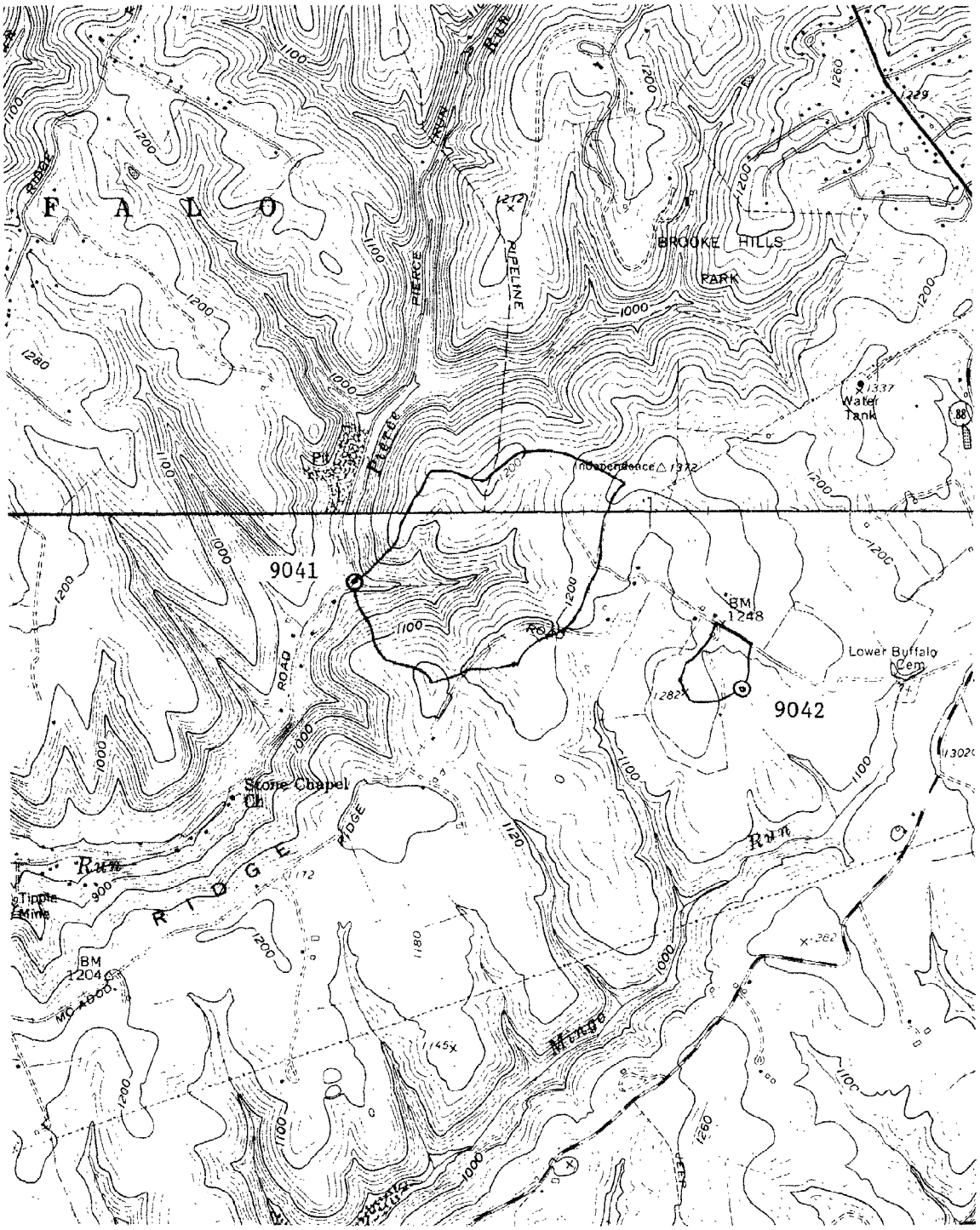

Figure 14. Location map for sites 9041 and 9042, Brook Co., West Virginia. Bethany and Steubenville East Quadrangles.

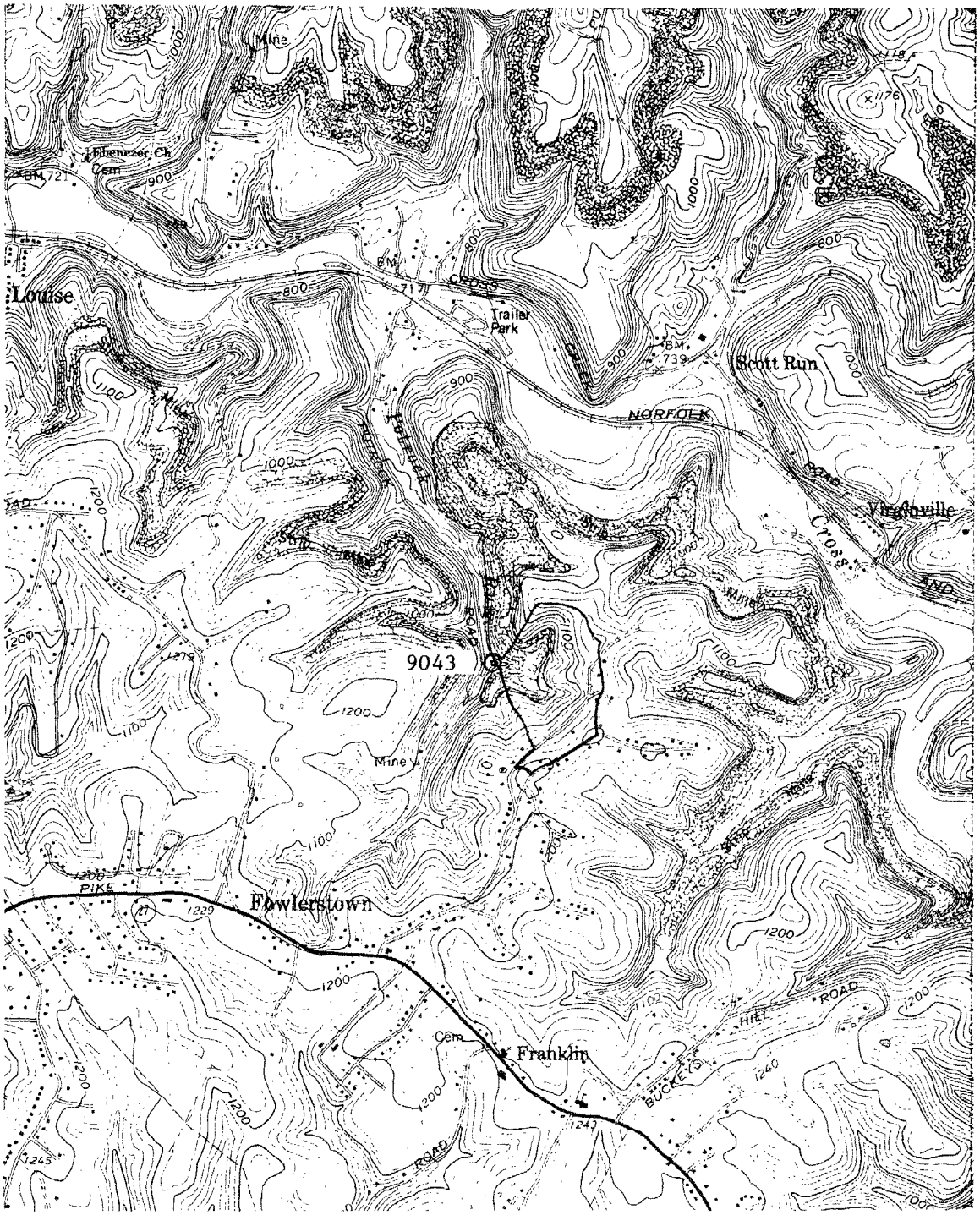

Figure 15. Location map for site 9043, Brooke Co., West Virginia. Steubenville East Quadrangle.

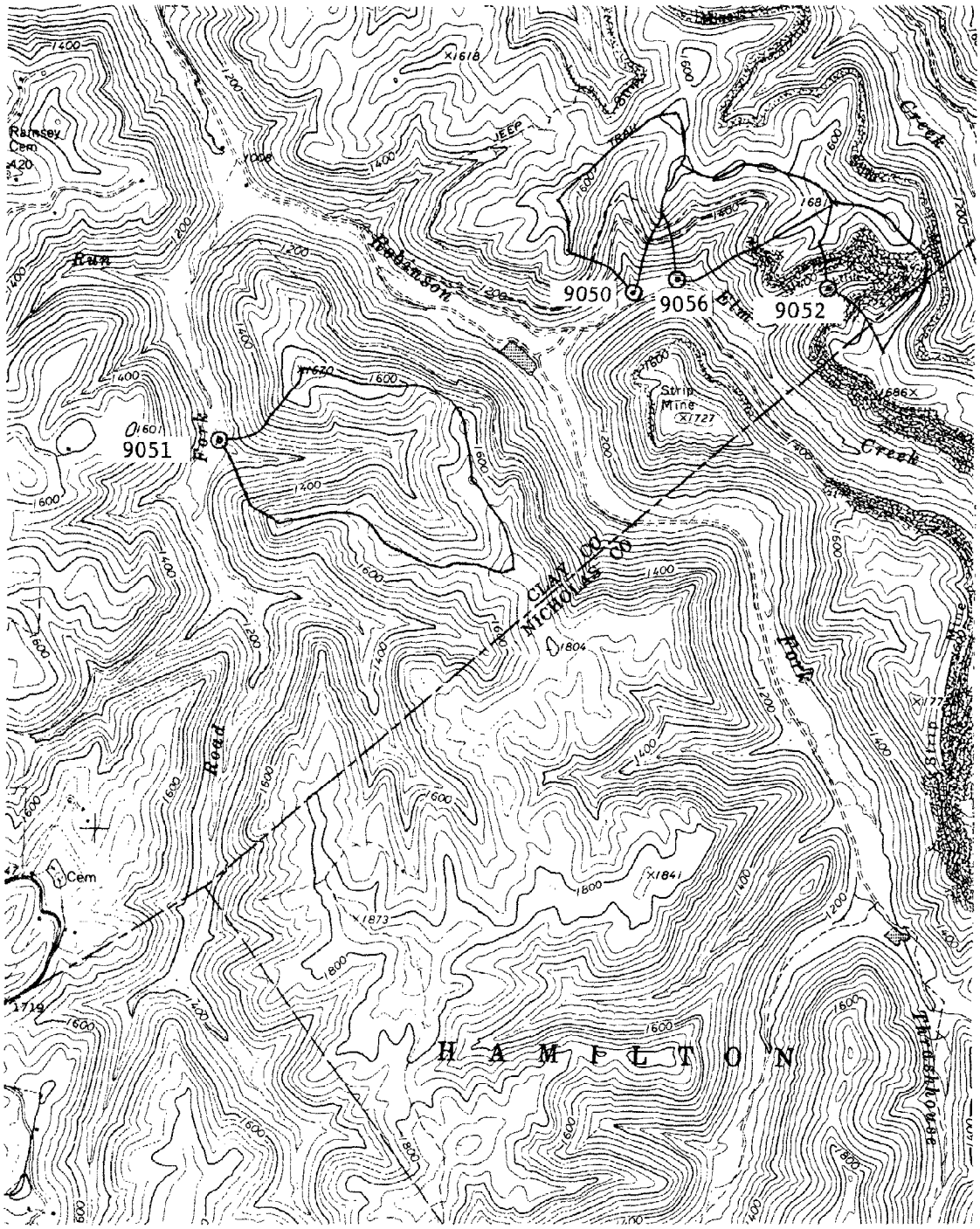

Figure 16. Location map for sites 9050, 9051, 9052, and 9056, Clay Co., West Virginia. Swandale Quadrangle.

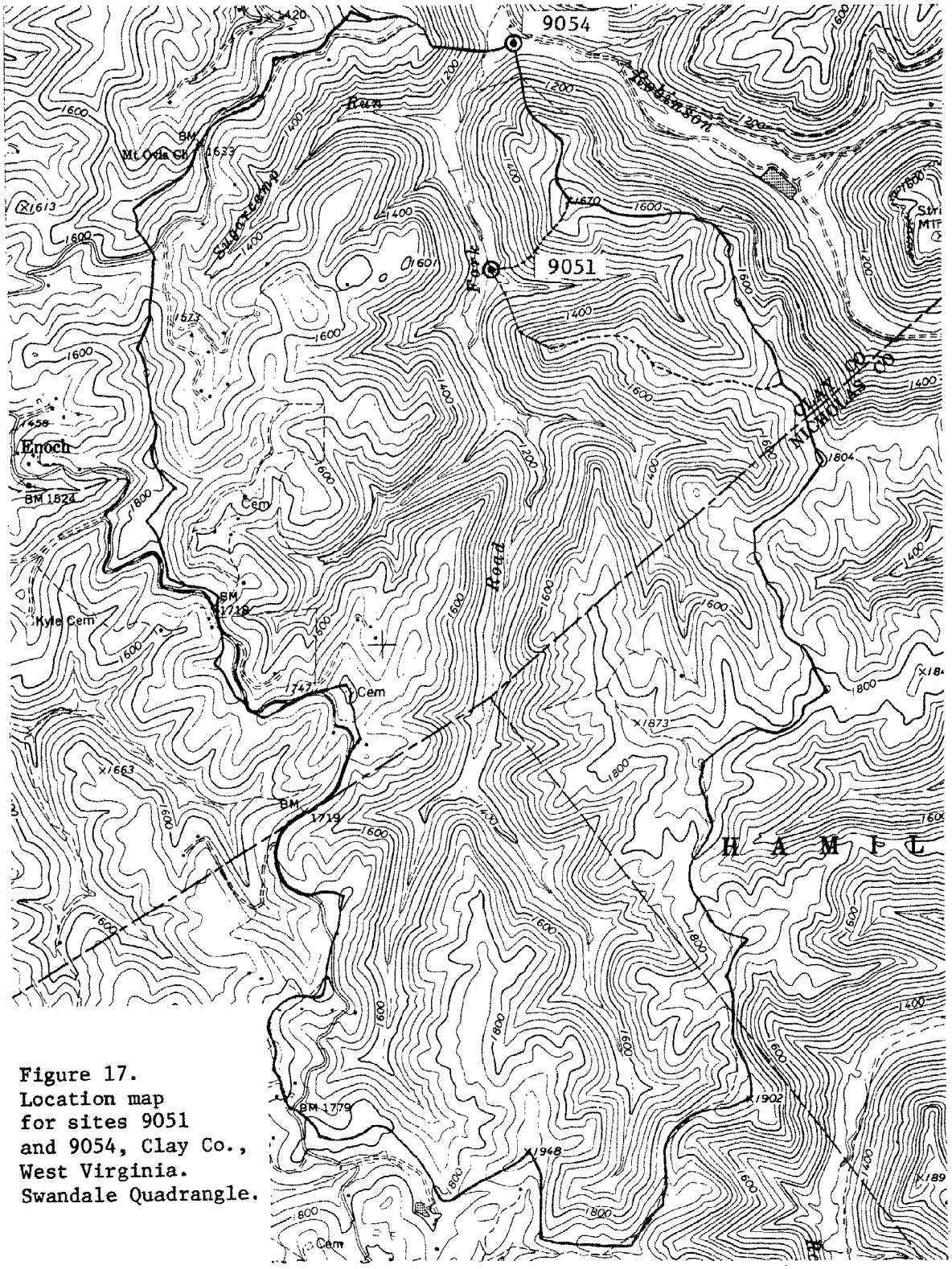

Figure 17.
Location map
for sites 9051
and 9054, Clay Co.,
West Virginia.
Swandale Quadrangle.

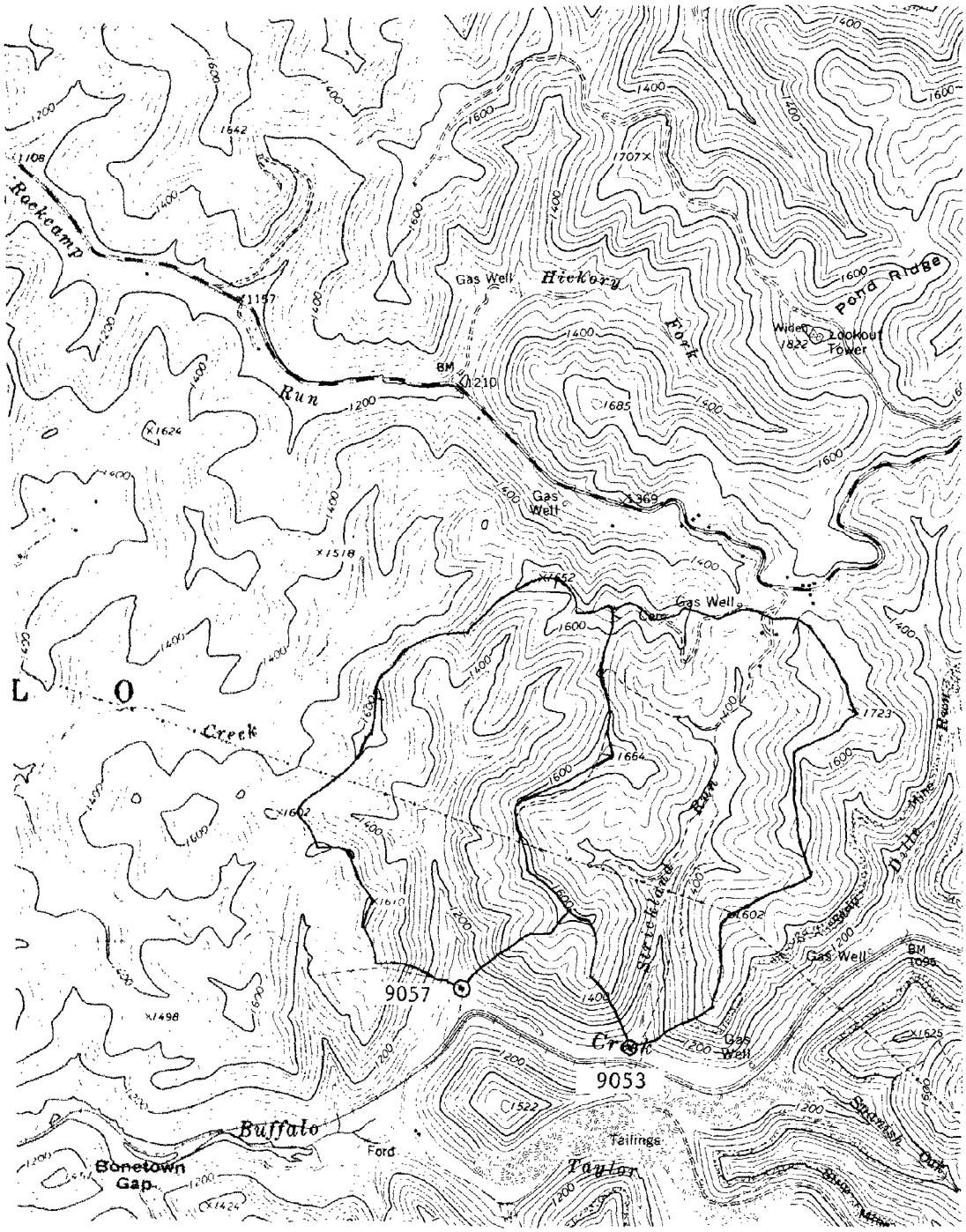

Figure 18. Location map for sites 9053 and 9057, Clay Co., West Virginia. Swandale Quadrangle.

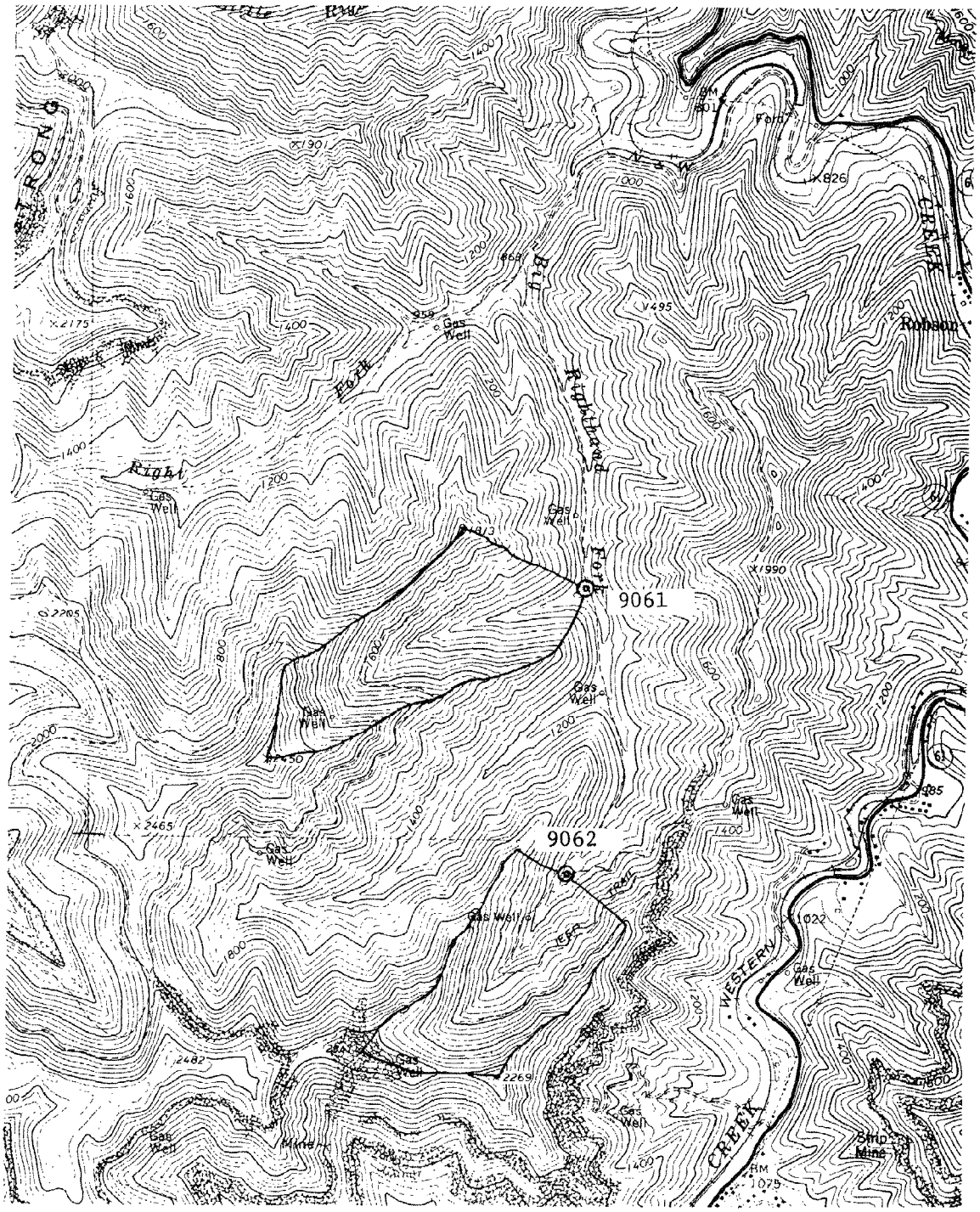

Figure 19. Location map for sites 9061 and 9062, Fayette Co., West Virginia. Powellton Quadrangle.

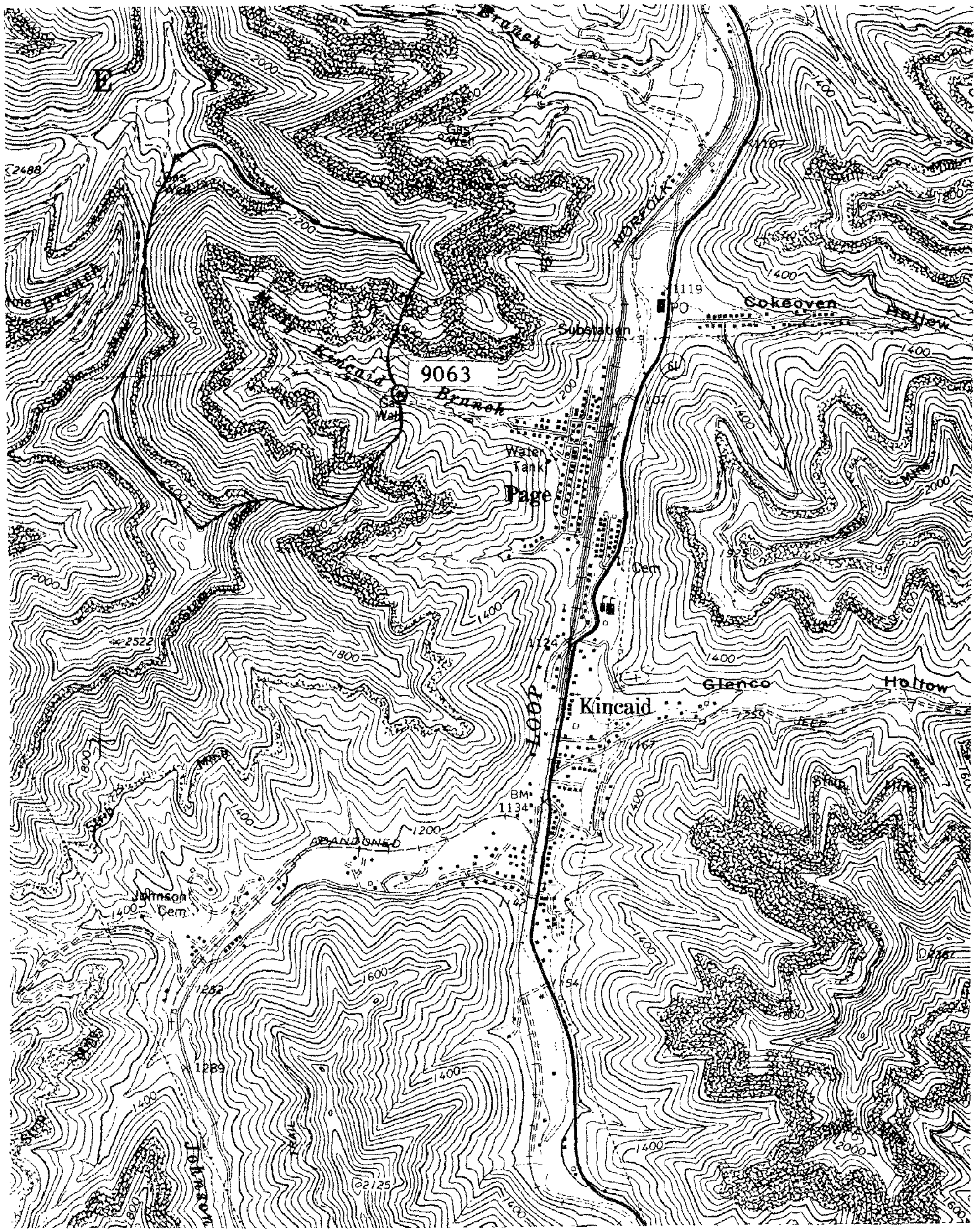

Figure 20. Location map for site 9063, Fayette Co., West Virginia. Powellton Quadrangle.

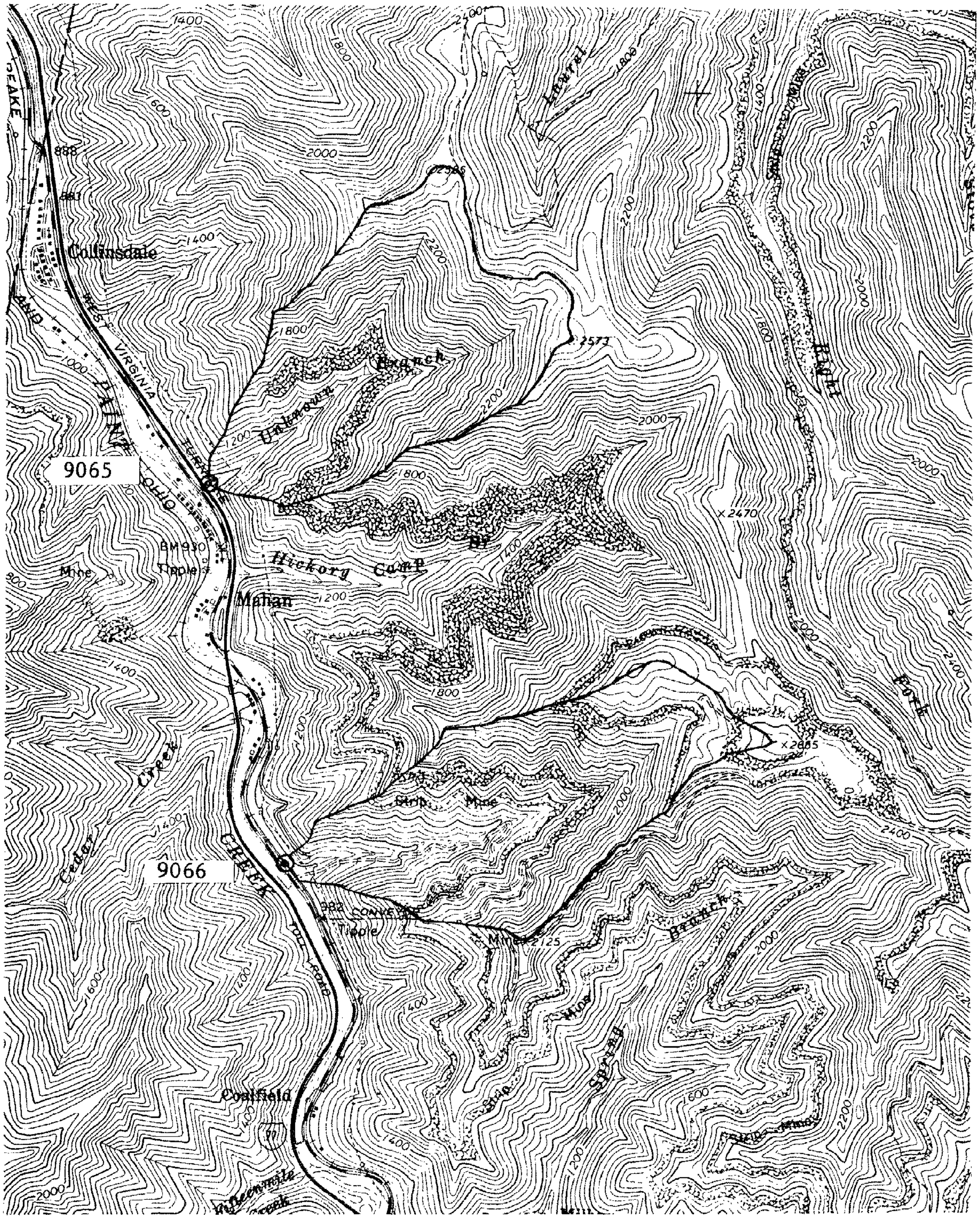

Figure 21. Location map for sites 9065 and 9066, Fayette Co., West Virginia. Powellton Quadrangle.

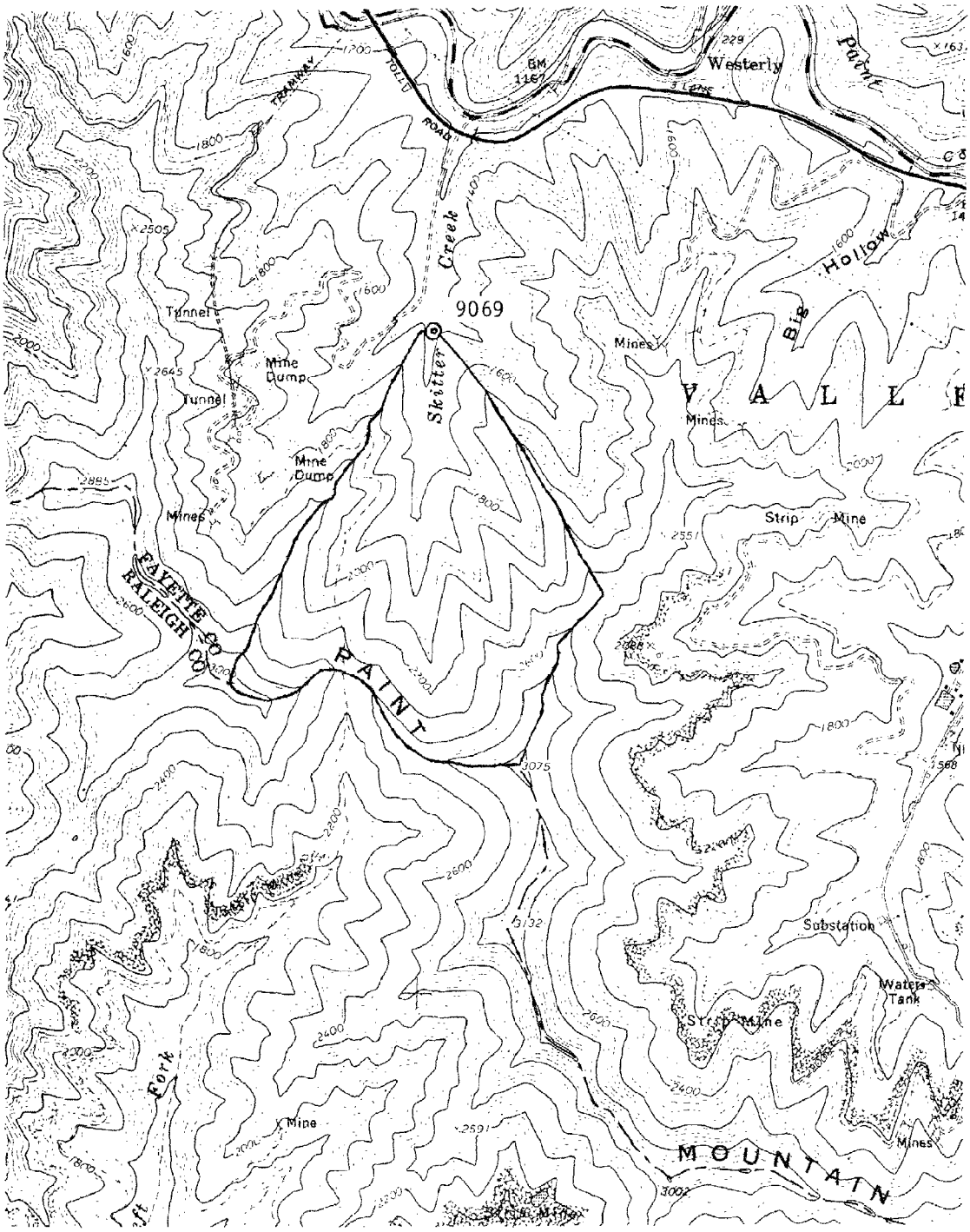

Figure 22. Location map for site 9069, Fayette Co., West Virginia. Pax Quadrangle.

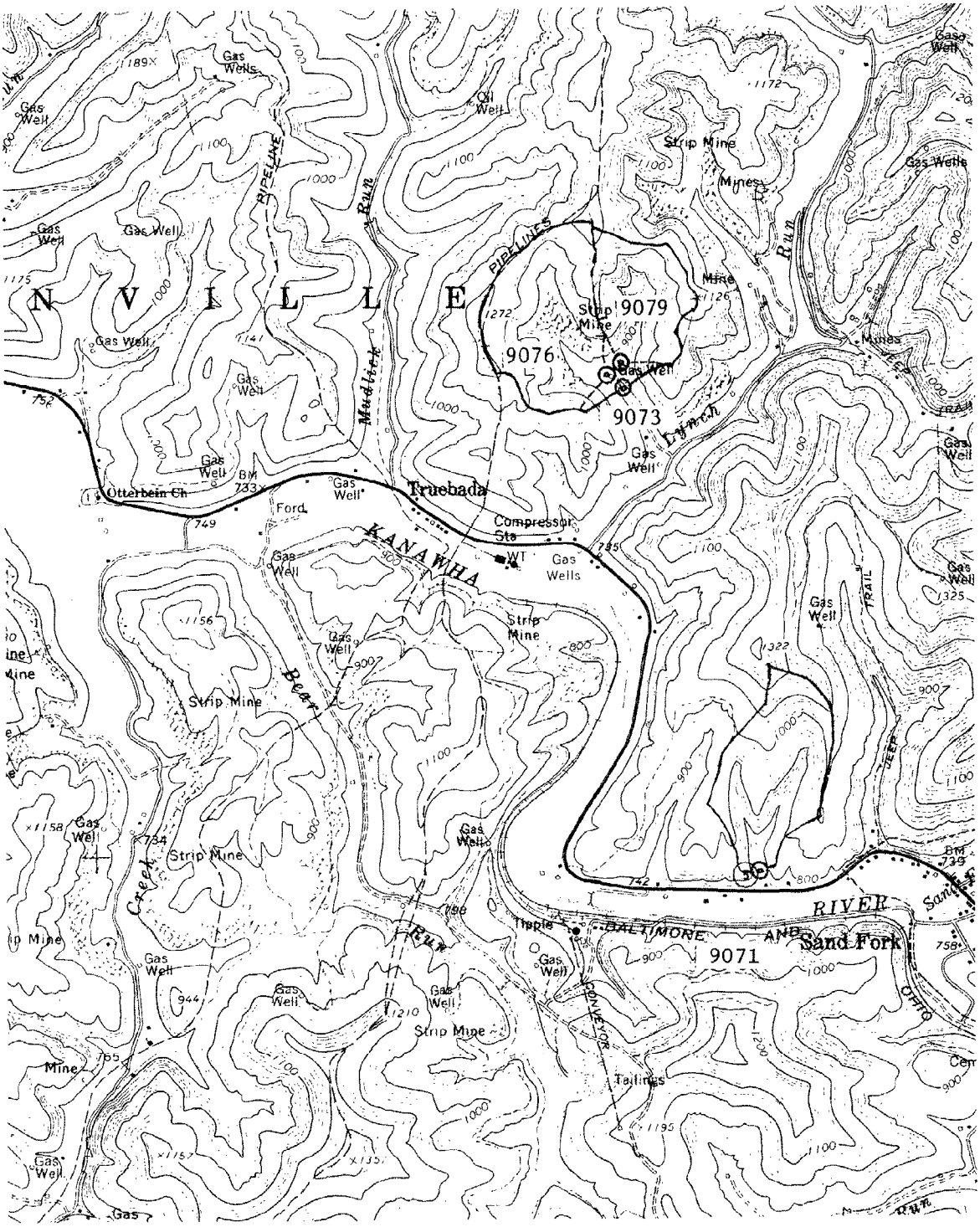

Figure 23. Location map for sites 9071, 9073, 9076, and 9079, Gilmer Co., West Virginia. Glenville Quadrangle.

Figure 24. Location map for site 9072, Gilmer Co., West Virginia. Vadis Quadrangle.

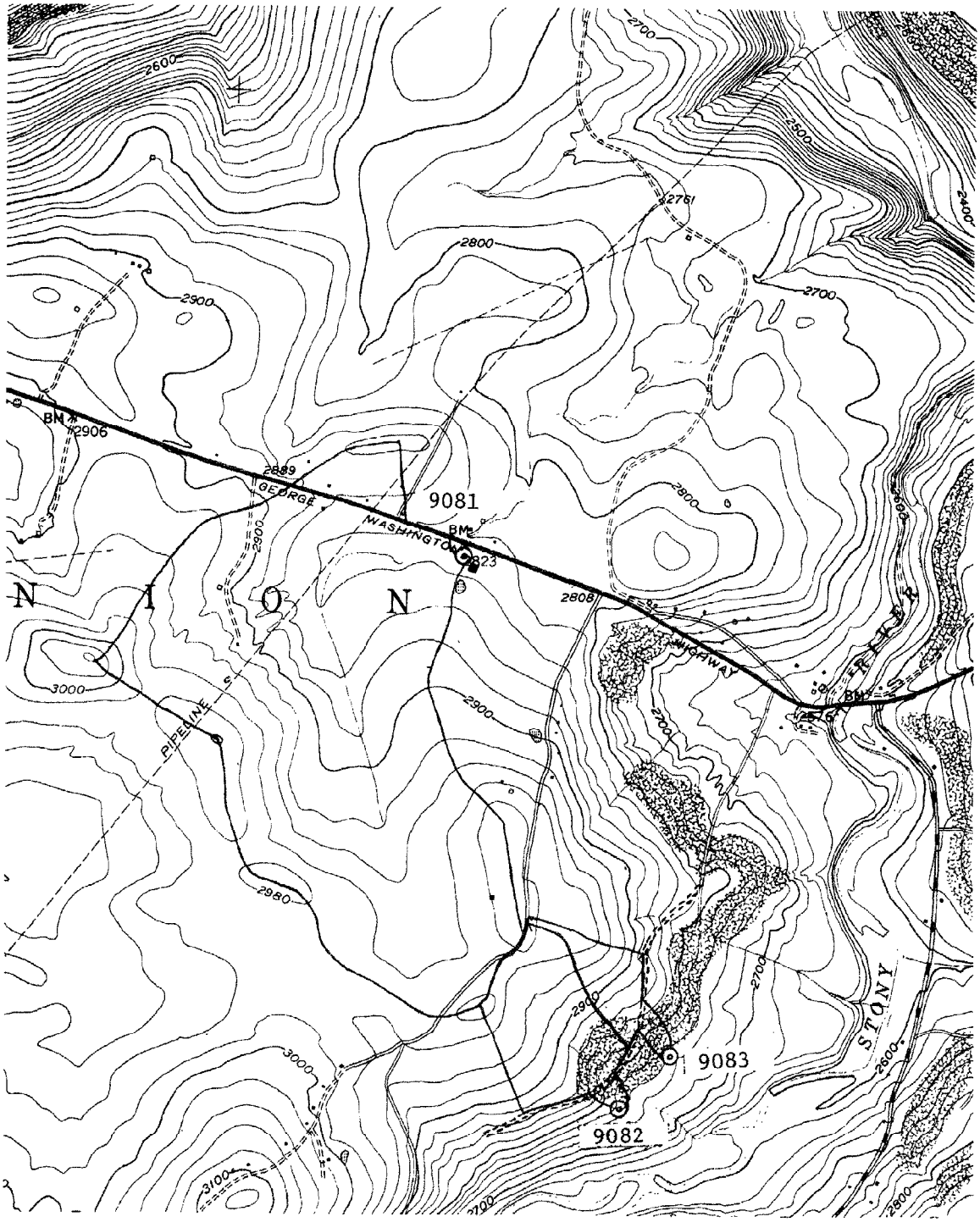

Figure 25. Location map for sites 9081, 9082, and 9083. Grant Co., West Virginia. Gorman Quadrangle.

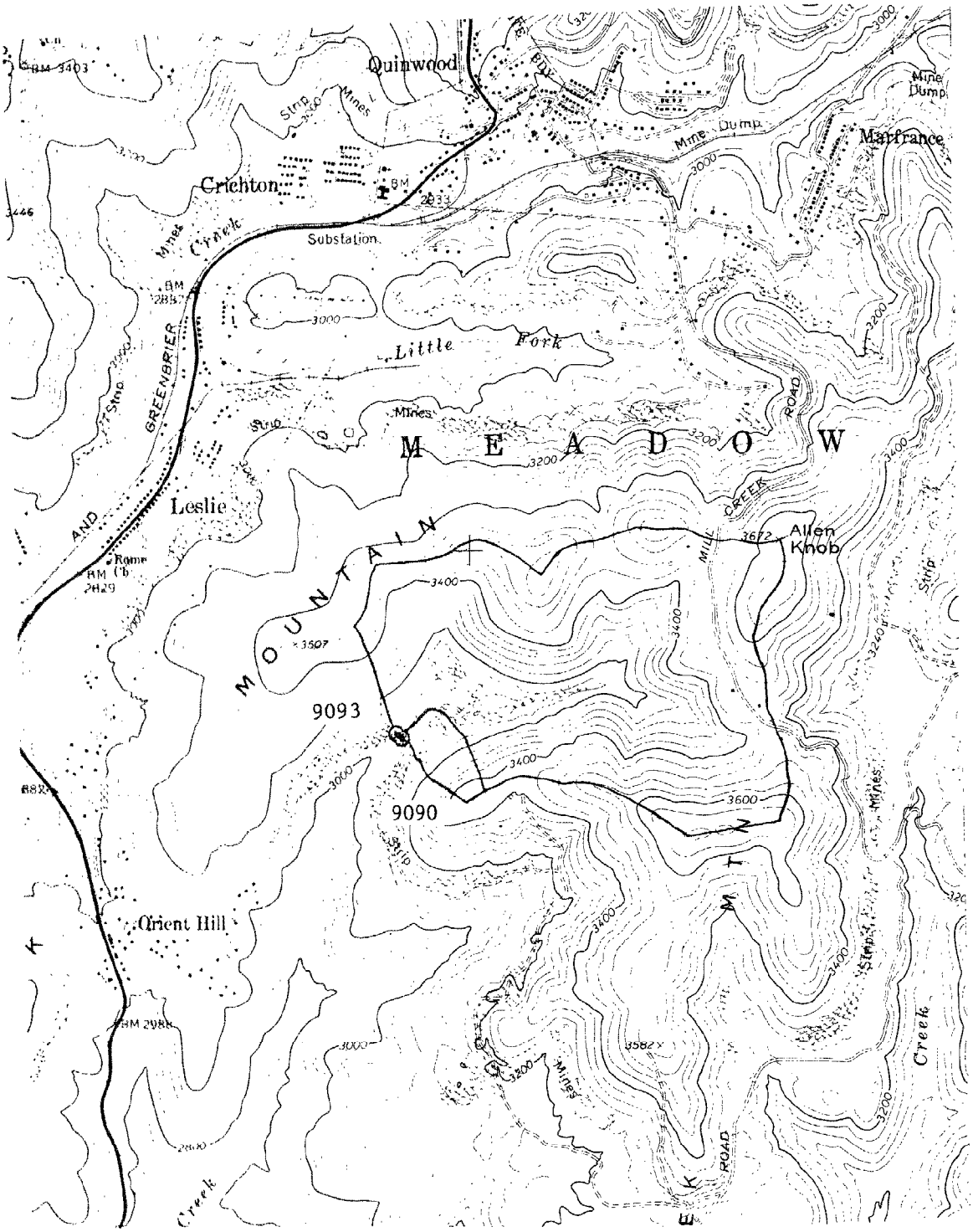

Figure 26. Location map for sites 9090 and 9093, Greenbriar Co., West Virginia. Quinwood Quadrangle.

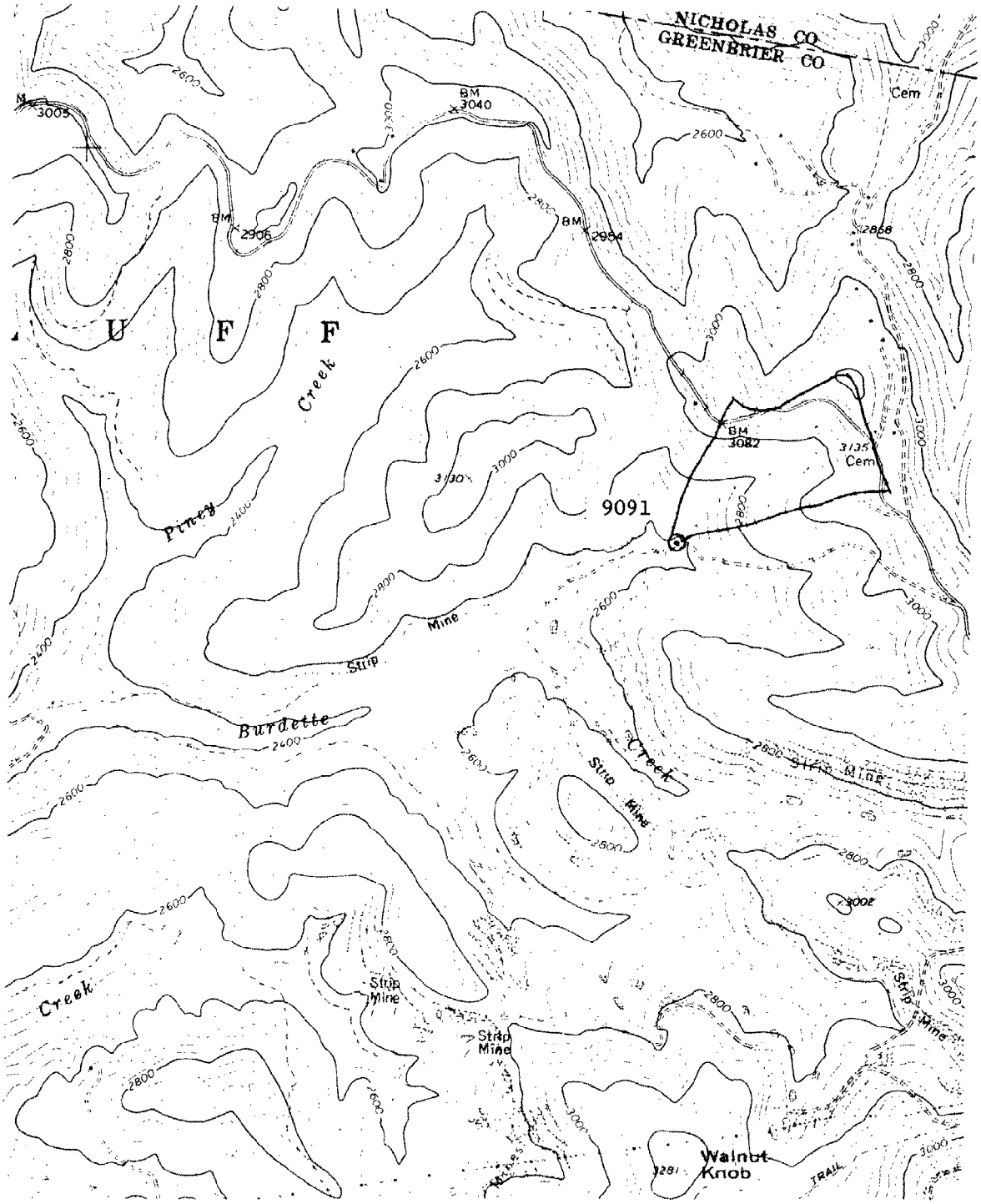

Figure 27. Location map for 9091, Greenbriar Co., West Virginia. Corliss Quadrangle.

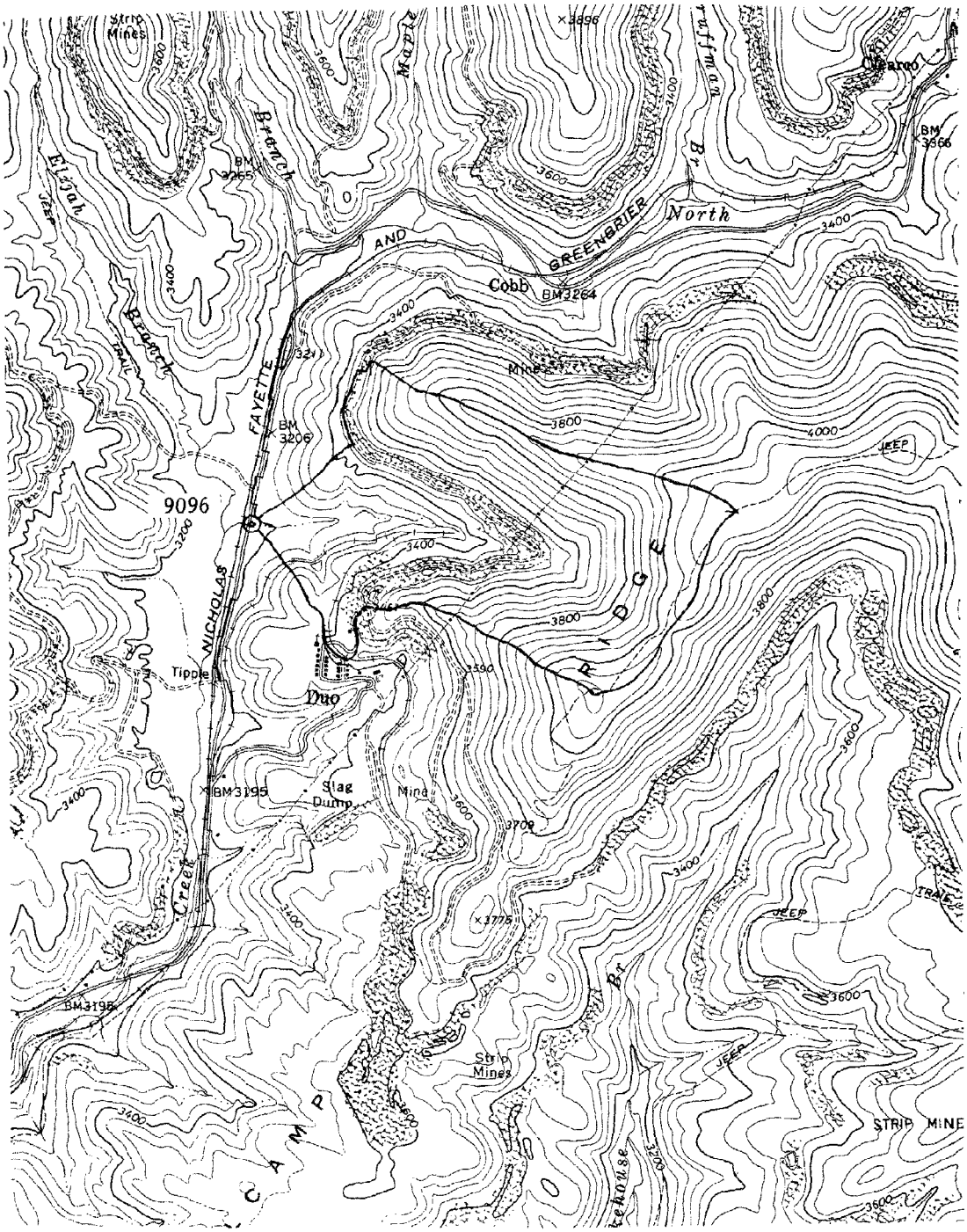

Figure 28. Location map for 9096, Greenbriar County, West Virginia. Duo Quadrangle.

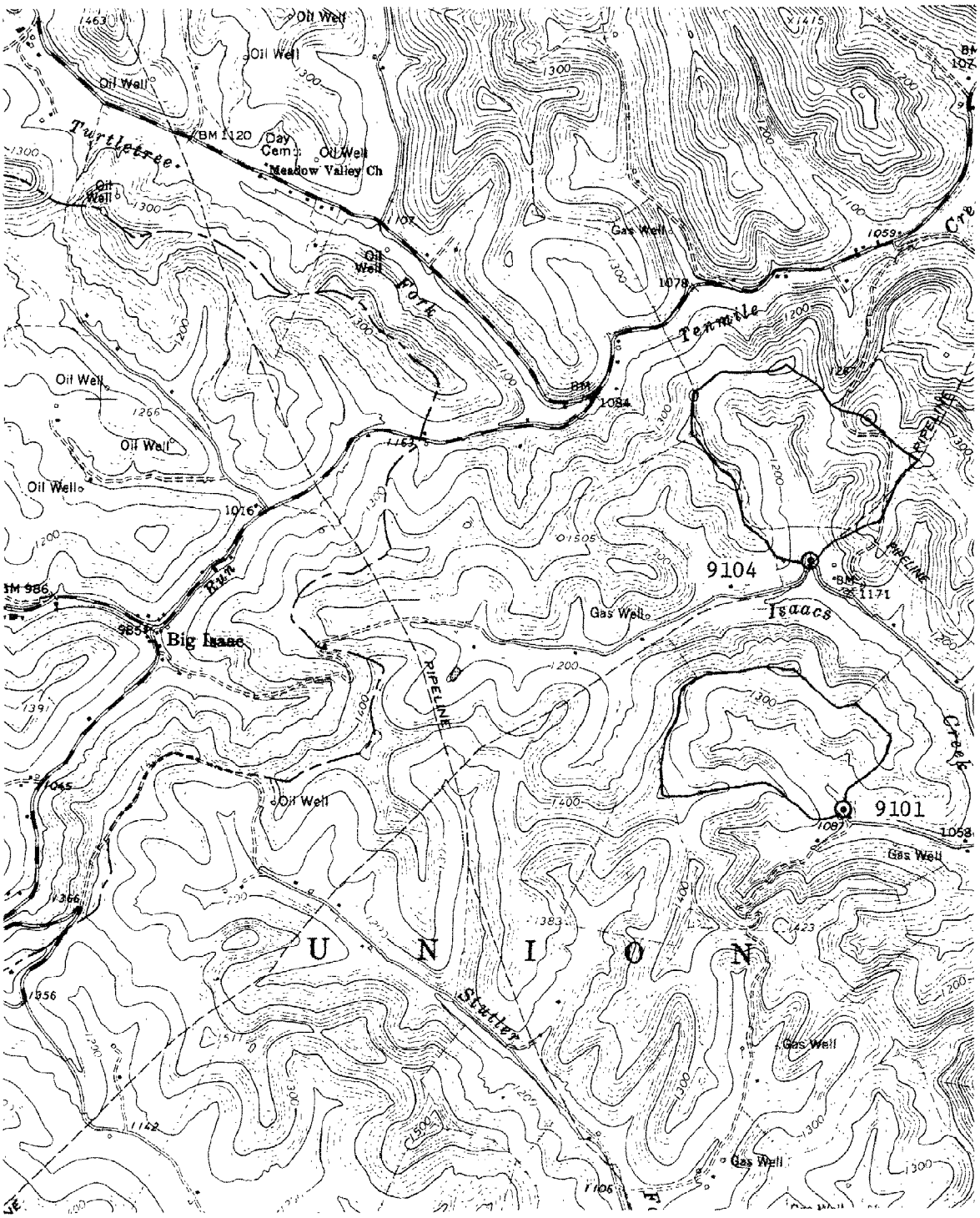

Figure 29. Location map for sites 9101 and 9104, Harrison Co., West Virginia. Big Isaac Quadrangle.

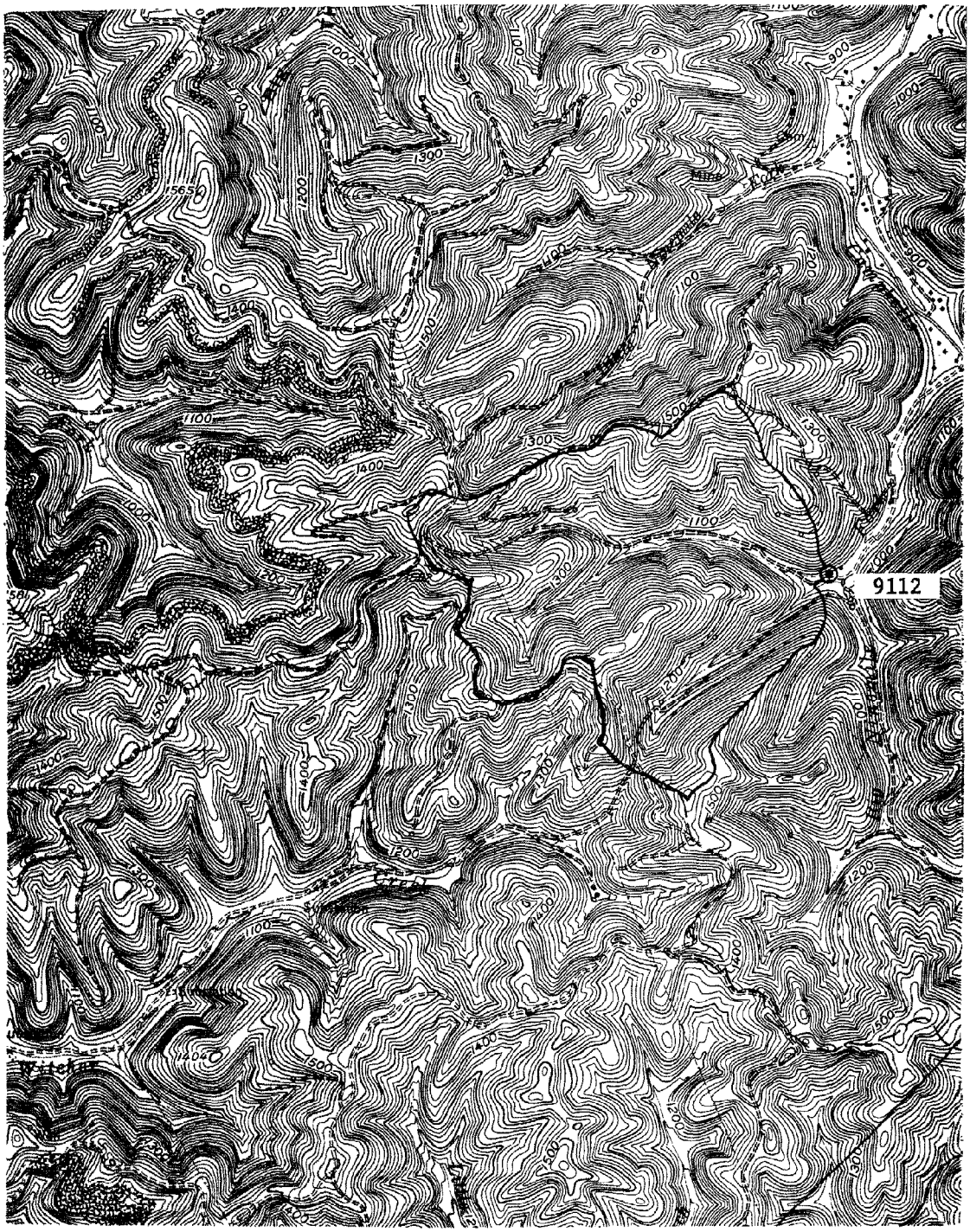

Figure 32. Location map for site 9112, Kanawha Co., West Virginia. Quick Quadrangle.

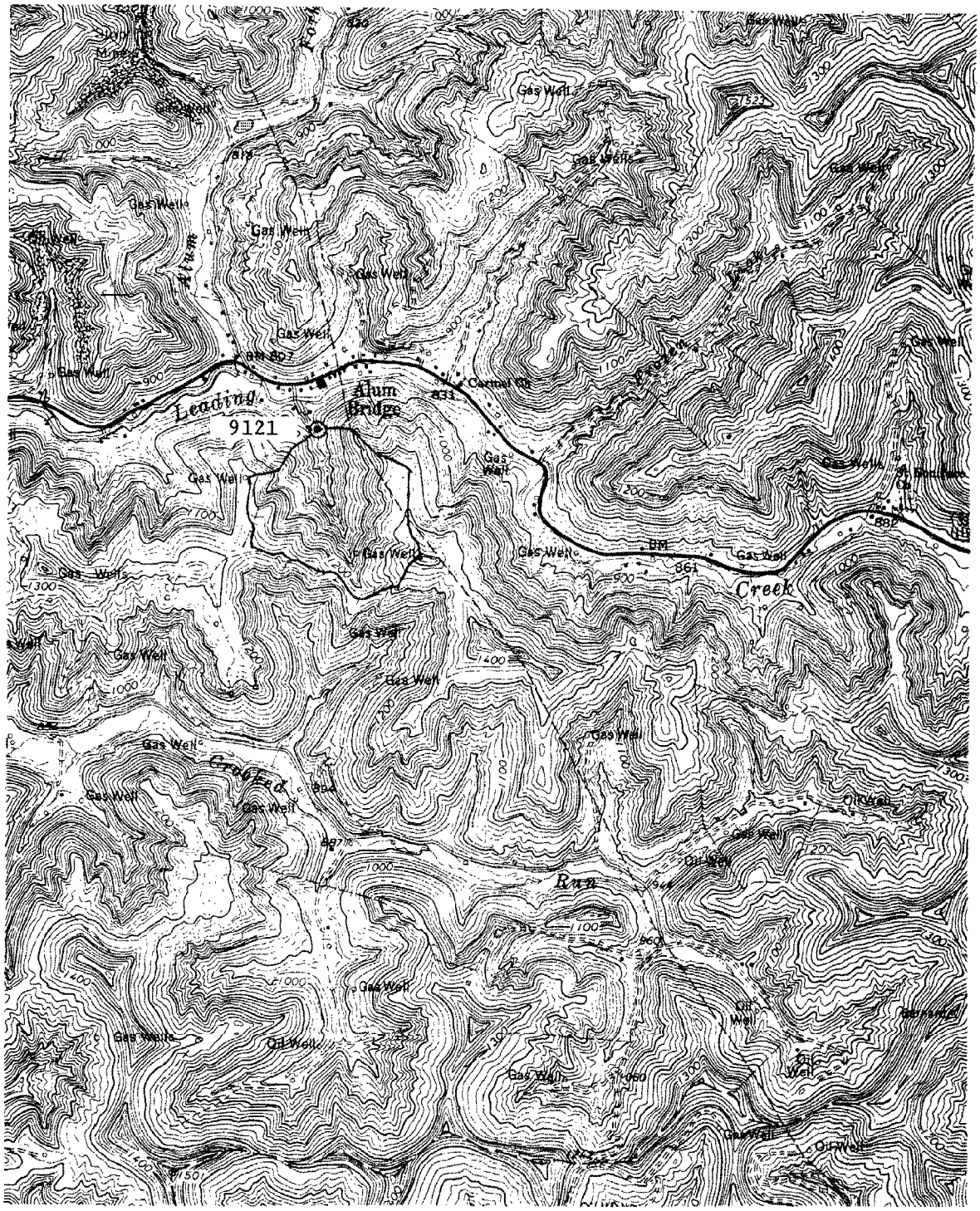

Figure 33. Location map for site 9121, Lewis Co., West Virginia. Vadis Quadrangle.

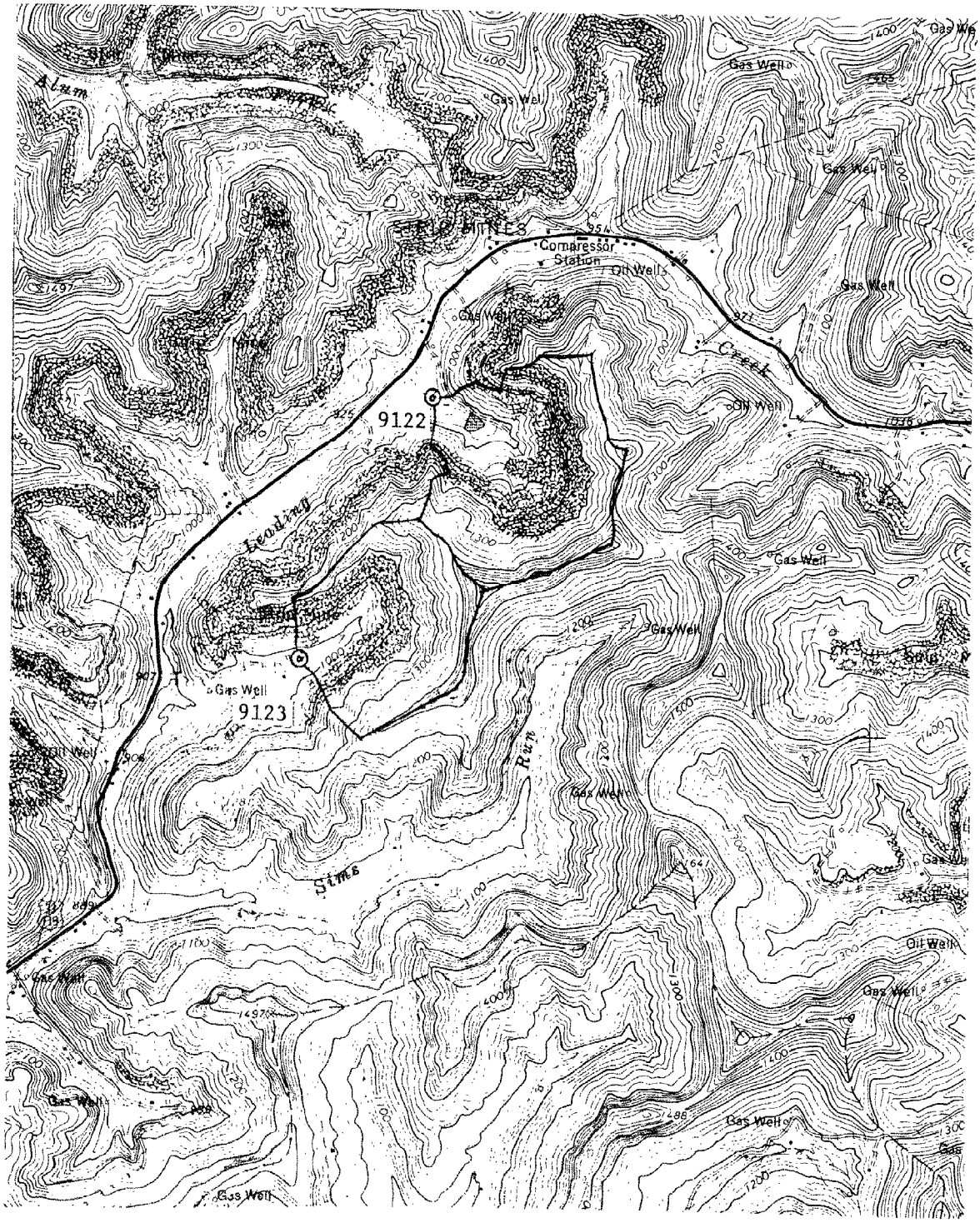

Figure 34. Location map for sites 9122 and 9123, Lewis Co., West Virginia. Camden Quadrangle.

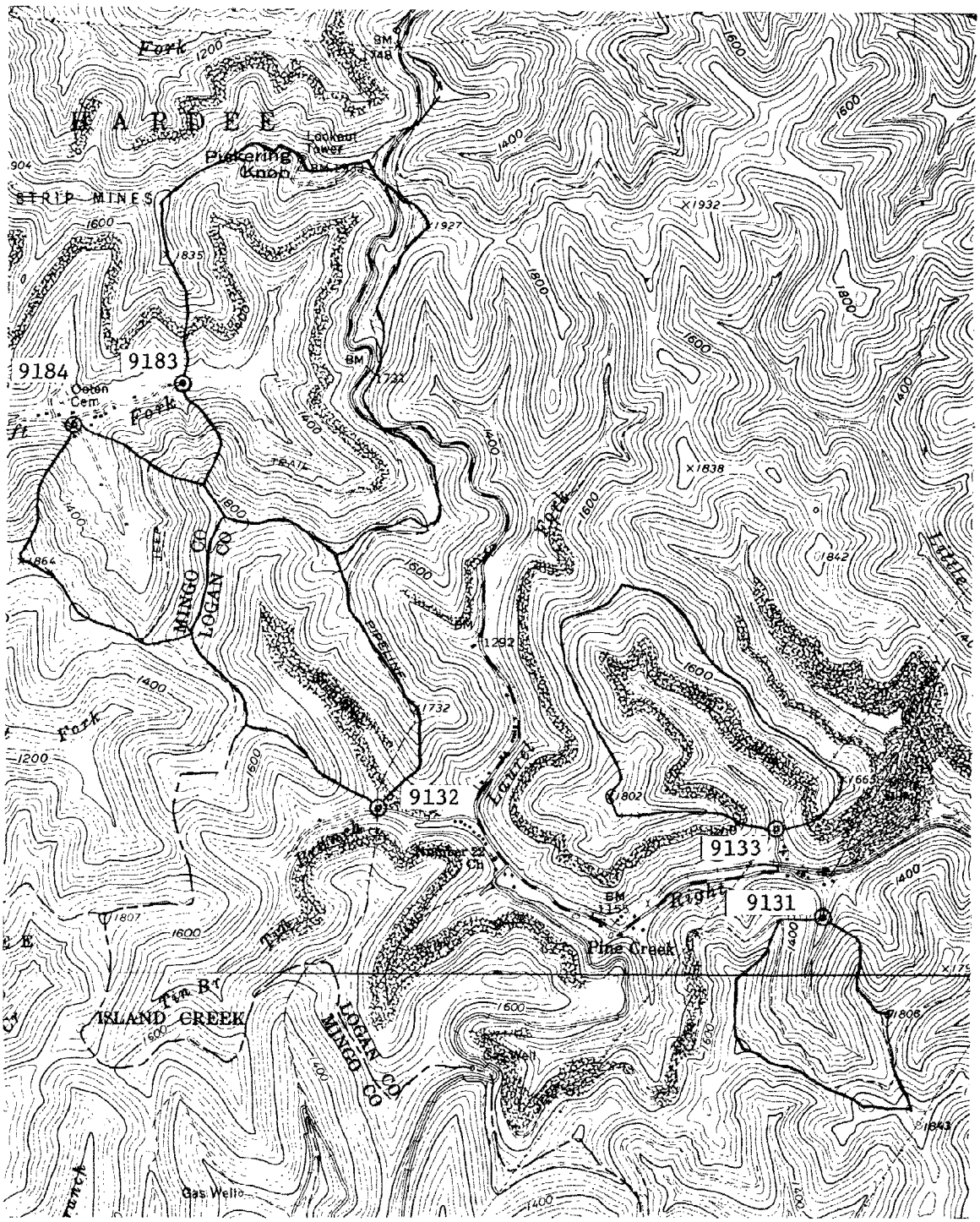

Figure 35. Location map for sites 9131, 9132, 9133, 9183, and 9184, Logan and Mingo Co., West Virginia. Holden and Barnabus Quadrangles.

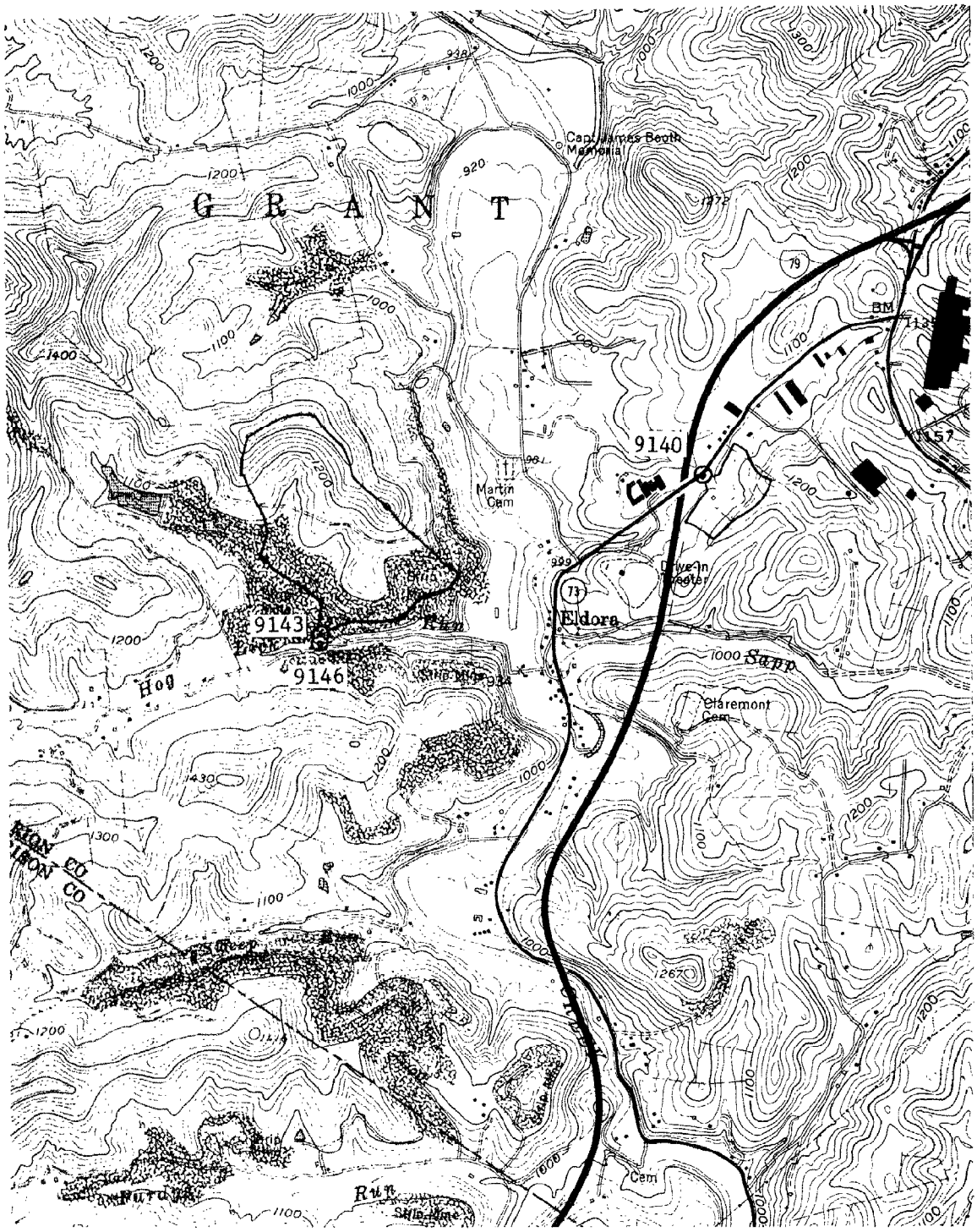

Figure 36. Location map for sites 9140, 9143, and 9146, Marion County, West Virginia. Fairmont West Quadrangle.

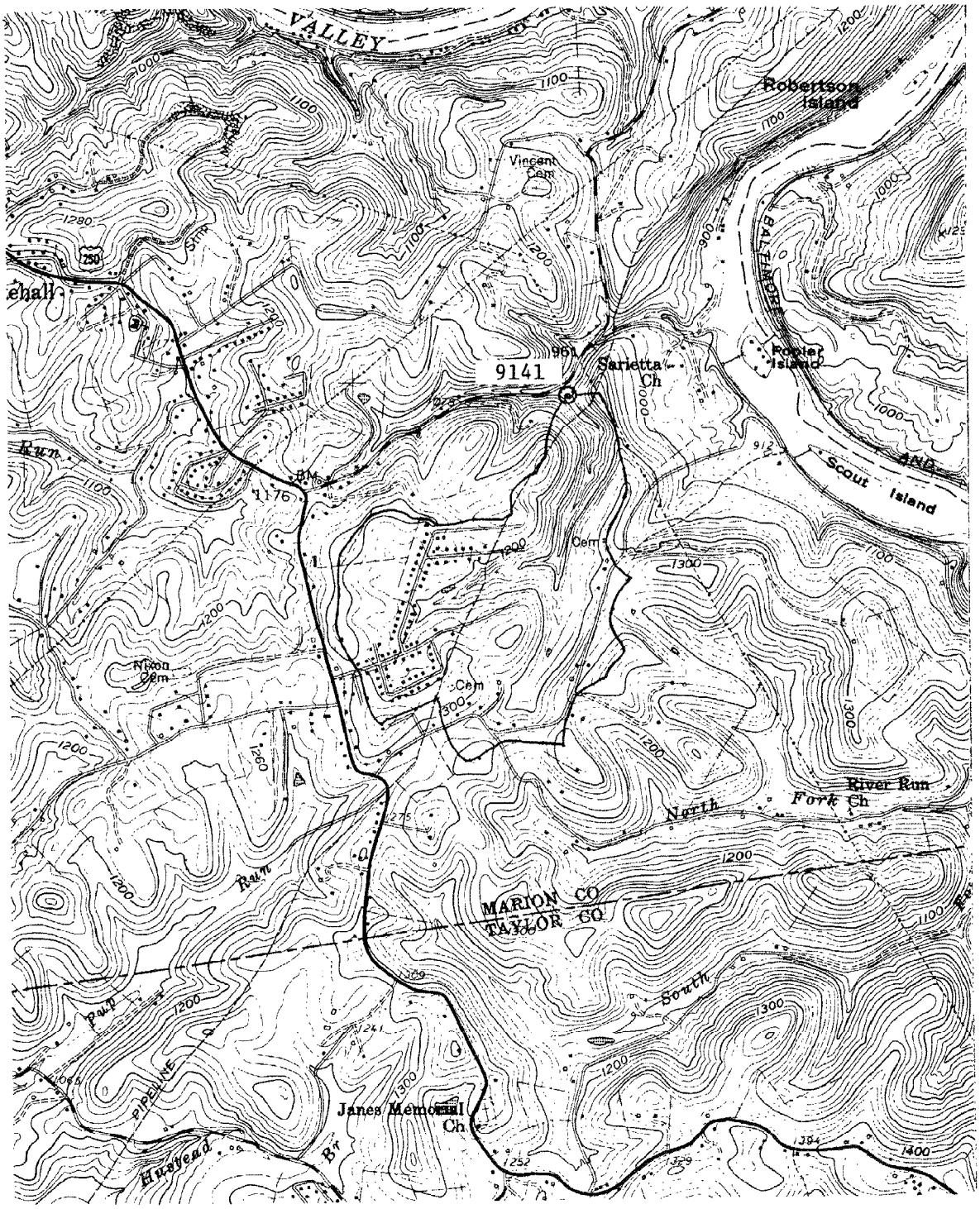

Figure 37. Location map for site 9141, Marion Co., West Virginia. Fairmont West Quadrangle.

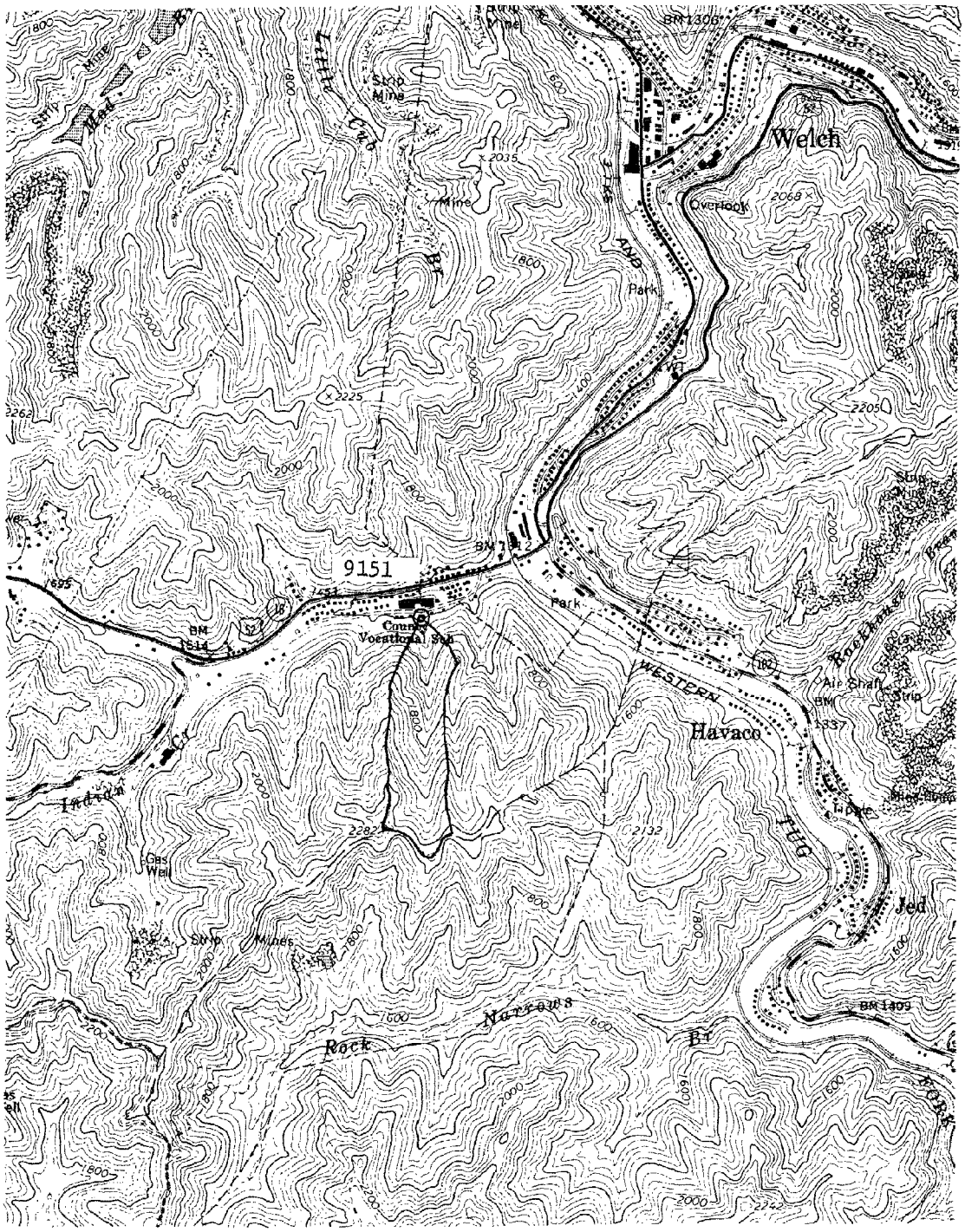

Figure 38. Location map for site 9151, McDowell Co., West Virginia. Welch Quadrangle.

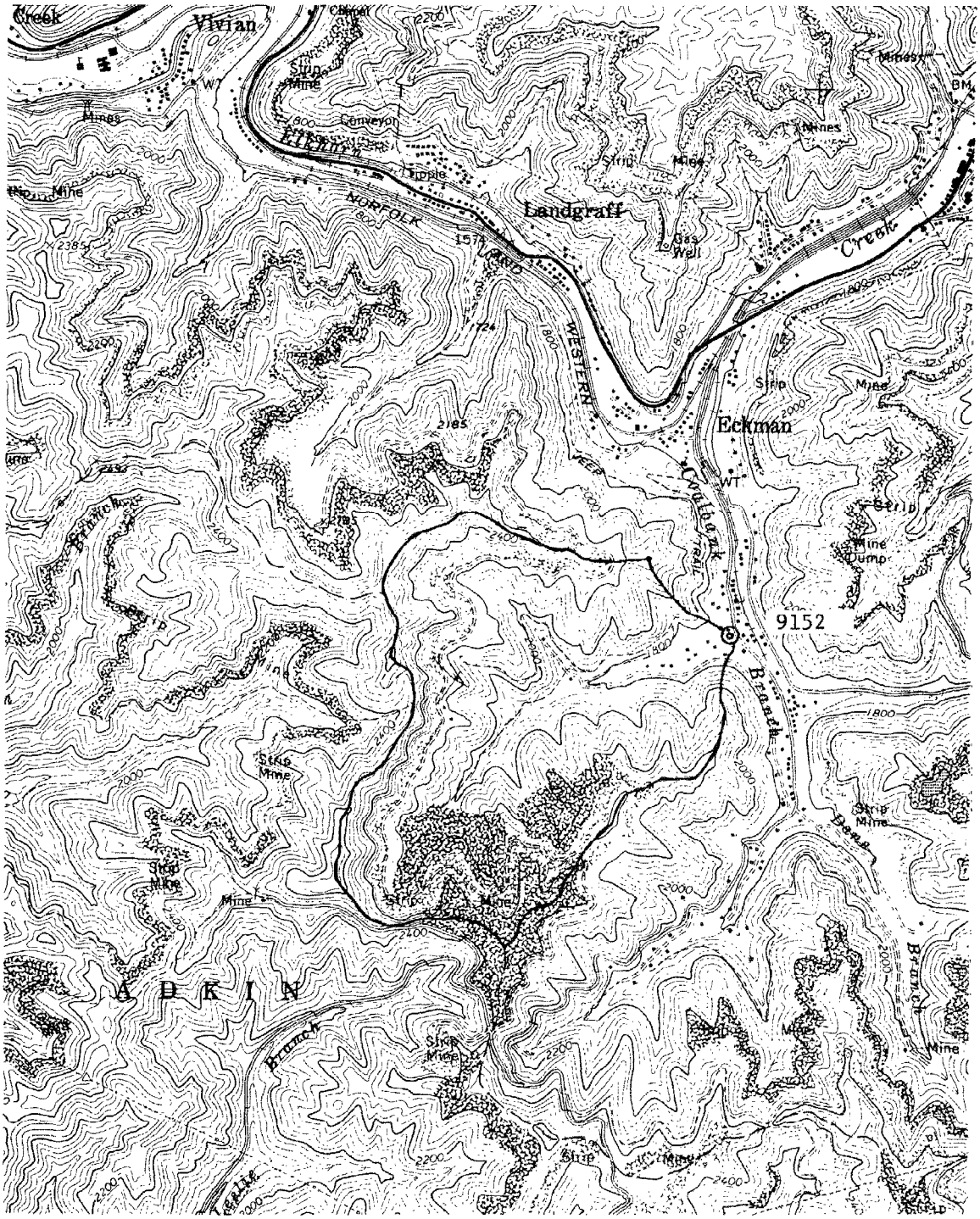

Figure 39. Location map for site 9152, McDowell Co., West Virginia. Keystone Quadrangle.

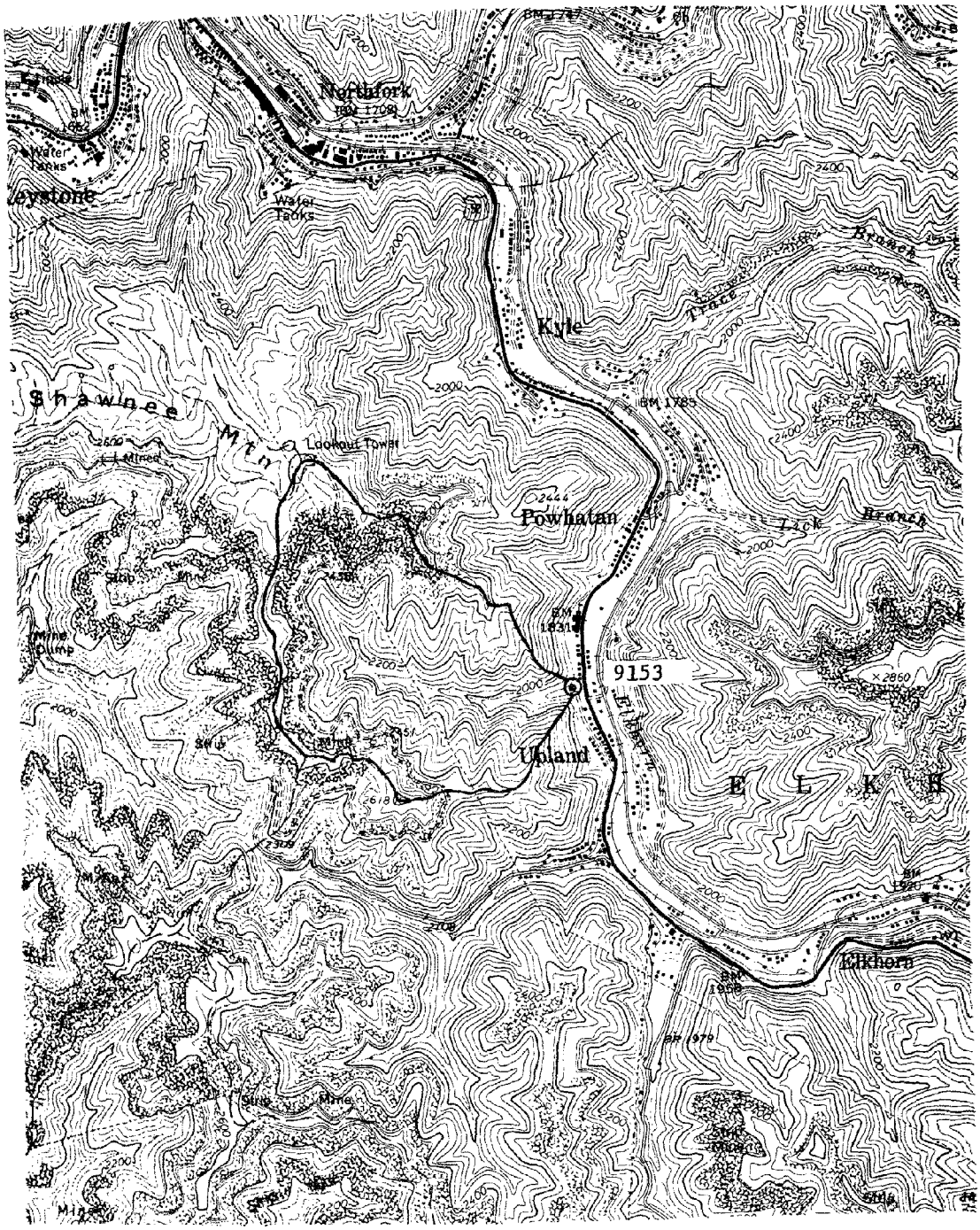

Figure 40. Location map for site 9153, McDowell Co., West Virginia. Keystone Quadrangle.

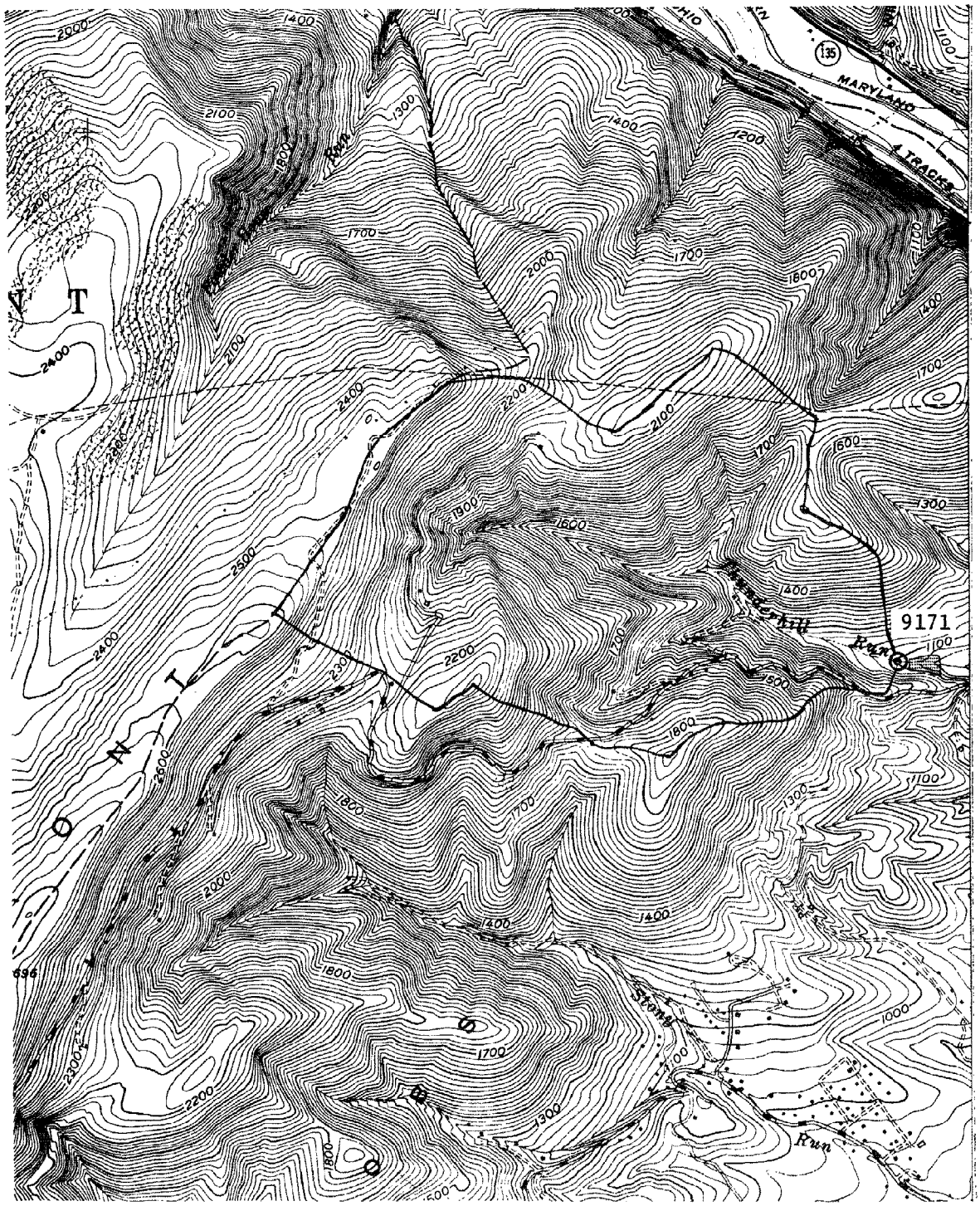

Figure 41. Location map for site 9171, Mineral Co., West Virginia. Westernport Quadrangle.

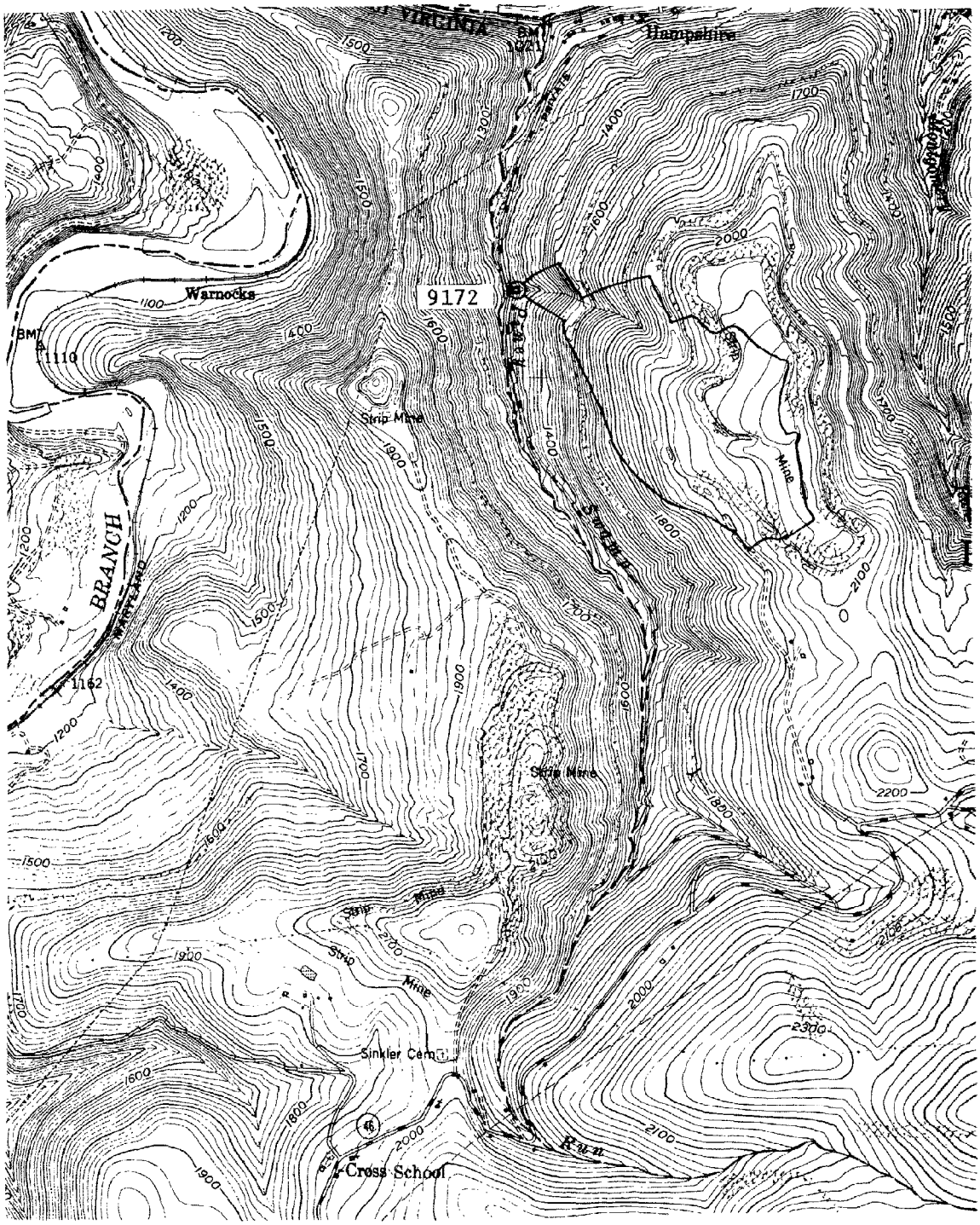

Figure 42. Location map for site 9172, Mineral Co., West Virginia. Westernport Quadrangle.

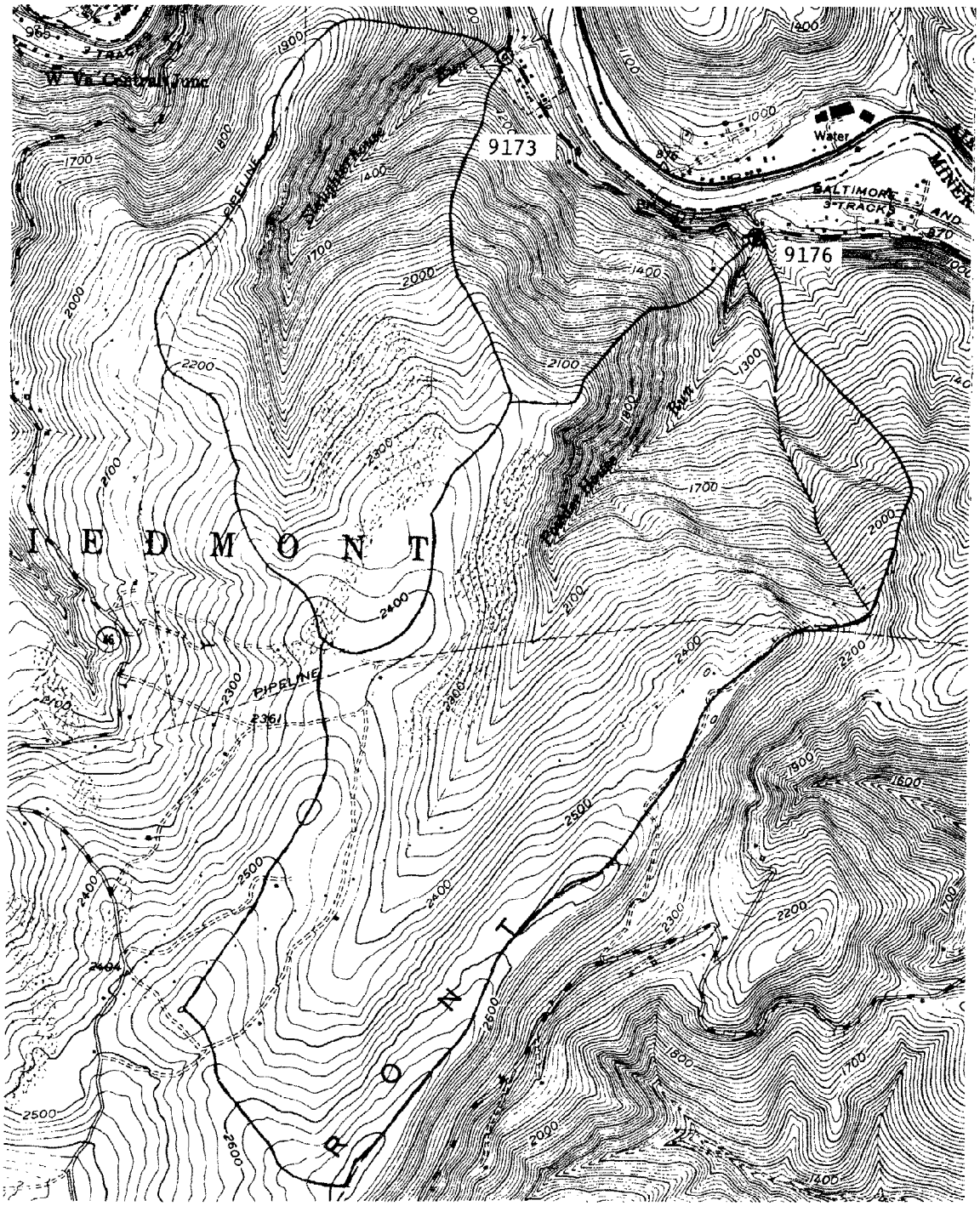

Figure 43. Location map for sites 9173 and 9176, Mineral Co., West Virginia. Westernport Quadrangle.

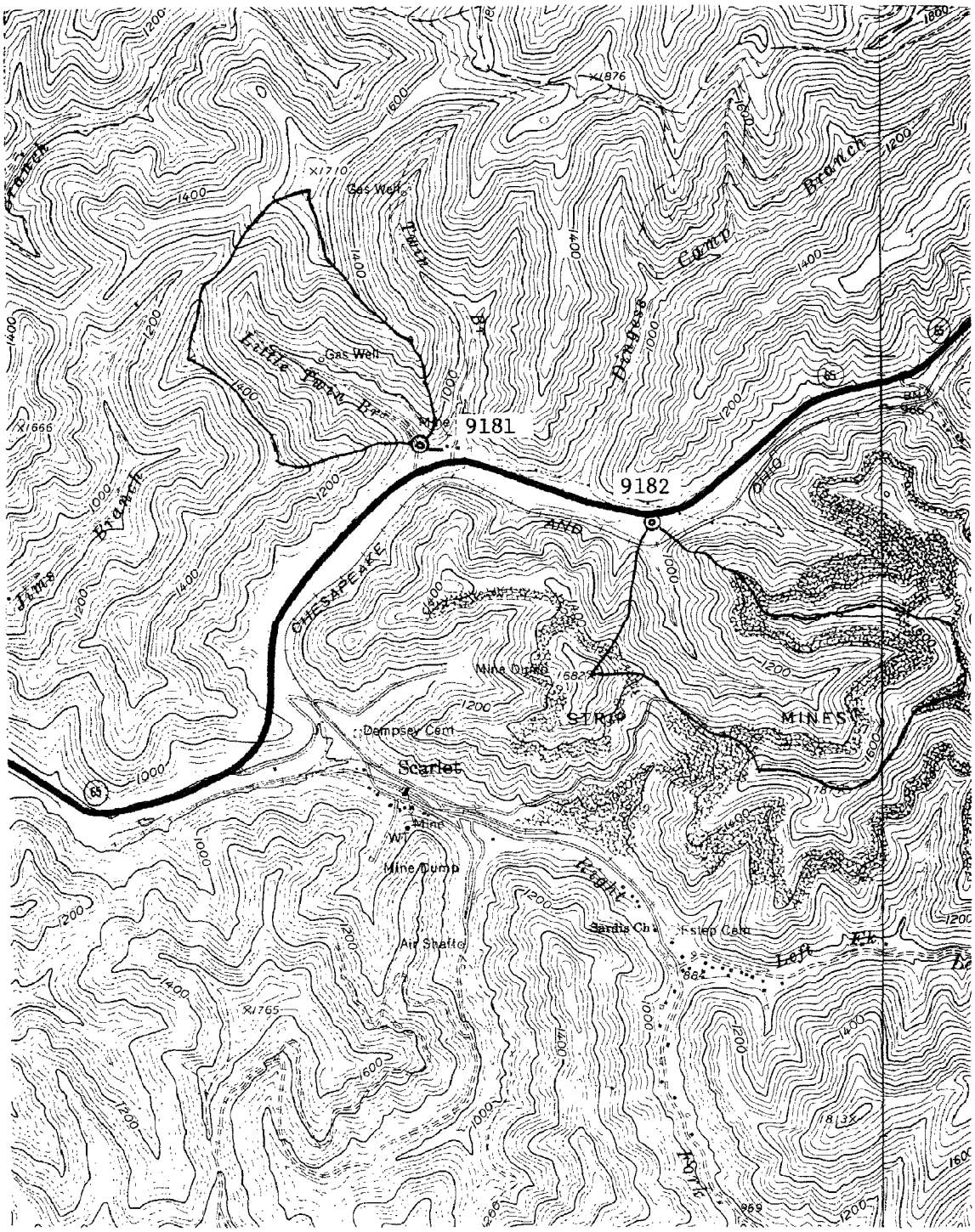

Figure 44. Location map for sites 9181 and 9182, Mingo County, West Virginia Myrtle Quadrangle.

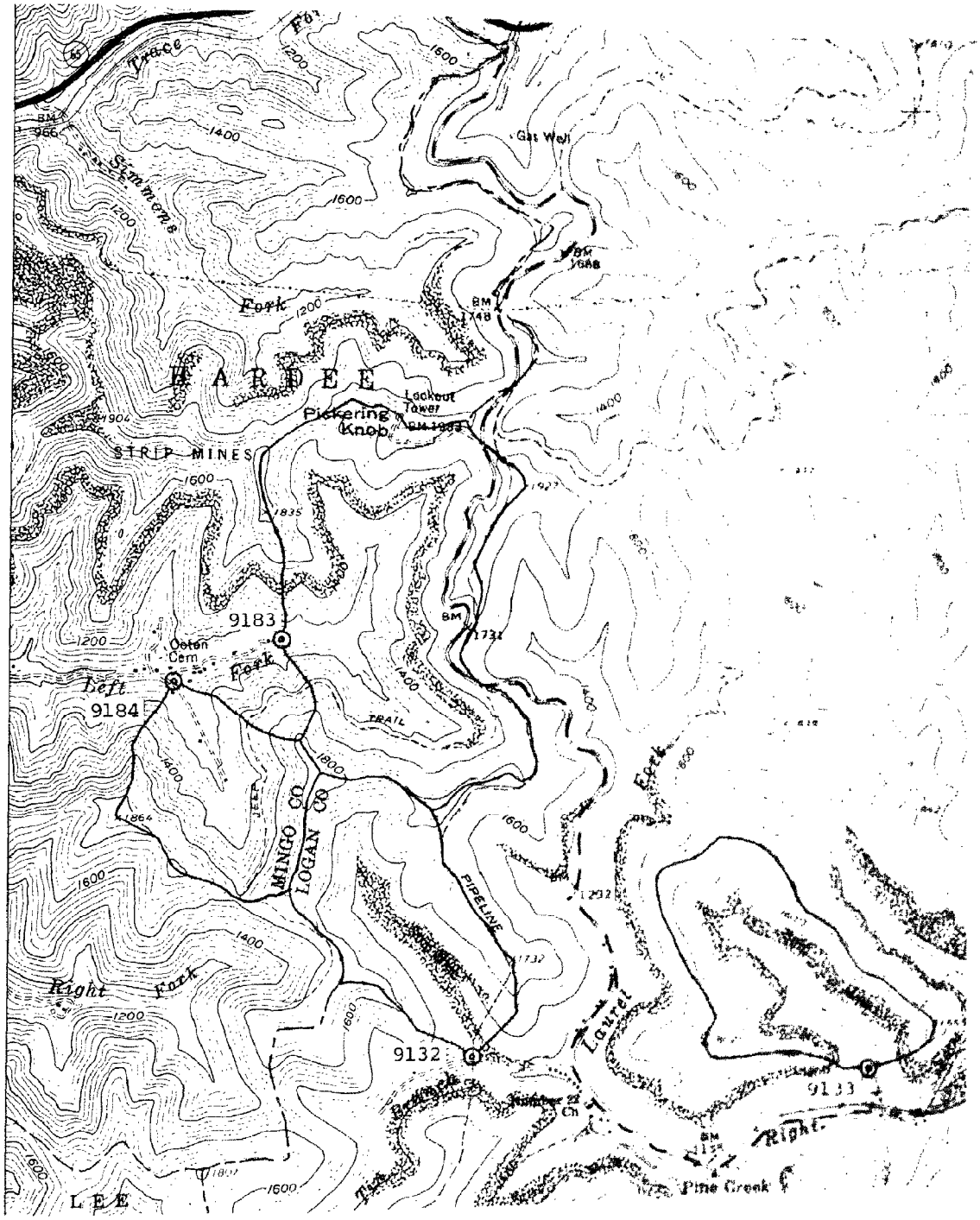

Figure 45. Location map for sites 9132, 9133, 9183, and 9184, Mingo and Logan Co., West Virginia. Holden Quadrangle.

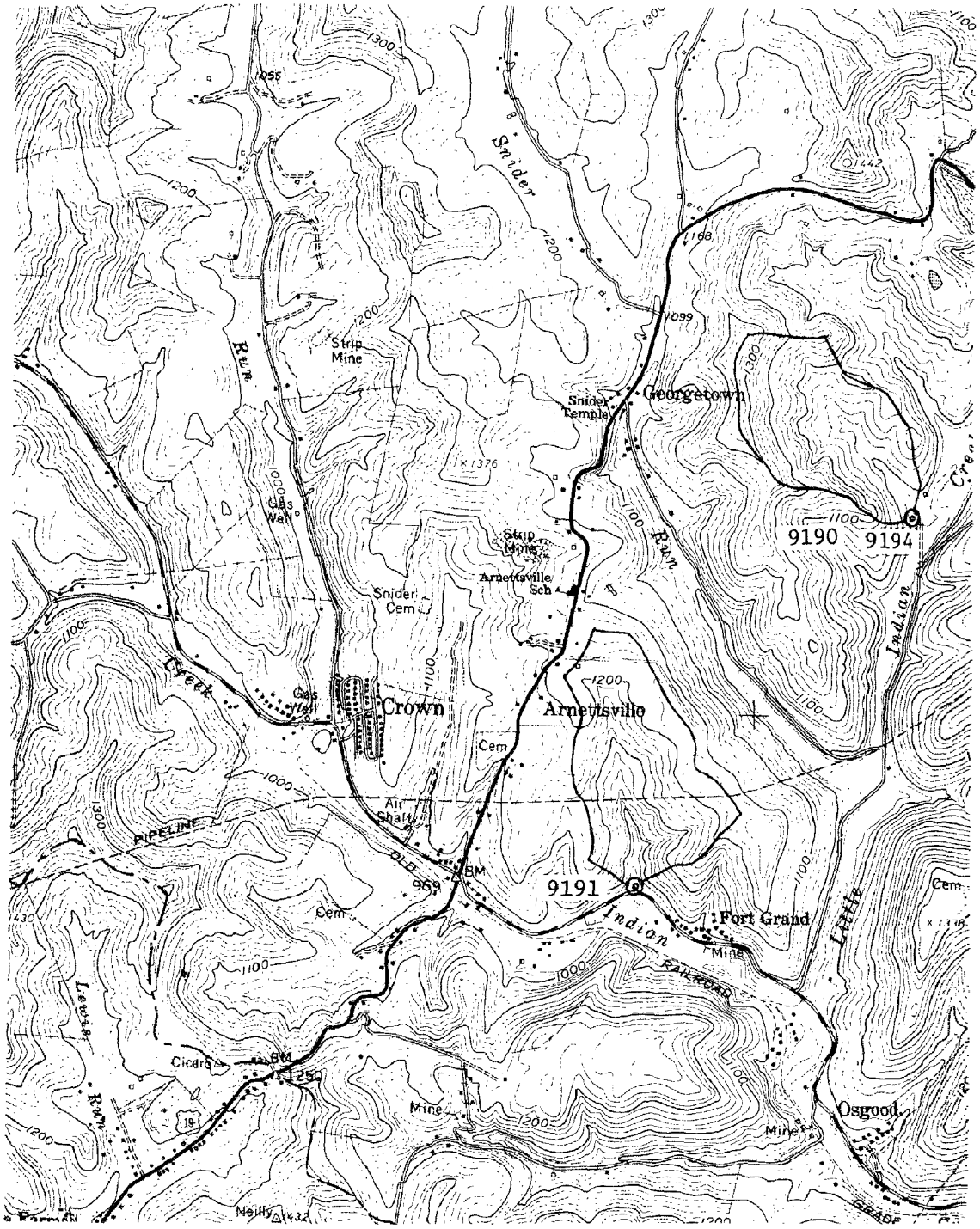

Figure 46. Location map for sites 9190, 9191, and 9194, Monongalia Co., West Virginia. Rivesville Quadrangle.

Figure 47. Location map for sites 9192, 9195, and 9198, Monongalia Co., West Virginia. Rivesville Quadrangle.

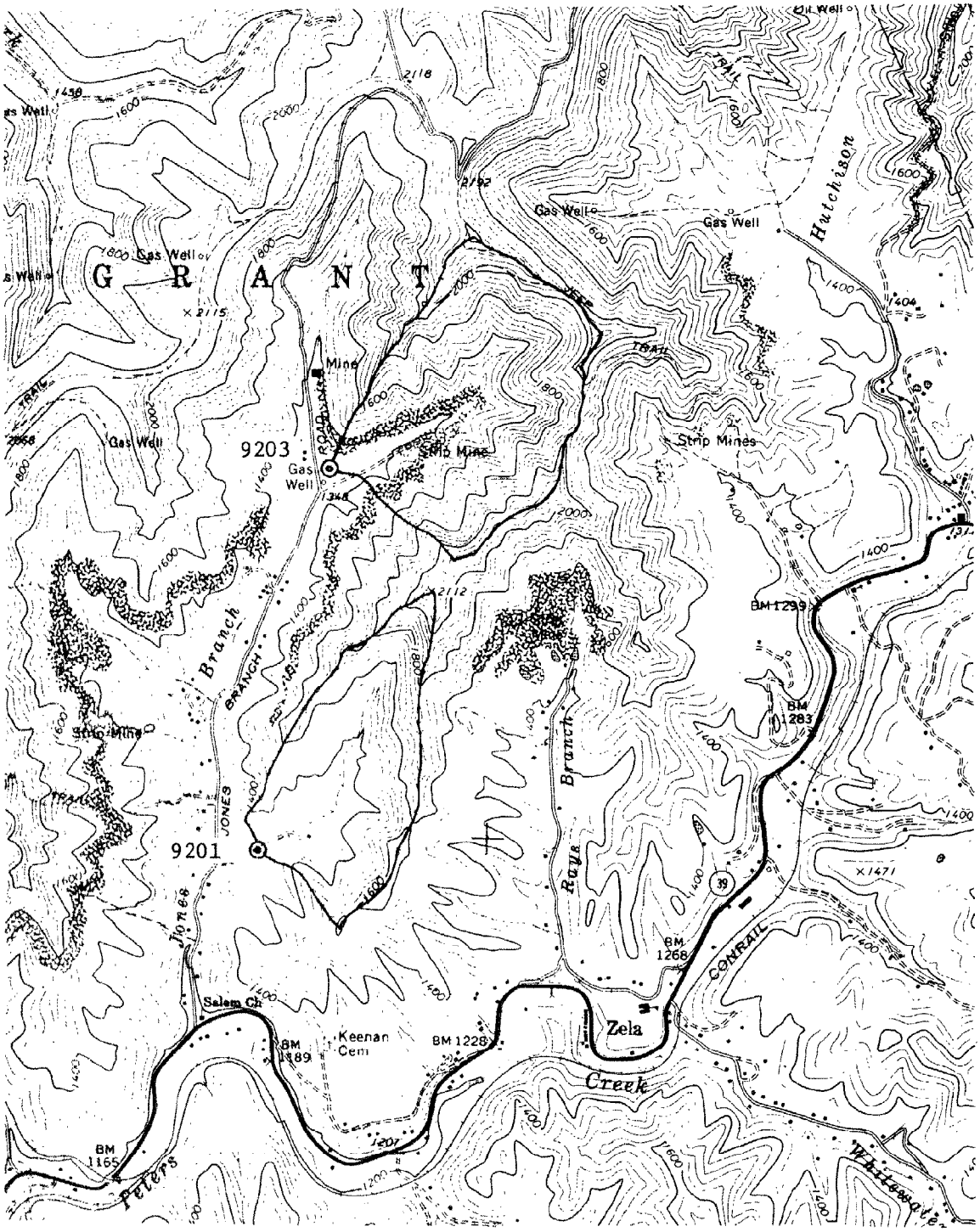

Figure 48. Location map for sites 9201 and 9203, Nicholas County, West Virginia. Gilboa Quadrangle.

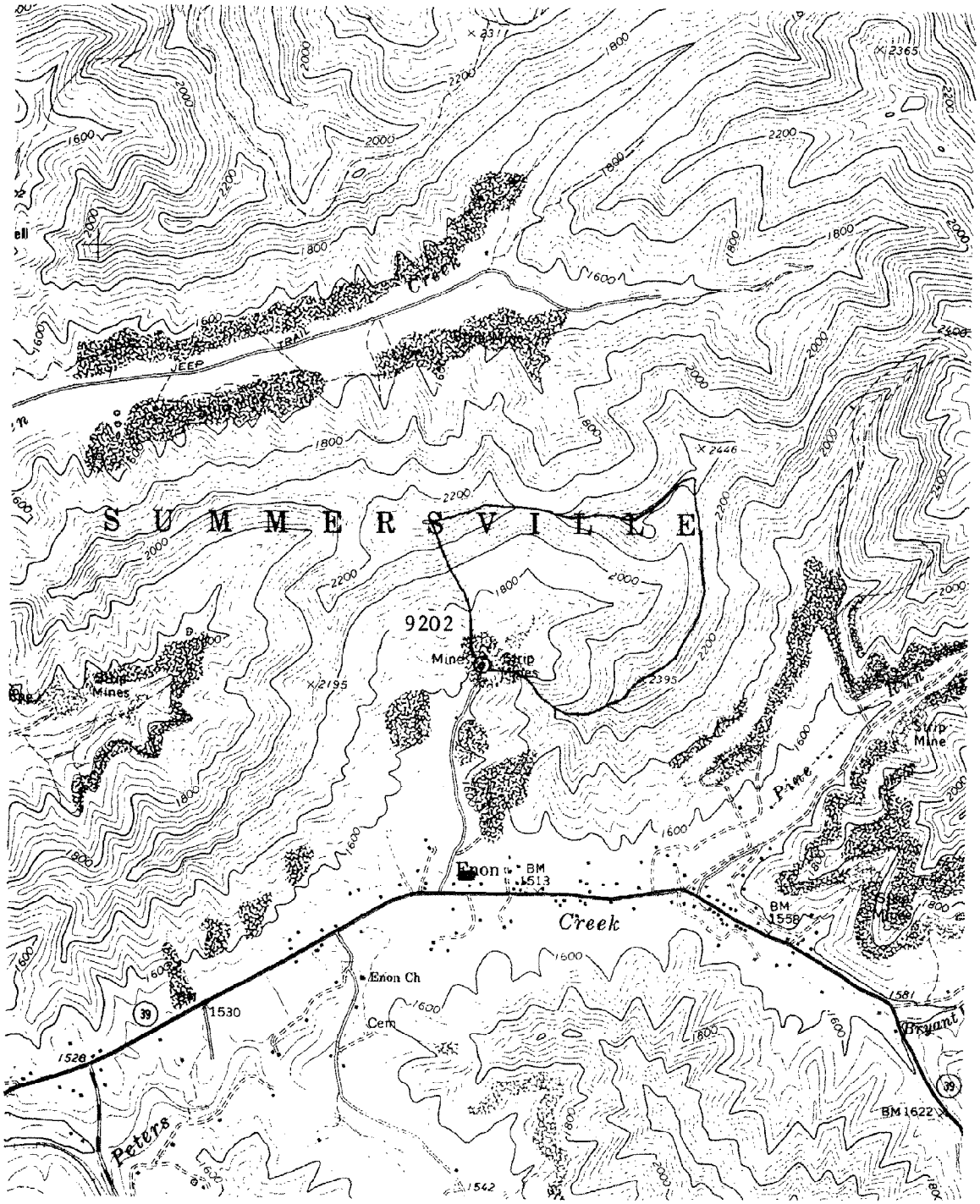

Figure 49. Location map for site 9202, Nicholas Co., West Virginia. Gilboa Quadrangle.

Figure 50. Location map for sites 9211, 9212, 9218, Preston Co., West Virginia. Valley Point Quadrangle.

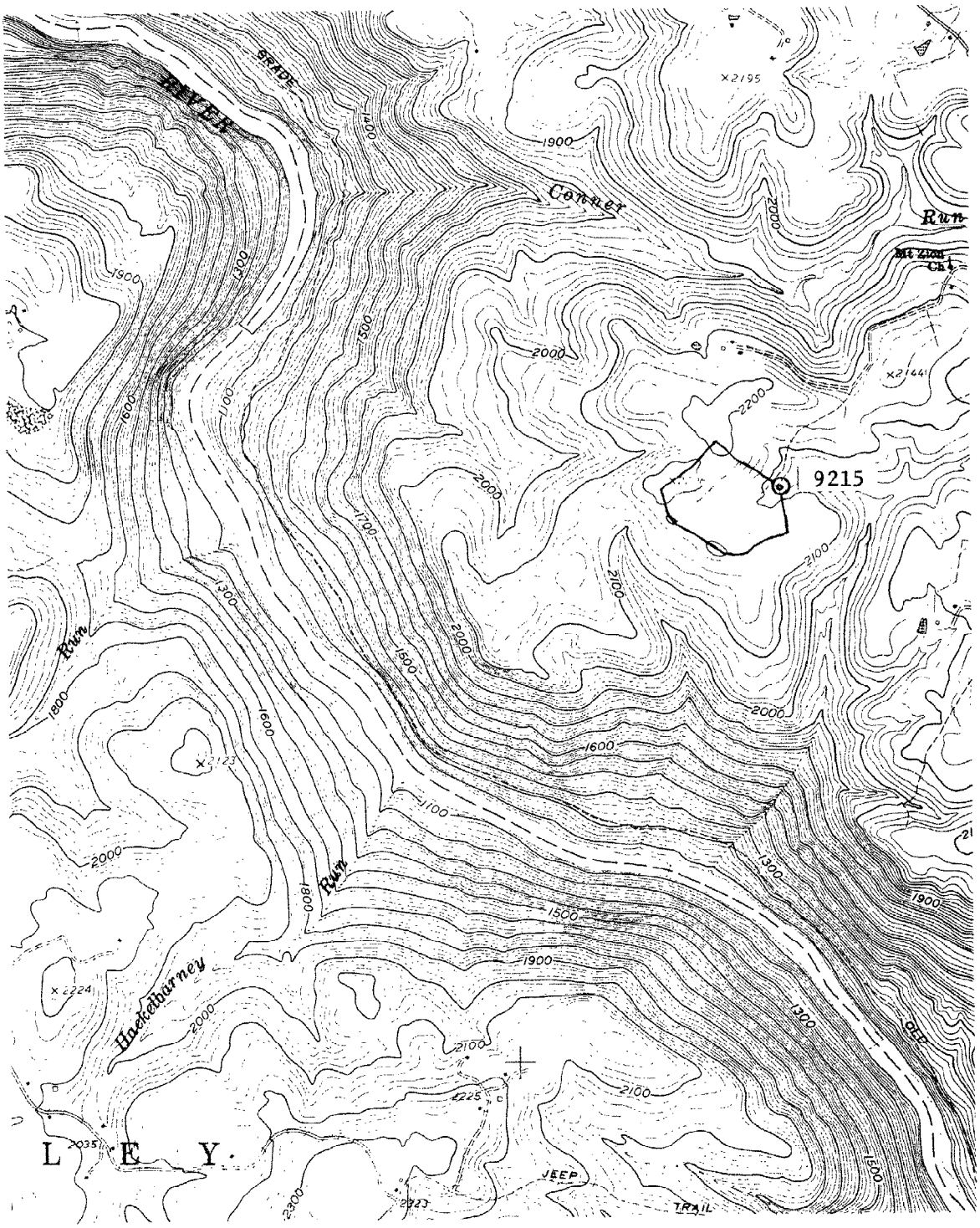

Figure 51. Location map for site 9215, Preston Co., West Virginia. Valley Point Quadrangle.

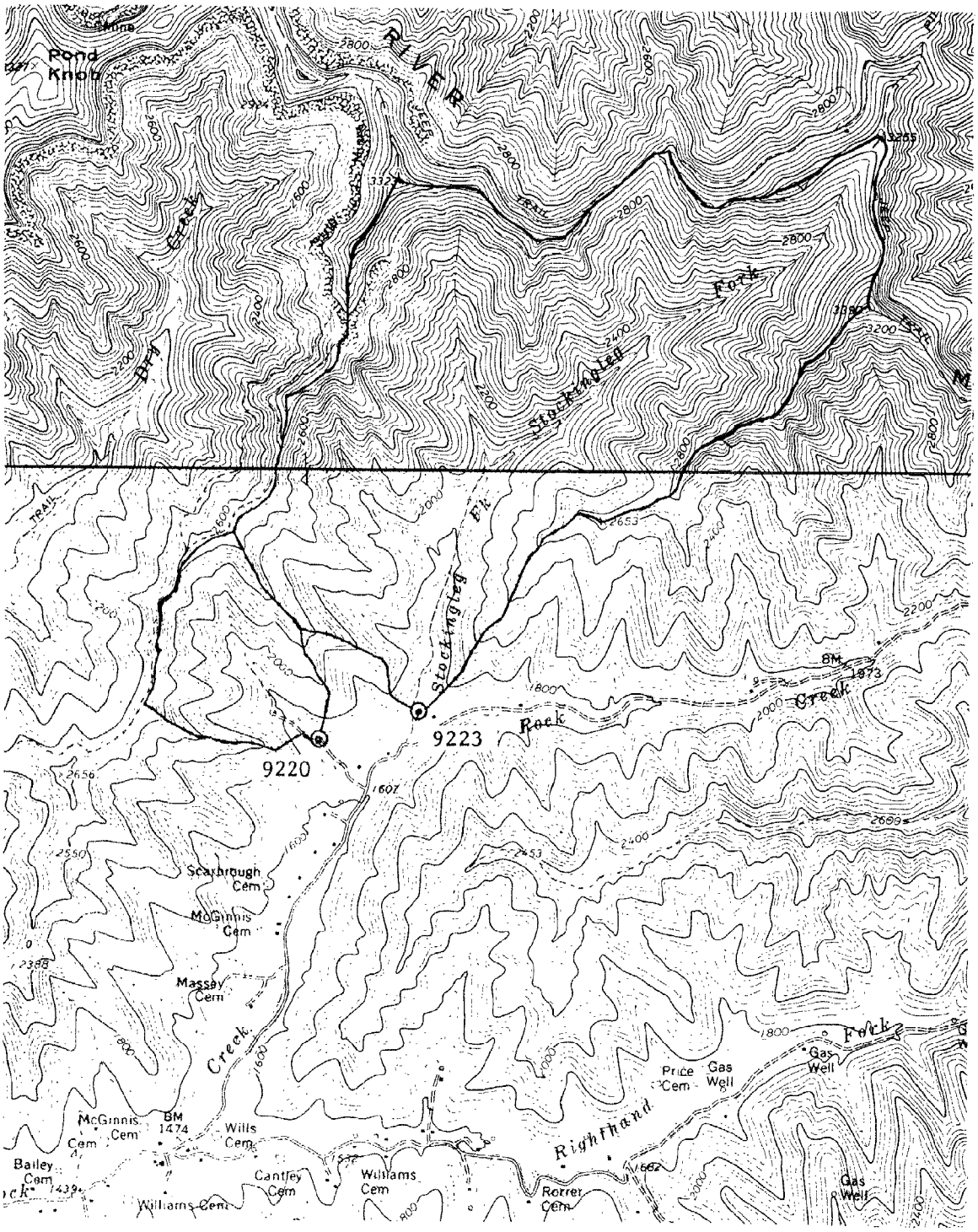

Figure 52. Location map for sites 9220 and 9223, Raleigh Co., West Virginia. Arnett and Dorothy Quadrangles.

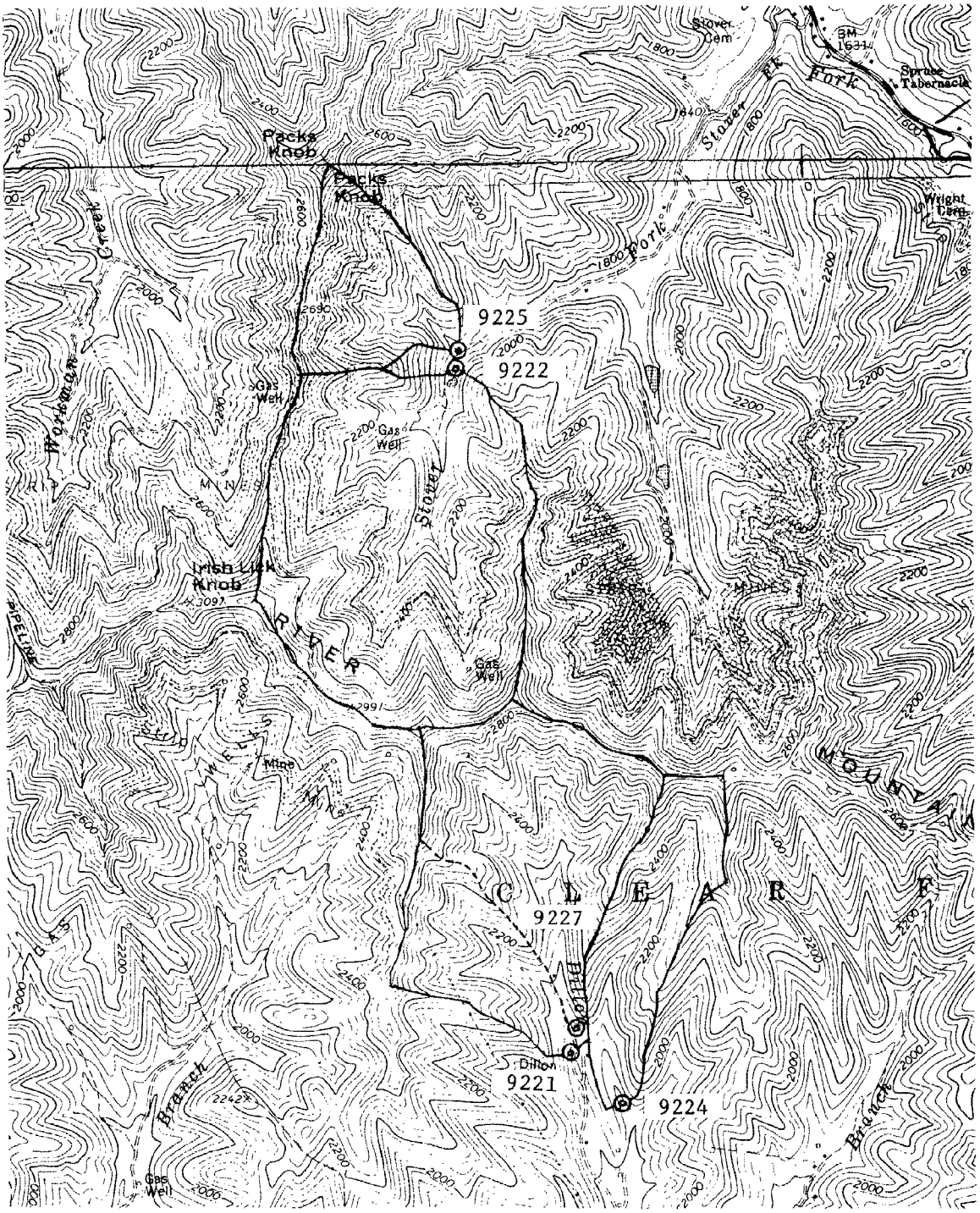

Figure 53. Location map for sites 9221, 9222, 9224, 9225, and 9227, Raleigh Co., West Virginia. Eccles and Pax Quadrangles.

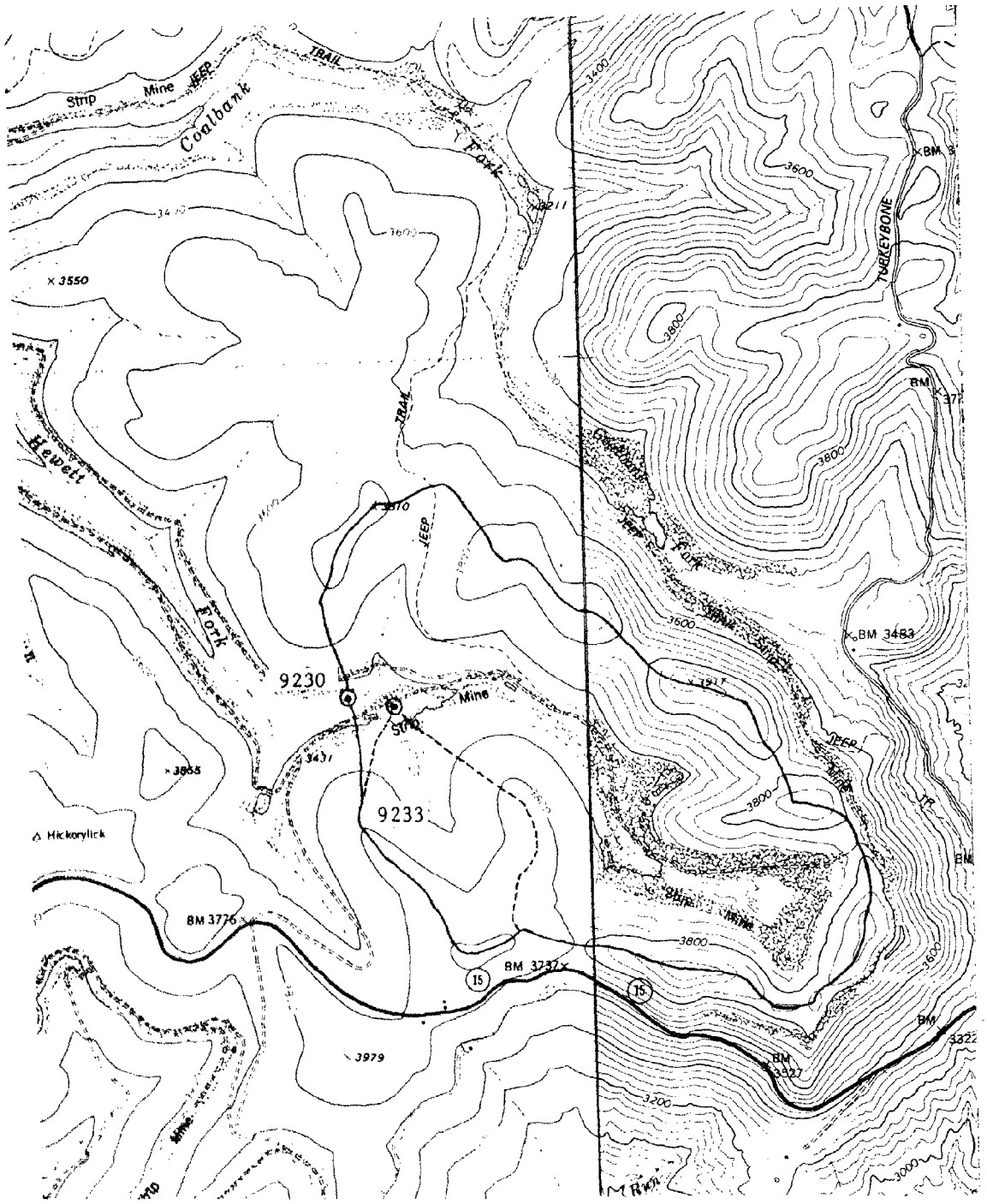

Figure 54. Location map for sites 9230 and 9233, Randolph Co., West Virginia. Valley Head and Samp Quadrangles.

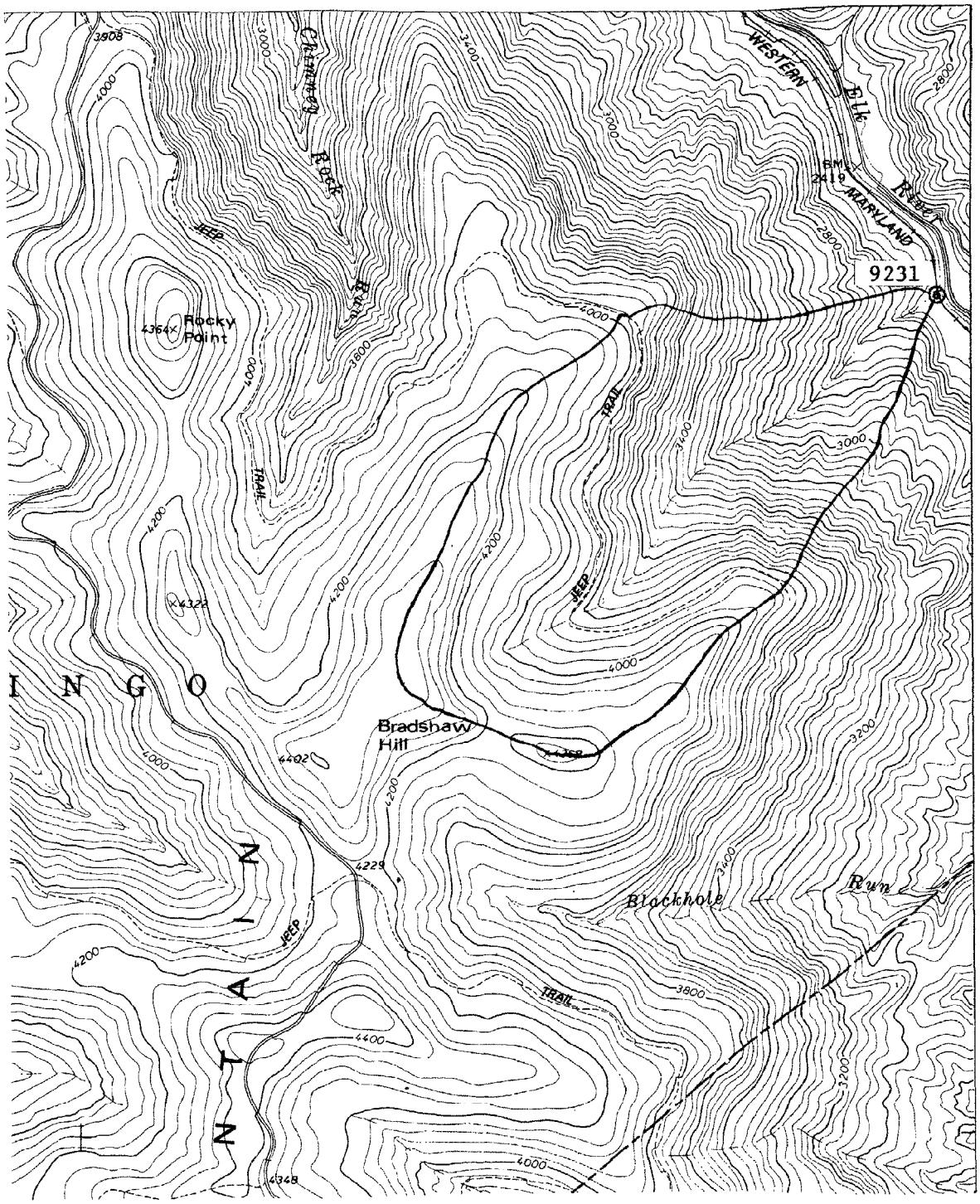

Figure 55. Location map for site 9231, Randolph Co., West Virginia. Sharp Knob Quadrangle.

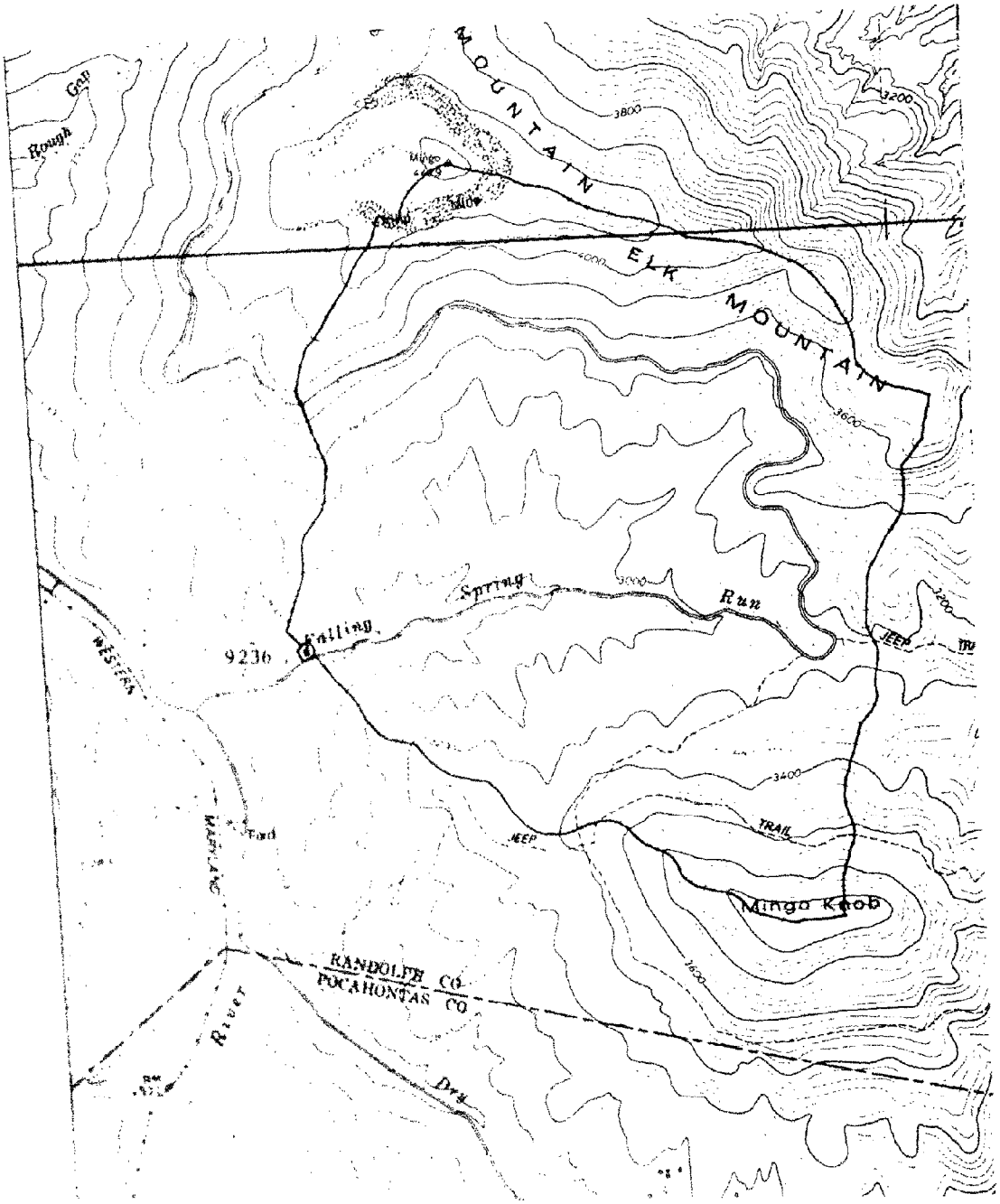

Figure 56. Location map for site 9236, Randolph Co., West Virginia. Valley Head and Mingo Quadrangles.

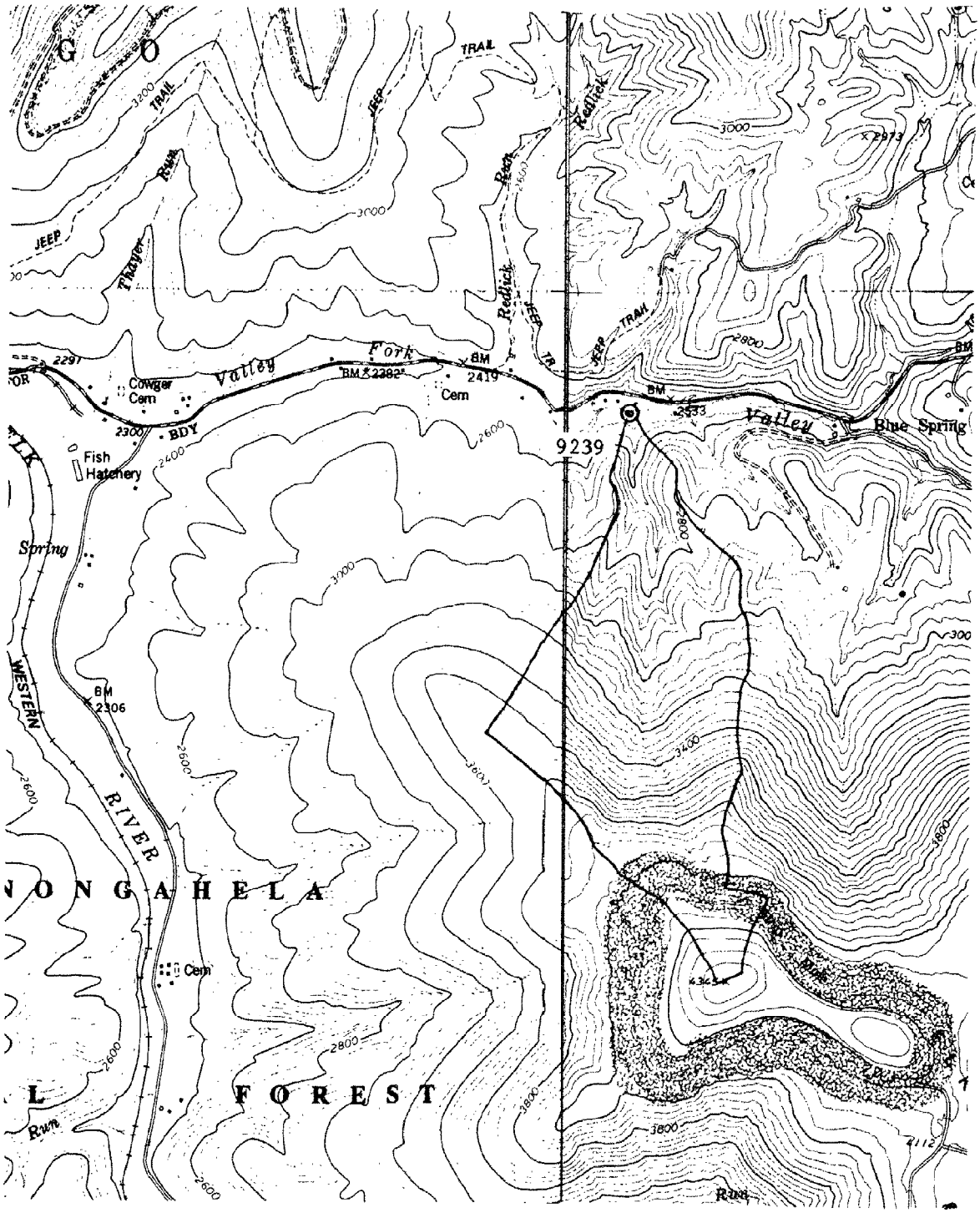

Figure 57. Location map for site 9239, Randolph Co., West Virginia. Valley Head and Samp Quadrangles.

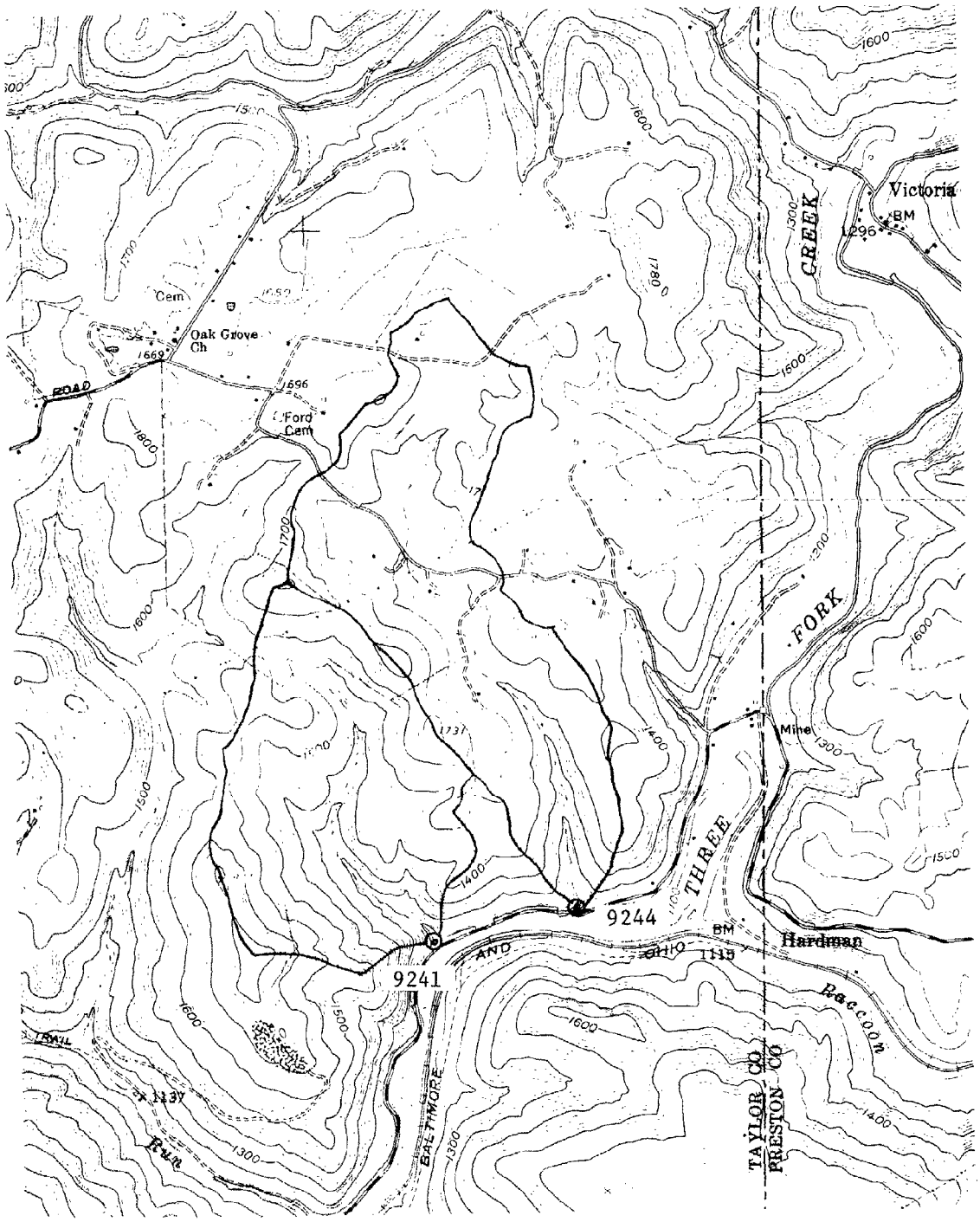

Figure 58. Location map for sites 9241 and 9244, Taylor Co., West Virginia. Gladesville Quadrangle.

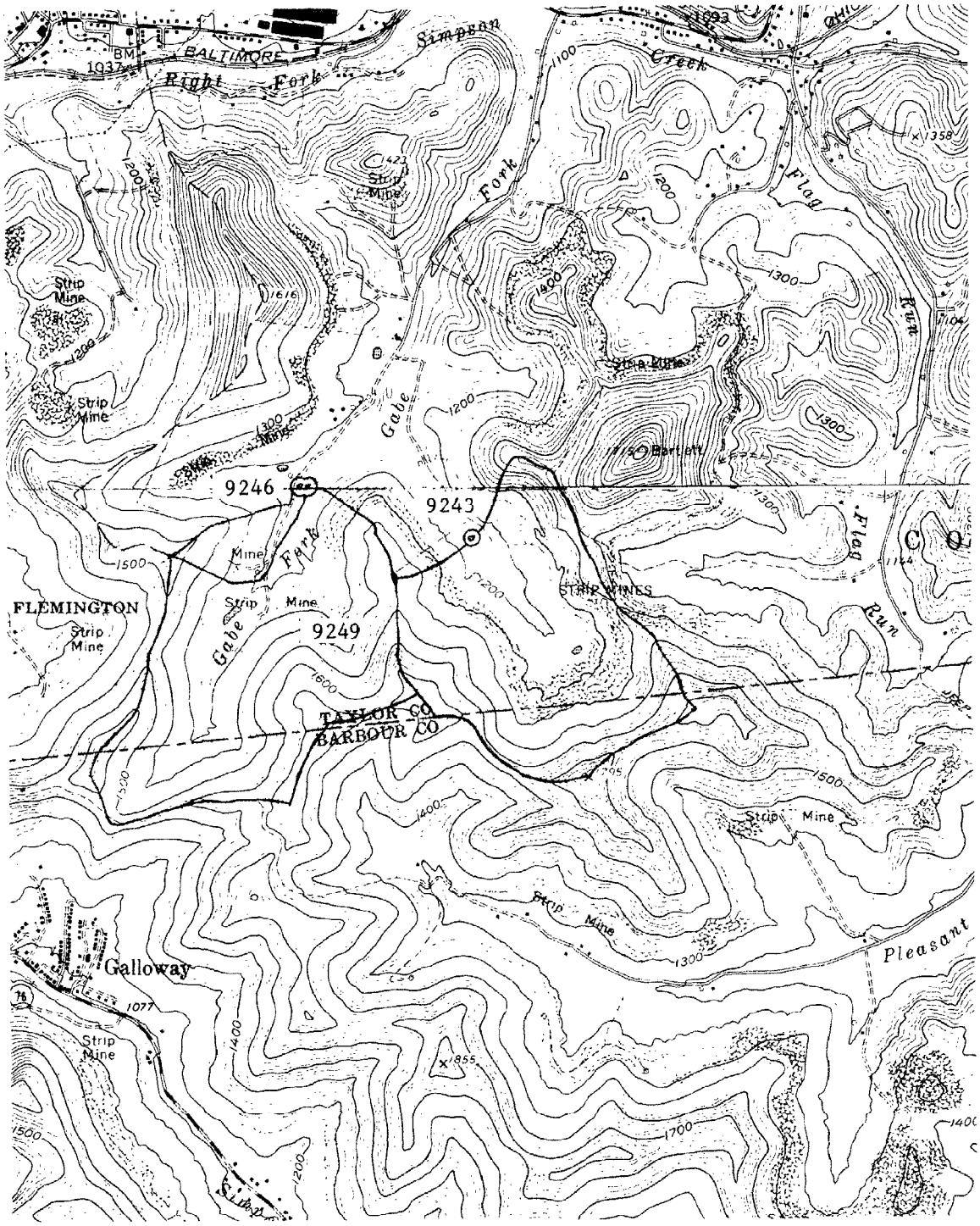

Figure 59. Location map for sites 9243, 9246, and 9249, Taylor Co., West Virginia. Grafton and Philippi Quadrangles.

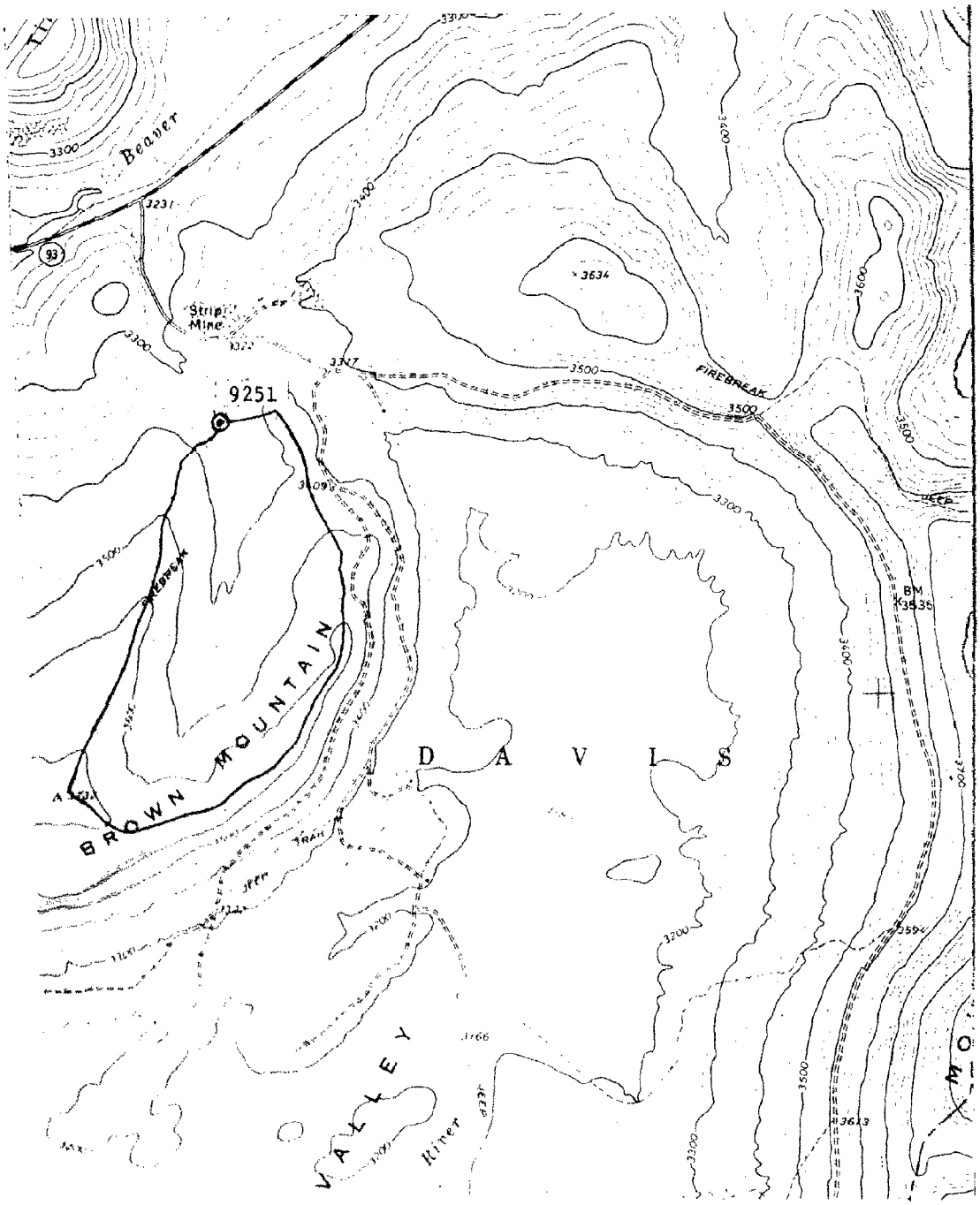

Figure 60. Location map for site 9251, Tucker Co., West Virginia. Mount Storm Lake Quadrangle.

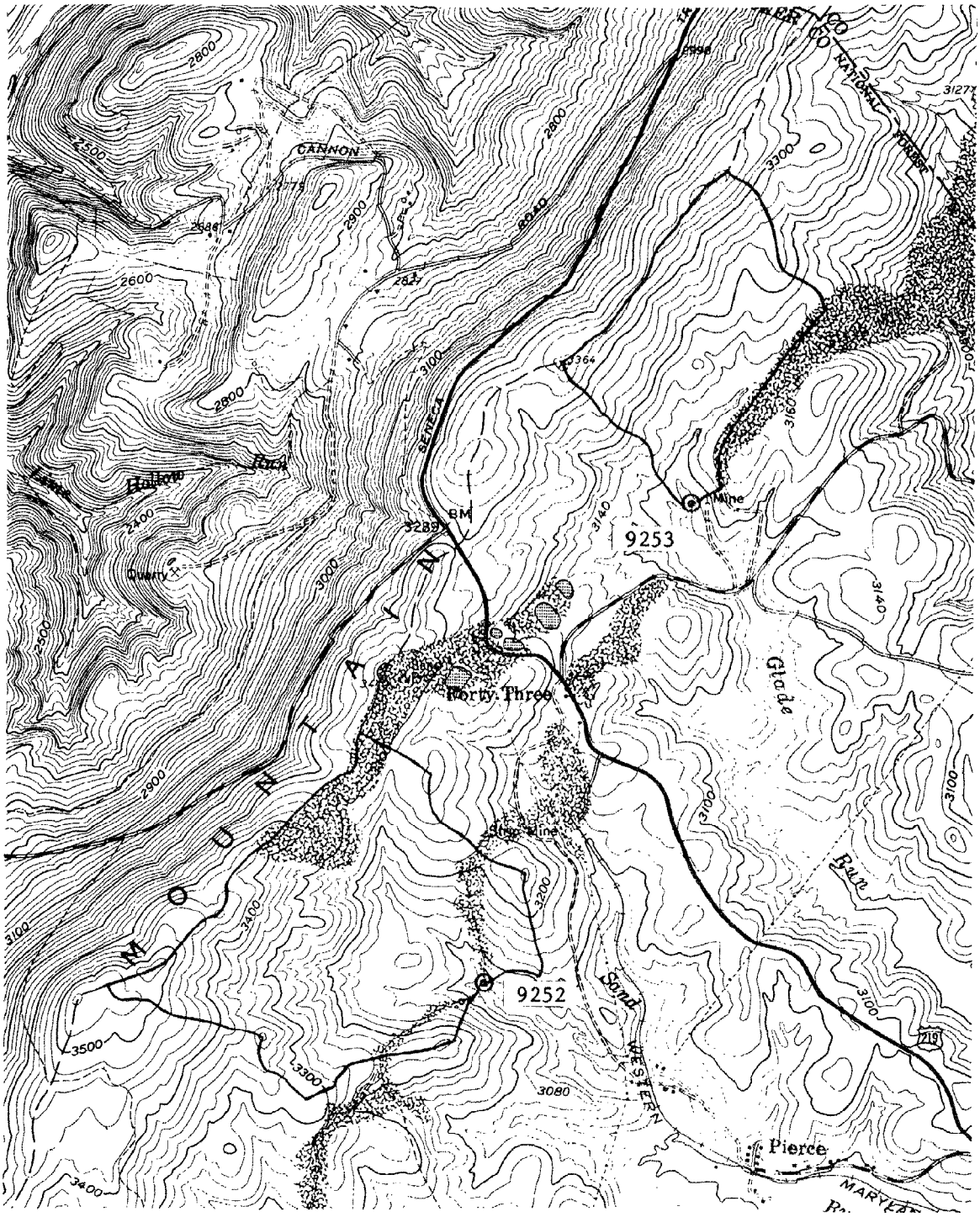

Figure 61. Location map for sites 9252 and 9253, Tucker Co., West Virginia. Lead Mine Quadrangle.

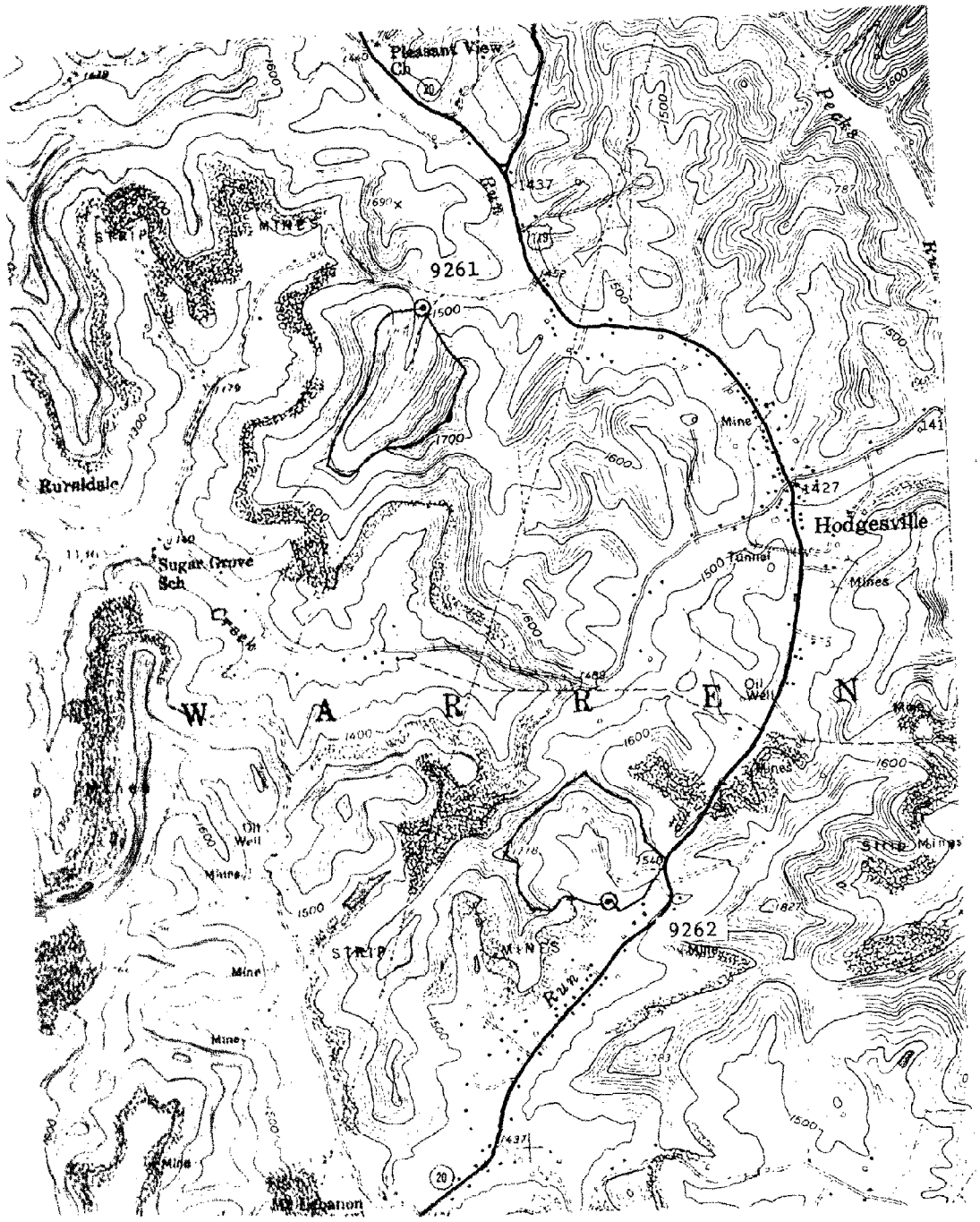

Figure 62. Location map for sites 9261 and 9262, Upshur Co., West Virginia. Century Quadrangle.

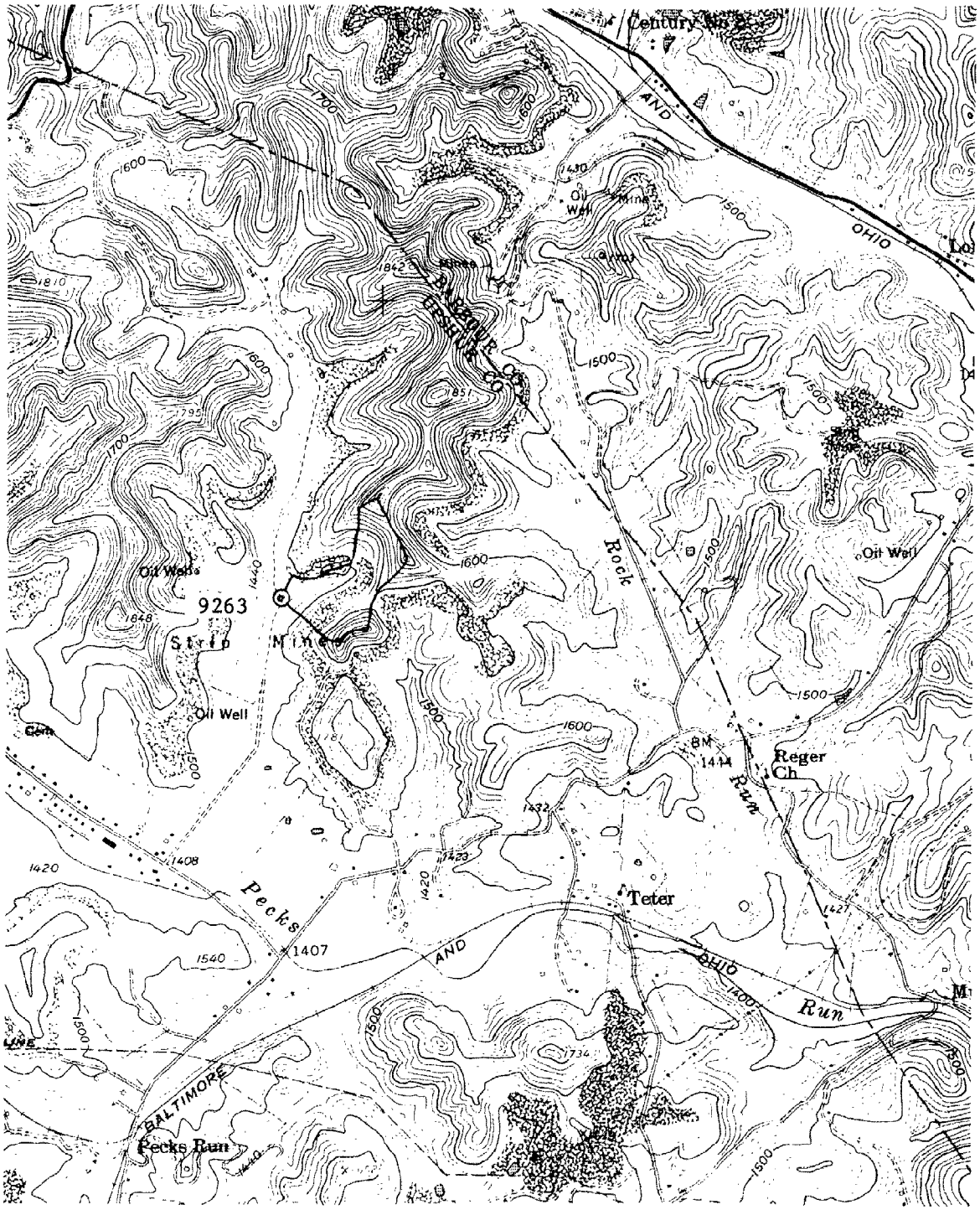

Figure 63. Location map for site 9263, Upshur Co., West Virginia. Century Quadrangle.

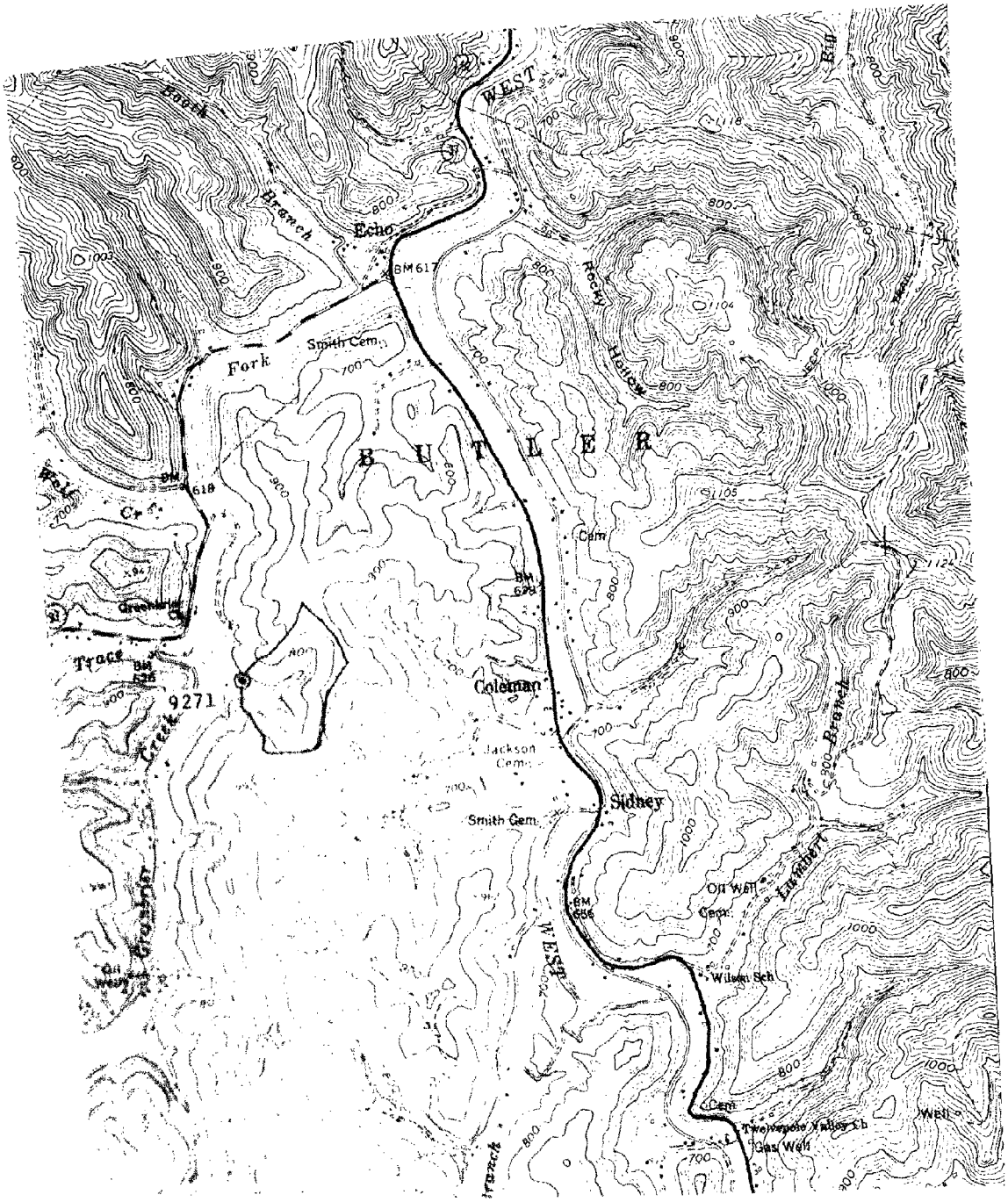

Figure 64. Location map for site 9271, Wayne Co., West Virginia. Wayne Quadrangle.

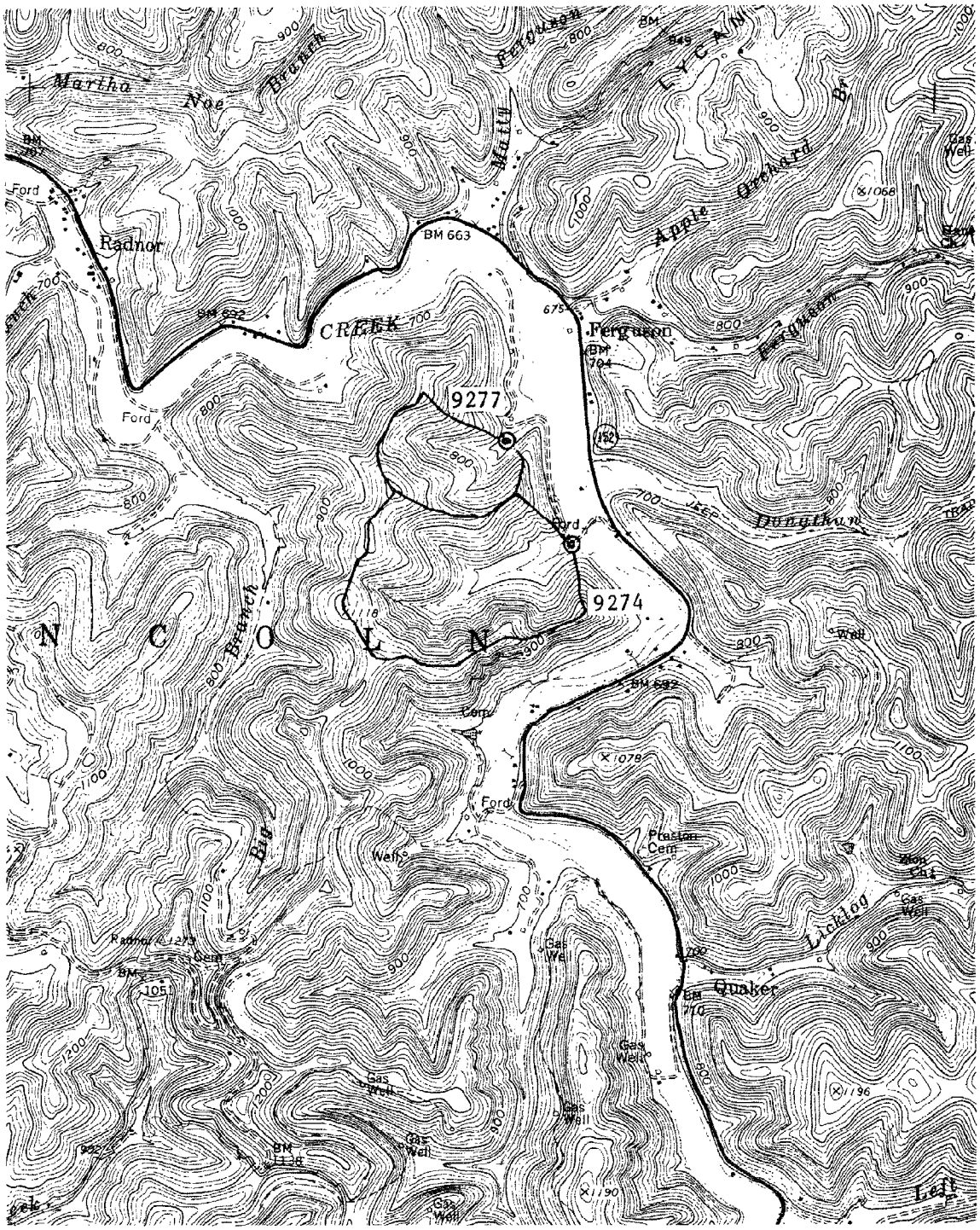

Figure 65. Location map for sites 9274 and 9277, Wayne Co., West Virginia. Radnor Quadrangle.

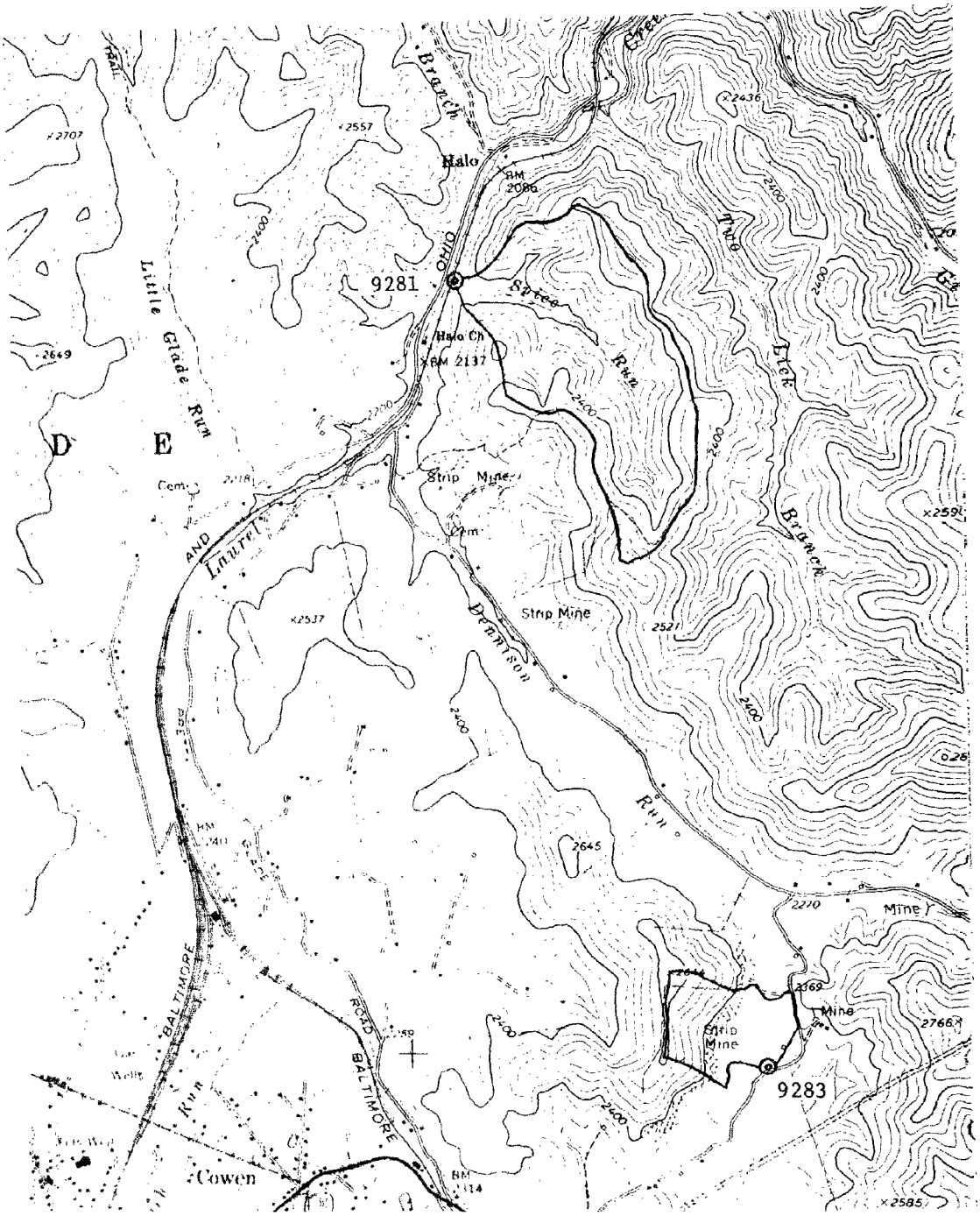

Figure 66. Location map for sites 9281 and 9283, Webster Co., West Virginia. Cowen Quadrangle.

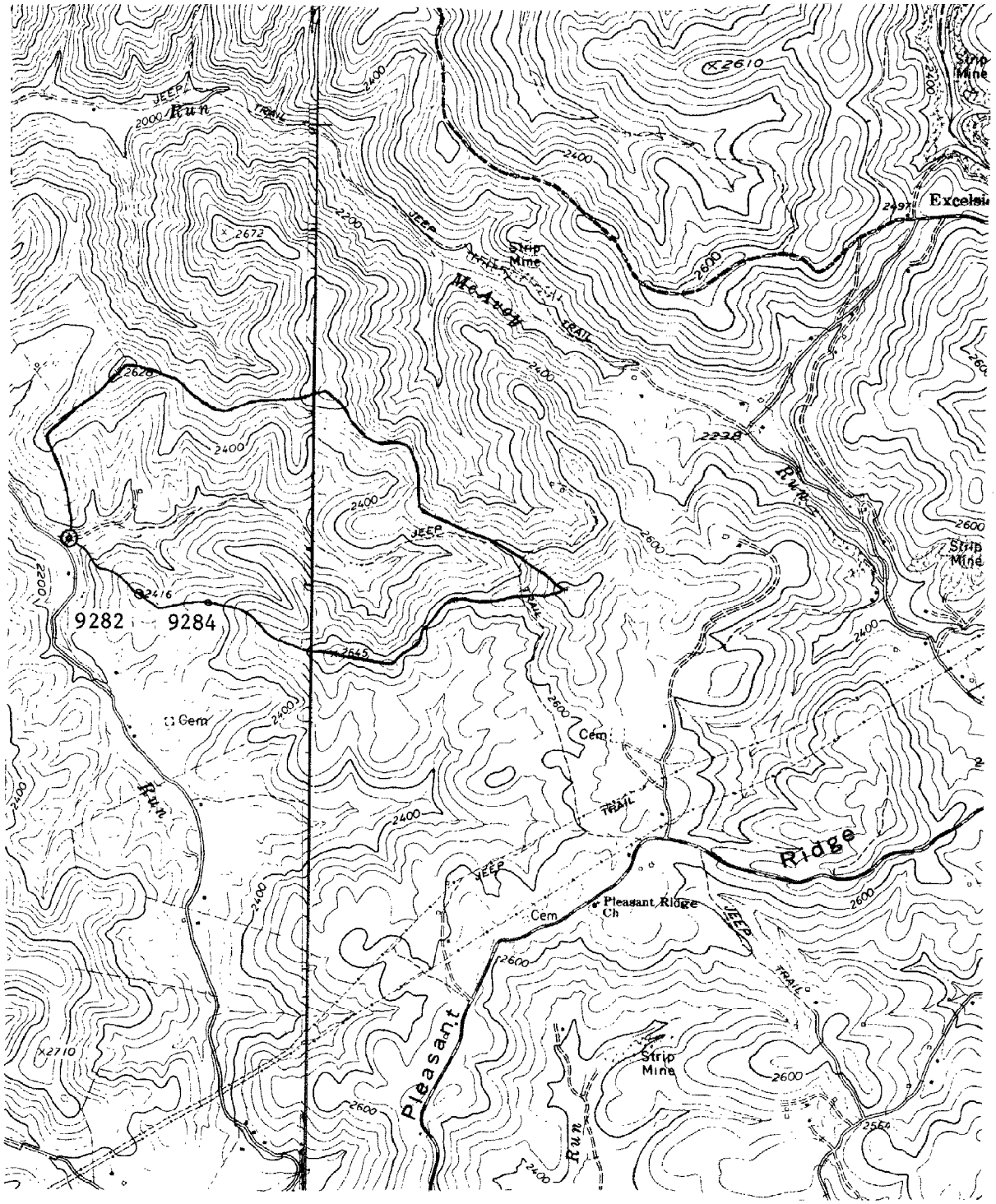

Figure 67. Location map for site 9282 and 9284, Webster Co., West Virginia. Cowen and Webster Springs Quadrangles.

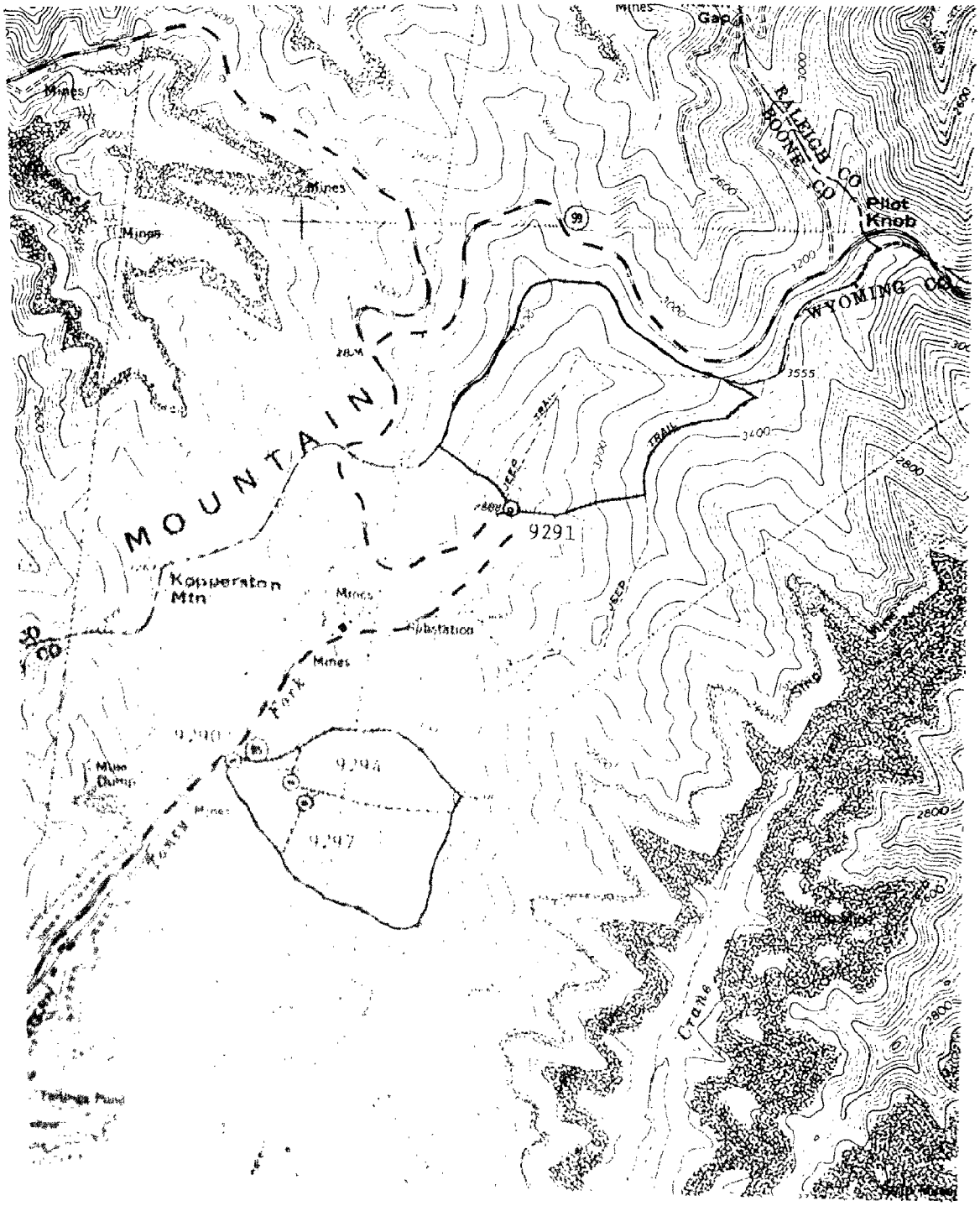

Figure 28. Location map for sites 9290, 9291, 9294, and 9297, Wyoming Co., West Virginia. Pilot Knob Quadrangle.

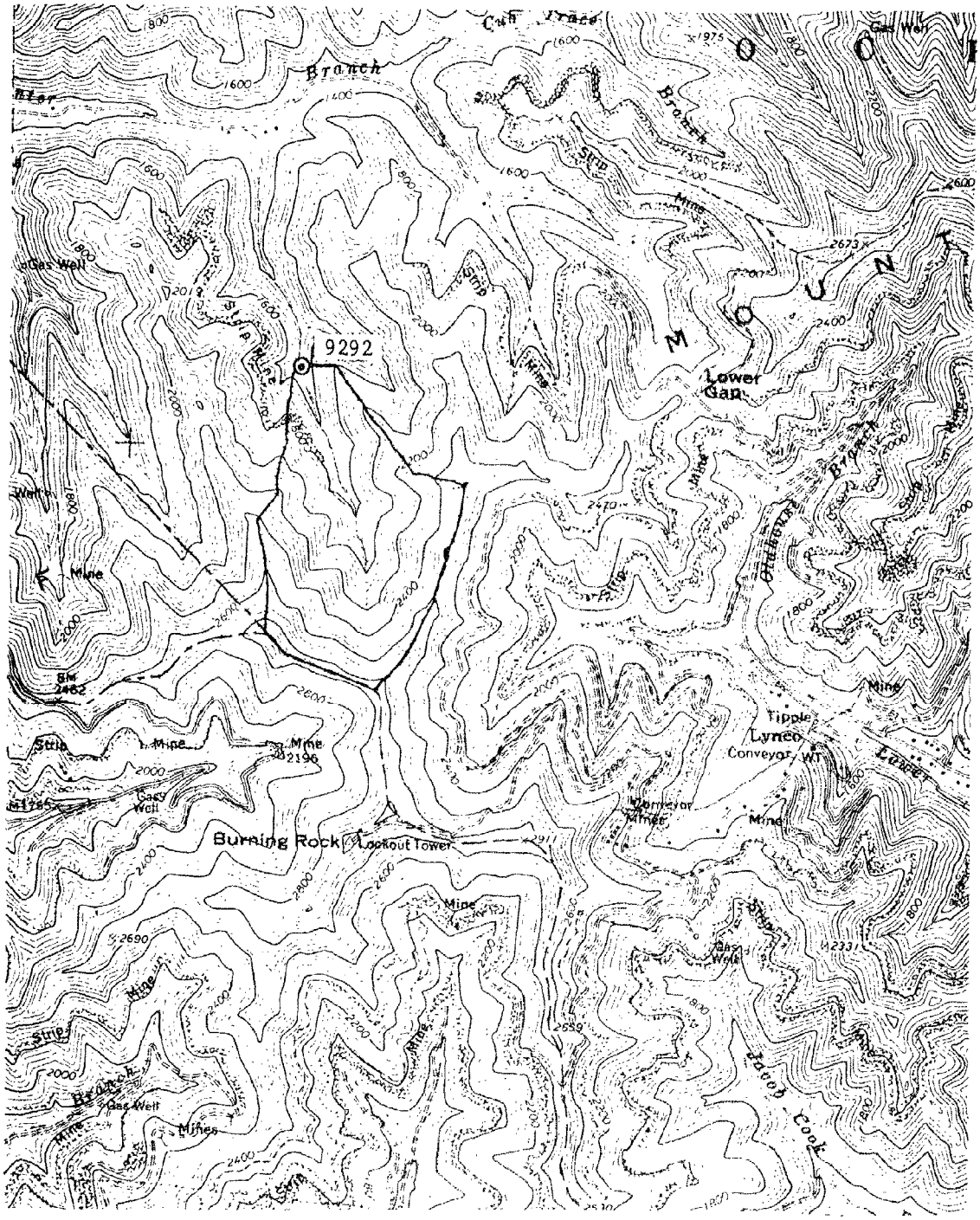

Figure 69. Location map for site 9292, Wyoming Co., West Virginia. Oceana Quadrangle.

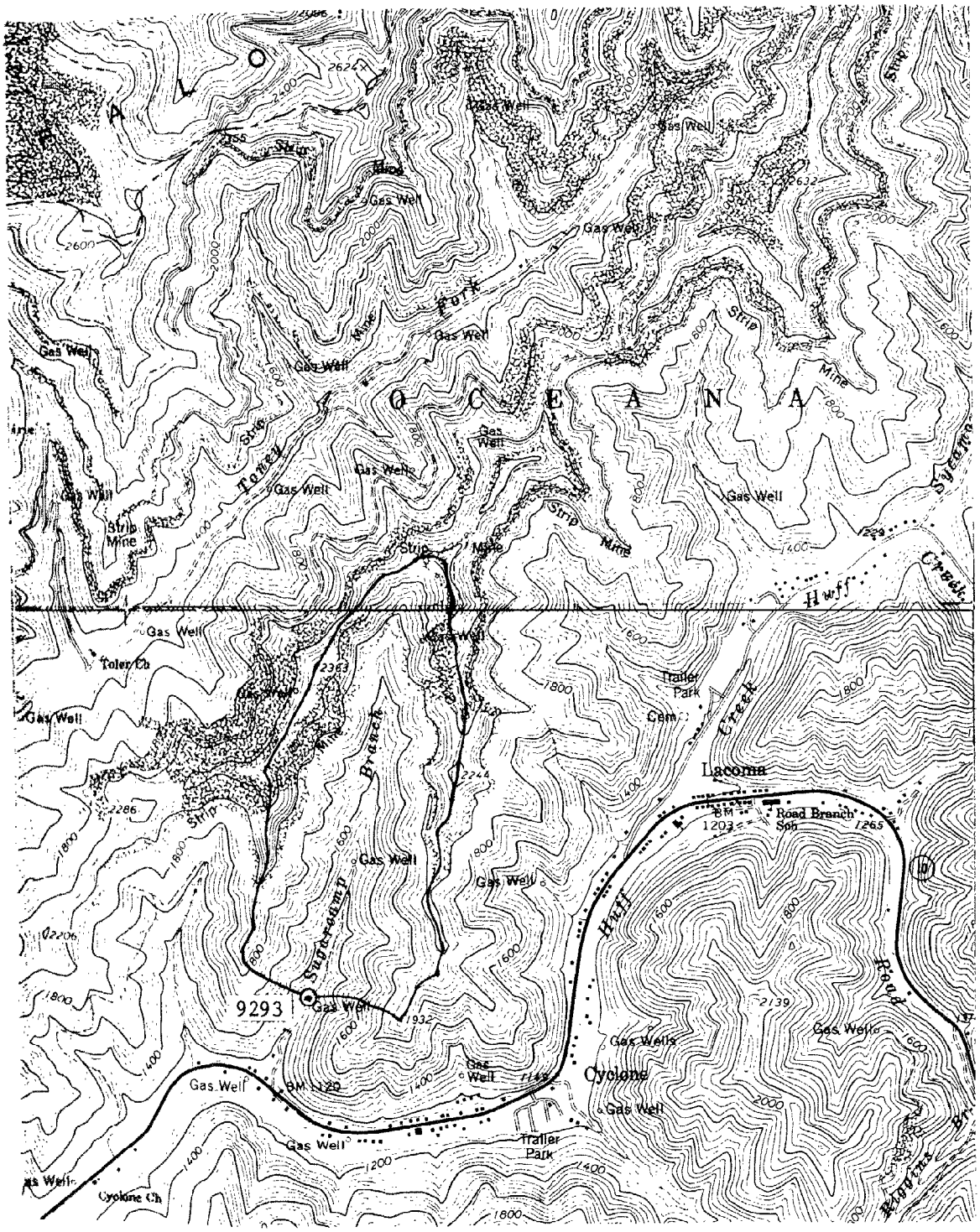

Figure 70. Location map for site 9293, Wyoming Co., West Virginia. Lorado and Oceana Quadrangles.

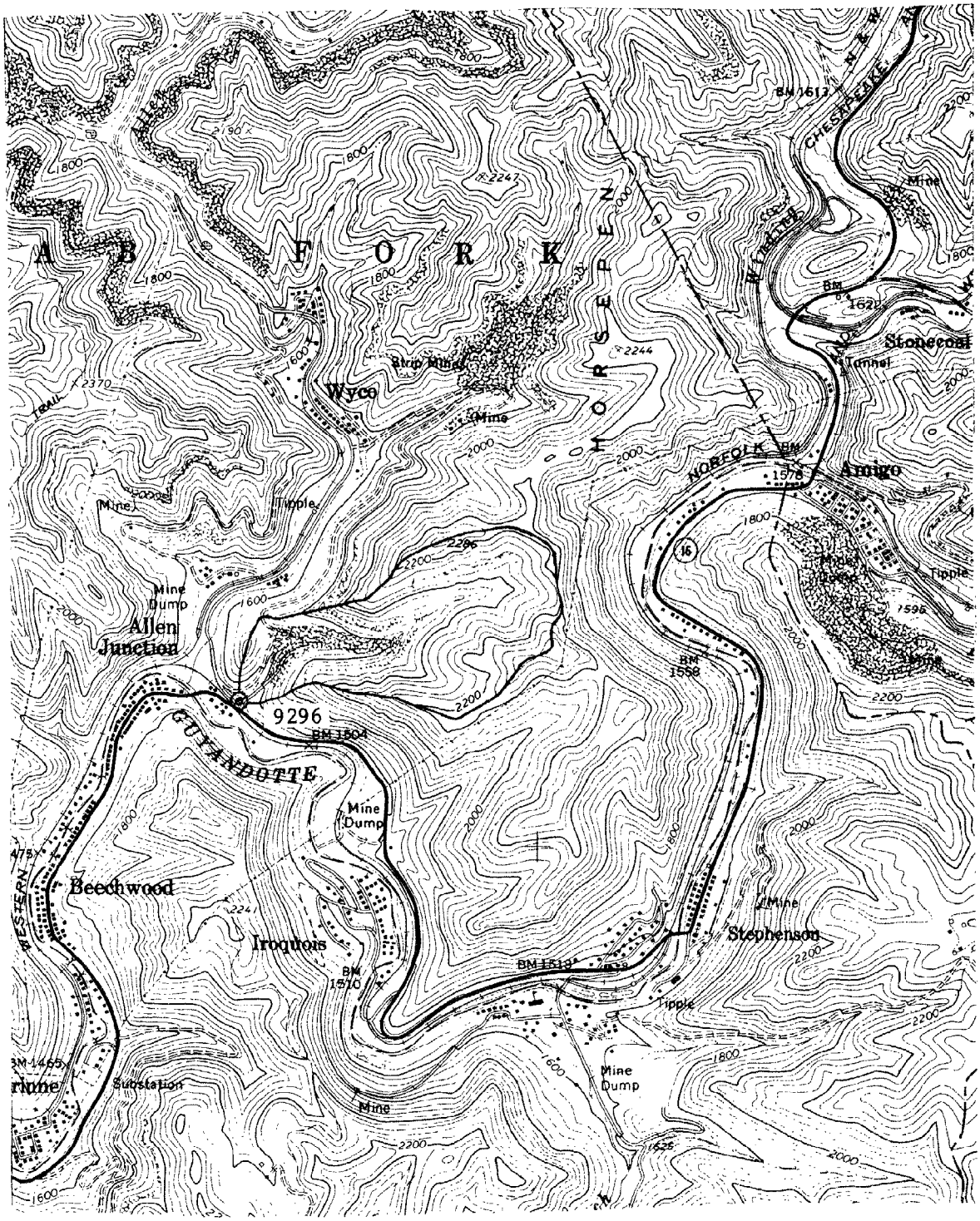

Figure 71. Location map for site 9296, Wyoming Co., West Virginia. Rhodell Quadrangle.

Table 1.--Descriptive data for the Maryland water quality sites

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed*	Site Name
4011	Allegany	Unmined	39°30'41"	78°56'31"	241	0	Tributary to North Branch Potomac River at Danville.
4012	Allegany	1940-1979**	39 31 14	79 00 33	306	40	Tributary to Georges Creek at Dogwood Flats.
4013	Allegany	Before 1972	39 37 30	78 57 58	1066	8	Staub Run at Carlos.
4021	Garrett	Unmined	39 35 39	79 10 48	477	0	Big Run near Fairview.
4022	Garrett	1975-1979	39 37 05	79 10 59	29	(25)	Tributary to South Branch Casselman River near Bittinger.
4023	Garrett	Before 1946	39 40 37	79 12 32	121	3	Tributary to Tarkiln Run near Casselman.
4024	Garrett	Unmined	39 35 09	79 10 28	892	0	Big Run near Fairview.
4025	Garrett	1975-1979	39 37 00	79 11 02	6	(50)	Tributary to South Branch Casselman River near Bittinger.
4028	Garrett	1970-1979	39 36 59	79 11 00	902	2	South Branch Casselman River near Bittinger.

*The percentage of land disturbed was generally not verified by field observations and so may be subject to considerable error. Percentages enclosed by parentheses are based on very scanty or questionable information and may be subject to large errors.

**Deep mines were on this watershed before 1880.

Table 2.--Descriptive data for the West Virginia water quality sites

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed[1/]	Site Name
9011	Barbour	Unmined	39°08'46"	80°06'16"	246	0	Tributary to Spaw Lick at Elk City.
9012	Barbour	1975-1979	38 08 25	80 09 50	369	(40)	Cranes Fork near Peeltree.
9013	Barbour	1955-1965	39 10 14	80 11 04	97	30	Tributary to Elk Creek near Overfield.
9016	Barbour	1955-1965	39 10 15	80 11 23	46	45	Tributary to Elk Creek at Overfield.
9022	Boone	1974-1976	38 03 54	81 34 52	169	(30)	Tributary to Coal River at Orgas.
9023	Boone	1965-1970	38 02 27	81 35 37	83	30	Tributary to Coal River near Keith.
9025	Boone	Before 1976	38 00 59	31 33 15	203	11	Pack Branch at Sylvester.
9031	Braxton	Unmined	38 49 15	80 43 12	100	0	Tributary to Copen Run near Copen.
9032	Braxton	1957-1979	38 51 29	80 43 38	484	10	Tributary to Bower Run at Bower.
9033	Braxton	1956	38 51 00	80 43 10	209	23	Carter Hollow at Bower.
9036	Braxton	Before 1965	38 51 31	80 43 17	64	16	Bower Run at Bower.
9041	Brooke	Unmined	40 14 52	80 33 22	166	0	Tributary to Pierce Run near McKinleyville.
9042	Brooke	1977	40 14 37	80 32 13	15	(75)	Tributary to Mingo Run near Independence.
9043	Brooke	Before 1967	40 17 18	80 32 33	48	25	Tributary to Potrock Run near Fowlerstown.

Table 2.--Descriptive data for the West Virginia water quality sites (Continued)

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed[1/]	Site Name
9050	Clay	Unmined	38°26'11"	80°53'31"	52	0	Tributary to Elm Creek near Enoch.
9051	Clay	Unmined	38 25 51	80 54 40	146	0	Tributary to Road Fork near Enoch.
9052	Clay	1971-1977	38 26 12	80 52 58	39	55	Tributary to Elm Creek near Enoch.
9053	Clay	1958-1960	38 27 16	80 53 30	341	2	Strickland Run near Widen.
9054	Clay	Unmined	38 26 22	80 54 36	2390	0	Road Fork near Enoch.
9056	Clay	1971-1976	38 26 12	80 53 25	48	3	Tributary to Elm Creek near Enoch.
9057	Clay	Unmined	38 27 24	80 53 58	308	0	Tributary to Buffalo Creek near Widen.
9061	Fayette	Unmined	38 05 33	81 16 07	143	0	Tributary to Big Righthand Fork near Robson.
9062	Fayette	1976-1978	38 04 55	81 16 09	122	(30)	Big Righthand Fork of Loop Creek near North Page.
9063	Fayette	1961-1965	38 03 16	81 16 39	321	30	Molly Kincaid Branch at Page.
9065	Fayette	After 1972	38 01 37	81 21 22	271	11	Unknown Branch at Mahan.
9066	Fayette	1960-1970	38 00 48	81 21 08	265	18	Tributary to Paint Creek at Mahan.
9069	Fayette	Before 1963	37 58 56	81 19 58	356	4	Skitter Creek near Milburn.
9071	Gilmer	Unmined	38 54 58	80 45 38	67	0	Tributary to Kanawha River at Sand Fork.

Table 2.--Descriptive data for the West Virginia water quality sites (Continued)

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed[1/]	Site Name
9072	Gilmer	1976-1978	39°01'00"	80°43'24"	29	(45)	Tributary to Happy Hollow at Linn.
9073	Gilmer	Before 1963	38 56 01	80 46 01	119	13	Tributary to Lynch Run at Truebada.
9076	Gilmer	Before 1960	38 56 02	80 46 04	69	28	Tributary to Lynch Run at Truebada.
9079	Gilmer	Before 1960	38 56 04	80 46 01	42	4	Tributary to Lynch Run at Truebada.
9081	Grant	Unmined	39 16 30	79 16 50	530	0	Tributary to Stony River near Mount Storm.
9082	Grant	1973-1977	39 15 17	79 16 22	71	(30)	Tributary to Stony River near Mount Storm.
9083	Grant	1969-1972	39 15 24	79 16 14	28	30	Tributary to Stony River near Mount Storm.
9090	Greenbrier	Before 1969[2/]	38 02 06	80 42 42	17	20	Tributary to Laurel Creek at Orient Hill.
9091	Greenbrier	Unmined	38 04 08	80 45 50	93	0	Tributary to Burdette Creek near Burdette.
9093	Greenbrier	Before 1969	38 02 05	80 42 43	392	4	Laurel Creek at Orient Hill.
9096	Greenbrier	Before 1969	38 04 37	80 36 06	352	14	Tributary to Big Clear Creek at Duo.
9101	Harrison	Unmined	39 11 39	80 30 25	93	0	Tributary to Isaacs Creek near Tichenal.
9102	Harrison	1955, 1976	39 11 24	80 28 23	329	15	Tributary to Isaacs Creek at Tichenal.
9103	Harrison	Before 1957	39 10 52	80 27 57	61	12	Tributary to Isaacs Creek near Tichenal.
9104	Harrison	Unmined	39 12 10	80 30 30	110	0	Tributary to Isaacs Creek near Tichenal.

Table 2.--Descriptive data for the West Virginia water quality sites (Continued)

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed[1/]	Site Name
9111	Kanawah	Unmined	38°18'10"	81°24'44"	256	0	Little Tenmile Fork of Campbells Creek near Blount.
9112	Kanawha	1977-1979	38 17 52	81 25 46	405	(20)	Tributary to Big Ninemile Fork near Blount.
9113	Kanawha	Before 1969	38 18 30	81 23 40	329	15	Tributary to Campbells Creek at Putney.
9116	Kanawha	After 1969	38 18 16	81 24 22	1035	13	Big Tenmile Fork near Putney.
9121	Lewis	Unmined	39 02 12	80 39 26	84	0	Tributary to Leading Creek at Alum Bridge.
9122	Lewis	1956-1975	39 03 14	80 36 15	152	39	Tributary to Leading Creek near Camden.
9123	Lewis	1956-1961	39 02 39	80 36 38	117	32	Tributary to Leading Creek near Camden.
9131	Logan	Unmined	37 45 05	82 04 59	81	0	Tributary to Right Fork Pine Creek at Pine Creek.
9132	Logan	1975-1979	37 45 22	82 06 13	157	(20)	Tributary to Tin Branch at Pine Creek.
9133	Logan	1970-1971	37 45 19	82 05 06	155	27	Tributary to Right Fork Pine Creek at Pine Creek.
9140	Marion	1975-1977	39 25 22	80 11 51	15	(80)	Tributary to Booths Creek at Eldora.
9141	Marion	Unmined	39 24 59	80 09 24	270	0	Tributary to Tygart Valley River near Whitehall.
9143	Marion	1954-1970	39 25 02	80 12 56	97	33	Tributary to Hog Lick Run at Eldora.
9146	Marion	1954-1970	39 25 01	80 12 56	98	34	Tributary to Hog Lick Run at Eldora.

Table 2.--Descriptive data for the West Virginia water quality sites (Continued)

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed[1]	Site Name
9151	McDowell	Unmined	37°24'52"	81°35'44"	51	0	Tributary to Little Indian Creek at Havoco.
9152	McDowell	1956-1978	37 23 48	81 27 43	442	27	Tributary to Coalbank Branch at Eckman.
9153	McDowell	1956-1968	37 23 42	81 25 24	263	27	Tributary to Elkhorn Creek at Upland.
9171	Mineral	Unmined	39 26 20	79 00 13	667	0	Thunderhill Run at Keyser.
9172	Mineral	1940-1979	39 27 42	79 05 03	164	(35)	Tributary to Piney Swamp Run at Hampshire.
9173	Mineral	1965-1969	39 28 13	79 02 18	582	17	Slaughterhouse Run at Piedmont.
9176	Mineral	1965-1970	39 27 49	79 01 35	1170	5	Powder House Run near Piedmont.
9181	Mingo	Unmined	37 47 18	82 08 45	160	0	Little Twin Branch at Scarlet.
9182	Mingo	Before 1976	37 47 09	82 08 07	199	22	Tributary to Trace Fork at Scarlet.
9183	Mingo	1970-1972	37 46 17	82 06 46	328	13	Left Fork of Right Fork of Trace Fork near Scarlet.
9184	Mingo	Unmined	37 46 13	82 07 03	117	0	Tributary to Left Fork of Right Fork near Scarlet.
9190	Monongalia	1978-1979[3]	39 35 27	80 04 33	93	(5)	Tributary to Little Indian Creek at Georgetown.
9191	Monongalia	Unmined	39 34 37	80 05 19	107	0	Tributary to Indian Creek at Fort Grand.
9192	Monongalia	1971-1978	39 35 50	80 04 10	113	70	Tributary to Little Indian Creek near Georgetown.

Table 2.--Descriptive data for the West Virginia water quality sites (Continued)

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed[1/]	Site Name
9194	Monongalia	Unmined[3/]	39°35'27"	80°04'33"	93	0	Tributary to Little Indian Creek at Georgetown.
9195	Monongalia	After 1972	39 35 28	80 02 49	137	(15)	Tributary to Flaggy Meadow Run at National.
9198	Monongalia	After 1967	39 35 29	80 02 47	714	45	Flaggy Meadow Run at National.
9201	Nicholas	Unmined	38 17 29	80 58 07	158	0	Tributary to Jones Branch near Zela.
9202	Nicholas	1960-1970[2/]	38 19 05	80 53 55	174	6	Tributary to Peters Creek at Enon.
9203	Nicholas	1960-1972	38 18 19	80 57 56	207	10	Tributary to Jones Branch near Gilboa.
9211	Preston	Unmined[4/]	39 33 52	79 39 48	84	0	Tributary to Glade Run near Valley Point.
9212	Preston	1955-1979	39 34 19	79 40 40	322	50	Conner Run near Valley Point.
9215	Preston	1973-1975[2/]	39 33 45	79 41 45	37	(35)	Tributary to Cheat River near Herring.
9218	Preston	1950, 1979[4/]	39 33 52	79 39 48	106	22	Tributary to Glade Run near Valley Point.
9220	Raleigh	Unmined	37 51 55	81 24 58	104	0	Tributary to Rock Creek near Rock Creek.
9221	Raleigh	Unmined	37 50 33	81 20 40	250	0	Dillon Branch near Dameron.
9222	Raleigh	1969-1974	37 52 04	81 20 58	337	34	Stover Fork near Dameron.
9223	Raleigh	Before 1963	37 51 58	81 24 41	773	2	Stockingleg Fork of Rock Creek near Rock Creek.

Table 2.--Descriptive data for the West Virginia water quality sites (Continued)

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed[1/]	Site Name
9224	Raleigh	Unmined	37°50'27"	81°20'31"	101	0	Tributary to Dillon Branch near Dameron.
9225	Raleigh	1969-1974	37 52 06	81 20 57	88	60	Tributary to Stover Fork near Dameron.
9227	Raleigh	Unmined	37 50 36	81 20 39	171	0	Dillon Branch near Dameron.
9230	Randolph	Before 1958[2/]	38 34 15	80 08 12	697	23	Hewett Fork of Elk River near Monterville.
9231	Randolph	Unmined	38 29 22	80 07 36	602	0	Tributary to Elk River near Monterville.
9233	Randolph	Before 1958	38 34 14	80 08 03	109	10	Tributary to Hewett Fork near Monterville.
9236	Randolph	Before 1973	38 29 05	80 06 44	1454	1	Falling Spring Run near Monterville.
9239	Randolph	Before 1973	38 32 14	80 07 20	312	7	Tributary to Valley Fork near Monterville.
9241	Taylor	Unmined	39 23 26	79 54 39	294	0	Tributary to Three Fork Creek at Irontown.
9243	Taylor	1955-1965	39 14 53	80 06 09	220	25	Tributary to Gabe Fork near Galloway.
9244	Taylor	Unmined	39 23 30	79 54 14	366	0	Tributary to Three Fork Creek at Hardman.
9246	Taylor	Before 1957[2/]	39 15 00	80 06 39	24	11	Tributary to Gabe Fork near Galloway.
9249	Taylor	Before 1957	39 15 00	80 06 38	249	15	Gabe Fork near Galloway.
9251	Tucker	Unmined	39 10 36	79 21 54	301	0	Tributary to Beaver Creek near Davis.

Table 2.--Descriptive data for the West Virginia water quality sites (Continued)

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed[1/]	Site Name
9252	Tucker	1950-1979	39°10'50"	79°31'22"	321	16	Tributary to Sand Run at Forty-Three.
9253	Tucker	1960-1965	39 11 54	79 30 48	171	4	Glade Run at Forty-Three.
9261	Upshur	Unmined	39 04 24	80 12 40	55	0	Tributary to Pecks Run near Hodgesville.
9262	Upshur	1977-1979	39 03 02	80 12 15	57	(35)	Sugar Run near Hodgesville.
9263	Upshur	About 1957	39 04 21	80 10 18	32	24	Tributary to Pecks Run near Teter.
9271	Wayne	Unmined	38 09 45	82 29 24	41	0	Schoolhouse Branch of Greenbriar Creek near Echo.
9274	Wayne	Unmined	38 04 01	82 26 00	120	0	Tributary to West Fork Twelvepole Creek at Ferguson.
9277	Wayne	Unmined	38 04 15	82 26 10	46	0	Tributary to West Fork Twelvepole Creek at Ferguson.
9281	Webster	Unmined	38 26 42	80 32 19	185	0	Spice Run at Halo.
9282	Webster	1977-1979[5/]	38 26 34	80 30 41	350	(15)	Tributary to Given Run near Arcola.
9283	Webster	1962-1972	38 24 58	80 31 29	45	15	Tributary to Price Glade Run at Glade View.
9284	Webster	Unmined[5/]	38 26 34	80 30 42	350	0	Tributary to Given Run near Arcola.
9290	Wyoming	Deep Mine[2/]	37 46 17	81 32 42	133	0	Tributary to Toney Fork near Kopperston.
9291	Wyoming	Unmined	37 46 52	81 31 54	175	0	Toney Fork near Kopperston.

Table 2.--Descriptive data for the West Virginia water quality sites (Continued)

Site Number	County	Approximate Date of Surf. Min.	Latitude	Longitude	Acres	Percent Disturbed[1]	Site Name
9292	Wyoming	1975-1976	37°42'40"	81°42'02"	178	2	Tributary to Paynter Branch near Campus.
9293	Wyoming	1965-1972	37 44 09	81 41 59	288	30	Sugarcamp Branch at Cyclone.
9294	Wyoming	Unmined	37 46 14	81 32 31	43	0	Tributary to Toney Fork near Kopperston.
9296	Wyoming	Before 1972	37 35 19	81 20 49	153	18	Tributary to Guyandotte River at Allen Junction.
9297	Wyoming	Unmined	37 46 11	81 32 29	70	0	Tributary to Toney Fork near Kopperston.

[1] The percentage of land disturbed was generally not verified by field observations and so may be subject to considerable error. Percentages enclosed by parentheses are based on very scanty or questionable information and may be subject to large errors.

[2] A large portion of the stream flow is drainage from an underground mine.

[3] Sites 9190 and 9194 are identical except that 9194 is before mining and 9190 is after surface mining had started.

[4] Sites 9211 and 9218 are sampled at the same spot. Site 9218 includes all of watershed 9211 plus additional drainage from an old mine site which was channeled into the area early in 1979.

[5] Sites 9282 and 9284 are identical except that 9284 is before mining and 9282 is after surface mining had started.

Table 3.--Types of water samples collected at each site, volume of sample, treatment of sample, and inclusive dates of collection

Sample Designation	Volume of Sample (ml)	Treatment/Inclusive Dates of Collection
F	100	Filtered (June 9, 1977 to November 9, 1979)
FA	100	Filtered, acidified with 0.5 ml 50% nitric acid (June 9, 1977 to November 9, 1979)
FN	50	Filtered, acidified with 0.25 ml 50% sulfuric acid (June 23, 1979 to September 5, 1979)
FP	50	Filtered, preserved with 0.25 ml 0.5% mercuric chloride (June 23, 1979 to September 5, 1979)
RJ	100	Unfiltered, acidified with 0.5 ml 50% sulfuric acid (June 23, 1979 to September 5, 1979)
SA	100	Unfiltered, acidified with 0.5 ml 50% nitric acid (Collected June 9, 1977 to about June 1978)
SV	1000	Unfiltered, untreated, raw water (Collected April 13, 1979 to August 9, 1979)
U	100	Unfiltered, untreated, raw water (Collected June 9, 1977 to November 9, 1979)

Table 4.--Tabulation of elements analyzed on the Spectraspan III Emission Spectrometer

Element	Approximate detection limit Mg/l	Approximate deviation from the mean
Aluminum	0.2	± 10%
Barium*	0.5	
Beryllium*	0.01	± 0.01 mg/l
Boron	0.05	± 10%
Calcium	0.05	± 10%
Cobalt	0.1	± 20%
Copper	0.02	± 20%
Iron	0.05	± 10%
Lead	0.1	
Lithium*	0.05	± 25%
Magnesium	0.05	± 10%
Manganese	0.05	± 20%
Molybdenum*	0.25	
Nickel	0.03	± 10%
Potassium	0.1	± 10%
Silicon	0.1	± 20%
Sodium	0.05	± 10%
Strontium*	0.03	± 20%
Titanium	0.5	
Zinc	0.3	± 10%

*Analyzed about every third month

TABLE 5. WATER QUALITY FOR SITE 4011 ALLEGANY COUNTY, MARYLAND

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 5 77	14	0.005			4	95	64	2.67	7.3		25	31	0	1.3	16	0.3					
12 1 77	7	0.9	109*		25	80	55	1.53	6.4		5	6	0	1.1	20	1.6					
12 29 77	0	0.2	2		0	64	48	1.37	6.7		3	4	0	1.3	16	2.0					
2 9 78	1	0.15			0	74	47	1.49	6.9		5	6	0	1.2	17	1.0					
3 7 78	2	0.2			4	73	48	1.57	7.0		7	8	0	1.2	17	0.9					
4 7 78		0.4	7		4	67	43	1.65	7.2		4	5	0	1.2	16	0.9					
5 3 78	11	0.15	45*		7	68	49	1.27	6.9		6	7	0	1.4	20	0.8					
6 1 78	16	0.07			7	67	47	1.62	6.5		7	9	0	1.1	16	0.9					
6 28 78	18	0.2	43*		40	67	52	1.93	7.3		20	24	0	1.2	16	0.3					
7 26 78	18	0.15	74*		20	70	50	2.50	7.3		16	19	0	1.5	13	0.1					
9 7 78	21	0.2	28*		30	75	53	2.02	7.4		20	24	0	1.3	16	0.1					
10 19 78	13	0.0003	45*		15	86	50	2.72	7.3	-18	20	25	0	1.3	12	0.1					
11 29 78	10	0.03	9		7	78	54	1.46	7.1	-7	11	13	0	1.6	20	0.8					
1 10 79	2	0.15	6		3	67	49	1.37	6.5	0	3	4	0	1.7	18	1.5					
2 7 79	0	0.06	29		1	79	47	1.29	6.5		5	6	0	1.3	17	1.4					
3 8 79	6	0.6	17		4	63	44	1.31	6.4	0	4	5	0	0.8	17	1.2					
4 13 79	9	0.15	10	0.00	2	68	47	1.20	6.7		4	5	0	1.2	20	0.9					
6 1 79	13	0.1	14		15	67	50	1.42	6.6	-2	7	8	0	1.0	20	0.7					
7 6 79	14	0.08	46*		15	72	50	1.74	7.0	-4	11	14	0	0.4	19	0.2	0.2	0.00	0.75	0.10	0.01
10 25 79	9	0.04	1		10	69	51	1.65	7.1	0	10	12	0	1.1	19	0.3					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 5 77	0.0	0.02	0.0	0.00	6.8	0.0	0.00	0.0	1.6	0.04	4.2	0.2	0.0	5.1	0.00	0.0	5.4	0.0	0.0	0.0
12 1 77	0.1	0.00			5.9	0.0	0.00	0.1	2.0		3.8	0.0		2.6	0.02	0.0	4.2		0.2	0.0
12 29 77	0.0	0.00	0.1	0.00	4.8	0.0	0.00	0.0	1.2	0.09	3.2	0.0	0.0	1.9	0.00	0.0	4.0	0.0	0.0	0.0
2 9 78	0.0	0.03			5.1	0.0	0.00	0.1	1.2		3.0	0.0		2.4	0.00	0.0	4.2		0.1	0.0
3 7 78	0.0	0.00			4.8	0.0	0.00	0.1	1.2		3.3	0.0		2.4	0.00	0.0	4.7		0.0	0.0
4 7 78	0.1	0.00	0.0	0.00	4.8	0.0	0.00	0.1	1.7	0.03	3.1	0.0	0.0	2.2	0.00	0.0	3.7	0.0	0.0	0.0
5 3 78	0.0	0.00			4.8	0.0	0.00	0.0	1.7		3.0	0.0		2.3	0.01	0.0	4.2		0.0	0.0
6 1 78	0.0	0.01			4.7	0.0	0.00	0.0	1.9		3.0	0.0		2.3	0.01	0.0	4.5		0.0	0.0
6 28 78	0.0	0.01			5.5	0.0	0.00	0.0	1.9		3.1	0.0		2.4	0.00	0.0	4.5		0.0	0.0
7 26 78	0.0	0.01	0.0	0.00	6.2	0.0	0.00	0.1	2.0	0.04	3.1	0.0	0.0	2.7	0.01	0.0	5.1	0.0	0.0	0.0
9 7 78	0.0	0.01			5.6	0.0	0.00	0.1	1.8		3.0	0.0		2.8	0.01	0.1	4.7		0.1	0.0
10 19 78	0.0	0.00	0.0	0.01	6.0	0.0	0.00	0.0	1.5	0.06	3.0	0.0	0.0	3.4	0.00	0.0	4.5	0.0	0.0	0.0
11 29 78	0.0	0.00			5.7	0.0	0.00	0.1	1.7		3.1	0.0		3.3	0.00	0.0	3.8		0.0	0.0
1 10 79	0.0	0.00	0.0	0.00	5.6	0.0	0.00	0.0	1.4	0.09	3.1	0.0	0.0	2.1	0.00	0.0	3.9	0.0	0.0	0.0
2 7 79	0.0	0.00			5.2	0.0	0.00	0.0	1.4		2.7	0.0		2.0	0.01	0.0	3.7		0.0	0.0
3 8 79	0.0	0.01	0.0	0.00	5.0	0.0	0.00	0.0	1.4	0.15	2.8	0.0	0.0	1.4	0.01	0.0	3.4	0.0	0.0	0.0
4 13 79	0.0	0.00			5.1	0.0	0.00	0.0	1.6		2.7	0.0		2.0	0.02	0.0	3.6		0.1	0.0
6 1 79	0.0	0.00			5.5	0.0	0.02	0.0	1.8		3.0	0.0		2.0	0.00	0.0	4.5		0.0	0.0
7 6 79	0.1	0.00	0.0	0.00	5.7	0.0	0.01	0.1	1.7	0.03	3.3	0.1	0.0	2.4	0.01	0.0	4.7	0.0	0.0	0.0
10 25 79	0.0	0.01			5.8	0.0	0.01	0.0	1.8		3.3	0.0		2.5	0.01	0.0	4.8		0.0	0.0

TABLE 6. WATER QUALITY FOR SITE 4012 ALLEGANY COUNTY, MARYLAND

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 5 77	11	0.09			50	2620	2340	0.84	3.6		0	0	0	0.5	1700	0.2					
12 1 77	6	0.25	215*		210	2050	1630	0.91	3.1		0	0	0	2.1	1100	1.2					
12 29 77	2	0.25	63		0	2860	1920	0.83	2.4		0	0	0	1.0	1400	0.5					
2 8 78	4	0.4			4	2680	2170	0.83	2.9		0	0	0	0.7	1600	0.3					
3 7 78	3	0.5			15	2470	2020	0.89	2.8		0	0	0	0.5	1400	0.1					
4 7 78	12	0.3	5		0	2580	1970	0.74	2.8		0	0	0	1.6	1400	0.6					
5 3 78	15	0.25	12		0	2700	1750	0.96	2.8		0	0	0	1.1	1200	0.2					
6 1 78	18	0.5			20	2660	2120	0.67	2.8		0	0	0	0.8	1600	0.3					
6 28 78	20	0.7	303*		390	2330	1810	0.72	3.0		0	0	0	1.4	1400	0.2					
7 26 78	18	0.3	52*		7	3010	2250	0.78	2.8		0	0	0	0.6	1700	0.2					
9 7 78	20	0.25	58*		15	2930	2460	0.70	2.9		0	0	0	0.5	1900	0.1					
10 18 78	13	0.15	39*		4	3000	2390	0.89	3.0	370	0	0	0	0.5	1700	0.0					
11 30 78	9	0.2	31		10	2400	1820	0.92	3.0	230	0	0	0	1.7	1300	0.5					
1 10 79	2	0.2	16		1	2270	1690	0.93	3.0	250	0	0	0	0.7	1200	0.3					
2 7 79	2	0.25	29		7	2860	2450	1.01	3.0	300	0	0	0	0.5	1700	0.2					
3 8 79	8	0.7	130			1910	1600	0.70	3.0	210	0	0	0	1.3	1200	1.2					
4 13 79	9	0.5	49	0.00	1	1930	1650	0.76	2.9		0	0	0	0.8	1200	0.5					
5 31 79	15	0.1	14		7	2300	1620	0.82	2.9	240	0	0	0	0.7	1200	0.3					
7 5 79	14	0.15	63*		9	2750	1980	0.67	2.9	190	0	0	0	0.8	1500	0.1	0.0	0.46	1.95	0.25	0.03
10 25 79	9	0.3	34		5	2510	1990	0.75	3.0	230	0	0	0	0.9	1500	0.3					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 5 77	26	0.02	0.0	0.01	310	1.4	0.07	5.2	3.6	1.0	170	49	0.1	3.4	1.3	0.1	28	0.5	0.2	0.4
12 1 77	20	0.01			210	2.1	0.06	36	4.5		140	35		3.6	1.3	0.2	12		0.5	2.5
12 29 77	28	0.01	0.0	0.02	220	0.9	0.00	51	2.9	2.0	150	41	0.1	2.8	1.7	0.1	16	0.5	0.7	4.2
2 8 78	26	0.03			250	1.2	0.09	56	3.1		180	41		3.1	1.8	0.1	15		0.4	3.8
3 7 78	28	0.03			260	1.1	0.06	43	3.2		160	42		3.1	1.7	0.1	14		0.3	3.7
4 7 78	25	0.01	0.0	0.02	200	0.8	0.13	61	2.7	0.95	150	48	0.0	3.8	1.7	0.1	13	0.3	0.2	4.2
5 3 78	23	0.02			220	1.2	0.08	39	3.3		160	35		3.6	1.8	0.1	15		0.4	3.5
6 1 78	24	0.02			200	1.3	0.10	49	3.7		150	34		4.0	2.1	0.1	16		0.4	3.6
6 28 78	20	0.01			200	1.0	0.09	12	3.9		120	33		2.8	1.5	0.4	15		0.4	2.6
7 26 78	22	0.03	0.0	0.02	250	1.2	0.08	47	4.2	0.90	170	41	0.1	3.6	2.2	0.4	20	0.3	0.4	4.0
9 7 78	19	0.02			270	1.2	0.07	43	4.1		160	40		4.4	3.5	0.4	18		0.5	5.9
10 18 78	27	0.02			340	1.6	0.08	18	4.3		180	49		4.4	2.1	0.4	19		0.6	3.1
11 30 78	21	0.01			280	1.0	0.05	10	3.5		130	37		3.4	1.4	0.4	12		0.5	2.1
1 10 79	14	0.00	0.0	0.01	240	0.7	0.04	30	2.8	1.0	140	32	0.0	2.5	1.4	0.3	13	0.2	0.5	2.6
2 7 79	20	0.02			370	1.0	0.05	37	3.0		220	42		3.0	1.8	0.6	13		2.0	3.5
3 8 79	13	0.02			160	0.7	0.07	42	3.7		110	26		2.8	1.5	0.3	13		0.4	2.4
4 13 79	13	0.01			200	0.6	0.04	25	2.7		110	24		3.0	1.1	0.2	12		0.6	2.2
5 31 79	13	0.02			200	0.7	0.08	23	3.3		120	28		3.2	1.2	0.2	14		0.3	2.1
7 5 79	10	0.03	0.0	0.01	210	0.7	0.04	18	2.7	2.0	130	32	0.0	2.3	1.2	0.2	14	0.5	0.5	2.1
10 25 79	14	0.02			220	0.9	0.04	32	3.4		150	33		3.2	1.4	0.2	16		0.6	2.7

TABLE 7. WATER QUALITY FOR SITE 4013 ALLEGANY COUNTY, MARYLAND

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 5 77	9	0.25			4	69	39	2.48	7.1		16	19	0	1.0	12	0.1					
12 1 77	6	0.9	93*		8	39	28	1.44	6.4		3	4	0	0.9	10	0.5					
12 29 77	1	1.5	1		0	29	23	1.63	6.2		3	4	0	1.1	7	0.6					
2 8 78	1	0.6			0	38	29	1.47	6.8		5	6	0	1.0	10	0.5					
3 7 78	1	0.7			8	43	31	1.79	7.1		8	10	0	1.0	9	0.5					
4 7 78	10	0.7	7		3	31	23	1.60	7.1		2	2	0	0.9	8	0.6					
5 3 78	13	0.25	30*		4	33	26	1.42	6.7		4	5	0	1.1	9	0.5					
6 1 78	16	0.8			5	33	24	1.55	6.4		4	5	0	0.8	6	1.0					
6 28 78	18	0.9	53*		35	36	26	1.55	6.7		6	7	0	1.1	9	0.3					
7 26 78	19	0.6			15	39	28	1.75	6.8		7	8	0	1.2	9	0.2					
9 6 78	18	0.4	49*		15	38	27	1.30	6.9		7	8	0	1.0	10	0.3					
10 18 78	12	0.07			6	50	31	2.35	7.2	-10	13	16	0	1.1	8	0.1					
11 30 78	8	0.25	9		1	45	55	1.08	6.7		6	7	0	1.2	30	0.2					
1 10 79	2	0.7	44		1	32	30	1.17	6.7	2	2	3	0	0.7	12	0.6					
2 7 79	0	0.2	24		0	36	23	1.90	6.8		4	5	0	0.8	7	0.5					
3 8 79	6	2.0	14		4	32	24	1.08	6.5	3	2	3	0	0.6	9	0.7					
4 13 79	8	1.0	10	0.00	1	33	23	1.34	6.3		2	3	0	0.9	8	0.5					
5 31 79	15	0.2	9		0	32	24	2.20	6.2	4	8	10	0	0.8	5	0.5					
7 5 79	13	0.15	25*		7	38	27	1.61	7.0	-2	6	7	0	0.5	9	0.2	0.2	0.01	0.35	0.20	0.01
10 25 79	8	1.5	0		8	33	26	1.27	6.7	0	5	6	0	0.9	10	0.3					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 5 77	0.0	0.01	0.0	0.00	6.9	0.0	0.00	0.0	0.7	0.03	2.9	0.0	0.0	0.7	0.00	0.0	2.5	0.0	0.0	0.0
12 1 77	0.1	0.00			3.4	0.0	0.00	0.1	0.9		1.8	0.0		0.8	0.02	0.0	2.2		0.2	0.0
12 29 77	0.0	0.00	0.0	0.00	2.9	0.0	0.00	0.0	0.6	0.10	1.5	0.0	0.0	0.7	0.01	0.0	2.0	0.0	0.0	0.0
2 8 78	0.1	0.01			3.9	0.0	0.00	0.2	0.5		1.7	0.1		0.9	0.00	0.0	2.1		0.1	0.0
3 7 78	0.0	0.00			4.1	0.0	0.00	0.1	0.6		1.9	0.1		0.8	0.00	0.0	2.5		0.0	0.1
4 7 78	0.1	0.00	0.0	0.00	2.8	0.0	0.00	0.1	0.9	0.03	1.6	0.1	0.0	1.1	0.01	0.0	1.8	0.0	0.0	0.0
5 3 78	0.0	0.00			3.2	0.0	0.00	0.0	0.8		1.5	0.0		0.6	0.01	0.0	2.2		0.0	0.0
6 1 78	0.1	0.00			2.8	0.0	0.00	0.0	0.7		1.4	0.0		0.6	0.01	0.0	2.0		0.0	0.0
6 28 78	0.0	0.00			3.8	0.0	0.00	0.0	0.6		1.5	0.0		0.5	0.00	0.0	2.1		0.0	0.0
7 26 78	0.0	0.00	0.0	0.00	4.6	0.0	0.00	0.0	0.6	0.01	1.5	0.0	0.0	0.5	0.01	0.0	2.6	0.0	0.0	0.0
9 6 78	0.0	0.01			3.5	0.0	0.00	0.1	0.4		1.2	0.0		0.5	0.01	0.1	2.3		0.1	0.0
10 18 78	0.0	0.00	0.0	0.02	5.4	0.0	0.00	0.0	0.6	0.05	1.6	0.0	0.0	0.6	0.00	0.0	2.2	0.0	0.0	0.0
11 30 78	0.4	0.00			8.2	0.0	0.01	0.1	0.7		3.3	0.6		0.7	0.02	0.0	2.3		0.0	0.0
1 10 79	0.1	0.00	0.0	0.00	3.6	0.0	0.01	0.0	0.9	0.03	1.5	0.0	0.0	0.9	0.03	0.0	2.4	0.0	0.0	0.0
2 7 79	0.0	0.00			3.6	0.0	0.00	0.0	0.7		1.3	0.0		0.6	0.00	0.0	2.0		0.0	0.0
3 8 79	0.1	0.00	0.0	0.00	2.9	0.0	0.00	0.0	0.7	0.09	1.1	0.0	0.0	0.5	0.01	0.0	1.9	0.0	0.0	0.0
4 13 79	0.0	0.00			3.2	0.0	0.00	0.0	0.6		1.2	0.0		0.5	0.00	0.0	1.9		0.0	0.0
5 31 79	0.0	0.01			3.5	0.0	0.00	0.0	0.6		1.2	0.0		0.5	0.00	0.0	2.4		0.0	0.0
7 5 79	0.0	0.01	0.0	0.00	4.0	0.0	0.00	0.1	0.8	0.04	1.1	0.0	0.0	0.6	0.02	0.0	2.6	0.0	0.0	0.1
10 25 79	0.0	0.01			3.3	0.0	0.01	0.0	0.7		1.3	0.0		0.5	0.02	0.0	2.4		0.1	0.0

TABLE 8. WATER QUALITY FOR SITE 4021 GARRETT COUNTY, MARYLAND

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
11 30 77	5	0.4	30*		4	44	30	1.56	6.6		6	7	0	1.1	11	0.2					
12 29 77	1	0.4	0		2	40	22	1.05	6.0		1	1	0	0.9	10	0.2					
2 8 78	1	0.9			0	36	23	1.46	6.6		3	4	0	0.9	9	0.2					
3 7 78	1	0.08			2	82	53	3.06	7.7		25	31	0	0.8	13	0.1					
4 7 78	9	0.5	5		0	34	24	1.21	6.0		2	3	0	0.9	10	0.3					
5 5 78	10	0.3	13		5	33	23	1.54	6.7		5	6	0	1.1	8	0.1					
6 1 78	14	1.0			3	32	23	1.25	6.1		2	3	0	1.0	9	0.3					
6 28 78	15	0.7	37*		20	39	28	1.79	6.7		9	11	0	1.5	9	0.1					
7 26 78	16	0.5	64*		15	41	28	3.17	7.0		11	13	0	1.2	6	0.1					
9 6 78	18	0.15	43*		15	58	41	2.07	7.3		19	23	0	0.8	12	0.1					
10 18 78	10	0.02	21*		6	62	39	2.70	7.2	-16	17	21	0	1.2	10	0.0					
11 30 78	9	0.3	13		5	44	30	1.31	6.8		6	7	0	1.6	12	0.1					
1 10 79	3	0.6	8		2	29	30	0.99	5.8	1	1	1	0	1.0	14	0.3					
2 7 79	2	0.06	61		20	69	44	2.94	7.5	-20	18	22	0	0.6	12	0.1					
3 8 79	5	0.7	13		3	33	24	1.02	5.9	2	1	1	0	0.6	11	0.4					
4 13 79	7	0.4	4	0.00	1	31	22	1.31	6.4		2	2	0	1.0	9	0.2					
5 31 79	11	0.2	44		0	33	25	1.31	6.3	0	5	6	0	0.8	9	0.2					
7 5 79	14	0.2	32*		10	46	30	2.14	7.0	-5	8	10	0	0.5	9	0.1	0.1	0.01	0.00	0.05	0.01
10 25 79	7	0.8	0		5	29	21	1.27	6.7		4	5	0	0.9	10	0.0					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
11 30 77	0.0	0.00			4.1	0.1	0.00	0.1	1.1		1.5	0.0		1.0	0.03	0.1	2.4		0.3	0.0
12 29 77	0.0	0.00	0.0	0.00	2.5	0.0	0.00	0.0	0.7	0.15	1.1	0.0	0.0	0.6	0.01	0.0	2.0	0.0	0.0	0.1
2 8 78	0.0	0.02			2.8	0.0	0.00	0.1	0.8		1.3	0.0		1.1	0.00	0.0	2.0		0.0	0.0
3 7 78	0.0	0.03			8.7	0.0	0.00	0.1	0.9		2.8	0.0		3.4	0.01	0.0	3.5		0.0	0.0
4 7 78	0.1	0.00	0.0	0.00	3.0	0.0	0.00	0.1	0.8	0.03	1.3	0.1	0.0	0.8	0.01	0.0	1.5	0.0	0.0	0.0
5 5 78	0.0	0.00			3.0	0.0	0.00	0.1	0.8		1.1	0.0		0.9	0.01	0.0	2.0		0.0	0.0
6 1 78	0.1	0.00			2.9	0.0	0.00	0.1	0.9		1.1	0.0		0.8	0.01	0.0	1.8		0.0	0.0
6 28 78	0.1	0.00			4.5	0.0	0.01	0.0	0.9		1.3	0.0		0.7	0.00	0.1	1.9		0.0	0.0
7 26 78	0.0	0.00	0.0	0.00	5.2	0.0	0.01	0.1	0.9	0.02	1.1	0.0	0.0	0.9	0.02	0.0	2.7	0.0	0.0	0.0
9 6 78	0.0	0.01			7.9	0.0	0.00	0.1	0.8		1.2	0.0		0.9	0.01	0.0	2.6		0.0	0.0
10 18 78	0.0	0.00	0.0	0.01	7.8	0.0	0.00	0.0	1.0	0.07	1.3	0.0	0.0	1.4	0.00	0.0	2.7	0.0	0.0	0.0
11 30 78	0.0	0.00			4.8	0.0	0.00	0.0	0.9		1.1	0.0		0.8	0.00	0.0	2.4		0.0	0.0
1 10 79	0.1	0.00	0.0	0.00	2.5	0.0	0.00	0.1	1.3	0.04	1.9	0.0	0.0	0.8	0.01	0.0	2.7	0.0	0.0	0.0
2 7 79	0.0	0.00			8.9	0.0	0.01	0.0	1.0		1.9	0.0		2.8	0.01	0.0	2.8		0.0	0.0
3 8 79	0.1	0.00	0.0	0.00	3.3	0.0	0.00	0.0	0.7	0.10	1.0	0.0	0.0	0.6	0.00	0.0	1.7	0.0	0.0	0.0
4 13 79	0.0	0.00	0.0	0.01	3.1	0.0	0.01	0.0	0.8	0.25	0.9	0.0	0.0	0.7	0.02	0.0	2.0	0.0	0.1	0.0
5 31 79	0.0	0.00			3.3	0.0	0.01	0.0	0.7		0.9	0.0		0.7	0.00	0.0	2.3		0.0	0.0
7 5 79	0.0	0.00	0.0	0.00	5.3	0.0	0.00	0.0	0.9	0.05	1.4	0.0	0.0	0.8	0.01	0.0	2.6	0.0	0.0	0.0
10 25 79	0.0	0.01			3.2	0.0	0.02	0.0	0.9		0.9	0.0		0.7	0.02	0.0	1.0		0.1	0.0

TABLE 9. WATER QUALITY FOR SITE 4022 GARRETT COUNTY, MARYLAND

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 5 77	14	0.015			45	90	44	2.71	6.5		16	20	0	1.8	12	0.1					
6 28 78	21	0.03	51*		45	104	61	2.26	7.5		28	34	0	1.6	19	0.1					
7 26 78	25	0.01	68*		40	111	65	6.90	7.7		48	58	0	1.3	7	0.0					
1 10 79	3	0.002	9		30	92	59	1.66	7.2	4	11	13	0	2.5	24	0.5					
3 8 79	6	0.07	1950		1500	118	74	1.18	6.3	3	3	4	0	0.7	44	0.4					
4 13 79	7	0.04	10	0.06	10	123	74	1.40	7.1		13	16	0	2.2	36	0.2					
10 25 79	9	0.003	43		160	189	104	1.46	7.8		40	49	0	2.4	40	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 5 77	0.0	0.06	0.0	0.00	8.0	0.0	0.00	0.9	1.1	0.04	2.1	1.0	0.0	2.5	0.00	0.0	2.3	0.0	0.0	0.0
6 28 78	0.1	0.04			11	0.0	0.01	0.5	1.0		2.9	1.6		2.2	0.00	0.1	1.6		0.1	0.1
7 26 78	0.0	0.02	0.0	0.00	14	0.0	0.01	0.7	1.1	0.04	3.4	1.9	0.0	1.6	0.02	0.1	2.2	0.0	0.0	0.3
1 10 79	0.1	0.01	0.0	0.00	12	0.0	0.00	0.4	1.3	0.15	2.8	0.3	0.0	2.3	0.01	0.0	2.1	0.0	0.0	0.1
3 8 79	0.2	0.00			15	0.0	0.00	0.2	1.3		3.6	0.4		1.0	0.02	0.0	1.2		0.0	0.0
4 13 79	0.1	0.02	0.0	0.01	15	0.0	0.00	0.6	1.3	0.30	3.4	0.6	0.0	1.8	0.01	0.0	1.4	0.0	0.0	0.1
10 25 79	0.1	0.03			17	0.2		5.6	2.0		4.0	3.5		1.7	0.09	0.1	1.6		0.1	0.2

TABLE 10. WATER QUALITY FOR SITE 4023 GARRETT COUNTY, MARYLAND

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
10 5 77	12	1.5			4	231	107	0.76	4.6			0	0	0	48	14	0.7				
11 30 77	16	0.4	80*		4	436	273		4.4			0	0	0	160	9	0.9				
12 29 77	3	0.6	4		4	371	190		4.3			0	0	0	110	11	0.7				
2 8 78	2	1.0			3	453	225	0.04	4.5			0	0	0	120	10	0.8				
3 7 78	2	0.3			6	443	211	0.53	4.6			0	0	0	120	10	0.2				
4 7 78	8	0.2	5		3	392	183	2.56	4.4			0	0	0	92	11	0.6				
5 3 78	9	0.2	11		0	377	191	1.59	4.5			0	0	0	97	14	0.8				
6 1 78	14	0.4			0	278	155	1.26	4.3			0	0	0	64	11	4.7				
6 28 78	16	0.4	26*		8	300	167		4.4			0	0	0	89	17	0.5				
7 26 78	16	0.2	46*		0	285	143	1.81	4.3			0	0	0	69	11	0.7				
9 6 78	18	0.3	12		10	260	121	1.50	4.5			0	0	0	55	14	0.5				
10 18 78	12	0.15	35*		4	308	151	3.26	4.5	12		0	0	0	70	10	0.7				
11 30 78	10	0.3	3		0	338	200		4.4	14		0	0	0	110	10	1.4				
1 10 79	4	0.15	33		1	475	234		4.2			0	0	0	140	14	0.8				
2 7 79	2	0.15	4		0	457	204	2.24	4.3	15		0	0	0	110	11	0.5				
3 8 79	5	0.4	1		2	422	209	2.10	4.3	17		0	0	0	110	14	0.3				
4 13 79	7	0.2	8	0.00	0	346	165	1.94	4.4			0	0	0	82	13	0.4				
5 31 79	11	0.2	1		2	271	165	0.44	4.5	12		0	0	0	64	45	0.3				
7 5 79	14	0.2	24*		3	371	195		4.4	6		0	0	0	100	24	0.4	0.2	0.01	0.70	0.20 0.01
10 25 79	9	0.15	0		5	236	205		4.4	12		0	0	0	120	12	0.3				

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
10 5 77	1.4	0.00	0.2	0.00	5.9	0.0	0.00	0.0	1.3	0.04	2.9	0.6	0.0	25	0.02	0.0	2.0	0.1	0.0	0.0
11 30 77	2.6	0.00			9.5	0.0	0.00	0.0	1.8		3.0	0.4		83	0.02	0.0	1.8		0.2	0.0
12 29 77	2.5	0.00	0.3	0.00	7.0	0.0	0.00	0.1	1.5	0.03	3.0	0.4	0.0	49	0.02	0.0	1.8	0.1	0.0	0.1
2 8 78	2.4	0.02			9.1	0.0	0.00	0.0	1.6		3.7	0.5		64	0.01	0.0	2.1		0.0	0.1
3 7 78	2.4	0.02			8.7	0.0	0.00	0.1	1.9		3.9	0.7		60	0.03	0.0	1.9		0.0	0.1
4 7 78	1.7	0.01	0.2	0.00	7.6	0.0	0.00	0.2	1.8	0.06	2.8	0.7	0.0	59	0.04	0.1	1.4	0.0	0.1	0.1
5 3 78	2.0	0.01			8.4	0.0	0.01	0.1	1.9		3.7	0.5		57	0.03	0.0	1.8		0.0	0.1
6 1 78	1.5	0.00			5.8	0.0	0.01	0.0	1.8		3.1	0.4		43	0.04	0.0	1.7		0.0	0.0
6 28 78	1.0	0.01			6.8	0.0	0.00	0.0	1.4		2.8	0.4		41	0.01	0.0	2.2		0.1	0.0
7 26 78	1.0	0.01	0.2	0.00	7.1	0.0	0.01	0.1	1.5	0.03	2.9	0.5	0.0	41	0.04	0.0	2.5	0.0	0.0	0.1
9 6 78	0.9	0.01			6.6	0.0	0.01	0.1	1.4		2.7	0.6		33	0.03	0.0	2.4		0.0	0.1
10 18 78	1.4	0.01			7.5	0.0	0.01	0.0	1.7		3.2	0.8		47	0.04	0.0	2.4		0.0	0.1
11 30 78	1.2	0.00			8.1	0.0	0.01	0.0	1.5		2.3	0.4		56	0.03	0.0	2.1		0.0	0.0
1 10 79	1.6	0.00	0.2	0.00	8.8	0.0	0.00	0.0	1.5	0.08	2.4	0.4	0.0	60	0.03	0.1	1.9	0.0	0.1	0.1
2 7 79	1.9	0.00			8.9	0.0	0.00	0.0	1.5		2.8	0.5		65	0.02	0.0	1.7		0.0	0.1
3 8 79	1.6	0.00			7.6	0.0	0.00	0.0	1.5		2.1	0.4		70	0.02	0.0	1.4		0.1	0.1
4 13 79	1.2	0.00			6.9	0.0	0.00	0.0	1.6		2.6	0.4		52	0.01	0.0	1.5		0.0	0.1
5 31 79	0.9	0.00			5.6	0.0	0.01	0.0	1.2		2.2	0.3		40	0.02	0.0	1.8		0.0	0.0
7 5 79	1.0	0.00	0.2	0.00	7.2	0.0	0.00	0.0	1.6	0.05	2.4	0.5	0.0	49	0.02	0.0	2.1	0.0	0.0	0.0
10 25 79	0.9	0.00			7.0	0.0	0.01	0.0	2.0		3.0	0.5		55	0.02	0.0	2.5		0.0	0.0

TABLE 11. WATER QUALITY FOR SITE 4024 GARRETT COUNTY, MARYLAND

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 5 77	11	0.04			4	55	30	2.69	6.4		9	11	0	1.1	7	0.1					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 5 77	0.1	0.00	0.0	0.00	4.6	0.0	0.01	0.0	1.0	0.02	1.6	0.0	0.0	1.1	0.00	0.0	3.4	0.0	0.0	0.0

TABLE 12. WATER QUALITY FOR SITE 4025 GARRETT COUNTY, MARYLAND

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
11 30 77	4	0.07	101*		55	82	43	1.79	6.6		9	11	0	1.7	17	0.4					
12 29 77	1	0.025	28		4	82	39	1.89	6.6		9	11	0	1.8	13	0.4					
9 6 78	19	0.002	19*		35	136	85	1.40	7.6		24	29	0	2.6	39	0.0					
10 18 78	12	0.0005	21*		20	98	61	4.22	7.6	-31	39	47	0	1.8	10	0.0					
11 30 78	8	0.04	56		70	106	70	0.96	7.2		7	9	0	2.0	35	1.5					
5 31 79	13	0.001	7		8	101	59	2.01	6.4	-14	20	25	0	0.9	22	0.1					
7 5 79	17	0.001	28*		3	183	102	0.97	7.0	-2	6	7	0		68	0.0	0.0	0.04	1.40	0.30	0.02

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
11 30 77	0.1	0.00			8.3	0.0	0.00	0.1	1.4		1.8	0.2		2.2	0.00	0.0	1.7		0.0	0.0
12 29 77	0.0	0.00	0.0	0.00	7.2	0.0	0.00	0.0	1.0	0.20	1.9	0.3	0.0	1.4	0.02	0.0	2.0	0.1	0.0	0.1
9 6 78	0.1	0.23			15	0.0	0.00	0.2	0.9		2.7	1.3		4.7	0.01	0.0	1.8		0.0	0.0
10 18 78	0.0	0.01	0.0	0.01	12	0.0	0.00	1.2	1.0	0.07	3.2	1.9	0.0	1.3	0.01	0.0	2.5	0.0	0.0	0.0
11 30 78	0.1	0.03			10	0.0	0.00	0.2	2.8		2.1	0.1		2.3	0.01	0.0	1.9		0.1	0.0
5 31 79	0.0	0.07			12	0.0	0.00	0.3	0.9		3.0	0.2		2.2	0.01	0.0	1.8		0.0	0.0
7 5 79	0.0	0.11	0.0	0.00	19	0.0	0.01	0.1	0.5	0.20	3.9	0.2	0.0	2.4	0.01	0.0	1.4	0.1	0.0	0.0

TABLE 13. WATER QUALITY FOR SITE 4028 GARRETT COUNTY, MARYLAND

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
2 8 78	1	1.5			3	49	30	1.31	6.3		2	2	0	1.2	14	0.2					
3 7 78	1	1.5			10	56	32	1.41	6.7		4	5	0	1.2	14	0.2					
4 7 78	10	1.5	33		85	48	41	0.84	5.3		0	0	0	1.0	26	0.2					
5 3 78	10	0.5	13		8	42	27	1.11	6.1		1	1	0	1.4	13	0.2					
6 1 78	16	2.5			5	44	27	1.18	5.9		2	2	0	0.9	13	0.4					
10 25 79	7	1.0			25	89	56	1.59	6.8		11	14	0	1.2	23	0.9					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
2 8 78	0.1	0.02			4.0	0.0	0.00	0.1	0.6		2.0	0.1		1.0	0.00	0.0	2.2		0.0	0.0
3 7 78	0.0	0.02			4.4	0.0	0.00	0.1	0.8		2.2	0.2		1.1	0.01	0.0	2.0		0.0	0.0
4 7 78	0.2	0.01	0.0	0.00	4.6	0.0	0.00	0.1	1.0	0.05	1.9	0.3	0.0	1.8	0.02	0.0	1.6	0.0	0.0	0.1
5 3 78	0.1	0.01			3.4	0.0	0.00	0.1	0.7		1.6	0.1		0.8	0.01	0.0	1.8		0.0	0.0
6 1 78	0.2	0.00			3.4	0.0	0.00	0.1	1.0		1.6	0.1		0.8	0.01	0.0	1.7		0.0	0.0
10 25 79	0.0	0.02			10	0.0	0.00	0.0	1.2		3.4	0.0		0.9	0.01	0.0	2.5		0.0	0.0

TABLE 14. WATER QUALITY FOR SITE 9011 BARBOUR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
7 18 77	16	0.008			65	161	72	2.18	6.9		27	33	0	9.1	18	0.1					
8 29 77	19	0.0025			75	135	75	3.31	6.8		30	36	0	7.8	15	0.5					
10 20 77	9	0.09	25		8	146	72	1.93	6.8		24	29	0	8.9	22	0.1					
11 18 77	7	0.25	49		40	125	72	2.23	6.5		18	22	0	8.3	22	0.1					
1 11 78	0	0.3			6	94	59	1.88	7.3		18	22	0	3.5	19	0.7					
2 13 78	1	0.3			0	101	58	1.93	7.5		18	22	0	3.8	20	0.3					
3 15 78	5	0.7			20	82	48	1.78	7.4		11	13	0	2.3	16	0.9					
4 13 78	18	0.3	6		20	103	61	2.60	7.8		23	28	0	3.4	17	0.2					
5 9 78	14	0.5	30*		35	86	51	2.08	7.1		16	19	0	2.2	17	0.4					
6 7 78	17	0.2			15	103	68	2.13	7.2		26	32	0	2.3	21	0.5					
7 10 78	18	0.8	72*		30	89	59	2.21	7.4		20	25	0	1.9	19	0.1					
8 2 78	21	0.25	77*		15	92	55	2.44	7.4		21	26	0	1.7	16	0.3					
9 12 78	23	0.002	20*		35	173	75	3.11	8.0		34	41	0	3.7	18	0.1					
10 20 78	13	0.02	36*		5	104	61	2.50	7.5	-23	25	31	0	3.3	17	0.0					
12 5 78	12	0.07	29		10		56	1.67	7.3		13	16	0	2.0	18	1.6					
1 16 79	3	0.4	18		3	75	53	2.01	7.1	-10	16	19	0	2.6	17	0.7					
2 16 79	2	1.0	58		5	67	47	1.17	6.7		5	6	0	1.3	19	1.8					
3 12 79	6	0.6	22		6	78	49	2.59	7.2	-8	19	23	0	2.0	13	0.5					
4 19 79	16	0.2	14	0.03	25	87	56	2.13	7.6	-13	19	23	0	2.2	18	0.4					
6 5 79	17	0.04	25		8	101	61	2.08	7.6	-16	25	30	0	2.8	19	0.1					
7 3 79	18	0.007	24*		10	105	62	2.26	7.5	-19	25	30	0	2.8	19	0.1	0.0	0.00	0.85	0.00	0.01
10 23 79	12	0.07	4		10	104	58	2.41	7.6	-19	25	31	0	2.7	17	0.0					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
7 18 77	0.1	0.05			9.7	0.4	0.05	0.6	3.3		3.9	0.1		4.9		0.0	1.9		0.0	0.0
8 29 77	0.0	0.02			14	0.0	0.00	0.1	1.5		4.2	0.0		5.2	0.00	0.0	3.4		0.0	0.0
10 20 77	0.0	0.00	0.0	0.00	13	0.0	0.00	0.0	1.0	0.04	3.4	0.0	0.0	4.6	0.00	0.0	2.2	0.0	0.0	0.0
11 18 77	0.0	0.00			13	0.0	0.00	0.0	1.3		4.1	0.0		5.9	0.01	0.0	2.7		0.0	0.0
1 11 78	0.0	0.00	0.0	0.00	9.8	0.0	0.00	0.0	0.8	0.07	3.3	0.0	0.0	2.6	0.00	0.0	2.5	0.0	0.0	0.0
2 13 78	0.0	0.01			10	0.0	0.00	0.0	0.9		3.4	0.0		2.7	0.01	0.0	2.2		0.0	0.0
3 15 78	0.1	0.02			7.8	0.0	0.01	0.1	1.1		2.8	0.0		1.9	0.01	0.0	2.5		0.1	0.0
4 13 78	0.1	0.00	0.0	0.00	11	0.0	0.00	0.1	1.6	0.03	3.7	0.0	0.0	3.1	0.03	0.0	2.8	0.0	0.1	0.0
5 9 78	0.0	0.01			9.1	0.0	0.00	0.0	1.0		2.9	0.0		2.2	0.01	0.0	2.8		0.0	0.0
6 7 78	0.1	0.00			12	0.0	0.00	0.1	1.3		3.7	0.0		2.8	0.00	0.0	3.0		0.0	0.0
7 10 78	0.1	0.00	0.0	0.00	11	0.0	0.00	0.1	1.3	0.07	3.2	0.0	0.0	2.1	0.00	0.0	3.2	0.0	0.1	0.0
8 2 78	0.0	0.00			10	0.0	0.00	0.0	1.2		2.7	0.0		2.0	0.00	0.0	3.4		0.0	0.0
9 12 78	0.0	0.00			13	0.0	0.03	0.0	2.0		3.7	0.0		6.1	0.01	0.0	3.7		0.0	0.0
10 20 78	0.0	0.01	0.0	0.00	11	0.0	0.00	0.0	1.3	0.10	2.9	0.0	0.0	3.0	0.01	0.0	3.2	0.0	0.0	0.0
12 5 78	0.1	0.00			9.4	0.0	0.00	0.0	0.9		2.4	0.0		2.2	0.01	0.0	2.7		0.0	0.0
1 16 79	0.1	0.00	0.0	0.00	9.8	0.0	0.00	0.0	1.1	0.15	2.7	0.0	0.0	2.0	0.01	0.0	2.6	0.0	0.1	0.0
2 16 79	0.1	0.00			7.8	0.0	0.00	0.0	0.9		1.9	0.0		1.2	0.00	0.0	2.1		0.0	0.0
3 12 79	0.1	0.00			9.2	0.0	0.01	0.0	1.1		2.6	0.0		2.2	0.02	0.0	2.6		0.0	0.0
4 19 79	0.0	0.00	0.0	0.00	10	0.0	0.00	0.0	1.2	0.06	3.0	0.0	0.0	2.1	0.01	0.0	2.7	0.0	0.0	0.0
6 5 79	0.0	0.00			11	0.0	0.00	0.0	1.1		2.8	0.0		2.1	0.00	0.0	3.0		0.0	0.1
7 3 79	0.0	0.01	0.0	0.00	11	0.0	0.00	0.0	1.1	0.09	3.4	0.0	0.0	2.2	0.00	0.0	3.3	0.0	0.0	0.0
10 23 79	0.1	0.02			10	0.1	0.04	0.0	2.5		3.0	0.0		2.4	0.08	0.0	2.4		0.1	0.1

TABLE 15. WATER QUALITY FOR SITE 9012 BARBOUR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 21 77	28	0.03			60	699	412	1.92	7.8		127	154	1	2.0	180	2.3					
8 29 77	28	0.2			8	1240	945	1.30	7.3		106	129	0	1.7	510	20					
10 20 77	9	0.5	13		25	849	569	1.27	7.2		82	100	0	3.7	280	17					
11 18 77	6	0.06	54		40	828	611	1.33	7.4		93	113	0	3.9	360	1.2					
1 11 78	4	0.25			0	1100	794	1.39	7.9		103	125	1	1.7	390	22					
2 13 78	6	0.5			0	1200	858	1.39	8.1		69	82	1	1.7	450	22					
3 15 78	6	0.7			60	752	508	1.61	7.8		87	105	0	1.8	230	13					
4 13 78	15	0.25	7		7	1300	959	1.08	7.9	-48	57	69	0	1.7	580	18					
5 9 78	15	0.25	32*		30	695	475	1.44	8.4		120	142	2	1.5	230	7.7					
6 7 78	17	0.3	717*			1230	838	1.36	7.7		130	157	1	1.3	500						
7 10 78	18	0.7	66*		4	1410	946	1.28	7.7		105	127	0	3.5	510	19					
8 2 78	22	0.4	72*		15	1300	982	1.39	8.0		148	178	1	1.0	410	44					
9 12 78	21	0.1	25*		10	1420	1100	1.43	8.0		160	192	2	1.9	540	26					
10 20 78	15	0.1	39*		15	1580	1230	1.29	7.9		166	200	1	2.4	660	23					
12 5 78	12	0.2	26		80	776	808	0.75	8.2		87	104	1	7.6	240	75					
1 16 79	8	0.3			10	1170	958	1.27	8.1		134	161	2	1.4	380	54					
2 16 79	2	0.8	194		200	338	235	1.57	7.7	-41	47	57	0	1.7	110	4.6					
3 12 79	6	0.4	71		8	872	656	1.56	8.4		120	142	3	1.2	300	16					
4 19 79	17	0.25	95	0.00	15	1080	807	1.46	8.1		117	140	1	1.3	410	16					
6 5 79	21	0.06	19		20	1310	1040	1.08	7.9		145	175	1	2.1	550	29					
7 3 79	22	0.07	52*		10	1320	1030	1.01	8.3		97	114	2	1.6	580	27	4.7	0.07	2.25	0.25	0.01
10 23 79	13	0.6	158		150	1620	1200	1.31	7.9		184	221	1	1.5	550	44					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 21 77	0.5	0.06			84	0.0	0.05	0.7	6.6		29	0.2		18	0.03	0.0	0.7		0.0	0.1
8 29 77	0.2	0.06			190	0.0	0.00	0.2	6.5		50	0.0		31	0.02	0.1	1.2		0.0	0.0
10 20 77	0.1	0.00	0.1	0.00	110	0.0	0.00	0.0	3.4	0.30	28	0.3	0.0	20	0.01	0.0	1.4	0.6	0.0	0.0
11 18 77	0.2	0.05			120	0.0	0.01	0.1	5.0		36	0.2		29	0.02	0.0	0.7		0.0	0.0
1 11 78	0.2	0.01	0.1	0.00	160	0.0	0.00	0.1	4.4	1.0	50	0.9	0.0	15	0.04	0.0	2.4	1.3	0.2	0.0
2 13 78	0.1	0.05			170	0.0	0.00	0.1	5.4		53	0.5		37	0.05	0.0	1.8		0.0	0.0
3 15 78	0.2	0.04			100	0.1	0.01	0.2	4.5		37	0.5		12	0.04	0.1	2.1		0.2	0.0
4 13 78	0.2	0.01	0.0	0.00	170	0.0	0.01	0.2	6.1	0.45	54	0.4	0.0	26	0.05	0.1	2.4	0.9	0.2	0.0
5 9 78	0.1	0.02			88	0.0	0.01	0.0	3.3		27	0.3		16	0.03	0.0	2.4		0.1	0.0
6 7 78	0.2	0.03			170	0.0	0.01	0.1	6.8		51	0.8		28	0.05	0.1	2.1		0.2	0.0
7 10 78	0.2	0.03	0.1	0.00	190	0.0	0.00	0.1	6.7	0.70	55	1.0	0.1	27	0.00	0.2	2.2	1.2	0.2	0.0
8 2 78	0.3	0.05			190	0.0	0.00	0.1	8.4		51	0.9		31	0.06	0.2	2.3		0.1	0.0
9 12 78	0.3	0.05			200	0.0	0.03	0.1	13		63	0.1		63	0.05	0.2	2.6		0.1	0.0
10 20 78	0.4	0.05	0.1	0.00	230	0.0	0.01	0.1	8.5	1.0	66	0.1	0.1	55	0.05	0.2	0.8	2.2	0.2	0.0
12 5 78	0.3	0.01			110	0.0	0.00	0.1	2.9		31	0.5		25	0.03	0.1	2.0		0.0	0.0
1 16 79	0.2	0.02			170	0.0	0.01	0.1	5.0		43	0.8		38	0.05	0.2	1.8		0.2	0.0
2 16 79	0.2	0.01	0.0	0.00	52	0.0	0.01	0.1	3.0	0.25	11	0.1	0.0	6.9	0.03	0.0	1.8	0.2	0.1	0.0
3 12 79	0.2	0.02			130	0.0	0.01	0.0	4.1		34	0.4		33	0.03	0.1	1.8		0.1	0.0
4 19 79	0.3	0.03	0.1	0.00	160	0.0	0.00	0.4	5.2	0.65	46	0.3	0.0	35	0.03	0.2	1.2	1.2	0.2	0.0
6 5 79	0.3	0.05			160	0.0	0.01	0.1	7.8		46	0.3		53	0.03	0.2	1.8		0.2	0.1
7 3 79	0.2	0.04	0.0	0.00	150	0.0	0.00	0.5	8.4	0.85	56	0.3	0.0	48	0.05	0.2	2.0	1.8	0.3	0.0
10 23 79	0.2	0.08			200	0.0	0.00	0.1	8.2		58	1.1		69	0.06	0.2	2.6		0.3	0.0

TABLE 16. WATER QUALITY FOR SITE 9013 BARBOUR COUNTY, WEST VIRGINIA

DATE			WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO	DA	YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7	18	77	24	0.003			8	2210	1760	1.04	8.1		134	160	2	1.3	1200	0.1					
8	29	77	20	0.01			4	2110	1670	1.36	7.4		130	158	0	1.2	1100	0.1					
10	20	77	9	0.04	24		8	1690	1310	1.06	7.5		104	126	0	1.6	890	0.1					
11	18	77	7	0.04	44		55	1720	1490	1.09	7.4		90	110	0	2.3	1000	0.5					
1	11	78	1	0.25			2	1280	973	1.08	8.1		80	95	1	3.9	650	0.7					
2	13	78	1	0.09			0	1350	927	1.28	8.3		92	109	2	4.0	580	0.9					
3	15	78	6	0.2			10	1080	826	1.15	7.6		48	59	0	2.0	560	0.5					
4	13	78	18	0.1	8		7	1390	1080	1.14	8.0		69	83	1	3.1	720	1.3					
5	9	78	16	0.1	22*		20	1140	827	1.04	8.1		71	85	1	2.2	560	0.6					
6	7	78	18	0.3			10	1220	994	1.02	8.0		99	119	1	3.9	670	0.1					
7	10	78	18	0.09	55*		4	1390	1110	1.19	8.1		91	109	1	2.5	720	0.1					
8	2	78	24	0.15	59*		10	1250	925	1.15	8.4		112	132	3	1.3	600	0.1					
9	12	78	22	0.007	263*		650	2360	2490	1.25	8.3		121	142	3	1.8	1600	0.9					
10	20	78	14	0.02	34*		7	2650	2360	1.05	8.2		120	142	2	1.6	1600	0.1					
12	5	78	12	0.05	16		20	997	728	1.19	7.8	-42	58	70	0	1.8	470	0.3					
1	16	79	4	0.1	7		2	1270	985	1.06	8.1	-49	66	79	1	2.2	670	0.3					
2	16	79	3	0.2	21		10	897	635	1.34	7.9	-42	48	57	0	1.9	400	0.5					
3	12	79	6	0.07	29		2	1230	935	0.98	8.2		76	91	1	2.0	650	0.1					
4	19	79	15	0.07	52	0.00	9	1390	1080	1.15	8.1		84	100	1	2.2	710	1.0					
6	5	79	17	0.007	84		90	1640	1630	1.18	8.0		100	120	1	4.9	1100	0.2					
7	3	79	19	0.003	89*		90	2260	2070	1.07	8.2		99	117	2	0.8	1400	0.1	0.0	0.01	0.30	0.10	0.03
10	23	79	13	0.04	9		10	1430	1030	1.20	8.2		120	142	2	2.7	650	0.0					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE			AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO	DA	YR	MILLIGRAMS PER LITER																			
7	18	77	0.4	0.05			290	0.0	0.00	0.2	4.5		120	0.2		39	0.04	0.1	4.2		0.1	0.1
8	29	77	0.4	0.06			350	0.0	0.00	0.3	4.6		120	0.3		49	0.04	0.1	4.3		0.1	0.0
10	20	77	0.2	0.00	0.0	0.00	240	0.0	0.00	0.1	2.5	0.75	78	0.2	0.0	24	0.02	0.1	2.4	0.8	0.1	0.0
11	18	77	0.2	0.00			270	0.0	0.01	0.1	3.8		100	0.2		28	0.04	0.1	3.5		0.3	0.0
1	11	78	0.2	0.00	0.0	0.00	170	0.0	0.00	0.1	2.4	1.0	66	0.2	0.0	19	0.03	0.0	2.6	1.0	0.1	0.0
2	13	78	0.2	0.05			180	0.0	0.01	0.1	3.1		70	0.1		25	0.04	0.1	2.4		0.0	0.0
3	15	78	0.2	0.04			150	0.0	0.00	0.1	2.6		62	0.2		12	0.03	0.1	2.6		0.1	0.0
4	13	78	0.2	0.00	0.0	0.00	200	0.0	0.01	0.2	4.5	0.60	76	0.1	0.0	25	0.05	0.1	2.7	0.8	0.2	0.0
5	9	78	0.2	0.02			140	0.0	0.00	0.1	2.8		55	0.3		17	0.04	0.0	3.1		0.1	0.0
6	7	78	0.2	0.03			160	0.0	0.01	0.1	3.7		62	0.4		27	0.04	0.1	3.0		0.2	0.0
7	10	78	0.2	0.04	0.0	0.00	210	0.0	0.00	0.2	3.8	0.70	74	0.4	0.1	33	0.07	0.2	3.2	0.9	0.2	0.0
8	2	78	0.3	0.02			170	0.0	0.01	0.1	3.5		60	0.3		17	0.05	0.2	3.6		0.1	0.0
9	12	78	0.7	0.04			500	0.1	0.03	0.2	5.8		170	0.4		81	0.09	0.3	4.2		0.2	0.0
10	20	78	0.4	0.03			420	0.0	0.01	0.1	4.0		160	0.1		42	0.10	0.3	3.2		0.4	0.0
12	5	78	0.4	0.02			140	0.0	0.01	0.1	2.1		50	0.1		14	0.06	0.3	2.9		0.4	0.0
1	16	79	0.3	0.00			180	0.0	0.00	0.1	2.3		60	0.2		18	0.06	0.2	2.4		0.3	0.0
2	16	79	0.4	0.00	0.0	0.00	140	0.0	0.01	0.0	2.2	0.75	47	0.3	0.0	8.7	0.05	0.1	2.2	0.4	0.2	0.0
3	12	79	0.3	0.01			160	0.0	0.00	0.1	2.0		56	0.1		11	0.06	0.3	2.5		0.3	0.0
4	19	79	0.3	0.02	0.0	0.00	210	0.0	0.00	0.1	3.2	0.80	66	0.1	0.0	23	0.03	0.2	1.9	0.6	0.3	0.0
6	5	79	0.4	0.03			320	0.0	0.01	0.1	5.1		110	0.1		31	0.05	0.2	4.1		0.4	0
7	3	79	0.5	0.03	0.0	0.00	410	0.0	0.00	0.1	3.6	1.0	120	0.1	0.1	30	0.04	0.3	8.0	0.5	0.6	
10	23	79	0.2	0.04			190	0.0	0.00	0.1	3.3		65	0.5		29	0.04	0.2	3.3			

TABLE 17. WATER QUALITY FOR SITE 9016 BARBOUR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 23 79	14	0.02			15	1750	1310	1.04	8.0		136	163	1	3.6	870	0.5					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 23 79	0.3	0.06			200	0.0	0.00	0.1	5.8		83	0.0		52	0.12	0.3	2.9		0.8	0.0

TABLE 18. WATER QUALITY FOR SITE 9022 BOONE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
6 21 77	22	0.008			10	450	252	1.28	7.2		25	30	0	1.5	160	0.8					
8 11 77	28	0.02			10	497	313	1.30	6.6		13	16	0	2.0	200	1.5					
9 23 77	21	0.04			4	483	333	1.17	7.1		16	20	0	1.5	220	1.6					
10 31 77	12	0.02	2		4	434	305	1.06	6.4		16	19	0	1.1	200	2.0					
12 5 77	12	0.8	68*		60	317	186	1.29	6.5		11	13	0	1.5	120	0.9					
1 18 78	1	0.05			20	438	277	1.18	7.0		16	19	0	1.7	180	1.6					
2 23 78	2	0.3			20	497	332	1.11	7.0		9	11	0	1.7	220	1.8					
3 28 78	12	0.25			10	601	402	1.18	6.3		14	17	0	1.6	270	1.7					
4 24 78	17	0.02	12		15	698	475	1.08	6.4		23	28	0	1.7	320	1.8					
5 12 78	18	0.1	17*		45	399	241	1.09	7.1		11	14	0	1.2	160	1.0					
6 13 78	25	0.06			0	566	386	0.94	7.2		15	18	0	1.0	270	1.8					
7 17 78	26	0.015	43*		4	733	509	1.17	7.5		20	24	0	1.9	350	0.8					
8 11 78	24	0.03	28*		9	684	350	1.24	7.4		16	20	0	0.9	230	0.6					
9 27 78	19	0.0003			65	778	597	1.11	7.7		31	38	0	0.8	410	0.4					
12 14 78	5	0.04			30	534	365	1.13	7.0	-5	8	10	0	1.6	250	1.2					
1 23 79	5	0.1	22		20	401	246	1.17	6.5	-4	9	11	0	1.2	160	0.7					
2 21 79	4	0.2	36		15	539	366	1.21	6.8	-3	8	10	0	0.9	250	1.1					
3 28 79	10	0.2			3	570	427	1.02	7.0	-5	8	10	0	1.0	300	1.1					
5 3 79	17	0.3	9	0.00	5	583	446	1.19	7.0	-5	12	15	0	1.2	310	1.0					
6 18 79	20	0.01	4		6	655	496	1.15	7.2	-9	19	23	0	1.6	340	1.0					
7 17 79	27	0.01	74	0.07	15	825	577	1.05	7.4	-13	16	20	0	1.8	410	1.0	0.2	0.05	0.60	0.05	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
6 21 77	0.0	0.02			24	0.0	0.00	0.1	5.4		27	0.1		17	0.00	0.0	0.5		0.1	0.0
8 11 77	0.0	0.01			33	0.0	0.00	0.0	8.2		37	0.1		14	0.00	0.0	1.6		0.1	0.1
9 23 77	0.1	0.04			35	0.0	0.00	0.1	6.2		38	0.0		11	0.03	0.0	2.0		0.1	0.2
10 31 77	0.1	0.02	0.0	0.00	33	0.0	0.00	0.1	5.9	0.15	30	0.1	0.0	8.6	0.02	0.0	2.2	0.2	0.1	0.0
12 5 77	0.1	0.00			21	0.0	0.00	0.1	3.8		24	0.2		3.5	0.02	0.0	2.8		0.0	0.0
1 18 78	0.0	0.00	0.0	0.00	26	0.0	0.00	0.0	3.8	0.20	33	0.1	0.0	9.5	0.00	0.0	2.8	0.3	0.0	0.0
2 23 78	0.0	0.01			36	0.0	0.00	0.0	4.2		38	0.2		7.7	0.02	0.0	3.6		0.1	0.0
3 28 78	0.1	0.00			51	0.0	0.00	0.3	5.3		46	0.4		8.3	0.04	0.0	2.6		0.1	0.0
4 24 78	0.0	0.00	0.0	0.00	49	0.0	0.00	0.1	5.7	0.15	48	0.2	0.1	20	0.01	0.0	2.0	0.3	0.0	0.0
5 12 78	0.0	0.01			23	0.0	0.00	0.1	3.7		28	0.2		4.9	0.02	0.0	2.8		0.0	0.0
6 13 78	0.1	0.00			35	0.0	0.01	0.0	5.2		40	0.1		9.0	0.02	0.1	1.9		0.1	0.0
7 17 78	0.1	0.01	0.0	0.00	62	0.0	0.00	0.1	7.0	0.20	59	0.0	0.0	11	0.02	0.0	1.2	0.3	0.1	0.0
8 11 78	0.2	0.02			41	0.1	0.01	0.1	6.2		42	0.0		9.7	0.06	0.2	1.3		0.2	0.1
9 27 78	0.1	0.00	0.0	0.00	69	0.0	0.01	0.1	7.5	0.40	63	0.0	0.0	18	0.04	0.1	1.5	0.3	0.1	0.0
12 14 78	0.1	0.00			49	0.0	0.01	0.1	5.8		39	0.4		4.8	0.05	0.1	2.7		0.1	0.0
1 23 79	0.1	0.00			31	0.0	0.01	0.1	3.7		29	0.4		2.5	0.04	0.1	2.3		0.1	0.0
2 21 79	0.1	0.00			51	0.0	0.01	0.0	4.5		42	0.2		4.9	0.04	0.0	2.5		0.1	0.0
3 28 79	0.1	0.01	0.0	0.00	50	0.0	0.00	0.1	4.4	0.35	46	0.2	0.1	4.4	0.06	0.1	2.5	0.2	0.2	0.0
5 3 79	0.1	0.01			59	0.0	0.01	0.0	4.5		53	0.1		5.3	0.03	0.0	2.3		0.1	0.0
6 18 79	0.1	0.01			60	0.0	0.00	0.0	6.1		59	0.0		7.0	0.00	0.1	2.8		0.2	0.1
7 17 79	0.2	0.02	0.0	0.00	70	0.0	0.00	0.0	6.3	0.30	62	0.0	0.0	8.3	0.00	0.1	1.9	0.2	0.1	0.0

TABLE 19. WATER QUALITY FOR SITE 9023 BOONE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
6 21 77	16	0.02			10	1310	844	1.90	8.3		217	257	4	1.6	380	0.5					
8 11 77	17	0.05			20	1250	862	2.15	8.5		293	342	8	4.0	340	0.5					
9 23 77	16	0.07			50	1060	768	2.05	8.2		205	244	3	3.3	320	0.4					
10 31 77	12	0.06	6		4	842	571	2.19	7.3		153	186	0	1.7	240	0.4					
12 5 77	12	0.8	180*		60	217	128	1.35	6.9		23	28	0	1.7	66	0.4					
1 18 78	3	0.25			4	248	154	1.24	6.6		5	6	0	1.6	99	0.4					
2 23 78	2	0.4			10	238	154	1.39	6.5		3	4	0	1.3	96	0.4					
3 28 78	7	0.3			8	459	284	2.19	7.7		70	84	0	1.9	120	0.4					
4 24 78	12	0.03	6		10	749	499	1.85	8.3		175	207	3	2.7	210	0.5					
5 12 78	14	0.1	28*		10	370	226	1.45	8.0		58	70	0	7.5	110	0.3					
6 13 78	15	0.05			0	771	469	1.64	8.4		156	184	3	2.3	210	0.4					
7 17 78	16	0.09	19*		4	1070	713	1.97	8.5		202	235	5	4.1	300	0.4					
8 11 78	18	0.001	22*		3	1060	735	2.50	8.6		227	262	7	3.6	270	0.4					
9 27 78	19	0.01			0	1200	672	2.02	8.7		273	311	11	4.4	250	0.5					
11 7 78	15	0.009	51		10	1230	813	1.70	8.3	-240	298	354	5	4.4	350	0.3					
12 14 78	8	0.06	1		4	423	322	1.14	7.9	-55	54	65	0	1.5	190	0.4					
1 23 79	7	0.15	5		0	200	107	1.30	6.9	-19	19	23	0	1.1	57	0.2					
2 21 79	6	0.15	4		2	286	177	1.53	7.6	-38	43	53	0	0.9	87	0.2					
3 28 79	9	0.2			1	285	202	1.40	7.7	-34	41	50	0	1.0	110	0.3					
5 3 79	13	0.09	9	0.00	3	424	271	1.50	8.1	-67	83	99	1	1.5	130	0.4					
6 18 79	14	0.01	4		5	896	580	1.71	8.5	-160	197	230	5	3.4	250	0.3					
7 17 79	17	0.05	9		8	1110	628	1.55	8.6	-190	216	250	7	3.9	280	0.4	0.1	0.01	0.55	0.10	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
6 21 77	0.1	0.07			41	0.0	0.00	0.2	8.9		19	0.0		250	0.00	0.2	5.0		0.0	0.0
8 11 77	0.1	0.06			26	0.0	0.00	0.0	13		22	0.0		270	0.00	0.1	4.6		0.0	0.0
9 23 77	0.1	0.10			40	0.1	0.01	0.1	14		20	0.0		230	0.03	0.1	5.1		0.1	0.0
10 31 77	0.1	0.07	0.1	0.00	34	0.1	0.00	0.1	8.2	0.10	26	0.2	0.1	160	0.02	0.0	4.6	0.9	0.1	0.0
12 5 77	0.1	0.00			7.9	0.0	0.00	0.1	3.0		8.8	0.0		17	0.00	0.0	3.7		0.0	0.0
1 18 78	0.0	0.00	0.0	0.00	13	0.0	0.00	0.0	2.6	0.15	21	0.1	0.0	4.4	0.00	0.0	3.2	0.2	0.0	0.0
2 23 78	0.0	0.01			14	0.0	0.00	0.1	3.4		23	0.0		4.6	0.02	0.0	3.6		0.1	0.0
3 28 78	0.0	0.01			16	0.0	0.00	0.2	4.7		18	0.0		72	0.00	0.0	3.8		0.0	0.0
4 24 78	0.1	0.03	0.1	0.00	23	0.0	0.00	0.1	6.0	0.10	17	0.0	0.0	120	0.01	0.0	4.4	0.6	0.0	0.0
5 12 78	0.0	0.02			13	0.0	0.00	0.1	3.5		11	0.0		41	0.01	0.0	3.9		0.0	0.0
6 13 78	0.1	0.02			19	0.0	0.02	0.0	6.5		14	0.0		120	0.02	0.1	2.0		0.0	0.0
7 17 78	0.1	0.07	0.1	0.00	33	0.0	0.00	0.2	9.8	0.20	21	0.0	0.0	210	0.00	0.1	4.1	0.9	0.2	0.0
8 11 78	0.1	0.06			30	0.0	0.02	0.1	8.5		16	0.0		260	0.04	0.1	5.1		0.1	0.0
9 27 78	0.1	0.06	0.1	0.00	34	0.0	0.00	0.1	9.4	0.25	15	0.0	0.0	180	0.00	0.1	4.9	1.2	0.0	0.0
11 7 78	0.1	0.06			35	0.0	0.00	0.0	7.6		15	0.0		210	0.01	0.1	4.8		0.1	0.0
12 14 78	0.0	0.00			18	0.0	0.01	0.0	4.8		12	0.0		58	0.01	0.0	3.5		0.0	0.0
1 23 79	0.0	0.00	0.0	0.00	10	0.0	0.00	0.0	2.6	0.08	8.1	0.0	0.0	7.9	0.01	0.0	3.2	0.1	0.0	0.0
2 21 79	0.0	0.01			12	0.0	0.00	0.1	3.2		9.9	0.0		30	0.01	0.0	3.3		0.0	0.0
3 28 79	0.1	0.01	0.0	0.00	13	0.0	0.01	0.0	3.6	0.10	10	0.0	0.0	35	0.02	0.0	3.5	0.3	0.1	0.0
5 3 79	0.0	0.02			14	0.1	0.01	0.0	3.8		11	0.0		54	0.02	0.1	3.6		0.0	0.0
6 18 79	0.1	0.05			28	0.0	0.04	0.0	7.1		17	0.0		140	0.02	0.0	4.8		0.0	0.1
7 17 79	0.1	0.06	0.1	0.00	30	0.0	0.01	0.1	7.3	0.25	20	0.0	0.0	140	0.01	0.1	4.5	1.0	0.1	0.0

TABLE 20. WATER QUALITY FOR SITE 9025 BOONE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
8 11 77	21	0.002			4	142	76	1.20	6.4		10	12	0	0.9	39	0.9					
9 23 77	17	0.05			4	140	84	1.24	7.0		12	15	0	0.7	46	0.1					
10 31 77	12	0.2	0		4	130	79	1.28	7.1		6	7	0	1.1	45	0.0					
12 5 77	12	1.5	48*		55	56	39	1.13	6.7		2	2	0	1.4	18	0.1					
1 18 78	3	0.2			0	106	59	1.22	6.4		7	8	0	1.2	32	0.1					
2 23 78	6	0.6			8	98	60	1.34	6.3		2	3	0	1.1	36	0.1					
3 28 78	8	0.8			4	101	58	1.24	6.1		2	3	0	1.0	34	0.0					
4 24 78	15	0.25	4		5	133	79	1.22	6.5	3	2	2	0	0.9	48	0.2					
5 12 78	15	0.2	22*		0	87	53	1.12	6.4		2	2	0	1.0	31	0.1					
6 13 78	17	0.06	55*		0	130	48	2.12	6.7		4	5	0	1.7	21	0.1					
7 17 78	19	0.0000	64*		4	135	86	1.32	7.0		9	11	0	1.1	47	0.2					
12 14 78	5	0.2	0		4	100	59	1.05	6.0	4	1	1	0	0.9	37	0.0					
1 23 79	6	0.4	13		3	76	52	1.01	5.9		1	1	0	0.4	32	0.1					
2 21 79	4	0.25	3		1	93	51	1.32	6.0	3	4	5	0	1.0	28	0.0					
3 28 79	8	0.4			3	92	60	0.95	6.0	2	0	0	0	1.1	38	0.1					
5 3 79	13	0.05	10	0.00	7	109	76	1.00	6.3	3	2	3	0	0.9	48	0.1					
6 18 79	15	0.03	19		0	122	84	1.19	6.7	4	6	7	0	1.3	49	0.0					
7 17 79	18	0.08	3		5	158	87	1.04	6.5	0	3	4	0	1.2	54	0.1	0.0	0.01	0.35	0.00	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
8 11 77	0.0	0.00			5.9	0.0	0.00	0.0	2.7		7.5	0.0		2.0	0.00	0.0	3.9		0.0	0.1
9 23 77	0.0	0.00			8.0	0.0	0.00	0.0	2.4		7.7	0.0		2.8	0.00	0.0	4.1		0.0	0.0
10 31 77	0.0	0.02	0.1	0.00	7.1	0.0	0.00	0.1	2.4	0.06	8.6	0.0	0.0	2.3	0.01	0.0	4.0	0.1	0.1	0.0
12 5 77	0.2	0.00			2.5	0.0	0.00	0.1	2.1		3.0	0.0		1.0	0.00	0.0	4.3		0.0	0.0
1 18 78	0.0	0.00	0.0	0.00	4.3	0.0	0.00	0.0	1.5	0.07	6.7	0.0	0.0	1.3	0.00	0.0	3.3	0.1	0.0	0.0
2 23 78	0.1	0.01			5.8	0.0	0.00	0.1	2.3		7.4	0.0		2.0	0.00	0.0	1.5		0.0	0.0
3 28 78	0.0	0.00			5.0	0.0	0.00	0.1	1.9		6.6	0.0		1.4	0.01	0.0	3.2		0.0	0.0
4 24 78	0.0	0.00	0.1	0.00	6.4	0.0	0.01	0.1	3.2	0.01	9.3	0.0	0.0	1.8	0.03	0.0	3.5	0.1	0.0	0.0
5 12 78	0.0	0.00			3.8	0.0	0.00	0.1	1.7		5.6	0.0		1.4	0.00	0.0	3.6		0.0	0.0
6 13 78	0.0	0.00			5.2	0.0	0.01	0.0	2.3		7.5	0.0		1.4	0.01	0.0	2.5		0.0	0.0
7 17 78	0.0	0.01	0.1	0.00	7.6	0.1	0.01	0.1	2.8	0.04	9.4	0.0	0.0	2.5	0.02	0.1	4.1	0.1	0.3	0.0
12 14 78	0.0	0.00			5.1	0.0	0.00	0.0	1.8		6.0	0.0		1.0	0.01	0.0	3.1		0.0	0.0
1 23 79	0.0	0.00			3.9	0.0	0.02	0.0	1.9		4.7	0.0		1.2	0.04	0.0	3.6		0.0	0.0
2 21 79	0.0	0.00	0.0	0.00	4.5	0.0	0.01	0.0	1.8	0.04	5.6	0.0	0.0	1.2	0.01	0.0	2.9	0.0	0.0	0.0
3 28 79	0.0	0.01	0.0	0.00	4.5	0.0	0.00	0.0	1.7	0.10	6.0	0.0	0.0	0.9	0.03	0.0	3.1	0.1	0.0	0.0
5 3 79	0.0	0.00			5.3	0.0	0.00	0.4	2.0		8.0	0.0		1.1	0.02	0.0	3.8		0.1	0.0
6 18 79	0.0	0.01			7.0	0.0	0.01	0.0	2.3		9.4	0.0		1.6	0.00	0.0	4.2		0.0	0.1
7 17 79	0.0	0.00	0.1	0.00	7.0	0.0	0.00	0.0	2.3	0.05	9.0	0.0	0.0	1.4	0.01	0.0	4.1	0.1	0.1	0.0

TABLE 21. WATER QUALITY FOR SITE 9031 BRAXTON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 9 77	22	0.002			45	161	71	5.86	7.4		47	57	0	1.7	10	0.0					
10 26 77	15	0.02	0		4	118	64	3.21	7.0		27	33	0	1.6	17	0.1					
11 23 77	8	0.06	25		4	118	68	2.44	7.5	-26	28	34	0	3.5	20	0.1					
1 4 78	0	0.02			2	98	54	2.40	7.4		21	26	0	3.1	16	0.0					
2 15 78	2	0.15			0	101	56	2.39	7.5		21	26	0	3.1	17	0.2					
3 22 78	12	0.2			8	88	51	2.17	7.7		20	25	0	2.6	16	0.0					
4 12 78	19	0.1	8		15	110	65	2.90	7.7	-28	33	40	0	3.1	15	0.1					
5 8 78	15	0.15	29*		40	91	51	2.97	7.4		23	28	0	2.0	12	0.1					
6 8 78	18	0.15			25	113	70	3.26	7.4		36	44	0	2.6	16	0.1					
7 7 78	30	0.1	63*		20	107	71	4.02	7.7		37	45	0	2.5	14	0.1					
8 8 78	18	0.1	32*		20	99	58	3.19	7.5		30	36	0	2.0	13	0.0					
9 14 78	24	0.06	41*		8	115	71	3.37	7.7		37	45	0	2.2	16	0.0					
10 24 78	12	0.02	21*		10	113	68	3.31	7.6	-31	34	42	0	2.8	15	0.1					
12 6 78	9	0.1	27		10	89	53	2.42	7.6		19	23	0	2.4	16	0.2					
1 15 79	3	0.1	6		10	71	47	1.72	7.1		11	13	0	0.8	18	0.2					
2 15 79	1	2.5	196		180	73	48	1.76	7.0		10	12	0	1.8	18	0.4					
3 11 79	5	0.15	15		15	76	49	2.37	7.2	-10	18	22	0	1.6	14	0.1					
4 25 79	16	0.01	32	0.00	20	104	66	3.11	7.4	-24	31	38	0	2.3	16	0.1					
6 4 79	20	0.01	27		15	103	67	2.41	7.8	-26	31	38	0	5.5	17	0.0					
7 10 79	24	0.003	27*		20	123	69	4.26	7.8	-35	39	48	0	1.8	13	0.1	0.4	0.05	1.90	0.30	0.02

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 9 77	0.1	0.05			14	0.0	0.01	0.3	2.0		3.7	0.2		5.4	0.03	0.1	2.7		0.2	0.0
10 26 77	0.0	0.00	0.0	0.00	12	0.1	0.00	0.1	1.8	0.04	4.2	0.0	0.0	4.4	0.01	0.0	2.8	0.0	0.1	0.0
11 23 77	0.0	0.00			11	0.0	0.00	0.1	1.6		3.5	0.0		4.8	0.00	0.0	3.0		0.0	0.0
1 4 78	0.0	0.00	0.0	0.00	8.9	0.0	0.00	0.1	1.2	0.01	3.2	0.0	0.0	3.5	0.01	0.1	2.3	0.1	0.1	0.0
2 15 78	0.0	0.02			9.4	0.0	0.01	0.0	1.4		3.4	0.0		3.4	0.02	0.0	2.4		0.0	0.0
3 22 78	0.1	0.00			7.7	0.0	0.00	0.1	1.3		2.7	0.0		3.7	0.00	0.0	2.3		0.0	0.0
4 12 78	0.1	0.00	0.0	0.00	11	0.0	0.00	0.1	1.6	0.05	3.3	0.1	0.0	3.8	0.00	0.0	3.2	0.1	0.0	0.0
5 8 78	0.0	0.01			9.1	0.0	0.00	0.1	1.0		2.8	0.0		2.9	0.00	0.0	3.1		0.0	0.0
6 8 78	0.0	0.00			12	0.0	0.00	0.1	1.7		4.0	0.2		4.0	0.01	0.0	3.3		0.0	0.0
7 7 78	0.1	0.01	0.0	0.00	13	0.0	0.00	0.4	3.7	0.09	4.0	0.2	0.0	3.5	0.03	0.0	3.0	0.1	0.0	0.0
8 8 78	0.0	0.01			9.7	0.0	0.01	0.1	1.6		2.8	0.1		3.5	0.02	0.1	3.6		0.0	0.0
9 14 78	0.0	0.00	0.0	0.00	12	0.0	0.00	0.2	2.8	0.15	3.8	0.1	0.0	3.4	0.00	0.0	3.6	0.1	0.0	0.0
10 24 78	0.0	0.01	0.0	0.00	13	0.0	0.00	0.3	1.9	0.06	3.5	0.2	0.0	3.5	0.02	0.0	3.1	0.0	0.1	0.0
12 6 78	0.1	0.00			9.9	0.0	0.01	0.1	1.4		2.4	0.0		3.1	0.01	0.0	2.8		0.1	0.0
1 15 79	0.0	0.00			7.8	0.0	0.01	0.0	1.2		2.0	0.0		2.5	0.01	0.0	3.2		0.0	0.0
2 15 79	0.1	0.00	0.0	0.00	8.3	0.0	0.01	0.1	1.5	0.09	2.0	0.0	0.0	2.6	0.01	0.0	2.6	0.0	0.0	0.0
3 11 79	0.1	0.00			8.1	0.0	0.00	0.1	1.5		2.6	0.0		2.4	0.02	0.0	3.2		0.1	0.0
4 25 79	0.0	0.00	0.0	0.00	13	0.0	0.00	0.1	1.7	0.10	3.5	0.1	0.0	3.4	0.00	0.0	3.0	0.1	0.0	0.0
6 4 79	0.0	0.01			11	0.0	0.00	0.1	1.9		2.9	0.1		3.2	0.01	0.0	3.3		0.0	0.0
7 10 79	0.0	0.00	0.2	0.00	13	0.0	0.02	0.2	2.0	0.09	4.1	0.1	0.0	3.5	0.01	0.0	3.0	0.1	0.0	0.2

TABLE 22. WATER QUALITY FOR SITE 9032 BRAXTON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 9 77	22	0.15			8	701	545	1.05	7.6		58	71	0	7.5	340	0.0					
10 26 77	13	0.3	1		15	806	551	1.40	7.0		52	64	0	15	310	0.2					
11 23 77	8	0.3	27		8	760	565	1.27	6.9		35	43	0	18	330	0.0					
1 4 78	3	0.04			2	508	413	1.25	7.3		17	21	0	4.8	250	0.1					
4 26 79	16	0.8	8	0.00	10	586	439	1.36	7.7	-30	38	46	0	7.9	250	0.1					
6 4 79	20	0.1	5		8	549	410	1.23	7.9	-39	52	62	0	7.9	240	0.1					
7 10 79	20	0.09	26*		10	734	518	1.00	8.0	-41	49	59	0	14	320	0.3	0.1	0.00	1.05	0.25	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 9 77	0.2	0.06			84	0.1	0.01	0.2	3.5		19	2.0		42	0.06	0.1	5.5		0.3	0.0
10 26 77	0.2	0.04	0.0	0.00	110	0.1	0.01	0.4	3.3	0.30	33	2.2	0.0	28	0.08	0.1	7.2	0.4	0.1	0.1
11 23 77	0.1	0.01			99	0.0	0.00	0.5	3.1		27	2.0		46	0.05	0.0	7.5		0.1	0.0
1 4 78	0.3	0.00	0.0	0.00	76	0.1	0.01	0.6	2.2	0.35	23	1.5	0.0	22	0.08	0.1	7.9	0.5	0.1	0.1
4 26 79	0.2	0.02	0.0	0.00	91	0.0	0.00	0.3	2.4	0.45	23	1.1	0.0	22	0.06	0.1	5.9	0.4	0.1	0.1
6 4 79	0.1	0.02			76	0.0	0.01	0.1	2.4		19	0.8		20	0.04	0.0	5.3		0.1	0.0
7 10 79	0.3	0.02	0.2	0.00	89	0.0	0.01	0.1	2.8	0.45	20	1.2	0.0	22	0.05	0.1	6.4	0.5	0.1	0.3

TABLE 23. WATER QUALITY FOR SITE 9033 BRAXTON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 9 77	19	0.0000			0	438	257	0.92	7.2		11	14	0	4.0	170	0.1					
10 26 77	18	0.05	11		10	388	247	1.52	6.9		11	14	0	4.2	140	0.0					
11 22 77	7	0.03	27		4	352	254	0.92	6.3		10	12	0	5.0	170	0.1					
1 4 78	0	0.05			8	433	212	1.15	7.0		7	9	0	8.7	130	0.1					
2 15 78	2	0.15			0	409	289	0.94	5.7	4	2	2	0	3.6	200	0.2					
3 22 78	8	0.3			10	332	190	0.99	6.0		3	4	0	2.7	130	0.1					
4 12 78	18	0.15	10		25	340	196	1.03	7.0		7	9	0	3.0	130	0.1					
5 8 78	13	0.1	16*		50	280	152	1.07	6.8		4	5	0	2.1	96	0.2					
6 8 78	17	0.15			20	378	274	1.08	6.5		5	6	0	2.7	180	0.3					
7 7 78	20	0.25	71*		4	365	263	1.30	6.9		7	9	0	3.0	160	0.1					
8 8 78	18	0.15	42*		15	245	137	0.99	7.2		11	13	0	1.6	85	0.1					
9 14 78	22	0.02	60*		8	385	271	1.20	7.0		11	14	0	2.8	170	0.0					
10 24 78	12	0.009	34*		7	461	329	1.07	7.1	-7	11	13	0	5.3	210	0.0					
12 6 78	10	0.15	8		3	284	151	1.07	7.4	-4	8	10	0	2.4	94	0.0					
1 15 79	4	0.2	5		8	234	136	1.02	6.5	2	3	4	0	1.7	87	0.1					
2 15 79	2	0.25	69		95	154	102	0.99	6.8	0	5	6	0	1.4	63	0.4					
3 11 79	6	0.2	16		10	222	122	1.06	6.4	0	3	4	0	1.4	77	0.1					
4 26 79	13	0.15	37	0.00	20	298	225	1.24	6.5	-1	3	4	0	1.6	140	0.1					
6 4 79	20	0.004	2		5	339	232	1.26	6.8	-2	7	9	0	1.9	150	0.1					
7 10 79	20	0.007	2		5	433	297	1.23	7.2	3	7	9	0	3.1	190	0.2	0.0	0.03	0.75	0.35	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 9 77	0.1	0.02			39	0.0	0.01	0.1	3.1		11	0.1		11	0.02	0.1	4.4		0.2	0.0
10 26 77	0.1	0.02	0.0	0.00	46	0.1	0.00	0.1	2.7	0.10	24	0.1	0.0	7.6	0.02	0.0	5.5	0.2	0.0	0.0
11 22 77	0.1	0.00			37	0.0	0.00	0.1	2.2		14	0.0		8.6	0.00	0.0	5.1		0.0	0.0
1 4 78	0.0	0.00	0.0	0.00	31	0.0	0.00	0.0	1.5	0.15	19	0.2	0.0	5.6	0.00	0.0	5.0	0.2	0.0	0.0
2 15 78	0.4	0.01			36	0.1	0.01	0.0	2.5		23	0.2		7.4	0.07	0.1	5.2		0.1	0.0
3 22 78	0.2	0.00			28	0.0	0.00	0.2	2.3		12	0.3		5.9	0.02	0.0	4.7		0.1	0.0
4 12 78	0.1	0.00	0.0	0.00	30	0.0	0.00	0.0	2.1	0.10	12	0.3	0.0	5.3	0.02	0.0	5.7	0.2	0.0	0.0
5 8 78	0.1	0.00			24	0.0	0.00	0.0	1.7		10	0.2		4.2	0.01	0.0	5.1		0.0	0.0
6 8 78	0.1	0.01			41	0.0	0.00	0.0	2.7		21	0.2		7.0	0.04	0.0	6.7		0.1	0.0
7 7 78	0.1	0.01	0.0	0.00	50	0.0	0.00	0.2	2.8	0.15	20	0.1	0.1	5.6	0.07	0.1	5.9	0.2	0.0	0.0
8 8 78	0.1	0.01			19	0.1	0.01	0.1	1.8		7.9	0.1		3.1	0.03	0.1	4.9		0.0	0.0
9 14 78	0.1	0.00	0.0	0.00	48	0.0	0.00	0.0	2.5	0.25	20	0.1	0.0	6.2	0.02	0.1	6.4	0.2	0.1	0.0
10 24 78	0.1	0.01	0.0	0.00	60	0.0	0.00	0.0	2.6	0.30	19	0.0	0.0	7.3	0.02	0.1	6.4	0.2	0.0	0.0
12 6 78	0.1	0.00			24	0.0	0.01	0.0	1.8		9.2	0.1		4.3	0.02	0.0	4.7		0.0	0.0
1 15 79	0.1	0.00			22	0.0	0.02	0.0	1.6		7.5	0.1		3.9	0.02	0.0	4.2		0.0	0.1
2 15 79	0.1	0.00	0.0	0.00	16	0.0	0.01	0.0	1.3	0.10	5.3	0.1	0.0	3.2	0.01	0.0	3.1	0.1	0.0	0.0
3 11 79	0.2	0.00			19	0.0	0.02	0.0	1.8		7.0	0.1		4.1	0.03	0.0	4.2		0.0	0.0
4 26 79	0.1	0.00	0.0	0.00	45	0.0	0.00	0.0	2.0	0.30	15	0.2	0.0	5.2	0.03	0.0	5.5	0.2	0.0	0.0
6 4 79	0.1	0.01			42	0.0	0.00	0.0	2.2		18	0.1		5.6	0.01	0.0	5.6		0.0	0.0
7 10 79	0.2	0.02	0.0	0.00	55	0.0	0.03	0.0	2.8	0.10	21	0.0	0.0	7.3	0.04	0.0	6.0	0.1	0.1	0.2

TABLE 24. WATER QUALITY FOR SITE 9036 BRAXTON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
2 15 78	1	0.09			4	433	281	1.29	7.3		16	19	0	26	150	0.2					
3 22 78	11	0.07			4	460	277	1.40	7.3		16	20	0	26	150	0.1					
4 12 78	19	0.01	12		20	471	279	1.24	7.1		22	27	0	30	140	0.0					
5 8 78	14	0.1	960*		2400	369	187	1.18	7.5		30	37	0	15	96	0.1					
6 8 78	18	0.09	449*			434	269	1.73	7.6		50	61	0	22	120	0.3					
7 7 78	20	0.025	51*		4	434	270	1.83	7.8		44	54	0	11	130	0.1					
8 8 78	22	0.05	69*		8	337	185	1.02	7.5		24	29	0	20	94	0.1					
9 14 78	22	0.007	36*		4	454	263	1.50	7.7		49	60	0	8.4	130	0.2					
10 24 78	13	0.001	35*		25	492	325	1.42	7.9	-50	53	64	0	32	150	0.0					
12 6 78	9	0.03	5		5	361	195	1.39	7.7		19	23	0	16	98	0.0					
1 15 79	2	0.03	12		3	379	233	1.25	7.2		11	14	0	22	120	0.1					
2 15 79	1	0.02	11		6	315	204	1.40	6.9	-12	12	15	0	17	110	0.3					
3 11 79	4	0.05	12		2	382	246	1.24	6.9	-10	11	14	0	20	140	0.0					
4 26 79	15	0.01			20	459	305	1.10	7.4		18	22	0	28	170	0.0					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
2 15 78	0.1	0.03			47	0.1	0.01	0.0	2.8		27	0.0		6.4	0.04	0.1	3.9		0.1	0.0
3 22 78	0.1	0.00			49	0.0	0.00	0.2	2.9		27	0.2		7.1	0.01	0.0	4.2		0.1	0.0
4 12 78	0.1	0.00	0.0	0.00	47	0.0	0.00	0.1	2.7	0.15	22	0.1	0.0	6.7	0.01	0.0	5.2	0.2	0.0	0.0
5 8 78	0.1	0.01			31	0.0	0.00	0.1	1.9		12	0.3		4.2	0.01	0.0	3.4		0.0	0.0
6 8 78	0.1	0.01			53	0.0	0.01	0.1	3.0		23	0.5		6.9	0.02	0.0	4.7		0.0	0.0
7 7 78	0.1	0.02	0.0	0.00	58	0.0	0.00	0.2	2.8	0.20	24	0.6	0.0	5.8	0.05	0.1	5.0	0.2	0.0	0.0
8 8 78	0.1	0.03			28	0.1	0.01	0.2	2.2		11	0.6		4.3	0.06	0.2	4.4		0.1	0.1
9 14 78	0.1	0.01	0.0	0.00	50	0.0	0.00	0.1	3.3	0.45	19	0.9	0.0	5.7	0.02	0.1	5.2	0.3	0.0	0.0
10 24 78	0.1	0.02	0.0	0.00	64	0.0	0.00	0.1	3.6	0.30	23	0.8	0.0	6.1	0.03	0.1	4.8	0.2	0.1	0.0
12 6 78	0.1	0.00			38	0.0	0.00	0.0	2.2		14	0.4		4.3	0.02	0.1	4.8		0.1	0.0
1 15 79	0.1	0.00			45	0.0	0.00	0.1	2.0		17	0.4		4.9	0.03	0.1	4.8		0.1	0.0
2 15 79	0.1	0.00			43	0.0	0.01	0.0	2.0		15	0.2		4.5	0.01	0.0	3.3		0.0	0.0
3 11 79	0.1	0.01			45	0.0	0.01	0.0	2.0		20	0.2		5.3	0.03	0.0	4.0		0.0	0.1
4 26 79	0.1	0.01			53	0.0	0.00	0.0	2.8		20	0.0		7.3	0.02	0.1	5.0		0.1	0.0

TABLE 25. WATER QUALITY FOR SITE 9041 BROOKE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 20 77	18	0.02			25	524	317	5.66	8.1		197	236	2	4.0	58	0.1					
11 3 77	13	0.1			20	508	344	4.90	8.3		230	273	4	5.1	66	0.0					
1 4 78	0	0.7			4	659	317	3.35	8.5		198	232	5	4.7	79	1.2					
2 23 78	2	0.1			0	492			8.2					4.6	77	1.0					
3 23 78	8	0.9			40	416	260	3.34	8.3		148	176	2	3.7	68	1.6					
4 20 78	8	1.0	5		40	389	258	3.09	7.7		146	177	1	4.2	69	1.4					
5 31 78	17	0.8			40	487	317	3.23	8.0		166	199	1	3.7	90	1.4					
6 29 78	20	1.0	63*			487			8.1					3.2	92	0.9					
8 24 78	18	0.02	16*		35	457	272	3.65	8.3		140	167	2	3.0	72	0.6					
9 28 78	13	0.009	49*		30	531	304	3.85	8.2		205	245	2	4.4	67	0.3					
10 31 78	5	0.05	103		5	500	306	4.32	8.3		198	235	3	3.6	64	0.8					
12 6 78	3	0.3	56		7	404	237	3.48	8.4		127	150	2	3.0	59	1.8					
3 16 79	0	0.3	102		10	473	284	3.53	8.1		160	192	2	3.9	75	0.8					
4 19 79	9	0.25	86	0.00	50	451	266	3.33	8.4		145	171	3	3.3	69	1.6					
6 21 79	20	0.2				456	254	4.13	8.6		161	187	5	2.9	54	1.1					
7 26 79	23	0.4	80	4.5	130	518	272	4.56	8.0	-150	171	206	1	3.8	55	1.4	0.1	0.20	0.00	0.00	0.01
8 16 79	14	0.025			85	562	307	4.46	8.2		193	230	2	3.8	63	1.4	0.2	0.06	1.05	0.70	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR									MILLIGRAMS PER LITER											
9 20 77	0.1	0.04			81	0.0	0.00	0.0	2.6		29	0.0		11	0.00	0.0	5.0		0.1	0.2
11 3 77	0.1	0.08	0.1	0.00	82	0.0	0.00	0.1	2.7	0.25	25	0.0	0.0	14	0.01	0.0	4.4	0.4	0.0	0.1
1 4 78	0.0	0.01	0.1	0.00	64	0.0	0.00	0.0	1.5	0.35	27	0.0	0.0	7.0	0.00	0.0	4.1	0.5	0.0	0.0
2 23 78	0.1	0.02			63	0.1	0.02	0.0	2.0		30	0.0		7.9	0.06	0.1	2.8		0.2	0.0
3 23 78	0.1	0.00			55	0.0	0.00	0.2	1.8		23	0.0		5.3	0.01	0.0	3.4		0.1	0.0
4 20 78	0.1	0.02	0.1	0.00	56	0.0	0.00	0.0	1.6	0.20	20	0.1	0.0	4.7	0.01	0.0	3.8	0.4	0.0	0.0
5 31 78	0.1	0.02			72	0.0	0.00	0.0	2.0		28	0.0		6.3	0.03	0.0	4.3		0.1	0.0
6 29 78	0.1	0.03	0.1	0.00	66	0.0	0.00	0.1	2.0	0.25	29	0.0	0.0	6.1	0.01	0.0	4.6	0.4	0.0	0.0
8 24 78	0.2	0.06			69	0.0	0.01	0.1	2.0		23	0.0		5.0	0.05	0.3	4.7		0.2	0.1
9 28 78	0.2	0.03			67	0.0	0.00	0.2	2.2		22	0.0		6.7	0.02	0.1	4.7		0.1	0.0
10 31 78	0.2	0.03			77	0.0	0.01	0.0	2.0		21	0.0		6.8	0.02	0.1	4.4		0.0	0.0
12 6 78	0.1	0.03	0.1	0.00	58	0.0	0.00	0.0	1.7	0.30	16	0.0	0.0	4.8	0.02	0.1	4.4	0.3	0.0	0.0
3 16 79	0.1	0.01			68	0.0	0.00	0.0	1.4		25	0.0		4.8	0.01	0.0	3.4		0.1	0.1
4 19 79	0.2	0.01	0.1	0.00	65	0.1	0.01	0.0	1.4	0.40	19	0.0	0.0	4.0	0.04	0.2	3.8	0.3	0.1	0.0
6 21 79	0.1	0.02	0.1	0.00	61	0.0	0.01	0.1	2.2	0.30	18	0.0	0.0	4.8	0.01	0.0	4.1	0.4	0.1	0.0
7 26 79	0.2	0.05			70	0.1	0.01	0.3	1.6		21	0.0		3.7	0.04	0.3	2.7		0.5	0.0
8 16 79	0.1	0.04			78	0.0	0.01	0.0	2.0		22	0.0		6.2	0.00	0.1	4.2		0.0	0.0

TABLE 26. WATER QUALITY FOR SITE 9042 BROOKE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORT-PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 20 77	19	0.02			10	651	443	1.86	8.1		116	140	1	1.8	200	0.1					
11 3 77	14	0.006	77		50	578	414	1.78	8.1		116	140	1	2.0	190	0.0					
1 4 78	1	0.15			10	527	352	1.67	8.4		116	136	2	3.6	160	1.1					
2 23 78	2	0.006			3	470	255	2.40	8.0		77	93	1	3.0	99	0.2					
3 23 78	8	0.1			20	412	234	1.99	8.1		89	106	1	2.4	90	1.7					
4 20 78	11	0.3	6		45	476	297	1.71	7.7		75	90	0	3.1	140	1.5					
5 31 78	24	0.1			30	511	349	1.42	7.9		92	111	1	1.6	180	1.7					
6 29 78	26	0.15	82*			405	234	1.67	7.7		56	68	0	0.9	120	0.0					
8 24 78	21	0.01	34*		10	426	272	1.65	8.4		99	117	2	1.0	120	0.0					
9 28 78			22*		70	559	338	2.14	8.6		172	200	5	2.5	120	0.2					
10 31 78	9	0.001	2		30	647	450	1.41	8.1		116	139	1	5.5	220	4.4					
12 6 78	6	0.005	84		160	495	289	1.68	7.9	-64	75	91	0	3.9	130	1.3					
3 16 79	3	0.03				508	338	1.54	7.7		102	124	0	3.4	160	0.4					
4 19 79	16	0.01	80	0.00	25	544	357	1.91	8.2		108	129	1	2.4	160	0.1					
6 21 79	22	0.04	87		65	472	307	1.87	8.5		124	145	3	3.2	130	0.3					
7 26 79	24	0.01	13		55	607	359	1.88	8.2		131	157	2	1.7	150	0.4	0.9	0.01	0.40	0.00	0.1[illegible]
8 16 79	18	0.0015	4		20	483	294	1.59	8.3	-76	89	105	1	1.4	140	0.1	0.0	0.26	1.95	0.70	0.0[illegible]

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 20 77	0.1	0.02			140	0.0	0.01	2.9	2.0		11	0.9		5.6	0.00	0.0	2.9		0.0	0.[illegible]
11 3 77	0.1	0.04	0.1	0.00	120	0.0	0.00	1.5	2.1	0.35	10	1.0	0.0	5.6	0.01	0.0	2.5	0.2	0.0	0.[illegible]
1 4 78	0.1	0.00	0.1	0.00	95	0.0	0.00	0.5	2.1	0.50	9.0	0.6	0.0	3.4	0.00	0.0	2.5	0.3	0.0	0.[illegible]
2 23 78	0.1	0.02			80	0.0	0.00	0.9	0.8		10	1.2		4.2	0.02	0.1	3.8		0.1	0.[illegible]
3 23 78	0.1	0.00			64	0.0	0.01	0.4	1.8		6.1	0.4		3.4	0.01	0.0	2.2		0.0	0.[illegible]
4 20 78	0.1	0.01	0.0	0.00	87	0.0	0.00	0.0	2.1	0.30	7.9	0.1	0.0	3.4	0.01	0.0	0.5	0.2	0.0	0.[illegible]
5 31 78	0.2	0.03			89	0.1	0.01	0.5	2.9		8.5	0.2		4.4	0.03	0.1	1.4		0.1	0.[illegible]
6 29 78	0.1	0.02	0.0	0.00	68	0.0	0.00	0.0	2.3	0.20	6.0	0.0	0.0	2.7	0.00	0.0	1.8	0.2	0.0	0.[illegible]
8 24 78	0.1	0.03			71	0.0	0.01	0.1	4.0		6.0	0.1		2.3	0.02	0.1	2.2		0.1	0.[illegible]
9 28 78	0.2	0.03			90	0.0	0.01	0.1	4.2		8.7	0.1		2.9	0.01	0.1	1.9		0.0	0.[illegible]
10 31 78	0.3	0.03			120	0.0	0.02	0.1	6.2		8.6	0.0		3.8	0.03	0.1	0.8		0.1	0.[illegible]
12 6 78	0.4	0.03	0.1	0.00	83	0.0	0.01	0.2	5.3	0.40	6.0	0.2	0.0	2.1	0.03	0.2	1.4	0.2	0.2	0.[illegible]
3 16 79	0.1	0.01			92	0.0	0.01	0.3	2.2		6.8	0.1		3.1	0.02	0.0	2.2		0.0	0.[illegible]
4 19 79	0.2	0.02	0.1	0.00	110	0.0	0.01	0.3	2.1	0.55	8.5	0.2	0.0	3.1	0.03	0.1	1.3	0.2	0.1	0.[illegible]
6 21 79	0.1	0.03			83	0.0	0.01	0.3	3.0		8.2	0.6		3.0	0.01	0.1	2.0		0.0	0.[illegible]
7 26 79	0.1	0.04	0.1	0.00	100	0.0	0.03	0.4	2.1	0.25	8.2	0.4	0.0	3.7	0.00	0.1	1.6	0.2	0.0	0.[illegible]
8 16 79	0.1	0.05			83	0.1	0.02	0.2	3.3		5.2	0.1		1.6	0.03	0.2	1.5		0.3	0.[illegible]

TABLE 27. WATER QUALITY FOR SITE 9043 BROOKE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 20 77	15	0.08			45	1690	1400	1.29	8.1		97	115	1	8.4	870	0.5					
11 3 77	14	0.04	27		50	1730	1450	1.07	8.0		85	102	1	8.4	960	0.0					
1 4 78	3	0.08			2	2070	1320	1.06	8.1		100	119	1	11	870	0.3					
2 23 78	6	0.2			0	1690	1110	1.28	8.1		75	89	1	14	700	0.1					
3 23 78	8	0.7			4	1490	1160	1.16	8.1		109	130	1	20	730	1.8					
4 20 78	10	0.5	7		0	1450	1100	1.23	7.7		79	95	0	16	690	0.3					
5 31 78	14	0.9			5	1410	1130	1.12	7.9		127	153	1	14	720	0.8					
6 29 78	17	0.7	77*			1430	1050	1.31	8.1		64	76	1	14	650	0.1					
8 24 78	15	0.03	28*		8	1490	1150	1.31	8.4		104	122	2	8.6	700	0.0					
9 28 78	13	0.05	82*		30	1700	1360	1.30	8.2		102	122	2	9.1	850	0.1					
10 31 78	8	0.04	36		2	1590	1200	1.15	8.1		160	191	2	9.3	750	0.1					
12 6 78	6	0.03	62		25	1560	1170	1.16	8.3		91	107	2	16	750	0.3					
3 16 79	6	0.03	50		0	1370	1120	1.24	8.2		126	150	2	12	690	0.4					
4 19 79	9	0.09	78	0.00	10	1360	1110	1.25	8.1		120	143	1	13	680	0.3					
6 21 79	21	0.1	42*		8	1460	1160	0.94	8.2		99	118	2	12	790	0.2					
7 26 79	20	0.15	27		20	1520	1080	0.96	8.2		103	123	2	9.7	730	0.1	0.0	0.02	0.00	0.00	0.01
8 16 79	14	0.07	15		15	1640	1190	0.95	8.3		117	138	2	12	790		0.0	0.11	1.10		0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 20 77	0.2	0.17			210	0.0	0.01	0.1	6.1		83	0.7		140	0.00	0.1	5.9		0.2	0.0
11 3 77	0.2	0.20	0.0	0.00	190	0.0	0.00	0.1	5.4	0.65	70	0.6	0.0	150	0.03	0.1	5.8	3.0	0.1	0.0
1 4 78	0.2	0.13	0.0	0.00	170	0.0	0.00	0.3	4.9	1.0	78	1.0	0.0	100	0.06	0.1	5.0	3.5	0.3	0.0
2 23 78	0.2	0.12			160	0.1	0.01	0.1	4.7		76	0.6		110	0.07	0.2	3.4		0.3	0.0
3 23 78	0.2	0.11			160	0.0	0.00	0.4	4.6		74	0.6		89	0.03	0.0	4.6		0.2	0.0
4 20 78	0.2	0.13	0.0	0.00	160	0.0	0.00	0.2	4.2	0.55	75	0.6	0.0	89	0.03	0.1	4.7	2.2	0.2	0.0
5 31 78	0.2	0.13			150	0.0	0.00	0.2	4.4		69	0.4		86	0.04	0.1	4.2		0.2	0.1
6 29 78	0.2	0.13	0.0	0.00	150	0.0	0.00	0.1	5.1	0.55	75	0.4	0.0	96	0.04	0.1	5.4	1.9	0.2	0.0
8 24 78	0.3	0.16			180	0.0	0.01	0.1	5.2		71	0.5		100	0.06	0.3	5.7		0.2	0.0
9 28 78	0.3	0.15			210	0.0	0.00	0.2	6.2		81	0.5		130	0.05	0.3	5.5		0.1	0.0
10 31 78	0.4	0.16			170	0.0	0.01	0.2	4.6		67	0.7		87	0.07	0.2	5.3		0.2	0.1
12 6 78	0.3	0.13	0.0	0.00	180	0.0	0.00	1.8	4.9	0.80	74	1.0	0.0	76	0.06	0.2	5.9	2.3	0.2	0.0
3 16 79	0.3	0.11			180	0.0	0.00	0.1	4.3		70	0.2		70	0.04	0.2	3.9		0.3	0.1
4 19 79	0.2	0.11	0.1	0.00	190	0.0	0.00	0.1	4.7	1.0	66	0.2	0.0	70	0.02	0.1	3.6	2.5	0.2	0.0
6 21 79	0.3	0.13	0.1	0.00	160	0.0	0.00	0.2	4.2	0.01	60	0.4	0.0	62	0.05	0.2	4.4	0.0	0.2	0.0
7 26 79	0.3	0.13			150	0.0	0.00	0.1	4.0		55	0.5		60	0.04	0.2	4.3		0.3	0.0
8 16 79	0.3	0.13			160	0.0	0.00	0.1	4.2		62	0.4		63	0.04	0.2	4.3		0.2	0.0

TABLE 28. WATER QUALITY FOR SITE 9050 CLAY COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
4 25 79	17	0.025			60	43	36	1.00	6.3		2	2	0	1.7	17	0.2					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
4 25 79	0.0	0.00			2.5	0.0	0.00	0.0	1.8		2.5	0.0		0.8	0.01	0.0	3.5		0.0	0.0

TABLE 29. WATER QUALITY FOR SITE 9051 CLAY COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
4 18 78	10	0.1	47*		4	36	27	1.27	6.3		1	1	0	0.9	13	0.3					
5 10 78	14	0.2	21*		8	37	26	1.18	6.1		1	1	0	0.6	12	0.3					
6 14 78	14	0.25			0	39	28	0.96	6.2		2	2	0	0.6	10	0.9					
7 11 78	17	0.15	46*		4	39	30	1.50	6.4		2	3	0	0.8	12	0.4					
9 26 78	12	0.0015	28*		4	44	30	1.27	6.3		2	3	0		13	0.3					
10 26 78	14	0.002	38*		4	44	30	1.30	6.6	-2	4	5	0	1.0	12	0.2					
1 17 79	6	0.2	13		1	36	29	1.00	5.4	1	0	0	0	0.6	15	0.4					
2 17 79	3	0.4	24		0	38	25	1.09	5.9		1	1	0	0.7	12	0.4					
3 13 79	7	0.2	2		1	37	23	1.12	5.8	4	0	0	0	0.8	11	0.3					
4 25 79	14	0.03	17	0.00	0	37	27	1.34	6.0	3	1	1	0	0.6	12	0.3					
6 7 79	14	0.05	6		5	38	31	1.02	6.3	5	4	5	0	0.9	14	0.3					
7 12 79	16	0.01	28*		6	43	30	1.20	6.3		2	2	0	0.4	13	0.4	0.3	0.02	0.20	0.15	0.02

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
4 18 78	0.0	0.00			2.0	0.0	0.00	0.0	1.3		2.5	0.0		0.9	0.00	0.0	2.5		0.0	0.0
5 10 78	0.0	0.00			1.8	0.0	0.00	0.0	1.3		2.1	0.0		0.9	0.00	0.0	2.4		0.0	0.0
6 14 78	0.0	0.01			1.5	0.0	0.02	0.0	1.4		1.8	0.0		0.7	0.01	0.0	2.9		0.0	0.0
7 11 78	0.0	0.01	0.0	0.00	2.8	0.0	0.00	0.1	2.1	0.01	2.5	0.0	0.0	0.7	0.07	0.1	2.6	0.0	0.0	0.0
9 26 78	0.0	0.00			2.1	0.0	0.00	0.1	2.4		2.0	0.0		0.8	0.02	0.1	3.0		0.1	0.0
10 26 78	0.1	0.01	0.0	0.00	2.4	0.0	0.01	0.0	1.5	0.10	2.1	0.0	0.0	0.8	0.01	0.0	3.0	0.0	0.0	0.0
1 17 79	0.0	0.00	0.0	0.00	2.2	0.0	0.00	0.0	1.3	0.03	2.2	0.0	0.0	0.7	0.00	0.0	2.5	0.0	0.0	0.0
2 17 79	0.0	0.00			2.1	0.0	0.00	0.0	1.2		2.0	0.0		0.6	0.00	0.0	2.2		0.0	0.0
3 13 79	0.0	0.01			1.8	0.0	0.00	0.0	1.0		2.0	0.0		0.5	0.01	0.0	2.3		0.0	0.0
4 25 79	0.0	0.00	0.1	0.00	2.2	0.0	0.00	0.0	1.4	0.03	2.4	0.0	0.0	0.7	0.02	0.0	2.8	0.0	0.1	0.0
6 7 79	0.0	0.00			2.2	0.0	0.00	0.0	1.3		2.1	0.0		0.6	0.00	0.0	2.9		0.0	0.1
7 12 79	0.0	0.00	0.0	0.00	2.3	0.0	0.00	0.0	1.4	0.05	2.3	0.0	0.0	0.6	0.01	0.0	3.1	0.0	0.0	0.0

TABLE 30. WATER QUALITY FOR SITE 9052 CLAY COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 29 77	13	0.15			4	986	795	0.80	4.3		0	0	0	6.2	560	3.1					
10 28 77	14	0.15	11		4	1080	884	0.78	4.8		0	0	0	4.2	610	7.7					
3 22 78	9	0.06			4	872	652	0.82	4.0		0	0	0	2.2	460	1.9					
4 25 79	12	0.04		0.00	4	885	617	0.72	4.1		0	0	0	1.4	460	1.0					

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 29 77	10	0.04			69	0.6	0.01	0.2	9.1		73	26		3.1	0.58	0.0	9.2		0.0	1.5
10 28 77	14	0.02	0.0	0.02	76	0.8	0.01	0.8	11	0.20	77	31	0.0	3.0	0.66	0.0	8.5	0.2	0.1	0.8
3 22 78	11	0.00			47	0.6	0.01	0.7	7.5		65	32		2.1	0.52	0.0	7.4		0.0	0.7
4 25 79	8.4	0.00	0.1	0.02	47	0.4	0.01	0.4	6.4	0.65	53	18	0.0	2.0	0.37	0.1	6.3	0.4	0.2	0.4

TABLE 33. WATER QUALITY FOR SITE 9056 CLAY COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
2 22 78	1	0.4			8	31	26	1.46	6.4		2	3	0	0.7	10	0.1					
4 18 78	11	0.025	83*		7	46	34	1.39	6.7		2	3	0	2.8	14	0.2					
5 10 78	16	0.08	209*		130	36	25	1.09	6.0		1	1	0	1.5	12	0.1					
6 14 78	14	0.05			20	115	57	0.76	6.5		2	3	0	2.1	36	0.9					
7 11 78	18	0.07	100*		35	154	93	1.20	6.4		2	3	0	3.1	54	0.3					
9 26 78	12	0.007	35*		10	222	150	1.21	6.5		2	3	0	1.9	96	0.1					
10 26 78	16	0.01	32*		4	268	146	1.04	6.5	0	2	3	0	2.4	98	0.1					
1 17 79	8	0.07			160	133	114	0.94	5.6		0	0	0	2.9	72	0.4					
2 17 79	3	0.15	124		70	70	39	1.33	5.7	1	2	3	0	0.9	20	0.2					
3 13 79	10	0.15	35		15	85	59	1.13	5.7	3	0	0	0	1.4	34	0.2					
4 25 79	16	0.1			7	93	66	0.92	6.3		2	2	0	2.5	40	0.1					
6 7 79	20	0.01	13		3	128	80	1.15	6.9	2	7	8	0	1.5	46	0.1					
7 12 79	17	0.01	14		0	129	77	1.14	7.0	-3	7	9	0	3.6	41	0.3	0.5	0.01	0.15	0.10	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
2 22 78	0.0	0.02	0.1	0.00	1.8	0.0	0.00	0.0	1.4	0.00	2.0	0.0	0.0	1.1	0.02	0.0	2.8	0.0	0.1	0.0
4 18 78	0.0	0.00	0.0	0.00	2.9	0.0	0.00	0.1	1.9	0.01	3.0	0.0	0.0	1.0	0.01	0.0	2.8	0.0	0.1	0.0
5 10 78	0.0	0.00			1.6	0.0	0.00	0.0	1.3		2.0	0.0		0.7	0.00	0.0	2.6		0.0	0.0
6 14 78	0.0	0.00			4.8	0.0	0.02	0.0	2.3		4.8	0.1		0.1	0.03	0.1	0.8		0.0	0.0
7 11 78	0.1	0.01	0.0	0.00	11	0.0	0.00	0.1	3.6	0.03	9.4	0.1	0.0	1.2	0.10	0.1	3.4	0.1	0.1	0.0
9 26 78	0.1	0.00	0.1	0.00	15	0.0	0.00	0.1	3.7	0.09	19	0.2	0.0	1.6	0.03	0.0	4.4	0.1	0.2	0.1
10 26 78	0.1	0.00			15	0.0	0.00	0.0	2.6		16	0.1		1.4	0.04	0.1	3.6		0.1	0.0
1 17 79	0.5	0.00	0.0	0.00	12	0.1	0.01	0.1	2.0	0.20	8.5	0.9	0.0	3.9	0.07	0.0	3.8	0.1	0.2	0.1
2 17 79	0.1	0.00			4.1	0.0	0.00	0.0	1.6		3.7	0.1		0.9	0.01	0.0	2.3		0.0	0.0
3 13 79	0.1	0.00			5.9	0.0	0.01	0.1	2.5		5.1	0.1		1.7	0.03	0.0	3.2		0.0	0.0
4 25 79	0.0	0.00			5.6	0.0	0.00	0.0	2.1		5.7	0.0		0.9	0.01	0.0	3.6		0.0	0.0
6 7 79	0.0	0.01			8.2	0.0	0.01	0.1	2.8		7.7	0.1		1.2	0.00	0.0	3.5		0.0	0.0
7 12 79	0.0	0.01	0.1	0.00	7.1	0.0	0.01	0.1	2.8	0.07	7.4	0.4	0.0	1.2	0.01	0.0	3.7	0.0	0.0	0.0

TABLE 34. WATER QUALITY FOR SITE 9057 CLAY COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
9 29 77	13	0.07			4	76	37	1.68	6.2		7	9	0	4.3	12	0.1					
10 28 77	18	0.1	42		8	64	31	1.41	6.0		1	1	0	1.5	14	0.1					
9 26 78	13	0.04	25*		25	52	33	1.62	6.6		3	4	0	1.2	13	0.2					
10 26 78	13	0.008	13		10	58	38	1.66	6.9	-3	7	8	0	3.6	12	0.0					
6 7 79	17	0.1	25		7	45	35	1.40	6.7	4	6	7	0	1.5	14	0.1					
7 12 79	17	0.06	22*		9	47	32	1.35	6.9	0	3	4	0	0.7	14	0.1	0.2	0.01	0.50	0.25	0.01
10 22 79	15	0.15	0		8	43	29	1.44	6.5		4	5	0	2.3	12	0.0					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
9 29 77	0.0	0.00			3.7	0.0	0.00	0.0	1.5		2.2	0.0		3.0	0.00	0.0	2.7		0.0	0.0
10 28 77	0.0	0.01	0.1	0.00	3.3	0.0	0.00	0.0	1.4	0.02	2.0	0.0	0.0	1.8	0.00	0.0	2.9	0.0	0.0	0.0
9 26 78	0.1	0.00	0.0	0.00	3.2	0.0	0.01	0.1	1.6	0.02	2.6	0.0	0.0	1.4	0.01	0.0	3.3	0.0	0.0	0.0
10 26 78	0.0	0.01	0.0	0.00	3.9	0.0	0.00	0.0	2.1	0.02	2.6	0.0	0.0	1.7	0.02	0.0	3.2	0.0	0.1	0.0
6 7 79	0.1	0.01			3.5	0.0	0.00	0.0	1.5		2.5	0.0		1.1	0.00	0.0	3.0		0.0	0.1
7 12 79	0.0	0.00	0.1	0.00	3.1	0.0	0.01	0.0	1.3	0.03	2.4	0.0	0.0	0.9	0.01	0.0	3.1	0.0	0.0	0.2
10 22 79	0.1	0.01			3.0	0.0	0.03	0.0	1.9		2.3	0.0		1.0	0.02	0.1	1.7		0.1	0.0

TABLE 35. WATER QUALITY FOR SITE 9061 FAYETTE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 30 77	12	0.03			4	91	53	1.79	6.5		14	17	0	1.2	19	0.3					
11 1 77	12	0.01	0		4	90	54	1.65	6.0		12	15	0	1.1	22	0.2					
4 19 78	12	0.05			8	77	48	1.39	7.0		6	7	0	1.8	22	0.2					
5 11 78	15	0.25	26*		10	74	46	1.25	6.9		5	6	0	1.4	22	0.3					
6 14 78	15	0.02			8	73	45	1.52	6.9		7	9	0	1.0	19	0.4					
7 13 78	17	0.0000	29*		4	73	54	1.77	6.9		15	18	0	1.4	19	0.5					
8 10 78	18	0.004	13		7	76	49	1.56	7.0		9	11	0	0.5	19	0.6					
9 27 78	18	0.007	19*		10	87	54	1.62	7.2		15	18	0	1.4	20	0.3					
11 8 78	14	0.002	9		10	81	53	1.76	7.4	-10	16	19	0	1.5	19	0.2					
2 20 79	1	0.2	4		20	70	43	1.44	6.8	2	4	5	0	1.4	19	0.3					
3 27 79	6	0.25			4	69	45	1.23	6.6	1	2	3	0	1.7	21	0.4					
5 4 79	14	0.25	6	0.00	30	70	52	1.34	7.0	-1	7	8	0	1.3	23	0.3					
6 19 79	16	0.04	25		9	76	52	1.31	7.2	-4	9	11	0	1.8	22	0.3					
8 9 79	18	0.0015	1		8	83	55	1.54	7.3	-6	11	13	0	1.0	22	0.4	0.0	0.02	0.75	0.00	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 30 77	0.0	0.00			6.0	0.0	0.00	0.0	2.0		3.4	0.0		3.0	0.00	0.0	4.1		0.0	0.0
11 1 77	0.0	0.01	0.0	0.00	6.0	0.0	0.00	0.0	2.0	0.04	3.8	0.0	0.1	2.8	0.01	0.0	3.9	0.1	0.0	0.0
4 19 78	0.0	0.00	0.0	0.00	4.4	0.0	0.01	0.0	2.0	0.03	3.8	0.0	0.0	2.6	0.01	0.0	3.4	0.0	0.0	0.0
5 11 78	0.0	0.00			4.4	0.0	0.00	0.0	1.6		3.5	0.0		1.9	0.01	0.0	3.5		0.0	0.0
6 14 78	0.0	0.00			4.8	0.0	0.00	0.0	1.8		3.5	0.0		2.2	0.01	0.1	3.0		0.1	0.0
7 13 78	0.0	0.01	0.0	0.00	5.7	0.0	0.00	0.0	2.2	0.01	4.0	0.0	0.0	2.2	0.00	0.0	4.1	0.0	0.1	0.0
8 10 78	0.0	0.01			4.7	0.0	0.01	0.0	2.1		3.4	0.0		2.2	0.01	0.0	4.2		0.0	0.0
9 27 78	0.0	0.00	0.0	0.00	5.4	0.0	0.00	0.0	2.1	0.06	3.7	0.0	0.0	2.1	0.00	0.0	4.4	0.0	0.0	0.0
11 8 78	0.0	0.01			5.7	0.0	0.00	0.0	1.9		3.8	0.0		2.3	0.00	0.0	4.0		0.0	0.0
2 20 79	0.0	0.00	0.0	0.00	4.8	0.0	0.00	0.0	1.4	0.05	3.6	0.0	0.0	1.6	0.00	0.0	3.4	0.0	0.0	0.0
3 27 79	0.0	0.00	0.0	0.00	4.4	0.0	0.01	0.0	1.6	0.06	3.4	0.0	0.0	1.9	0.01	0.0	3.4	0.0	0.0	0.0
5 4 79	0.1	0.00			5.0	0.0	0.01	0.1	1.8		3.9	0.0		2.1	0.01	0.0	4.1		0.1	0.0
6 19 79	0.0	0.01			5.0	0.0	0.00	0.0	1.9		3.5	0.0		1.9	0.00	0.0	4.4		0.0	0.1
8 9 79	0.1	0.01			5.7	0.0	0.02	0.0	2.6		3.6	0.0		2.4	0.01	0.0	4.4		0.0	0.0

TABLE 36. WATER QUALITY FOR SITE 9062 FAYETTE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 30 77	13	0.015			100	506	395	1.38	7.2		62	76	0	2.0	220	1.6					
11 1 77	12	0.3	20		15	419	239	1.72	6.7		57	70	0	1.8	120						
3 23 78	10	0.2			20	482	293	1.39	7.0		44	54	0	1.8	170	1.3					
4 19 78	11	0.05			7	547	343	1.43	8.2		61	72	1	2.1	190	1.8					
5 11 78	17	0.15	24*		20	449	304	1.04	8.0		43	51	0	1.7	190	1.5					
6 14 78	20	0.15			40	642	433	1.10	7.9		60	72	0	1.8	280	1.8					
7 12 78	29	0.15	54*		4	692	468	1.36	8.0		59	71	0	3.1	280	1.4					
8 10 78	18	0.002	41*		15	651	430	1.28	7.9		43	52	0	2.2	270	1.6					
9 27 78	18	0.008	44*		15	740	588	1.25	8.1		69	82	1	1.8	370	0.7					
11 8 78	14	0.01	8		25	804	599	1.12	7.9	-79	85	103	1	2.1	380	0.6					
2 20 79	4	0.4			0	580	400	1.33	7.8	-43	39	47	0	1.6	250	1.4					
3 27 79	6	0.2			5	499	370	1.19	7.8	-35	39	48	0	1.2	230	1.2					
5 4 79	14	0.2	2	0.00	15	512	377	1.36	7.7	-42	47	57	0	1.3	230	0.9					
6 19 79	20	0.02	12		10	757	438	1.40	7.9	-61	66	79	0	2.2	260	1.0					
8 9 79	31	0.01	4	0.00	8	834	483	1.41	8.2	-54	61	73	1	1.3	290	1.0	0.1	0.02	0.65	0.00	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 30 77	0.1	0.00			64	0.0	0.00	0.1	3.6		33	0.1		15	0.01	0.0	3.7		0.0	0.0
11 1 77	0.1	0.02	0.1	0.00	37	0.0	0.00	0.0	4.4	0.25	25	0.0	0.0	6.8	0.01	0.0	2.9	0.3	0.0	0.0
3 23 78	0.0	0.00			41	0.0	0.00	0.0	3.0		33	0.2		4.8	0.01	0.0	3.1		0.0	0.0
4 19 78	0.1	0.00	0.1	0.00	48	0.0	0.01	0.0	4.4	0.15	38	0.1	0.0	6.8	0.01	0.0	2.6	0.2	0.1	0.0
5 11 78	0.1	0.00			33	0.0	0.00	0.1	3.0		29	0.1		4.6	0.02	0.0	3.0		0.1	0.0
6 14 78	0.2	0.01			59	0.0	0.00	0.1	4.3		38	0.2		6.3	0.02	0.2	1.8		0.2	0.0
7 12 78	0.1	0.01	0.1	0.00	74	0.0	0.01	0.1	5.6	0.25	49	0.0	0.0	6.6	0.00	0.1	1.4	0.3	0.1	0.0
8 10 78	0.1	0.02			66	0.0	0.01	0.1	5.5		43	0.1		7.0	0.03	0.1	2.8		0.1	0.0
9 27 78	0.2	0.00	0.1	0.00	94	0.0	0.00	0.1	4.8	0.50	58	0.3	0.0	6.5	0.03	0.1	2.4	0.4	0.2	0.0
11 8 78	0.2	0.01			89	0.0	0.01	0.1	4.8		51	0.0		7.6	0.04	0.1	2.5		0.1	0.0
2 20 79	0.2	0.01			66	0.0	0.01	0.1	3.2		41	0.1		4.6	0.04	0.2	3.2		0.5	0.0
3 27 79	0.2	0.00	0.0	0.00	56	0.0	0.01	0.1	3.4	0.20	35	0.1	0.0	4.7	0.05	0.1	3.4	0.2	0.2	0.0
5 4 79	0.1	0.00			62	0.0	0.00	0.1	3.3		39	0.0		4.7	0.01	0.0	2.8		0.1	0.0
6 19 79	0.2	0.01			70	0.0	0.04	0.1	5.8		44	0.0		8.8	0.04	0.1	2.6		0.2	0.1
8 9 79	0.2	0.01			78	0.0	0.00	0.1	4.1		54	0.0		6.1	0.03	0.2	2.9		0.2	0.0

TABLE 37. WATER QUALITY FOR SITE 9063 FAYETTE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L				MILLIGRAMS PER LITER										
9 30 77	16	0.3			8	458	259	1.65	7.6		75	92	0	1.5	130	0.1					
11 1 77	13	0.09	0		4	574	362	1.64	7.7		75	91	0	1.4	190	0.1					
12 8 77	5	0.25	17*		8	400	236	1.58	7.3		49	60	0	1.6	130	0.5					
1 16 78	1	0.5			0	464	292	1.52	7.9		63	76	0	1.5	160	0.4					
2 24 78	2	1.0			4	475	335	1.45	7.9		48	58	0	1.4	200	0.3					
3 23 78	12	1.0			15	461	281	1.45	7.3		51	62	0	1.3	160	0.4					
4 19 78	14	0.3			9	502	317	1.21	8.1		57	68	1	1.4	190	0.3					
5 11 78	18	0.4	21*		10	408	238	1.54	8.1		52	63	0	1.1	130	0.4					
6 14 78	15	0.7			8	558	357	1.33	8.0		69	83	1	0.9	210	0.1					
7 12 78	22	0.5	29*		4	572	394	1.47	8.1		72	87	1	1.4	220	0.2					
8 10 78	18	0.04	31*		7	561	347	1.62	8.1		68	82	1	1.5	190	0.1					
9 27 78	18	0.05	27*		10	592	426	1.26	8.2		75	90	1	1.6	260	0.1					
11 8 78	13	0.07	3		5	623	446	1.35	7.5	-77	86	105	0	1.5	260	0.0					
12 20 78	9	0.25	6		8	489	307	1.53	7.7	-46	52	64	0	1.3	170	0.2					
1 18 79	5	0.3	6		3	471	348	1.44	7.7		45	55	0	1.1	200	0.4					
2 20 79	4	0.3	6		1	425	300	1.36	7.6	-40	40	49	0	0.8	180	0.5					
3 27 79	7	0.25			1	394	261	1.45	7.9	-40	43	51	0	0.9	150	0.5					
5 4 79	13	1.0	9	0.00	25	410	298	1.52	7.7	-41	48	58	0	1.1	170	0.4					
6 19 79	20	0.04	9		15	524	372	1.57	7.8		62	75	0	1.3	210	0.2					
7 18 79	18	0.15	12		25	499	335	1.39	8.1	-63	69	83	1	1.2	190	0.4	0.0	0.00	0.55	0.05	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 30 77	0.1	0.00			46	0.0	0.00	0.1	4.6		21	0.7		7.5	0.01	0.0	2.5		0.0	0.1
11 1 77	0.1	0.00	0.1	0.00	58	0.0	0.00	0.0	3.7	0.35	37	0.0	0.0	14	0.01	0.0	3.9	0.7	0.0	0.0
12 8 77	0.0	0.00			32	0.0	0.00	0.1	2.7		28	0.0		5.6	0.01	0.0	3.4		0.0	0.0
1 16 78	0.0	0.00			40	0.0	0.00	0.0	2.3		34	0.1		6.9	0.00	0.0	2.9		0.0	0.0
2 24 78	0.0	0.02			46	0.0	0.01	0.1	3.1		40	0.0		7.9	0.02	0.0	3.3		0.1	0.0
3 23 78	0.0	0.00			33	0.0	0.00	0.1	3.2		35	0.0		6.7	0.01	0.0	3.2		0.0	0.0
4 19 78	0.1	0.00	0.1	0.00	34	0.0	0.01	0.0	3.9	0.15	34	0.1	0.0	8.5	0.01	0.0	2.8	0.4	0.1	0.0
5 11 78	0.0	0.01			31	0.0	0.00	0.1	2.8		28	0.0		5.7	0.01	0.0	3.0		0.0	0.0
6 14 78	0.0	0.00			47	0.0	0.00	0.1	3.5		37	0.0		9.2	0.01	0.0	3.2		0.1	0.0
7 12 78	0.1	0.01	0.1	0.00	59	0.0	0.01	0.1	4.2	0.15	42	0.0	0.0	9.8	0.00	0.2	3.4	0.4	0.2	0.0
8 10 78	0.1	0.01			53	0.0	0.01	0.1	4.6		37	0.0		13	0.03	0.1	4.2		0.1	0.0
9 27 78	0.1	0.00	0.1	0.00	57	0.0	0.00	0.0	3.8	0.35	41	0.1	0.0	12	0.02	0.1	3.7	0.5	0.1	0.0
11 8 78	0.2	0.00			66	0.0	0.00	0.0	3.6		39	0.0		16	0.02	0.1	4.0		0.1	0.0
12 20 78	0.2	0.01			50	0.0	0.01	0.1	3.2		33	0.1		6.6	0.05	0.1	3.7		0.1	0.0
1 18 79	0.1	0.00			59	0.0	0.00	0.0	3.8		34	0.0		8.3	0.01	0.0	4.0		0.0	0.0
2 20 79	0.1	0.00			49	0.0	0.01	0.0	2.9		29	0.0		5.9	0.02	0.0	3.0		0.1	0.0
3 27 79	0.1	0.00	0.0	0.00	42	0.0	0.01	0.1	2.9	0.20	27	0.0	0.0	5.0	0.04	0.1	3.0	0.3	0.2	0.0
5 4 79	0.1	0.00			48	0.0	0.01	0.1	2.6		34	0.0		5.0	0.03	0.1	2.6		0.2	0.0
6 19 79	0.1	0.01			61	0.0	0.00	0.0	3.7		41	0.0		8.1	0.00	0.1	4.1		0.1	0.1
7 18 79	0.1	0.01	0.2	0.00	52	0.0	0.01	0.2	3.3	0.25	31	0.0	0.1	7.0	0.00	0.0	3.6	0.4	0.1	0.3

TABLE 38. WATER QUALITY FOR SITE 9065 FAYETTE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
6 29 77	19	0.6			20	1690	1220	1.00	6.0		19	23	0	1.8	890	0.3					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
6 29 77	0.2	0.02			150	0.1	0.02	0.1	9.9		110	0.1		31	0.07	0.4	5.9		0.3	0.0

TABLE 39. WATER QUALITY FOR SITE 9066 FAYETTE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
6 29 77	23	0.25			110	1430	1010	0.72	3.5		0	0	0	1.6	750	1.0					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
6 29 77	21	0.01			92	0.2	0.11	1.3	9.6		76	7.5		7.9	0.38	0.0	18		0.1	0.7

TABLE 40. WATER QUALITY FOR SITE 9069 FAYETTE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
6 29 77	18	0.8			20	611	313	0.93	4.3		0	0	0	3.4	210	1.4					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
6 29 77	2.0	0.00			31	0.0	0.02	0.0	7.7		28	1.0		6.2	0.01	0.0	8.2		0.0	0.5

TABLE 41. WATER QUALITY FOR SITE 9071 GILMER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
9 1 77	21	0.02			20	124	67	6.32	7.1		40	49	0	0.8	9	0.1					
10 19 77	9	0.04	25		10	87	49	2.63	7.0		26	32	0	1.6	12	0.1					
11 22 77	8	0.04	47		8	92	67	2.06	7.6		22	27	0	1.0	24	0.0					
1 4 78	0	0.03			6	76	50	2.57	7.6		24	29	0	1.4	14	0.1					
2 14 78	0	0.2			0	93	52	2.30	7.5		22	27	0	1.1	15	0.1					
3 17 78	5	0.7			10	74	43	2.03	6.9		10	12	0	1.1	15	0.1					
4 12 78	16	0.03	8		0	97	60	3.17	7.7		31	38	0	1.1	14	0.0					
5 8 78	13	0.15	32*		30	81	50	2.62	7.4		20	25	0	1.1	14	0.1					
6 8 78	18	0.1			20	97	62	3.07	7.2		32	39	0	0.6	15	0.1					
7 7 78	24	0.2	35*		8	89	61	3.64	7.6		30	36	0	0.9	13	0.1					
8 8 78	21	0.004	16*		15	92	60	3.17	7.6		31	38	0	0.4	14	0.2					
9 14 78	22	0.04	20*		4	92	63	3.13	7.4		29	35	0	0.8	16	0.1					
10 24 78	13	0.004	14		35	168	96	3.77	7.7	-35	39	48	0	16	14	0.3					
12 6 78	10	0.1	3		5	68	50	2.16	7.6		15	18	0	0.8	16	0.1					
1 15 79	2	0.2	12		3	62	41	1.78	7.1		10	12	0	1.4	15	0.1					
2 15 79	0	0.25	40		35	77	53	1.60	6.9	-11	11	14	0	0.8	22	0.5					
3 11 79	4	0.2	13		8	71	49	1.95	7.2	-10	17	21	0	1.5	16	0.1					
4 26 79	15	0.03	37	0.00	15	94	63	3.40	7.4	-26	32	39	0	0.7	15	0.1					
6 4 79	17	0.004	16		15	96	63	3.24	7.2	-23	30	37	0	0.8	15	0.2					
7 10 79	18	0.0005	15		7	116	71	3.87	7.7		39	47	0	1.0	14	0.2	0.1	0.00	1.10	0.05	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
9 1 77	0.0	0.02			12	0.0	0.00	0.0	2.1		4.1	0.0		4.9	0.00	0.0	4.2		0.0	0.0
10 19 77	0.0	0.00	0.0	0.00	7.6	0.0	0.00	0.0	1.1	0.02	2.4	0.0	0.0	2.9	0.00	0.0	2.4	0.0	0.0	0.0
11 22 77	0.0	0.00			10	0.0	0.00	0.1	1.7		3.4	0.0		5.1	0.00	0.0	3.8		0.0	0.0
1 4 78	0.0	0.00	0.0	0.00	7.6	0.0	0.00	0.0	0.1	0.07	3.1	0.0	0.0	3.2	0.00	0.0	3.0	0.1	0.0	0.0
2 14 78	0.0	0.00			6.2	0.1	0.01	0.0	1.2		2.9	0.0		3.4	0.03	0.1	3.7		0.0	0.0
3 17 78	0.0	0.01			6.5	0.0	0.00	0.1	1.0		2.7	0.0		2.8	0.00	0.0	3.3		0.0	0.0
4 12 78	0.1	0.00	0.0	0.00	8.7	0.0	0.00	0.1	1.7	0.02	3.6	0.0	0.0	4.0	0.00	0.1	3.9	0.0	0.2	0.0
5 8 78	0.0	0.00			7.6	0.0	0.00	0.0	1.2		3.0	0.0		3.1	0.00	0.0	3.5		0.0	0.0
6 8 78	0.0	0.00			9.6	0.0	0.00	0.0	1.6		3.6	0.0		4.1	0.00	0.0	3.4		0.0	0.0
7 7 78	0.1	0.01	0.0	0.00	11	0.0	0.00	0.0	2.2	0.03	3.6	0.0	0.0	3.4	0.00	0.0	4.0	0.0	0.1	0.0
8 8 78	0.0	0.01			9.6	0.0	0.01	0.0	1.7		3.2	0.0		3.6	0.02	0.1	3.8		0.0	0.0
9 14 78	0.0	0.00	0.0	0.00	11	0.0	0.01	0.0	2.1	0.09	3.3	0.0	0.0	4.0	0.00	0.0	3.8	0.1	0.0	0.0
10 24 78	0.0	0.01	0.0	0.00	16	0.0	0.00	0.0	4.0	0.15	4.3	0.0	0.0	7.8	0.01	0.0	4.1	0.1	0.0	0.0
12 6 78	0.1	0.00			7.3	0.0	0.01	0.1	1.4		2.2	0.0		3.9	0.01	0.0	4.0		0.0	0.0
1 15 79	0.0	0.00			6.2	0.0	0.00	0.0	0.9		2.1	0.0		2.0	0.00	0.0	3.4		0.1	0.0
2 15 79	0.1	0.01			8.6	0.0	0.01	0.1	1.1		2.6	0.0		3.0	0.01	0.0	2.6		0.0	0.0
3 11 79	0.1	0.00			6.9	0.0	0.00	0.0	1.3		2.6	0.0		2.4	0.01	0.0	3.3		0.1	0.0
4 26 79	0.0	0.00	0.0	0.00	11	0.0	0.01	0.0	1.6	0.15	3.7	0.0	0.0	4.0	0.01	0.0	3.3	0.1	0.1	0.0
6 4 79	0.0	0.01			11	0.0	0.01	0.0	1.7		3.5	0.0		3.8	0.00	0.0	4.0		0.0	0.0
7 10 79	0.0	0.01	0.1	0.00	13	0.0	0.03	0.0	1.8	0.09	4.3	0.0	0.0	3.8	0.00	0.0	3.9	0.1	0.0	0.3

TABLE 42. WATER QUALITY FOR SITE 9072 GILMER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 1 77	28	0.08			10	513	351	1.83	8.0		99	119	1	6.2	160	1.8					
10 19 77	10	0.06	67		95	575	351	1.84	7.4		102	125	0	8.0	150	2.2					
11 22 77	8	0.09	50		55	642	457	1.63	8.1		99	119	1	7.1	230	0.7					
1 4 78	0	0.02				875	437	1.79	8.4		119	140	2	4.3	200	0.3					
2 14 78	2	0.06			0	865	608	1.16	8.2		81	97	1	3.0	380	0.2					
3 16 78	6	1.5			40	595	377	1.50	7.5		57	70	0	3.2	210	0.7					
4 12 78	17	0.04	8		0	752	507	1.38	7.9		99	120	1	2.5	280	0.1					
5 8 78	16	0.05	21*		40	559	354	1.58	8.4		97	114	2	1.9	180	0.2					
6 5 78	23	0.02			8	667	452	1.24	7.8		67	81	0	1.9	270	0.5					
7 7 78	27	0.07	57*		45	607	408	1.55	8.2		93	111	1	2.3	210	0.1					
8 8 78	22	0.08	88*		55	618	394	1.49	8.2		94	113	1	1.7	210	0.3					
9 14 78	22	0.04	47*		85	543	391	1.43	8.1		80	96	1	2.4	210	0.2					
10 24 78	14	0.04	38*		30	742	531	1.27	8.1		84	100	1	3.1	310	0.0					
12 6 78	11	0.06	38		8	756	511	1.42	8.3		104	124	2	3.8	280	0.3					
1 15 79	3	0.03	43		0	604	464	1.85	8.2		85	102	1	1.4	240	0.3					
2 15 79	2	0.07	46		15	715	455	1.81	7.6		80	97	0	1.8	230	0.6					
3 11 79	3	0.05	44		3	662	511	1.43	7.6	-83	93	113	0	2.0	290	0.3					
4 26 79	18	0.03	68	0.00	8	705	533	1.48	8.1		95	114	1	1.5	300	0.0					
6 4 79	20	0.006	9		8	671	457	1.49	8.2	-76	87	104	1	1.2	250	0.1					
7 10 79	20	0.003	46*		10	689	483	1.09	8.3	-67	72	86	1	1.5	300	0.0	0.0	0.02	0.30	0.20	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 1 77	0.1	0.02			71	0.0	0.00	0.1	4.4		20	0.0		20	0.00	0.0	2.9		0.0	0.0
10 19 77	0.1	0.01	1.3	0.00	80	0.0	0.00	0.1	4.4	0.20	21	0.9	0.0	8.2	0.01	0.0	2.6	0.3	0.0	0.0
11 22 77	0.2	0.00			100	0.0	0.00	0.1	4.6		28	2.0		13	0.02	0.0	3.9		0.1	0.0
1 4 78	0.2	0.00	0.1	0.00	95	0.0	0.00	0.2	3.5	0.50	30	3.6	0.0	11	0.03	0.0	4.7	0.5	0.0	0.0
2 14 78	0.2	0.00			110	0.1	0.02	0.2	4.1		37	4.0		13	0.08	0.1	3.3		0.1	0.0
3 16 78	0.2	0.03			81	0.0	0.03	0.3	2.9		27	1.8		7.3	0.03	0.0	3.5		0.2	0.0
4 12 78	0.2	0.00	0.1	0.00	98	0.0	0.00	0.1	3.7	0.15	34	3.0	0.1	11	0.03	0.0	4.5	0.4	0.1	0.0
5 8 78	0.1	0.01			73	0.0	0.00	0.0	2.7		23	1.0		7.4	0.03	0.0	3.0		0.0	0.0
6 5 78	0.2	0.00			83	0.0	0.00	0.2	3.1		27	1.8		13	0.03	0.0	4.3		0.1	0.0
7 7 78	0.3	0.02	0.0	0.00	84	0.0	0.00	0.2	4.5	0.30	25	1.8	0.0	12	0.00	0.1	4.1	0.3	0.1	0.0
8 8 78	0.3	0.02			82	0.0	0.02	0.1	4.1		21	1.1		10	0.04	0.1	4.1		0.1	0.0
9 14 78	0.3	0.00	0.1	0.00	81	0.0	0.01	0.2	4.7	0.50	22	1.3	0.0	9.6	0.04	0.2	3.6	0.4	0.2	0.0
10 24 78	0.5	0.02	0.1	0.00	110	0.0	0.00	0.3	3.3	0.65	27	2.3	0.0	16	0.04	0.1	4.1	0.6	0.1	0.0
12 6 78	0.3	0.00			110	0.1	0.03	0.2	4.0		25	1.3		16	0.05	0.1	4.0		0.1	0.1
1 15 79	0.3	0.01			130	0.0	0.01	0.2	3.0		30	1.1		7.1	0.05	0.2	3.2		0.2	0.0
2 15 79	0.2	0.01			120	0.0	0.01	0.2	2.8		29	1.4		10	0.05	0.1	2.9		0.2	0.0
3 11 79	0.4	0.01			120	0.0	0.00	0.1	2.7		30	1.2		7.1	0.05	0.2	3.2		0.1	0.0
4 26 79	0.3	0.02	0.1	0.00	120	0.0	0.00	0.1	3.4	0.55	33	1.8	0.0	11	0.03	0.1	2.6	0.5	0.1	0.0
6 4 79	0.3	0.01			100	0.1	0.02	0.1	2.9		28	1.5		9.9	0.00	0.1	3.4		0.1	0.0
7 10 79	0.3	0.01	0.1	0.00	86	0.0	0.01	0.4	3.4	0.50	23	2.4	0.0	13	0.04	0.1	4.2	0.4	0.1	0.0

TABLE 43. WATER QUALITY FOR SITE 9073 GILMER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 1 77	19	0.03			40	578	378	1.28	6.6		45	55	0	7.5	220	0.1					
10 19 77	11	0.04	12		4	574	379	1.38	7.0		43	53	0	4.5	220	0.1					
11 22 77	8	0.03	4		30	616	451	1.10	6.9		35	43	0	28	260	0.1					
1 4 78	1	0.025			4	522	332	1.46	7.9		32	39	0	8.7	190	0.1					
2 14 78	1	0.06			0	524	302	0.86	4.8		0	0	0	1.8	220	0.1					
3 17 78	6	0.25			25	432	254	1.17	6.6		8	10	0	14	150	0.3					
4 12 78	17	0.05	6		0	341	211	0.96	7.5		7	9	0	1.9	140	0.0					
5 8 78	16	0.06	18*		7	180	99	1.30	7.3		11	14	0	1.5	53	0.1					
6 8 78	16	0.05			8	305	185	0.95	6.6		6	7	0	1.0	120	0.4					
7 7 78	19	0.07	34*		4	307	198	1.17	6.8		4	5	0	1.3	120	0.1					
8 8 78	22	0.015	32*		0	444	247	1.03	7.8		34	41	0	5.7	150	0.1					
9 14 78	22	0.03	16*		0	550	361	1.24	7.8		50	60	0	19	190	0.1					
10 24 78	13	0.006	27*		4	735	487	1.16	7.8	-42	46	56	0	70	230	0.0					
12 6 78	10	0.1	32		15	431	261	1.49	7.9	-43	46	55	0	9.0	130	0.1					
1 15 79	4	0.1	2		15	291	167	1.47	7.4	-21	21	26	0	8.3	84	0.1					
2 15 79	1	0.08	40		25	371	169	1.36	7.2	-10	12	15	0	17	82	0.4					
3 11 79	5	0.2	4		4	312	177	1.42	7.2	-19	20	25	0	7.3	94	0.1					
4 26 79	15	0.1	29	0.00	35	428	268	1.47	7.4	-22	23	28	0	25	130	0.1					
6 4 79	17	0.01	2		2	428	298	1.31	7.8	-29	34	41	0	13	170	0.1					
7 10 79	18	0.001	34*		15	498	363	1.19	7.8	-30	33	40	0	19	200	0.1	0.2	0.01	1.05	0.40	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 1 77	0.1	0.02			75	0.0	0.00	0.1	3.1		22	0.2		10	0.01	0.0	5.7		0.0	0.0
10 19 77	0.2	0.02	0.0	0.00	82	0.0	0.01	0.1	2.7	0.25	24	0.2	0.0	8.5	0.02	0.1	4.8	0.2	0.1	0.0
11 22 77	0.1	0.01			77	0.0	0.01	0.0	2.8		24	0.3		24	0.02	0.0	4.9		0.0	0.0
1 4 78	0.1	0.00	0.0	0.00	70	0.0	0.00	0.1	2.3	0.35	24	0.2	0.0	8.7	0.02	0.0	5.0	0.4	0.0	0.0
2 14 78	2.2	0.00			54	0.1	0.03	0.0	2.4		12	0.4		5.1	0.07	0.1	3.7		0.0	0.1
3 17 78	0.1	0.03			48	0.0	0.01	0.1	2.2		11	0.3		16	0.02	0.0	4.3		0.1	0.0
4 12 78	0.7	0.00			34	0.0	0.00	0.1	2.4		9.8	0.5		5.0	0.02	0.0	6.4		0.0	0.0
5 8 78	0.1	0.01			17	0.0	0.00	0.0	1.6		5.3	0.1		3.5	0.01	0.0	4.4		0.0	0.0
6 8 78	0.1	0.00			30	0.0	0.00	0.0	2.2		8.2	0.1		5.1	0.01	0.0	5.7		0.0	0.0
7 7 78	0.1	0.01	0.0	0.00	42	0.0	0.00	0.0	2.7	0.10	8.6	0.0	0.0	4.3	0.00	0.1	5.8	0.2	0.0	0.0
8 8 78	0.1	0.02			42	0.1	0.02	0.0	2.4		11	0.1		7.6	0.04	0.2	4.1		0.1	0.0
9 14 78	0.1	0.00	0.0	0.00	73	0.0	0.01	0.0	3.3	0.55	17	0.1	0.0	11	0.01	0.1	5.0	0.3	0.0	0.0
10 24 78	0.2	0.01	0.0	0.00	87	0.0	0.01	0.1	2.8	0.50	19	0.3	0.0	36	0.02	0.1	5.4	0.4	0.1	0.0
12 6 78	0.1	0.00			62	0.0	0.01	0.0	2.0		12	0.1		6.4	0.02	0.1	3.8		0.0	0.0
1 15 79	0.1	0.00			40	0.0	0.00	0.0	1.5		7.4	0.1		4.0	0.01	0.0	3.7		0.0	0.0
2 15 79	0.1	0.02			38	0.0	0.00	0.1	1.6		6.7	0.1		7.7	0.01	0.0	3.1		0.1	0.0
3 11 79	0.1	0.00			42	0.0	0.00	0.1	1.6		8.1	0.1		4.6	0.01	0.0	3.3		0.0	0.0
4 26 79	0.1	0.00	0.0	0.00	58	0.0	0.00	0.0	2.4	0.30	12	0.1	0.0	17	0.01	0.1	3.6	0.1	0.1	0.0
6 4 79	0.1	0.01			62	0.0	0.00	0.0	2.3		17	0.1		7.8	0.00	0.0	4.1		0.0	0.0
7 10 79	0.2	0.01	0.2	0.00	68	0.1	0.02	0.1	3.5	0.30	18	0.2	0.0	15	0.04	0.1	5.9	0.2	0.1	0.3

TABLE 44. WATER QUALITY FOR SITE 9076 GILMER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
4 26 79	14	0.03			45	539	363	1.20	7.8		40	49	0	8.0	220	0.1					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
4 26 79	0.1	0.01			78	0.0	0.01	0.0	2.5		18	0.0		5.4	0.02	0.1	3.9		0.1	0.0

TABLE 45. WATER QUALITY FOR SITE 9079 GILMER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
4 26 79	14	0.06			40	285	183	1.13	7.0		8	10	0	14	100	0.0					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
4 26 79	0.1	0.01			35	0.0	0.00	0.0	2.1		7.9	0.0		7.1	0.01	0.0	4.7		0.0	0.0

TABLE 46. WATER QUALITY FOR SITE 9081 GRANT COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 27 77	23	0.1			60	76	43	3.38	7.1		20	25	0	2.3	9	0.1					
10 17 77					40	104	50	1.60	7.1		7	9	0	4.3	19	0.3					
11 29 77	6	0.4	28*		10	237	123	0.98	7.2		11	13	0	50	20	0.2					
12 30 77	0	0.07	0		4	59	36	1.61	6.9		3	4	0	3.3	13	0.2					
2 9 78	1	0.6			0	60	34	1.17	7.1		7	8	0	5.5	12	0.2					
3 8 78	1	0.7			25	79	43	2.09	6.7		7	9	0	5.2	12	0.2					
4 6 78	8	2.5	5		10	44	29	1.35	7.6		5	6	0	3.7	10	0.0					
5 4 78	9	0.25	33*		15	48	30	2.00	7.0		7	8	0	3.8	9	0.1					
6 2 78	20	0.4			55	57	40	2.00	6.9		16	20	0	2.4	12	0.2					
6 29 78	21	1.0	75*			53	53	1.46	7.0		10	12	0	5.3	20	0.1					
7 27 78	20	0.2	86*		80	57	42	4.47	7.5		20	24	0	1.8	6	0.2					
9 7 78	23	0.03	36*		95	69	40	4.69	7.4		20	25	0	2.5	6	0.1					
10 19 78	12	0.06	62*		55	68	44	2.63	7.3	-13	16	19	0	4.3	10	0.1					
11 29 78	8	1.5	4		10	64	43	1.07	6.7		6	7	0	3.0	18	0.7					
1 11 79	2	0.7	7		6	49	35	1.27	6.0		3	4	0	4.2	14	0.2					
2 8 79	0	0.2	23		15	53	34	1.99	6.8	-2	6	7	0	4.1	9	0.2					
3 9 79	2	0.4	8		6	40	25	1.45	6.3	2	3	4	0	2.5	9	0.2					
4 15 79	7	0.25	10	0.00	10	47	33	1.28	6.6		6	7	0	3.0	13	0.1					
6 1 79	15	0.25	10		55	44	29	1.43	6.3	-1	7	8	0	2.9	10	0.1					
7 6 79	15	0.1	32*		55	48	36	1.80	7.2	1	8	10	0	1.4	14	0.0	0.1	0.09	1.50	0.15	0.01
10 26 79	6	0.7			35	50			6.9	-2	8	10	0	2.1	7	0.5					
11 7 79	5	0.9			30	45	32	1.74	6.6	6	7	8	0	2.7	11	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 27 77	0.0	0.01			8.7	0.0	0.00	1.1	0.8		2.0	0.1		2.5	0.00	0.0	1.7		0.0	0.0
10 17 77	0.1	0.00	0.0	0.00	8.3	0.0	0.01	0.7	2.0	0.04	2.0	0.1	0.0	3.4	0.02	0.1	1.9	0.0	0.0	0.0
11 29 77	0.1	0.00			8.0	0.0	0.00	0.3	1.1		1.5	0.1		30	0.01	0.0	2.2		0.0	0.0
12 30 77	0.1	0.00	0.1	0.00	5.3	0.1	0.00	0.5	0.9	0.07	1.8	0.2	0.0	2.7	0.02	0.1	2.0	0.0	0.2	0.0
2 9 78	0.1	0.00			3.7	0.1	0.03	0.4	1.1		1.2	0.2		3.2	0.06	0.1	0.8		0.0	0.0
3 8 78	0.1	0.02			6.2	0.0	0.02	1.7	2.0		1.8	0.5		3.9	0.01	0.0	2.1		0.0	0.0
4 6 78	0.1	0.00	0.0	0.00	3.6	0.0	0.00	0.2	1.0	0.00	1.1	0.1	0.0	2.3	0.01	0.0	1.4	0.0	0.0	0.0
5 4 78	0.1	0.01			4.8	0.0	0.00	0.8	0.8		1.5	0.2		2.5	0.02	0.0	1.2		0.0	0.0
6 2 78	0.1	0.00			6.2	0.0	0.01	1.8	0.8		1.7	0.8		2.3	0.01	0.0	0.5		0.0	0.0
6 29 78	0.1	0.03			8.9	0.0	0.00	1.4	1.0		2.5	0.3		2.3	0.00	0.0	2.0		0.0	0.0
7 27 78	0.1	0.01	0.0	0.00	8.8	0.0	0.00	4.3	0.3	0.04	1.6	0.3	0.0	1.8	0.01	0.0	1.7	0.0	0.0	0.0
9 7 78	0.0	0.00			8.2	0.0	0.00	2.4	1.2		1.7	0.4		1.3	0.00	0.0	1.9		0.0	0.0
10 19 78	0.1	0.02	0.0	0.00	8.4	0.0	0.01	1.7	1.8	0.08	1.7	0.4	0.0	1.8	0.01	0.0	1.8	0.0	0.0	0.0
11 29 78	0.1	0.00			6.0	0.0	0.00	0.3	1.8		1.2	0.1		1.9	0.01	0.0	1.7		0.0	0.0
1 11 79	0.2	0.00	0.0	0.00	5.2	0.0	0.01	0.4	0.8	0.04	1.1	0.2	0.0	2.8	0.02	0.1	1.8	0.0	0.1	0.0
2 8 79	0.1	0.00			5.9	0.0	0.00	0.9	0.6		1.4	0.3		2.2	0.02	0.0	2.0		0.1	0.0
3 9 79	0.2	0.01	0.0	0.00	3.8	0.0	0.00	0.2	0.8	0.15	0.8	0.1	0.0	1.8	0.01	0.0	1.4	0.0	0.0	0.0
4 15 79	0.1	0.00	0.1	0.00	4.8	0.0	0.00	0.5	0.8	0.10	0.9	0.1	0.0	2.4	0.02	0.0	1.4	0.0	0.0	0.0
6 1 79	0.1	0.00			4.3	0.1	0.02	1.1	0.6		1.0	0.2		1.7	0.00	0.1	1.1		0.0	0.0
7 6 79	0.1	0.00			6.5	0.0	0.01	1.8	0.8		1.5	0.1		1.9	0.01	0.0	1.5		0.0	0.0
10 26 79																				
11 7 79	0.0	0.00			5.5	0.0	0.00	0.4	1.0		1.4	0.1		1.6	0.00	0.0	1.7		0.0	0.0

TABLE 47. WATER QUALITY FOR SITE 9082 GRANT COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 27 77	25	0.09			8	2680	2210	1.19	7.5		87	105	0	18	1400	0.1					
10 17 77	5	0.04			8	2620	2150	1.11	7.7		78	94	0	10	1400	0.6					
11 29 77	2	0.25	19*		8	2040	1550	1.17	7.2		18	22	0	21	1000	1.4					
12 30 77	2	0.025			15	2300	1960	1.01	8.3		116	137	3	13	1300	0.6					
4 6 78	10	0.2	17		80	1810	1540	0.99	7.5		59	72	0	9.3	1100	0.0					
5 4 78	11	0.04	27*		20	2100	1820	0.86	8.0		52	62	1	9.8	1300	0.1					
6 2 78	25	0.25			10	1970	1770	0.95	7.8		61	73	0	23	1200	0.2					
6 29 78	20	0.09				1430	1160	0.95	7.7		42	51	0	12	810	0.1					
7 27 78	24	0.1	86*		0	1910	1560	1.11	8.0		43	52	0	5.2	1100	0.1					
9 7 78	23	0.02	17*		8	1800	1530	0.88	7.5		35	43	0	9.5	1100	0.0					
10 19 78	12	0.02	46*		10	1990	2080	1.16	7.8	-26	41	49	0	16	1400	0.1					
11 29 78	8	0.06	16		10	1720	1300	1.11	7.9		29	35	0	14	870	1.1					
1 11 79	2	0.09	9		30	1730	1450	1.21	7.9		52	63	0	15	920	0.2					
3 9 79	6	0.06	47		4	1620	1510	0.95	7.7		80	97	0	5.7	1100	0.5					
4 15 79	8	0.1	60	0.00	4	1730	1590	1.03	8.1		71	85	1	6.8	1100	0.2					
6 1 79	18	0.05	14		20	1620	1330	1.08	8.2		70	83	1	7.9	890	0.0					
7 6 79	26	0.02	25*		60	1300	1090	1.02	7.9	-30	45	54	0	8.2	750	0.3	0.0	0.03	1.40	0.20	0.02
10 26 79	6	0.1			20	1720	1350	1.00	7.7		82	99	0	8.5	920	0.2					
11 7 79	8	0.04			25	1620	1260	0.97	7.9	-67	84	102	1	8.4	870	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 27 77	1.0	4.7			320	0.1	0.01	0.3	19		110	7.7		240	0.10	0.2	2.0		0.2	0.1
10 17 77	1.5	4.1	0.0	0.00	250	0.2	0.01	0.2	23	5.0	100	7.5	0.1	270	0.46	0.4	1.8	1.0	0.3	0.0
11 29 77	0.5	2.4			270	0.3	0.01	2.2	18		100	22		69	0.27	0.1	3.8		0.1	0.2
12 30 77	0.5	3.5	0.1	0.00	290	0.2	0.00	0.3	22	5.5	100	14	0.0	110	0.20	0.1	3.4	1.6	0.2	0.1
4 6 78	0.4	2.5	0.0	0.00	250	0.2	0.01	0.3	29	2.0	95	16	0.1	25	0.15	0.1	2.8	1.0	0.2	0.1
5 4 78	0.5	3.2			280	0.2	0.01	0.2	26		96	11		31	0.19	0.1	2.0		0.3	0.1
6 2 78	0.4	3.4			300	0.1	0.00	0.1	28		97	9.7		26	0.12	0.1	2.5		0.3	0.0
6 29 78	0.4	2.2			200	0.1	0.00	0.1	19		63	6.4		19	0.07	0.1	2.0		0.2	0.0
7 27 78	0.5	3.2	0.0	0.00	330	0.0	0.00	0.2	23	2.5	84	6.0	0.1	20	0.09	0.3	1.8	1.0	0.2	0.0
9 7 78	0.4	3.1			260	0.0	0.00	0.2	24		77	3.4		19	0.10	0.5	1.7		0.3	0.0
10 19 78	1.0	3.8			410	0.1	0.01	0.3	40		110	8.6		68	0.11	0.3	2.2		0.3	0.1
11 29 78	0.6	2.8			270	0.0	0.01	0.1	19		69	6.0		22	0.09	0.3	2.0		0.2	0.0
1 11 79	0.8	2.1	0.0	0.00	320	0.2	0.02	2.0	29	3.5	73	11	0.1	29	0.15	0.3	3.1	1.2	0.1	0.2
3 9 79	0.6	1.6			280	0.1	0.00	0.6	19		72	7.6		10	0.14	0.3	2.9		0.4	0.1
4 15 79	0.4	1.9			330	0.1	0.00	0.2	20		73	5.8		12	0.10	0.2	1.7		0.6	0.0
6 1 79	0.3	2.1			260	0.1	0.01	0.1	20		75	5.2		14	0.03	0.3	2.1		0.2	0.0
7 6 79	0.3	1.5	0.0	0.00	220	0.1	0.01	0.1	17	2.5	53	3.2	0.0	9.9	0.06	0.2	1.2	1.1	0.2	0.0
10 26 79	0.4	2.0			250	0.0	0.00	0.1	21		67	4.2		15	0.09	0.3	2.4		0.6	0.0
11 7 79	0.2	1.9			230	0.0	0.00	0.1	18		62	4.0		13	0.06	0.2	2.1		0.2	0.0

TABLE 48. WATER QUALITY FOR SITE 9083 GRANT COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L				MILLIGRAMS PER LITER										
7 25 77	14	0.07			40	978	606	1.64	7.8		172	208	1	3.1	300	0.5					
8 27 77	16	0.07			10	1060	775	1.61	7.6		202	245	1	3.9	390	0.1					
10 17 77	5	0.025			30	1010	711	1.39	7.8		152	184	1	4.2	390	0.1					
11 29 77	6	0.3	35*		20	570	428	1.59	7.1		127	155	0	3.0	210	0.2					
12 30 77	8	0.15	22		2	733	615	1.65	7.4		189	229	0	2.3	300	0.1					
4 6 78	10	0.3	6		0	938	675	1.38	7.5		106	128	0	2.2	400	0.0					
5 4 78	10	0.06	14		0	798	652	1.31	8.2		79	94	1	2.6	400	0.0					
6 2 78	12	0.3			10	829	600	1.41	7.8		123	149	1	2.2	340	0.1					
6 29 78	12	0.4	83*			1030	700	1.31	7.9		156	188	1	3.1	400	0.1					
7 27 78	12	0.15	81*		20	785	614	1.61	8.2		84	101	1	2.7	340	0.0					
9 7 78	17	0.1	52*		35	1110	795	1.47	8.4		167	196	4	4.5	430	0.0					
10 19 78	14	0.02	74*		60	1190	917	1.14	7.9		139	167	1	5.0	570	0.1					
11 29 78	12	0.05			45	1120	742	1.33	8.2		127	151	2	4.2	430	0.1					
1 11 79	9	0.2	31		0	787	552	1.86	7.9		177	214	1	2.1	250	0.0					
2 8 79	8	0.15			1	782	617	1.54	8.0		125	151	1	2.0	330	0.0					
3 9 79	9	0.2			4	994	727	1.50	7.8		126	153	1	1.6	410	0.4					
4 15 79	9	0.09		0.00	2	880	623	1.35	8.0		117	141	1	2.0	360	0.0					
6 1 79	11	0.06	47		15	901	635	1.41	8.0		133	160	1	2.3	350	0.0					
7 6 79	12	0.03	52*		25	1100	845	1.05	8.1		107	129	1	4.2	540	0.0	0.0	0.11	0.25	0.20	0.01
10 26 79	8	0.25			20	930	578	1.25	7.8		180	218	1	1.5	320	0.1					
11 7 79	9	0.15			20	839	583	1.62	8.1		150	180	2	2.1	300	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 25 77	0.1	0.45			140	0.0	0.00	3.8	7.8		33	3.9		9.7	0.02	0.1	2.7		0.1	0.1
8 27 77	0.2	0.59			180	0.0	0.01	4.6	8.3		42	5.5		10	0.03	0.1	3.0		0.1	0.1
10 17 77	0.3	0.48	0.0	0.00	150	0.1	0.01	2.3	6.8	1.0	39	5.0	0.0	8.6	0.06	0.3	3.2	0.3	0.1	0.0
11 29 77	0.2	0.08			91	0.0	0.00	0.6	4.6		28	4.3		2.8	0.04	0.0	2.6		0.0	0.0
12 30 77	0.2	0.18	0.1	0.00	140	0.0	0.00	1.0	6.2	1.0	38	5.0	0.0	3.7	0.03	0.0	3.0	0.3	0.0	0.0
4 6 78	0.2	0.08	0.0	0.00	140	0.0	0.01	0.4	5.5	0.25	48	6.0	0.1	3.8	0.03	0.1	2.2	0.2	0.1	0.0
5 4 78	0.2	0.21			140	0.0	0.01	1.3	5.4		42	4.4		4.3	0.05	0.0	2.3		0.1	0.0
6 2 78	0.1	0.21			130	0.0	0.00	0.9	5.3		38	3.6		4.6	0.03	0.1	2.3		0.1	0.0
6 29 78	0.1	0.35			140	0.0	0.00	1.6	6.3		40	3.9		6.0	0.03	0.1	2.3		0.2	0.0
7 27 78	0.3	0.36	0.1	0.00	160	0.0	0.01	2.5	6.0	0.55	38	4.1	0.1	5.2	0.04	0.2	2.3	0.2	0.1	0.0
9 7 78	0.3	0.65			190	0.0	0.00	2.8	7.8		43	4.4		7.5	0.04	0.2	3.0		0.0	0.0
10 19 78	0.3	0.84			190	0.0	0.01	1.3	6.7		42	2.6		11	0.04	0.2	2.6		0.1	0.0
11 29 78	0.4	0.72			170	0.0	0.00	2.6	5.4		39	4.8		6.7	0.04	0.2	2.4		0.1	0.0
1 11 79	0.2	0.22	0.0	0.00	140	0.0	0.01	0.2	5.4	1.0	32	3.4	0.0	4.4	0.04	0.2	2.3	0.2	0.0	0.0
2 8 79	0.3	0.25			150	0.0	0.01	0.6	5.3		35	4.5		4.1	0.04	0.2	2.1		0.2	0.0
3 9 79	0.3	0.14			180	0.1	0.00	0.2	3.9		46	4.0		3.3	0.07	0.2	1.9		0.6	0.0
4 15 79	0.2	0.23			140	0.0	0.00	0.7	5.0		34	3.8		4.0	0.04	0.1	2.1		0.1	0.0
6 1 79	0.2	0.33			140	0.0	0.01	1.1	5.2		36	4.4		4.8	0.03	0.1	2.2		0.1	0.0
7 6 79	0.2	0.50	0.0	0.00	160	0.0	0.00	2.1	7.0	1.0	40	5.0	0.0	7.0	0.06	0.2	2.6	0.3	0.3	0.0
10 26 79	0.5	0.26			110	0.0	0.00	0.0	5.0		32	0.0		3.9	0.04	0.2	2.0		0.3	0.0
11 7 79	0.1	0.33			140	0.0	0.00	1.4	5.5		37	4.0		4.5	0.03	0.1	1.1		0.1	0.0

TABLE 49. WATER QUALITY FOR SITE 9090 GREENBRIER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 14 77	6	0.4				308	143	2.75	7.6		81	99	0	0.8	42	0.3					
1 14 78	8	0.25			2	312	181	3.63	8.2		113	135	1	0.8	46	0.3					
2 16 78	9	0.7			0	313	160	4.87	8.3		98	117	1	1.1	35	0.1					
3 23 78	8	0.4			8	261	144	3.71	7.8		80	96	0	0.7	38	0.5					
4 19 78	11	0.1			10	316	184	2.70	8.5		102	120	2	2.5	57	0.2					
5 11 78	12	0.09	16*		0	308	181	3.02	8.2		103	124	1	0.8	54	0.2					
6 15 78	11	0.25			100	315	173	3.27	8.2		103	124	1	0.4	48	0.3					
7 12 78	12	0.4	177*		75	310	199	3.40	8.2		102	122	1	0.6	58	0.1					
1 18 79	8	0.4	7		1	269	173	3.44	7.9	-94	104	126	1	1.0	44	0.4					
2 18 79	6	0.25	8		0	304	200	3.11	8.1	-97	110	132	1	1.2	60	0.2					
3 27 79	8	0.3			1	290	188	3.31	8.3	-92	107	128	2	1.2	51	0.4					
5 2 79	12	0.4	9		3	295	201	2.90	8.1	-89	102	122	1	0.5	65	0.3					
6 19 79	12	0.15	4		10	294	171	2.75	8.3	-80	97	115	1	0.8	51	0.2					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 14 77	0.1	0.00	0.0	0.00	26	0.0	0.02	0.0	2.7	0.10	11	0.1	0.0	4.1	0.02	0.0	2.6	0.3	0.0	0.0
1 14 78	0.1	0.00	0.1	0.00	29	0.0	0.00	0.2	2.6	0.15	23	0.0	0.0	3.6	0.05	0.1	3.1	0.4	0.3	0.0
2 16 78	0.0	0.00			29	0.0	0.00	0.0	3.0		22	0.0		3.8	0.00	0.0	3.0		0.0	0.0
3 23 78	0.0	0.00			24	0.0	0.00	0.1	2.9		19	0.0		3.5	0.01	0.0	2.5		0.1	0.0
4 19 78	0.1	0.00	0.0	0.00	28	0.0	0.00	0.1	2.6	0.15	20	0.0	0.0	4.0	0.01	0.1	3.1	0.3	0.2	0.0
5 11 78	0.1	0.01			29	0.0	0.00	0.1	2.9		21	0.0		3.6	0.04	0.1	3.2		0.2	0.0
6 15 78	0.0	0.00			29	0.0	0.00	0.0	3.0		20	0.0		4.0	0.01	0.0	2.8		0.0	0.0
7 12 78	0.1	0.00	0.0	0.00	44	0.0	0.01	0.2	3.0	0.15	21	0.1	0.0	3.8	0.00	0.1	2.8	0.3	0.0	0.0
1 18 79	0.1	0.00	0.0	0.00	36	0.0	0.00	0.1	2.6	0.15	15	0.0	0.0	2.7	0.03	0.1	3.0	0.1	0.1	0.0
2 18 79	0.1	0.00			41	0.0	0.01	0.1	2.9		20	0.0		3.8	0.01	0.0	2.5		0.0	0.0
3 27 79	0.2	0.01	0.0	0.00	40	0.0	0.00	0.0	2.7	0.30	17	0.0	0.0	3.0	0.04	0.1	2.9	0.4	0.2	0.0
5 2 79	0.1	0.01			41	0.1	0.01	0.0	2.6		20	0.0		3.2	0.03	0.1	2.7		0.1	0.0
6 19 79	0.1	0.00			32	0.0	0.00	0.0	2.8		14	0.0		3.5	0.02	0.1	3.1		0.1	0.1

TABLE 50. WATER QUALITY FOR SITE 9091 GREENBRIER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 14 77	8	0.1			4	22	21	1.27	6.5		3	4	0	1.0	7	0.4					
1 14 78	2	0.2			0	20	16	2.72	6.6		3	4	0	1.4	2	0.4					
2 16 78	2	0.15			0	24	15	1.70	6.6		3	4	0	0.8	4	0.4					
3 23 78	6	0.4			15	23	16	1.84	7.1		2	3	0	0.8	4	0.5					
4 19 78	10	0.04			8	20	16	2.30	6.7		2	3	0	0.8	4	0.3					
5 11 78	10	0.05	9		0	20	20	1.02	6.5		2	3	0	0.8	8	0.4					
6 15 78	12	0.05			15	22	22	0.94	6.4		2	3	0	1.0	8	0.5					
7 12 78	15	0.05	39*		10	24	20	2.12	6.6		5	6	0	0.7	5	0.3					
1 18 79	4	0.09	5		0	19	17	1.06	6.1		1	1	0	1.2	6	0.5					
2 18 79	0	0.07	10		1	21	16	1.88	6.1		2	2	0	0.7	4	0.4					
3 27 79	4	0.15			1	26			5.9					0.9	10	0.4					
5 2 79	12	0.1	9	0.00		22	21	0.88	6.1	4	2	2	0	0.8	10	0.3					
6 19 79	15	0.02	8		10	22	19	1.28	6.3	4	2	3	0	1.1	6	0.4					
7 18 79	17	0.04		0.01		23	23	1.11	6.4	2	3	4	0	0.9	8	0.4	0.1	0.01	0.50	0.15	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 14 77	0.0	0.00	0.0	0.00	1.4	0.0	0.01	0.0	1.0	0.00	1.1	0.0	0.0	1.3	0.00	0.0	2.2	0.0	0.0	0.0
1 14 78	0.0	0.00	0.0	0.00	1.2	0.0	0.00	0.1	0.6	0.00	1.3	0.0	0.1	0.7	0.02	0.0	1.9	0.0	0.1	0.0
2 16 78	0.1	0.00			1.0	0.1	0.03	0.0	0.9		1.1	0.0		0.8	0.07	0.2	0.8		0.1	0.0
3 23 78	0.0	0.00			1.3	0.0	0.00	0.0	0.8		1.4	0.0		0.7	0.00	0.0	1.4		0.0	0.0
4 19 78	0.0	0.00	0.0	0.00	1.3	0.0	0.01	0.0	0.8	0.02	1.3	0.0	0.0	0.9	0.00	0.0	1.9	0.0	0.0	0.0
5 11 78	0.0	0.00			1.2	0.0	0.00	0.0	0.7		1.3	0.0		0.7	0.02	0.0	2.0		0.1	0.0
6 15 78	0.0	0.00			1.3	0.0	0.00	0.0	0.8		1.3	0.0		0.7	0.00	0.0	2.2		0.1	0.0
7 12 78	0.0	0.00	0.0	0.00	2.0	0.0	0.00	0.0	0.8	0.01	1.5	0.0	0.0	0.9	0.00	0.0	2.1	0.0	0.0	0.0
1 18 79	0.0	0.00			1.3	0.0	0.00	0.0	0.7		0.9	0.0		0.7	0.00	0.0	1.8		0.0	0.0
2 18 79	0.0	0.00			1.3	0.0	0.01	0.0	1.0		1.0	0.0		1.0	0.01	0.0	1.7		0.0	0.0
3 27 79	0.0	0.00	0.0	0.00	1.2	0.0	0.00	0.0	0.8	0.03	1.2	0.0	0.0	0.8	0.00	0.0	1.7	0.0	0.0	0.0
5 2 79	0.0	0.00			1.6	0.0	0.00	0.0	0.7		1.2	0.0		0.6	0.00	0.0	2.0		0.0	0.0
6 19 79	0.0	0.00			1.5	0.0	0.00	0.0	0.8		1.1	0.0		0.6	0.00	0.0	2.4		0.0	0.1
7 18 79	0.0	0.00	0.2	0.00	1.6	0.0	0.00	0.1	0.8	0.02	1.4	0.0	0.0	0.6	0.03	0.1	2.4	0.0	0.2	0.4

TABLE 51. WATER QUALITY FOR SITE 9093 GREENBRIER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
5 2 79	15	0.07		0.00	7	155	90	2.67	7.7		48	59	0	0.4	27	0.2					
7 18 79	17	0.03	0		5	175	93	2.92	8.0	-50	52	63	0	0.8	25	0.2	0.0	0.00	0.40	0.00	0.01

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
5 2 79	0.0	0.00			15	0.0	0.00	0.0	1.9		7.8	0.0		1.9	0.02	0.0	2.4		0.1	0.0
7 18 79	0.1	0.00	0.1	0.00	16	0.1		0.2	2.2	0.30	7.8	0.0	0.0	2.2	0.00	0.0	2.5	0.2	0.0	0.2

TABLE 52. WATER QUALITY FOR SITE 9096 GREENBRIER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
10 14 77	8	1.0			10	100	68	1.60	7.3		16	19	0	1.1	30	0.7					
1 14 78	2	0.7			4	102	57	2.24	7.3		22	27	0	0.7	19	0.8					
2 16 78	2	0.5			2	116	63	2.36	7.4		23	28	0	0.7	22	0.5					
3 23 78	8	0.3			4	79	46	2.38	6.7		15	18	0	0.5	14	1.0					
4 19 78	9	0.2			3	116	62	1.90	7.6		23	28	0	0.7	25	0.5					
5 11 78	12	0.2	11		8	100	60	1.99	7.5		22	27	0	0.7	22	0.6					
6 15 78	10	0.4			10	115	61	2.45	7.5		27	33	0	0.9	20	0.5					
7 12 78	14	0.15	30*		8	84	50	2.34	7.2		20	24	0	0.5	18	0.2					
1 18 79	3	0.4	12		2	102	65	2.23	6.9	-18	23	28	0	0.8	23	0.7					
2 18 79	0	0.6	17		0	81	48	2.14	7.0		14	17	0	0.5	18	0.6					
3 27 79	5	0.5			2	83	50	2.10	7.3	-13	16	19	0	1.5	17	0.8					
5 2 79	10	1.5	2	0.00	25	88	62	2.33	7.7	-18	23	28	0	0.7	21	0.6					
6 19 79	13	0.4	42		20	109	70	2.49	7.7	-18	29	35	0	0.9	23	0.4					
7 18 79	14	0.7	32		40	89	49	2.39	7.6	-16	21	26	0	0.7	15	0.5	0.2	0.00	0.45	0.05	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
10 14 77	0.0	0.00	0.0	0.00	11	0.0	0.02	0.0	1.8	0.03	4.9	0.0	0.0	2.0	0.01	0.0	1.9	0.2	0.0	0.0
1 14 78	0.1	0.00	0.0	0.00	8.6	0.0	0.00	0.2	1.2	0.00	5.2	0.0	0.0	1.3	0.04	0.1	1.8	0.2	0.3	0.0
2 16 78	0.0	0.03			10	0.0	0.00	0.1	1.8		6.0	0.0		2.0	0.01	0.0	1.7		0.2	0.0
3 23 78	0.0	0.00			7.0	0.0	0.00	0.0	1.3		4.3	0.0		1.2	0.00	0.0	1.7		0.0	0.0
4 19 78	0.0	0.00	0.0	0.00	9.4	0.0	0.00	0.0	1.5	0.06	5.4	0.0	0.0	1.7	0.00	0.0	1.3	0.1	0.0	0.0
5 11 78	0.0	0.01			9.1	0.0	0.00	0.1	1.4		5.3	0.0		1.4	0.03	0.0	1.7		0.1	0.0
6 15 78	0.0	0.00			10	0.0	0.00	0.0	1.4		5.6	0.0		1.4	0.00	0.0	1.4		0.0	0.0
7 12 78	0.0	0.00	0.0	0.00	8.6	0.0	0.01	0.0	1.4	0.03	4.5	0.0	0.0	1.5	0.00	0.0	1.2	0.1	0.0	0.0
1 18 79	0.1	0.00	0.0	0.00	12	0.0	0.00	0.0	1.9	0.10	5.3	0.0	0.0	1.9	0.00	0.0	1.7	0.1	0.0	0.0
2 18 79	0.1	0.00			8.6	0.0	0.00	0.0	1.4		4.0	0.0		1.3	0.01	0.0	1.5		0.0	0.0
3 27 79	0.0	0.00			8.3	0.0	0.02	0.0	1.3		4.1	0.0		1.2	0.01	0.0	1.5		0.0	0.0
5 2 79	0.0	0.00			11	0.0	0.00	0.0	1.6		5.5	0.0		1.3	0.01	0.0	1.9		0.0	0.0
6 19 79	0.0	0.01			13	0.0	0.01	0.0	1.6		6.2	0.0		1.3	0.00	0.0	2.1		0.0	0.0
7 18 79	0.1	0.00	0.0	0.00	7.8	0.0	0.00	0.1	1.2	0.04	4.0	0.0	0.0	1.0	0.00	0.0	1.9	0.1	0.1	0.0

TABLE 53. WATER QUALITY FOR SITE 9101 HARRISON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER								
7 20 77	30	0.005			20	178	92	2.96	7.4		49	60	0	1.5	23	0.2		
8 30 77	23	0.01			15	140	74	3.51	7.8		43	52	0	0.8	16	0.1		
10 19 77	9	0.08	33		40	120	75	2.60	7.9		34	41	0	1.8	20	0.5		
11 22 77	7	0.06	17		4	104	65	2.68	7.7		23	28	0	1.1	19	0.3		
1 4 78	0	0.06			4	92	54	2.18	7.8		19	23	0	1.2	17	0.6		
9 12 78	26	0.002	9		30	169	87	3.64	7.9		49	59	0	1.9	19	0.1		
10 24 78	12	0.02	18*		7	123	69	2.63	7.7		37	45	0	1.3	18	0.0		
12 6 78	11	0.08	6		8	77	51	2.56	7.4		17	21	0	1.1	13	0.9		
1 15 79	2	0.15	5		4	69	51	1.74	7.0		11	14	0	1.1	18	1.0		
2 15 79	1	0.15	2		2	90	50	2.74	7.3	-14	16	19	0	0.4	14	0.7		
3 11 79	3	0.09	19		6	80	54	2.16	7.2		14	17	0	0.8	18	0.7		
4 18 79	11	0.15	8	0.01	8	88	54	2.39	7.3	-20	20	24	0	0.9	17	0.3		
10 23 79	13	0.02	3		10	104	64		7.4	-19	31	38	0		14	0.1		

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI
MO DA YR	MILLIGRAMS PER LITER																
7 20 77	0.0	0.01			15	0.1	0.03	0.0	5.0		4.1	0.0		6.0	0.04	0.2	3.0
8 30 77	0.0	0.02			13	0.0	0.00	0.1	1.9		3.8	0.0		4.1	0.00	0.0	3.5
10 19 77	0.0	0.00	0.5	0.00	12	0.0	0.00	0.1	4.1	0.04	3.4	0.1	0.0	3.4	0.00	0.0	3.1
11 22 77	0.1	0.00			12	0.0	0.01	0.0	1.6		3.7	0.1		4.1	0.02	0.1	3.6
1 4 78	0.0	0.00	0.0	0.00	8.5	0.0	0.00	0.0	1.0	0.04	3.2	0.0	0.0	2.7	0.00	0.0	3.0
9 12 78	0.0	0.01			17	0.0	0.00	0.0	3.2		4.4	0.2		4.1	0.00	0.0	3.6
10 24 78	0.1	0.01	0.0	0.00	12	0.0	0.01	0.1	1.8	0.10	3.1	0.1	0.0	2.9	0.03	0.1	2.8
12 6 78	0.1	0.00			8.0	0.0	0.00	0.1	1.6		2.2	0.0		3.4	0.01	0.0	3.2
1 15 79	0.1	0.00	0.0	0.00	8.3	0.0	0.00	0.0	1.2	0.10	2.6	0.0	0.0	2.1	0.00	0.0	3.0
2 15 79	0.1	0.00			10	0.0	0.00	0.0	1.2		2.9	0.0		2.2	0.01	0.0	2.8
3 11 79	0.1	0.01			9.6	0.0	0.01	0.1	1.4		3.0	0.0		2.4	0.03	0.0	3.3
4 18 79	0.0	0.00	0.0	0.00	11	0.0	0.00	0.0	1.3	0.07	2.8	0.0	0.0	2.6	0.00	0.0	2.4
10 23 79	0.0	0.01			13	0.0	0.01	0.1	2.2		3.7	0.1		3.2	0.01	0.0	3.7

TABLE 54. WATER QUALITY FOR SITE 9102 HARRISON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 20 77	26	0.015			25	574	352	1.56	7.8		94	114	0	6.8	180	0.1					
8 30 77	26	0.03			20	423	263	1.59	7.4		68	83	0	2.6	130	0.1					
10 19 77	9	0.08	39		35	555	311	1.82	7.2		93	113	0	2.2	150	0.1					
11 22 77	7	0.2	36		8	616	490	1.65	7.7		137	166	1	2.8	250	0.1					
1 4 78	0	0.04			4	932	491	1.82	8.1		130	156	1	4.4	240	0.2					
2 14 78	0	0.15			0	861	696	1.65	8.0		129	155	1	3.4	370	1.1					
3 16 78	4	1.0			55	516	278	2.10	7.9		93	112	1	2.8	120	0.9					
4 12 78	16	0.15	5		15	586	401	1.91	7.7		138	167	1	3.0	180	0.2					
5 8 78	15	0.15	19*		20	531	342	2.14	8.1		111	134	1	2.1	150	0.1					
6 5 78	22	0.4			15	564	372	1.90	8.0		143	172	1	1.4	160	0.1					
7 7 78	25	0.15	29*		25	434	275	2.53	8.3		111	132	2	2.3	100	0.1					
8 3 78	25	0.15	78*		30	422	265	2.59	8.5		115	135	3	1.8	93	0.0					
9 12 78	28	0.06	120*		10	525	338	1.77	8.2		109	130	1	2.1	160	0.0					
10 24 78	12	0.1	28*		7	637	380	1.94	8.3		155	184	2	2.4	160	0.0					
12 6 78	10	0.2	71		120	440	258	2.36	8.3	-100	101	120	1	2.4	96	0.3					
1 15 79	1	0.4	13		55	460	319	1.97	8.0		104	125	1	1.9	140	0.6					
2 15 79	1	0.1	102		1	586	426	2.59	8.1		115	138	1	1.6	170	0.4					
3 11 79	6	0.1	89		7	591	496	1.81	8.1		164	197	2	2.0	230	0.5					
4 18 79	9	0.15	76	0.00	10	565	404	1.93	8.2		114	136	1	1.5	190	0.1					
6 4 79	17	0.02	28		10	531	324	1.93	8.3		120	143	2	1.3	140	0.0					
7 10 79	22	0.09	21*		6	505	314	1.68	8.4		119	140	2	1.1	150	0.0	0.1	0.01	0.45	0.10	0.01
10 23 79	16	0.15	21		10	673	460	1.81	8.1		138	165	1	2.6	220	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 20 77	0.1	0.04			60	0.0	0.02	0.2	5.8		23	1.3		21	0.02	0.0	1.2		0.0	0.1
8 30 77	0.1	0.02			49	0.0	0.00	0.2	4.5		18	0.5		9.9	0.01	0.0	1.4		0.0	0.0
10 19 77	0.1	0.00	0.1	0.00	71	0.0	0.00	0.1	4.1	0.20	18	0.3	0.0	9.8	0.00	0.0	1.1	0.6	0.0	0.0
11 22 77	0.1	0.00			100	0.1	0.01	0.1	5.3		33	0.4		16	0.03	0.1	1.3		0.2	0.0
1 4 78	0.1	0.01	0.1	0.00	110	0.0	0.00	0.1	4.5	0.60	36	0.5	0.0	18	0.02	0.0	1.6	1.3	0.0	0.0
2 14 78	0.1	0.08			150	0.1	0.01	0.1	5.6		43	0.6		38	0.04	0.1	2.5		0.2	0.0
3 16 78	0.1	0.00			59	0.0	0.00	0.0	2.8		19	0.2		15	0.00	0.0	1.8		0.0	0.0
4 12 78	0.1	0.02	0.0	0.00	78	0.0	0.00	0.1	3.7	0.10	30	0.3	0.0	20	0.00	0.0	0.3	0.9	0.1	0.0
5 8 78	0.1	0.04			73	0.0	0.00	0.1	3.2		28	0.1		17	0.05	0.1	1.1		0.2	0.0
6 5 78	0.1	0.02			68	0.0	0.00	0.1	3.0		27	0.2		18	0.01	0.1	1.5		0.0	0.0
7 7 78	0.1	0.02	0.1	0.00	65	0.0	0.01	0.0	5.3	0.25	20	0.1	0.0	9.7	0.00	0.1	1.0	0.5	0.0	0.0
8 3 78	0.2	0.03			65	0.0	0.00	0.1	6.7		16	0.1		7.9	0.02	0.1	2.1		0.1	0.0
9 12 78	0.1	0.02			61	0.0	0.00	0.0	5.2		26	0.1		15	0.00	0.0	1.3		0.0	0.0
10 24 78	0.3	0.03			76	0.0	0.00	0.1	3.9		26	0.2		14	0.04	0.2	0.9		0.2	0.0
12 6 78	0.2	0.00			64	0.0	0.02	0.1	3.6		13	0.1		11	0.03	0.1	2.5		0.1	0.0
1 15 79	0.2	0.00	0.0	0.00	77	0.0	0.00	0.1	2.7	0.45	18	0.2	0.0	9.5	0.01	0.1	2.0	0.6	0.0	0.0
2 15 79	0.1	0.03			120	0.0	0.00	0.1	3.3		31	0.5		21	0.02	0.1	1.7		0.1	0.0
3 11 79	0.1	0.02			100	0.0	0.00	0.1	4.0		32	0.2		19	0.02	0.1	1.3		0.1	0.0
4 18 79	0.2	0.02	0.1	0.00	94	0.0	0.01	0.1	3.2	0.90	25	0.1	0.0	19	0.03	0.1	0.9	1.3	0.1	0.0
6 4 79	0.1	0.02			60	0.0	0.01	0.0	2.7		25	0.0		17	0.00	0.1	1.2		0.0	0.0
7 10 79	0.1	0.02	0.2	0.00	57	0.0	0.00	0.1	3.1	0.25	20	0.1	0.0	13	0.01	0.1	0.6	0.6	0.1	0.3
10 23 79	0.1	0.04			97	0.0	0.00	0.1	4.4		31	0.1		19	0.02	0.1	2.1		0.1	0.0

TABLE 55. WATER QUALITY FOR SITE 9103 HARRISON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER								
7 20 77	30	0.002			4	782	579	1.70	7.8		109	132	1	1.8	310	0.0		
8 30 77	18	0.01			0	944	665	1.60	7.6		162	197	1	1.1	350	0.0		
10 19 77	9	0.02	11		10	918	588	1.61	7.6		148	180	1	0.9	310	0.1		
11 22 77	13	0.04	51		8	917	690	1.79	7.1		169	206	0	1.3	350	0.1		
1 4 78	0	0.07			10	1110	614	1.59	7.9		113	136	1	1.7	340	0.1		
2 14 78	2	0.03			0	1030	833	1.15	8.1		75	90	1	1.7	550	0.2		
3 16 78	4	1.0			80	715	484	1.47	7.9		88	106	1	1.7	270	1.8		
4 12 78	11	0.1	8		5	778	558	1.50	7.8		125	152	1	1.5	310	0.3		
5 8 78	12	0.05	17*		15	724	485	1.58	8.0		110	132	1	1.0	260	0.4		
6 5 78	17	0.1			10	857	633	1.29	7.9		126	152	1	0.6	370	0.2		
7 7 78	20	0.07	42*		4	788	566	1.61	8.0		116	139	1	1.2	310	0.0		
8 3 78	22	0.06	62*		5	784	644	1.48	8.3		111	131	2	1.1	370	0.0		
9 12 78	23	0.01	21*		8	926	638	1.38	8.1		143	172	2	1.3	360	0.0		
10 24 78	11	0.03	0		4	1070	755	1.40	7.9	-55	60	72	0	1.7	470	0.0		
12 6 78	11	0.06	75		40	841	557	1.78	8.3		120	142	2	1.5	290			
1 15 79	2	0.15	6		5	555	388	1.76	8.0		95	114	1	1.3	190	2.4		
2 15 79	2	0.03	85		0	967	691	1.56	8.1	-45	144	173	2	1.1	380	0.5		
3 11 79	4	0.15	63		6	752	540	1.55	8.3		116	138	2	1.3	290	1.1		
4 18 79	8	0.09	102	0.00	4	799	616	1.45	8.1		102	122	1	0.8	360	0.4		
6 4 79	15	0.004	9		5	940	540	1.62	8.0		125	151	1	0.9	290	0.2		
7 10 79	21	0.001	42		5	971	696	1.29	8.0		70	84	1	1.2	440	0.1	0.0	0.00
10 23 79	13	0.015	10		8	978	686	1.44	8.0		152	182	1	1.1	390	0.0		

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l t

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI
MO DA YR	MILLIGRAMS PER LITER																
7 20 77	0.2	0.03			110	0.0	0.01	0.2	5.1		43	0.1		36	0.02	0.1	2.3
8 30 77	0.1	0.00			130	0.0	0.03	0.1	4.3		46	0.1		26	0.02	0.1	2.6
10 19 77	0.2	0.00	0.0	0.00	120	0.0	0.00	0.1	3.5	0.35	39	0.0	0.1	19	0.00	0.0	1.9
11 22 77	0.2	0.00			150	0.1	0.01	0.0	4.3		54	0.1		25	0.03	0.1	2.5
1 4 78	0.1	0.00	0.2	0.00	130	0.0	0.00	0.1	3.3	0.70	49	0.0	0.0	19	0.02	0.0	2.0
2 14 78	0.1	0.04			150	0.0	0.00	0.1	3.7		57	0.0		18	0.01	0.0	1.9
3 16 78	0.1	0.05			97	0.0	0.01	0.2	2.6		38	0.1		8.3	0.01	0.0	2.2
4 12 78	0.1	0.00	0.0	0.00	110	0.0	0.00	0.1	3.1	0.15	44	0.0	0.1	15	0.01	0.0	1.6
5 8 78	0.1	0.02			99	0.0	0.00	0.1	2.8		38	0.0		12	0.02	0.0	1.8
6 5 78	0.1	0.01			110	0.0	0.01	0.1	3.4		44	0.0		18	0.02	0.1	1.8
7 7 78	0.1	0.01	0.0	0.00	120	0.0	0.01	0.0	3.7	0.45	41	0.0	0.1	20	0.00	0.0	1.5
8 3 78	0.2	0.02			140	0.0	0.00	0.1	4.5		44	0.0		20	0.04	0.2	2.6
9 12 78	0.2	0.03			110	0.0	0.00	0.1	4.7		43	0.0		24	0.03	0.2	2.9
10 24 78	0.2	0.02	0.0	0.00	160	0.0	0.01	0.1	4.0	0.80	54	0.0	0.0	29	0.03	0.1	2.6
12 6 78	0.3	0.00			140	0.0	0.00	0.0	2.6		38	0.0		9.0	0.02	0.1	2.2
1 15 79	0.2	0.00	0.0	0.00	91	0.0	0.01	0.2	2.6	0.55	26	0.0	0.0	8.1	0.03	0.1	2.2
2 15 79	0.4	0.01			150	0.0	0.00	0.0	3.5		49	0.0		13	0.03	0.3	1.9
3 11 79	0.2	0.01			120	0.0	0.00	0.1	2.7		40	0.0		8.6	0.02	0.0	1.9
4 18 79	0.2	0.01			130	0.0	0.01	0.0	3.4		42	0.0		12	0.03	0.1	1.7
6 4 79	0.1	0.01			100	0.0	0.01	0.0	3.3		51	0.0		12	0.00	0.1	1.5
7 10 79	0.2	0.02	0.0	0.00	140	0.0	0.02	0.1	3.6	0.75	47	0.0	0.0	23	0.02	0.1	2.1
10 23 79	0.1	0.03			140	0.0	0.00	0.1	3.9		51	0.0		13	0.02	0.1	2.3

TABLE 56. WATER QUALITY FOR SITE 9104 HARRISON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
2 14 78	1	0.5			0	120	67	2.99	7.6		30	37	0	2.1	17	0.4					
3 16 78	5	0.3			30	71	50	1.91	7.1		25	31	0	1.2	14	0.3					
4 12 78	12	0.2	6		8	106	65	2.65	7.8		29	35	0	2.2	17	0.3					
5 8 78	13	0.15	15		9	82	56	1.90	7.3		20	24	0	0.9	20	0.1					
6 5 78	19	0.05			15	105	63	2.60	7.3		30	37	0	0.4	18	0.2					
7 7 78	21	0.15	29*		15	99	63	2.87	7.5		31	38	0	0.6	17	0.0					
8 3 78	22	0.2	49*		20	102	61	3.60	7.8		31	38	0	0.6	13	0.0					
6 4 79	18	0.002	8		30	95	68	1.62	7.3	-22	18	22	0	0.6	30	0.1					
7 10 79	19	0.001	30*		25	142	84	4.71	8.1	-51	53	64	0	1.6	14	0.2	0.2	0.06	0.70	0.25	0.01
10 23 79	13	0.02	1		15	113	67	3.04	7.6	-27	33	40	0	1.5	18	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
2 14 78	0.0	0.01			13	0.0	0.00	0.0	1.2		3.7	0.0		3.3	0.01	0.0	3.1		0.0	0.0
3 16 78	0.0	0.00			6.3	0.0	0.01	0.0	1.2		2.4	0.0		1.8	0.01	0.0	3.0		0.1	0.0
4 12 78	0.1	0.00	0.0	0.00	11	0.0	0.00	0.2	1.7	0.01	3.4	0.1	0.0	3.6	0.00	0.0	3.5	0.0	0.0	0.0
5 8 78	0.0	0.01			8.8	0.0	0.00	0.1	1.2		3.0	0.0		2.2	0.03	0.0	3.3		0.1	0.0
6 5 78	0.1	0.00			11	0.0	0.00	0.1	1.2		3.4	0.0		2.8	0.01	0.0	3.4		0.0	0.0
7 7 78	0.1	0.00	0.0	0.00	12	0.0	0.00	0.1	1.3	0.05	3.5	0.1	0.0	2.5	0.00	0.1	3.0	0.0	0.0	0.0
8 3 78	0.1	0.01			12	0.0	0.00	0.2	1.4		3.2	0.1		2.2	0.01	0.0	3.9		0.0	0.0
6 4 79	0.0	0.00			12	0.0	0.00	0.1	1.7		3.5	0.0		2.8	0.01	0.0	3.3		0.0	0.0
7 10 79	0.1	0.00	0.1	0.00	16	0.0	0.01	0.2	3.5	0.15	4.6	0.1	0.0	4.1	0.01	0.0	2.9	0.1	0.0	0.0
10 23 79	0.1	0.01			14	0.0	0.02	0.0	2.0		3.7	0.1		2.7	0.02	0.1	2.2		0.0	0.0

TABLE 57. WATER QUALITY FOR SITE 9111 KANAWHA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------								
6 23 77	16	0.09			20	81	39	1.12	7.0		7	8	0	4.2	14	0.2		
8 16 77	20	0.15			50	92	46	1.78	7.6		14	17	0	1.6	13	0.7		
9 23 77	18	0.15			8	86	45	1.97	7.8		8	10	0	2.0	14	0.5		
10 31 77	12	0.15	12		10	83	43	1.55	6.9		5	6	0	1.9	17	0.3		
5 15 78	12	0.15	6		8	55	37	1.26	6.5		2	3	0	1.8	16	0.4		
6 13 78	16	0.4			10	59	44	0.92	6.5		3	4	0	1.9	15	2.0		
7 17 78	21	0.1	38*		10	57	43	1.63	6.8		7	8	0	1.7	16	0.4		
8 14 78	29	0.07	32*		10	63	40	1.54	7.0		7	9	0	1.6	13	0.7		
9 28 78	19	0.01			0	64	44	1.57	7.1		11	14	0	1.6	16	0.3		
11 7 78	15	0.015	2		20	69	44	2.21	7.1		14	17	0	1.8	14	0.0		
12 19 78	6	0.007	10		3	66	41	1.05	6.6		2	3	0	1.0	18	0.9		
1 23 79	4	0.4	11		0	56	34	1.33	6.5	1	2	2	0	1.7	13	0.5		
2 21 79	4	0.2	7		3	54	37	1.15	6.4	3	2	2	0	1.3	17	0.5		
3 28 79	12	0.2			1	55	36	1.22	6.3		1	1	0	1.8	17	0.4		
4 24 79	17	0.2	13	0.00	4	54	36	1.29	6.3	4	2	2	0	1.2	16	0.3		
6 8 79	17	0.06	10		10	55	40	1.05	6.5	2	5	6	0	2.2	18	0.3		
7 13 79	20	0.015	18*		5	59	41	1.45	6.7	-3	8	10	0	1.7	16	0.3	0.2	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI
MO DA YR	---------- MILLIGRAMS PER LITER ----------																
6 23 77	0.0	0.00			2.6	0.0	0.01	0.0	2.1		2.9	0.0		1.2	0.00	0.0	3.2
8 16 77	0.0	0.01			3.5	0.0	0.00	0.0	2.4		3.4	0.0		1.5	0.00	0.0	3.9
9 23 77	0.0	0.00			4.7	0.0	0.00	0.1	2.4		3.8	0.0		1.7	0.00	0.0	3.8
10 31 77	0.1	0.02	0.1	0.00	4.6	0.0	0.00	0.0	2.3	0.06	3.5	0.0	0.0	1.3	0.01	0.0	3.4
5 15 78	0.0	0.00			3.0	0.0	0.00	0.0	1.7		3.1	0.0		1.0	0.00	0.0	3.4
6 13 78	0.0	0.00			3.2	0.0	0.00	0.0	1.8		3.0	0.0		0.9	0.00	0.0	3.2
7 17 78	0.0	0.02	0.1	0.00	4.2	0.1	0.00	0.1	2.4	0.02	3.7	0.0	0.0	1.1	0.02	0.0	3.6
8 14 78	0.0	0.01			3.6	0.0	0.01	0.1	2.2		2.9	0.0		1.0	0.01	0.0	3.4
9 28 78	0.0	0.01	0.1	0.00	4.5	0.0	0.00	0.1	2.0	0.06	3.2	0.0	0.0	1.1	0.00	0.0	3.4
11 7 78	0.0	0.01			5.2	0.0	0.00	0.0	2.6		4.0	0.0		1.3	0.00	0.0	3.0
12 19 78	0.0	0.02			3.6	0.0	0.00	0.1	1.6		2.7	0.0		0.8	0.02	0.1	3.5
1 23 79	0.0	0.00	0.1	0.00	3.4	0.0	0.01	0.0	1.6	0.08	2.6	0.0	0.0	0.8	0.02	0.0	3.3
2 21 79	0.0	0.00	0.1	0.00	3.5	0.0	0.00	0.0	1.6	0.08	2.7	0.0	0.0	1.0	0.00	0.0	2.9
3 28 79	0.0	0.00			3.4	0.0	0.00	0.0	1.7		3.0	0.0		1.0	0.00	0.0	3.0
4 24 79	0.0	0.00	0.1	0.00	3.3	0.0	0.00	0.0	1.6	0.06	3.0	0.0	0.0	0.8	0.00	0.0	3.2
6 8 79	0.0	0.01			3.4	0.0	0.00	0.0	1.6		2.7	0.0		0.8	0.00	0.0	3.6
7 13 79	0.0	0.01	0.1	0.00	3.7	0.0	0.19	0.0	2.7	0.02	2.8	0.0	0.0	1.1	0.03	0.0	3.2

TABLE 58. WATER QUALITY FOR SITE 9112 KANAWHA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
6 22 77	16	0.006			20	122	62	2.46	7.4		28	34	0	2.5	16	0.3					
8 16 77	18	0.2			35	107	63	1.62	6.4		16	20	0	2.0	24	0.4					
9 23 77	20	0.2			40	126	72	2.18	7.3		19	23	0	2.5	26	0.2					
10 31 77	12	0.2	47		4	153	97	1.90	6.6		22	27	0	2.3	38	0.9					
1 23 78	3	0.8			0	142	80	1.62	7.2		17	21	0	2.2	32	1.1					
2 22 78	2	1.5			4	147	89	1.65	7.4		18	22	0	2.3	38	1.0					
3 27 78	7	0.8			8	122	99	1.29	6.6		15	18	0	2.2	49	1.1					
4 24 78	15	0.2	18		60	256	157	1.25	7.8		29	35	0	2.6	63	6.3					
5 15 78	12	0.2	52*		65	213	109	1.65	7.4		21	26	0	2.2	49	1.1					
6 13 78	16	0.15			60	236	137	1.70	7.6		34	41	0	1.3	49	4.8					
7 17 78	22	0.3	68*		45	375	243	1.90	7.9		66	79	0	1.7	110	2.4					
8 14 78	20	0.2	48*		55	401	224	1.61	8.0		48	57	0	2.5	110	2.0					
9 28 78	20	0.05	32*		10	512	325	1.74	8.4		108	128	2	3.2	140	2.7					
11 7 78	15	0.09	38		3	531	388	1.68	8.3	-110	114	135	2	3.2	190	0.4					
12 19 78	6	0.1	14		0	455	248	1.62	7.7		54	66	0	3.3	120	2.1					
1 23 79	5	0.6	10		8	273	154	1.52	7.2	-22	24	29	0	2.5	77	1.7					
2 21 79	5	0.5	809		1300	313	200	1.50	7.5	-20	26	32	0	3.0	110	1.8					
3 28 79	10	0.3			3	303	206	1.40	7.8	-34	36	44	0	2.1	110	2.0					
4 24 79	14	0.25	6	0.00	5	397	245	1.70	8.0	-54	57	68	0	2.1	120	1.5					
6 8 79	17	0.1	15		6	410	290	1.64	7.9	-45	64	77	0	2.8	150	1.3					
7 13 79	18	0.03	66*	0.01	20	588	404	1.42	8.3	-88	92	109	1	2.8	220	0.8	0.4	0.10	1.15	0.35	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
6 22 77	0.0	0.02			3.9	0.0	0.01	0.0	2.6		3.9	0.0		7.5	0.00	0.1	3.4		0.0	0.0
8 16 77	0.0	0.01			6.6	0.0	0.00	0.0	2.4		4.6	0.0		3.3	0.00	0.0	3.8		0.0	0.1
9 23 77	0.0	0.00			9.6	0.0	0.00	0.1	2.8		5.6	0.1		5.2	0.00	0.0	4.0		0.0	0.1
10 31 77	0.0	0.03	0.1	0.00	14	0.0	0.00	0.0	3.2	0.08	7.6	0.1	0.0	5.0	0.01	0.0	3.4	2.0	0.0	0.0
1 23 78	0.0	0.00	0.1	0.00	9.7	0.0	0.00	0.3	1.9	0.02	7.1	0.5	0.0	2.5	0.03	0.0	3.6	0.1	0.1	0.0
2 22 78	0.0	0.01			11	0.0	0.00	0.1	2.6		8.0	0.4		3.4	0.01	0.0	3.5		0.0	0.0
3 27 78	0.0	0.00			12	0.0	0.00	0.2	2.5		8.3	0.4		3.1	0.00	0.0	3.7		0.0	0.0
4 24 78	0.0	0.00	0.1	0.00	17	0.0	0.01	0.0	4.5	0.01	12	0.7	0.0	5.5	0.01	0.0	3.2	0.2	0.0	0.0
5 15 78	0.1	0.01			15	0.0	0.00	0.1	3.4		9.6	0.4		3.7	0.01	0.0	3.7		0.0	0.0
6 13 78	0.1	0.01			18	0.0	0.00	0.0	3.7		11	0.5		5.3	0.02	0.0	3.3		0.0	0.0
7 17 78	0.1	0.03	0.1	0.00	37	0.1	0.01	0.1	5.4	0.15	26	1.1	0.0	7.0	0.05	0.1	3.6	0.3	0.4	0.0
8 14 78	0.1	0.02			36	0.0	0.01	0.1	6.3		20	1.3		6.1	0.03	0.0	3.3		0.0	0.0
9 28 78	0.1	0.03	0.1	0.00	50	0.0	0.00	0.1	6.1	0.25	27	1.0	0.0	12	0.03	0.1	2.8	0.5	0.0	0.0
11 7 78	0.1	0.03			61	0.0	0.00	0.1	6.5		35	0.4		17	0.02	0.1	2.3		0.1	0.0
12 19 78	0.1	0.02			44	0.0	0.00	0.1	4.1		20	1.4		6.3	0.04	0.0	3.2		0.1	0.0
1 23 79	0.1	0.00	0.0	0.00	23	0.0	0.01	0.1	3.5	0.20	15	0.7	0.0	3.1	0.04	0.0	3.1	0.1	0.1	0.0
2 21 79	0.1	0.01	0.0	0.00	35	0.0	0.00	0.0	4.2	0.15	18	1.0	0.0	4.3	0.03	0.0	2.6	0.1	0.0	0.0
3 28 79	0.1	0.01			33	0.0	0.00	0.1	3.5		18	0.7		3.7	0.03	0.1	2.9		0.1	0.0
4 24 79	0.1	0.05	0.1	0.00	43	0.0	0.00	0.0	4.6	0.25	21	1.1	0.0	6.5	0.03	0.0	3.4	0.3	0.0	0.0
6 8 79	0.1	0.03			50	0.0	0.00	0.0	4.6		28	1.4		5.8	0.00	0.1	3.8		0.1	0.1
7 13 79	0.1	0.03	0.3	0.00	65	0.0	0.00	0.0	5.2	0.30	34	1.6	0.0	10	0.03	0.1	3.0	0.5	0.2	0.3

TABLE 59. WATER QUALITY FOR SITE 9113 KANAWHA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 16 77	22	0.5			35	72	44	1.15	6.2		3	4	0	1.8	20	0.2					
9 23 77	17	0.1			10	57	36	1.68	6.6		2	3	0	1.8	15	0.1					
10 31 77	11	0.4	36		8	85	46	1.41	6.5		7	9	0	1.7	20	0.0					
1 23 78	0	1.0			35	72	42	1.27	6.5		3	4	0	2.0	20	0.2					
2 22 78	0	0.7			6	73	45	1.36	6.5		2	3	0	1.8	22	0.2					
3 27 78	6	0.5			10	73	46	1.27	6.0		2	3	0	1.8	22	0.3					
4 24 78	15	0.2	5		20	72	43	1.19	6.5	4	2	2	0	2.1	20	0.6					
5 15 78	12	0.25	18*		20	68	42	1.26	6.4		2	2	0	1.6	21	0.1					
6 13 78					15	70	38	1.62	6.7		2	3	0	0.3	19						
7 17 78	20	0.2	31*		20	60	44	1.29	6.4		3	4	0	1.7	20	0.2					
8 14 78	21	0.15	35*		30	70	38	1.46	6.8		4	5	0	1.0	16	0.3					
9 28 78	19	0.04	22*		1	57	41	1.27	6.6		2	3	0	1.6	19	0.2					
11 7 78	15	0.04	9		5	65	41	1.23	6.5		4	5	0	1.5	20	0.0					
12 19 78	5	0.09			1	69	53	1.17	6.4	2	7	9	0	1.7	25	0.4					
1 23 79	3	0.6	25		0	65	41	1.51	6.5	1	3	4	0	1.6	17	0.3					
2 21 79	4	0.6	225		240	59	38	1.07	5.8		1	1	0	0.9	21	0.2					
3 28 79	12	0.25			2	66	43	1.09	6.1	2	1	1	0	1.6	23	0.2					
4 24 79	17	0.3	22	0.00	10	66	44	1.14	6.0	2	1	1	0	1.4	23	0.2					
6 8 79	16	0.1	10		9	64	48	1.19	6.5	3	6	7	0	1.9	22	0.1					
7 13 79	18	0.015	18*		10	62	36	0.93	6.5	-1	2	3	0	2.0	18	0.1	0.2	0.00	0.85	0.00	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 16 77	0.2	0.01			2.6	0.0	0.00	0.1	2.3		3.4	0.0		1.7	0.00	0.0	4.0		0.0	0.0
9 23 77	0.0	0.00			3.1	0.0	0.00	0.0	1.9		3.6	0.0		1.9	0.00	0.0	3.3		0.0	0.1
10 31 77	0.1	0.02	0.0	0.00	4.0	0.0	0.00	0.0	2.2	0.05	4.0	0.0	0.0	1.6	0.01	0.0	3.3	0.1	0.0	0.0
1 23 78	0.0	0.00	0.0	0.00	3.2	0.0	0.00	0.1	1.3	0.00	4.2	0.1	0.0	1.3	0.03	0.0	3.2	0.1	0.1	0.0
2 22 78	0.0	0.01			3.5	0.0	0.00	0.0	1.8		4.8	0.0		1.5	0.01	0.0	3.4		0.0	0.0
3 27 78	0.0	0.00			3.6	0.0	0.00	0.0	1.9		4.5	0.1		1.6	0.01	0.0	3.6		0.0	0.0
4 24 78	0.1	0.00	0.1	0.00	2.9	0.0	0.01	0.1	2.2	0.00	4.0	0.0	0.0	1.4	0.00	0.0	3.2	0.0	0.0	0.0
5 15 78	0.0	0.01			3.3	0.0	0.00	0.0	1.7		4.0	0.1		1.2	0.01	0.0	3.6		0.0	0.0
6 13 78	0.3	0.00			3.1	0.0	0.00	0.1	2.0		3.7	0.0		1.2	0.01	0.0	3.3		0.0	0.0
7 17 78	0.0	0.01	0.0	0.00	3.5	0.0	0.00	0.1	2.1	0.02	4.0	0.0	0.0	1.3	0.01	0.0	3.6	0.0	0.1	0.0
8 14 78	0.0	0.01			3.2	0.0	0.01	0.1	2.0		3.3	0.0		1.2	0.02	0.0	3.3		0.0	0.0
9 28 78	0.0	0.01	0.0	0.00	3.6	0.0	0.00	0.1	1.9	0.05	3.3	0.0	0.0	1.5	0.00	0.0	3.3	0.0	0.0	0.0
11 7 78	0.0	0.00			3.4	0.0	0.00	0.0	2.0		3.2	0.0		1.4	0.01	0.0	3.1		0.1	0.0
12 19 78	0.0	0.01			4.5	0.0	0.00	0.1	1.9		4.3	0.1		1.2	0.01	0.1	3.4		0.0	0.0
1 23 79	0.1	0.00	0.0	0.00	4.1	0.0	0.01	0.1	1.6	0.09	3.8	0.1	0.0	1.1	0.03	0.0	3.6	0.0	0.1	0.0
2 21 79	0.1	0.00	0.0	0.00	3.2	0.0	0.01	0.1	1.5	0.00	3.3	0.1	0.0	1.0	0.02	0.0	2.6	0.0	0.0	0.0
3 28 79	0.0	0.00			3.5	0.0	0.00	0.0	1.7		3.8	0.1		1.1	0.01	0.0	3.2		0.0	0.0
4 24 79	0.0	0.00	0.1	0.00	3.6	0.0	0.00	0.0	1.8	0.10	4.0	0.0	0.0	1.1	0.01	0.0	3.5	0.0	0.0	0.0
6 8 79	0.1	0.01			3.8	0.1	0.03	0.1	2.0		3.9	0.0		1.2	0.01	0.0	4.0		0.0	0.1
7 13 79	0.0	0.00	0.2	0.00	3.0	0.0	0.00	0.0	1.5	0.03	2.3	0.0	0.0	0.9	0.00	0.0	2.8	0.0	0.0	0.3

TABLE 60. WATER QUALITY FOR SITE 9116 KANAWHA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
1 23 78	1	2.0			10	178	101	1.09	5.9		2	3	0	2.4	60	0.5					
2 22 78	0	0.9			10	180	109	1.00	5.9		2	2	0	2.4	69	0.4					
3 27 78	6	1.5			15	173	103	1.05	5.1		0	0	0	2.2	64	0.5					
4 24 78	14	0.4	5		5	177	106	0.92	6.1		1	1	0	2.4	69	0.3					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
1 23 78	0.3	0.00	0.1	0.00	11	0.1	0.00	0.3	2.0	0.01	9.9	0.9	0.0	1.6	0.07	0.0	4.0	0.2	0.2	0.1
2 22 78	0.1	0.01			11	0.0	0.00	0.2	2.4		10	0.6		1.8	0.04	0.0	3.8		0.0	0.1
3 27 78	0.3	0.00	0.1	0.00	10	0.0	0.00	0.2	3.1	0.04	9.9	0.8	0.0	2.1	0.06	0.0	3.4	0.1	0.0	0.1
4 24 78	0.1	0.00	0.1	0.00	9.6	0.0	0.00	0.2	2.8	0.01	9.5	0.9	0.0	1.8	0.04	0.0	3.6	0.1	0.0	0.1

TABLE 61. WATER QUALITY FOR SITE 9121 LEWIS COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 27 77	16	0.003			30	136	64	3.23	7.2		34	42	0	1.3	14	0.3					
8 31 77	21	0.03			10	124	70	2.50	7.6		34	41	0	1.4	20	0.1					
10 26 77	12	0.04	1		8	115	61	3.16	7.1		26	32	0	1.4	16	0.0					
11 22 77	8	0.15	19		8	100	58	2.69	7.6		22	27	0	1.0	17	0.1					
1 4 78	0	0.05			2	87	55	2.30	7.7		21	26	0	1.3	17	0.1					
2 14 78	1	0.15			0	98	54	2.25	7.5	-20	19	23	0		19	0.1					
3 16 78	4	1.5			10	75	45	1.97	7.5		13	16	0	1.3	16	0.2					
4 12 78	14	0.09	11		10	94	58	2.28	7.8		23	28	0	1.1	18	0.1					
5 8 78	13	0.15	21*		15	86	54	2.14	7.3		20	24	0	1.0	18	0.1					
6 5 78	17	0.1			15	105	68	2.57	7.2		28	34	0	0.5	19	0.3					
7 7 78	19	0.25	66*		10	96	63	2.55	7.5		28	34	0	1.1	18	0.1					
8 3 78	21	0.01	64*		25	110	73	3.79	7.8		46	56	0	0.8	14	0.1					
9 13 78	22	0.05	19*		10	113	67	2.83	7.2		31	38	0	0.5	18	0.2					
10 24 78	12	0.01	29*		10	131	74	3.14	7.7	-37	41	50	0	1.3	18	0.0					
12 6 78	9	0.3	20		5	75	57	1.95	7.5		17	21	0	1.1	19	0.4					
1 15 79	2	0.15	13		3	69	39	2.07	7.1		10	12	0	1.6	13	0.2					
2 15 79	1	0.04	15		6	83	54	2.01	7.2	-16	19	23	0	0.8	18	0.4					
3 11 79	3	0.09	13		5	75	47	2.29	7.2	-7	19	23	0	0.9	14	0.1					
4 18 79	10	0.07	6	0.00	9	81	53	2.18	7.6	-15	19	23	0	0.8	18	0.2					
6 4 79	14	0.02	6		5	90	58	2.39	7.5	-17	23	28	0	0.7	18	0.1					
7 10 79	20	0.0008	18*		0	118	72	3.12	7.7	-31	39	47	0	1.0	18	0.0	0.0	0.00	0.70	0.00	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 27 77	0.0	0.00			11	0.1	0.03	0.0	2.0		3.6	0.0		3.0	0.04	0.0	2.8		0.0	0.1
8 31 77	0.0	0.00			12	0.0	0.00	0.0	1.8		3.5	0.0		3.4	0.00	0.0	3.4		0.0	0.1
10 26 77	0.0	0.02	0.0	0.00	12	0.0	0.00	0.0	1.5	0.04	3.3	0.0	0.0	3.3	0.01	0.0	3.7	0.0	0.0	0.0
11 22 77	0.0	0.00			11	0.0	0.00	0.1	1.4		3.5	0.0		3.2	0.00	0.0	3.3		0.0	0.0
1 4 78	0.0	0.00	0.0	0.00	9.1	0.0	0.00	0.0	1.1	0.05	3.4	0.0	0.0	2.6	0.00	0.0	3.0	0.1	0.0	0.0
2 14 78	0.0	0.00			9.5	0.0	0.00	0.0	1.1		3.6	0.0		2.4	0.01	0.0	3.0		0.1	0.0
3 16 78	0.1	0.03			7.1	0.0	0.00	0.1	1.1		2.7	0.0		1.9	0.01	0.0	3.0		0.0	0.0
4 12 78	0.0	0.00	0.0	0.00	9.2	0.0	0.00	0.0	1.4	0.00	3.6	0.0	0.0	2.6	0.00	0.0	3.3	0.0	0.0	0.0
5 8 78	0.0	0.01			8.8	0.0	0.00	0.0	1.4		3.3	0.0		2.4	0.01	0.0	3.3		0.0	0.0
6 5 78	0.0	0.00			11	0.0	0.00	0.0	1.4		4.0	0.0		3.0	0.01	0.1	4.8		0.1	0.0
7 7 78	0.0	0.01	0.0	0.00	11	0.0	0.00	0.0	1.7	0.05	3.6	0.0	0.0	2.3	0.00	0.0	3.6	0.0	0.0	0.0
8 3 78	0.0	0.01			13	0.0	0.00	0.0	2.0		3.8	0.0		2.8	0.02	0.1	4.0		0.0	0.0
9 13 78	0.1	0.00	0.0	0.00	12	0.0	0.00	0.1	2.0	0.09	3.8	0.0	0.0	2.6	0.01	0.1	3.7	0.1	0.1	0.0
10 24 78	0.0	0.00			14	0.0	0.00	0.0	1.5		3.9	0.0		2.9	0.01	0.0	3.3		0.0	0.0
12 6 78	0.1	0.00			8.9	0.0	0.00	0.0	1.7		2.6	0.0		3.1	0.04	0.1	3.7		0.1	0.0
1 15 79	0.0	0.00			7.0	0.0	0.00	0.0	0.9		2.2	0.0		1.5	0.01	0.0	2.9		0.1	0.0
2 15 79	0.0	0.00			9.5	0.0	0.01	0.0	1.4		2.6	0.0		2.4	0.01	0.0	2.5		0.0	0.0
3 11 79	0.1	0.00			7.8	0.0	0.00	0.0	1.2		2.7	0.0		1.8	0.02	0.0	3.0		0.1	0.0
4 18 79	0.0	0.00	0.0	0.00	8.9	0.0	0.01	0.0	1.4	0.04	3.1	0.0	0.0	2.3	0.01	0.0	3.0	0.0	0.0	0.0
6 4 79	0.0	0.01			10	0.0	0.01	0.0	1.5		3.4	0.0		2.1	0.00	0.0	3.6		0.0	0.0
7 10 79	0.0	0.01	0.0	0.00	14	0.0	0.00	0.1	1.6	0.10	4.4	0.0	0.0	2.5	0.01	0.0	3.7	0.0	0.0	0.0

TABLE 62. WATER QUALITY FOR SITE 9122 LEWIS COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 27 77	20	0.3			330	391	221	1.61	7.2		80	98	0	2.5	100	0.1					
8 31 77	26	0.1			90	479	306	1.91	7.4		108	132	0	2.6	130	0.1					
10 26 77	8	0.07	54		10	574	464	2.11	8.0		148	178	1	1.8	200	0.4					
11 22 77	8	0.1	56		25	563	397	1.82	8.0		118	142	1	1.5	190	0.2					
1 4 78	0	0.06			6	663	478	1.98	8.2		131	157	2	2.4	220	0.9					
2 14 78	1	0.2			4	782	587	1.50	8.2		99	118	1	2.0	320	1.7					
3 16 78	6	0.4			85	576	343	2.09	8.0		105	126	1	1.8	150	1.7					
4 12 78	17	0.09	6		15	641	465	1.86	7.9		143	173	1	1.7	210	0.5					
5 8 78	15	0.1	26*		55	570	368	2.18	8.1		130	155	1	1.2	150	0.6					
6 5 78	22	0.06			10	650	465	1.83	8.1		155	186	2	0.7	210	0.9					
7 7 78	26	0.3	59*		30	531	349	2.36	8.4		142	167	3	1.2	130	0.2					
8 3 78	28	0.1	49*		25	498	323	2.82	8.3		143	171	2	1.1	110	0.1					
9 13 78	25	0.04	51*		90	467	333	1.91	8.2		111	132	1	2.5	150	0.2					
10 24 78	12	0.01	26*		7	612	386	2.08	8.3		148	175	2	1.6	160	0.0					
12 6 78	11	0.3	132		55	762	504	2.37	8.4		176	208	4	2.7	190	3.0					
1 15 79	3	0.5	81		55	554	364	1.91	8.3		116	138	2	1.1	160	1.1					
2 15 79	0	0.1	76		15	600	427	1.95	8.0		138	166	1	0.7	190	1.4					
3 11 79	5	0.2	66		20	593	418	2.10	7.9		136	164	1	1.5	180	1.2					
4 18 79	11	0.15	44	0.00	5	643	444	1.95	8.4		148	175	3	1.0	200	0.6					
6 4 79	18	0.006	34		15	639	357	1.32	8.3		130	155	2	1.0	180	0.5					
7 10 79	20	0.02	44*		9	608	385	1.96	8.4		155	183	3	1.1	160	0.2	0.0	0.05	1.05	0.25	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 27 77	0.2	0.01			35	0.1	0.03	0.1	5.5		11	0.3		14	0.05	0.0	1.5		0.0	0.0
8 31 77	0.2	0.00			50	0.0	0.02	0.1	5.3		19	0.2		28	0.01	0.0	1.2		0.0	0.1
10 26 77	0.1	0.02	0.1	0.00	78	0.0	0.00	0.0	4.1	0.15	26	0.1	0.0	62	0.02	0.0	1.6	0.4	0.0	0.0
11 22 77	0.1	0.00			70	0.0	0.00	0.1	3.9		28	0.2		31	0.01	0.0	1.5		0.0	0.0
1 4 78	0.1	0.00	0.1	0.00	79	0.0	0.00	0.0	3.4	0.40	34	0.3	0.0	53	0.01	0.0	1.6	0.9	0.0	0.0
2 14 78	0.1	0.08			94	0.0	0.00	0.0	3.6		38	0.5		54	0.02	0.0	2.0		0.1	0.0
3 16 78	0.2	0.07			64	0.0	0.00	0.1	2.9		25	0.3		28	0.01	0.0	2.4		0.0	0.0
4 12 78	0.2	0.03	0.0	0.00	66	0.0	0.00	0.1	4.1	0.10	33	0.3	0.0	53	0.01	0.0	1.0	0.7	0.1	0.0
5 8 78	0.1	0.03			66	0.0	0.00	0.1	3.2		27	0.3		34	0.02	0.0	1.7		0.1	0.0
6 5 78	0.1	0.04			61	0.1	0.00	0.1	3.9		32	0.1		56	0.02	0.1	1.3		0.3	0.0
7 7 78	0.1	0.04	0.1	0.00	61	0.0	0.01	0.1	3.8	0.25	25	0.1	0.0	32	0.01	0.1	1.9	0.5	0.1	0.0
8 3 78	0.2	0.03			62	0.0	0.01	0.1	4.7		22	0.1		32	0.03	0.1	2.4		0.1	0.0
9 13 78	0.2	0.00			55	0.0	0.01	0.1	6.1		22	0.1		28	0.02	0.1	1.6		0.1	0.1
10 24 78	0.1	0.02	0.1	0.00	72	0.0	0.00	0.0	2.9	0.40	24	0.0	0.0	32	0.02	0.1	0.8	0.6	0.1	0.0
12 6 78	0.2	0.01			90	0.0	0.02	0.1	4.6		25	0.2		66	0.03	0.1	2.7		0.1	0.0
1 15 79	0.2	0.00			73	0.0	0.00	0.1	2.9		21	0.2		26	0.02	0.1	2.0		0.1	0.0
2 15 79	0.1	0.02			86	0.0	0.01	0.0	3.2		25	0.4		31	0.02	0.1	1.7		0.1	0.0
3 11 79	0.2	0.02			87	0.0	0.01	0.1	3.2		28	0.2		28	0.03	0.1	2.0		0.1	0.0
4 18 79	0.1	0.01	0.0	0.00	76	0.0	0.00	0.0	3.5	0.30	31	0.1	0.0	39	0.01	0.0	1.1	0.8	0.1	0.0
6 4 79	0.2	0.02			46	0.0	0.02	0.0	4.1		18	0.1		23	0.00	0.1	2.4		0.1	0.0
7 10 79	0.2	0.02	0.3	0.00	62	0.0	0.02	0.1	4.5	0.40	24	0.1	0.0	33	0.03	0.1	1.3	0.7	0.1	0.3

TABLE 63. WATER QUALITY FOR SITE 9123 LEWIS COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 27 77	20	0.008				685	457	1.04	7.2		36	44	0	1.7	310	0.3					
8 31 77	26	0.015			30	690	426	1.17	7.3		30	37	0	1.4	280	0.0					
10 26 77	13	0.03	7		4	806	515	1.44	7.4		70	86	0	1.6	300	0.1					
11 22 77	8	0.07	92		70	733	559	1.24	7.9		41	49	0	1.4	360	0.2					
1 4 78	0	0.025			15	862	455	1.30	8.1		65	78	1	2.0	280	0.3					
2 14 78	2	0.06			0	811	591	1.37	8.1		68	82	1	1.7	360	0.3					
3 16 78	5	0.7			230	469	318	1.37	7.0		42	51	0	9.6	180	0.4					
4 12 78	16	0.1	7		8	663	435	1.33	8.0		72	87	1	1.6	260	0.1					
5 8 78	15	0.1	24*		55	399	233	1.61	7.4		49	60	0	1.7	120	0.2					
6 5 78	24	0.03			10	715	510	1.17	7.7		75	90	0	1.0	320	0.1					
7 7 78	24	0.1	118*		30	602	415	1.32	7.9		48	57	0	1.1	250	0.2					
8 3 78	28	0.09	174*		55	636	432	1.47	8.1		52	63	1	1.0	250	0.1					
9 13 78	26	0.03	10		0	675	541	1.16	7.3		61	75	0	1.2	340	0.4					
10 24 78	10	0.002	27*		7	712	521	1.21	8.0	-69	67	81	1	2.0	320	0.2					
12 6 78	12	0.06	102		55	573	354	1.56	7.7	-44	57	70	0	22	170	0.2					
1 15 79	2	0.09	41		40	400	265	1.59	7.8		39	48	0	0.8	150	0.2					
2 15 79	0	0.1	151		95	459	315	1.35	7.5	-34	38	46	0	1.0	190	0.6					
3 11 79	4	0.15	4		20	462	309	1.19	7.5	-40	39	47	0	1.3	190	0.2					
4 18 79	15	0.1	7	0.00	10	625	473	1.38	7.9	-58	61	74	0	1.1	280	0.3					
6 4 79	20	0.003	5		8	634	417	1.24	7.8	-58	65	78	0	0.8	250	0.1					
7 10 79	20	0.007	8		0	675	487	1.10	8.1	-57	61	73	1	0.9	310	0.0	0.1	0.01	0.45	0.10	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 27 77	0.2	0.01			78	0.1	0.03	0.1	3.4		28	0.9		9.3	0.08	0.0	2.2		0.0	0.0
8 31 77	0.1	0.00			84	0.0	0.00	0.0	3.1		26	0.4		9.2	0.02	0.0	2.5		0.0	0.0
10 26 77	0.1	0.01	0.0	0.00	120	0.0	0.00	0.1	2.6	0.25	33	0.6	0.1	11	0.03	0.0	3.2	0.3	0.1	0.0
11 22 77	0.1	0.00			110	0.0	0.00	0.1	3.2		38	2.8		12	0.05	0.0	3.7		0.1	0.0
1 4 78	0.1	0.00	0.0	0.00	88	0.0	0.00	0.0	1.8	0.45	34	0.4	0.0	7.3	0.01	0.0	2.6	0.3	0.0	0.0
2 14 78	0.1	0.08			120	0.0	0.00	0.2	2.4		48	1.5		9.7	0.05	0.0	3.2		0.1	0.0
3 16 78	0.0	0.01			61	0.0	0.03	0.2	2.4		23	0.7		9.1	0.00	0.1	2.7		0.1	0.0
4 12 78	0.2	0.00	0.0	0.00	78	0.0	0.01	0.2	2.7	0.10	33	1.0	0.0	9.9	0.02	0.1	3.0	0.3	0.1	0.0
5 8 78	0.1	0.01			46	0.0	0.00	0.1	1.7		19	0.5		5.6	0.02	0.0	2.6		0.1	0.0
6 5 78	0.1	0.02			91	0.1	0.00	0.0	2.8		34	0.3		9.5	0.03	0.2	3.0		0.3	0.0
7 7 78	0.1	0.03	0.0	0.00	83	0.1	0.02	0.1	3.0	0.30	30	0.1	0.0	6.8	0.03	0.3	3.0	0.2	0.4	0.0
8 3 78	0.2	0.02			98	0.0	0.01	0.1	3.8		29	0.1		9.0	0.04	0.2	3.0		0.1	0.0
9 13 78	0.2	0.00	0.0	0.00	100	0.0	0.00	0.1	3.8	0.55	34	0.8	0.0	8.9	0.05	0.2	3.4	0.3	0.2	0.0
10 24 78	0.2	0.01	0.0	0.00	110	0.0	0.01	0.0	2.7	0.50	30	0.1	0.0	9.8	0.02	0.1	2.6	0.2	0.1	0.0
12 6 78	0.1	0.00			69	0.1	0.03	0.1	2.4		19	0.5		28	0.05	0.1	3.1		0.1	0.1
1 15 79	0.2	0.00			63	0.0	0.00	0.1	1.5		18	0.5		4.8	0.03	0.1	2.7		0.1	0.0
2 15 79	0.1	0.01			70	0.0	0.01	0.1	1.6		19	1.0		5.3	0.04	0.1	2.3		0.1	0.0
3 11 79	0.1	0.00			57	0.0	0.01	0.0	1.6		21	0.7		5.1	0.04	0.0	2.6		0.0	0.1
4 18 79	0.2	0.01	0.0	0.00	100	0.0	0.02	0.2	1.9	0.50	34	0.6	0.0	6.5	0.04	0.1	2.4	0.3	0.1	0.0
6 4 79	0.2	0.01			79	0.0	0.01	0.0	2.6		27	0.2		8.1	0.00	0.1	2.8		0.1	0.0
7 10 79	0.1	0.01	0.2	0.00	92	0.0	0.00	0.1	2.6	0.35	27	0.0	0.1	8.6	0.01	0.1	2.4	0.2	0.1	0.3

TABLE 66. WATER QUALITY FOR SITE 9133 LOGAN COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
6 28 77	17	0.08			8	637	363	2.72	8.3		182	216	3	1.7	120	0.3					
8 16 77	18	0.8			10	435	284	1.11	7.0		22	27	0	1.0	190	0.7					
9 27 77	16	0.2			4	517	321	1.14	7.2		32	39	0	1.7	200	0.3					
11 3 77	13	0.15	21		10	503	336	1.39	6.9		26	32	0	0.9	210	0.3					
12 14 77	10	0.2	14		20	462	316	1.30	7.1		21	26	0	1.3	200	0.5					
1 25 78	7	2.0	246		160	306	176	1.26	7.2		16	20	0	0.8	110	0.4					
3 1 78	6	0.5			0	471	322	1.41	7.4		20	25	0	1.1	200	0.5					
4 5 78	14	0.4	4		8	506	330	1.21	7.4		25	31	0	0.9	210	0.5					
4 25 78	17	0.07	6		0	536	355	1.23	7.4		30	36	0	0.9	230	0.4					
5 16 78	11	0.3	23*		5	475	274	1.27	7.0		19	23	0	0.9	170	0.6					
6 22 78	18	0.2	38*		4	498	344	1.34	7.5		25	30	0	0.6	220	0.3					
7 21 78	21	0.2	41*		90	509	330	1.34	7.8		30	36	0	0.6	200	0.4					
8 15 78	18	0.07	23*		0	472	273	1.46	7.7		29	35	0	0.4	160	0.3					
9 28 78	19	0.03	23*		3	492	325	1.12	7.8		35	43	0	1.3	210	0.2					
11 17 78	15	0.05	4		3	484	298	1.41	8.0	-45	44	53	0	1.2	170	0.2					
12 13 78	9	0.15	11		1	401	283	1.10	7.6	-14	24	29	0	0.8	180	1.3					
1 31 79	5	0.6	13		0	461	320	1.07	7.1	-15	15	18	0	1.3	220	0.5					
3 1 79	10	0.3	15		2	411	285	1.25	7.3	-13	16	19	0	0.7	190	0.5					
4 5 79	11	0.4	12		1	363	238	1.33	7.3		17	21	0	0.8	150	0.4					
5 1 79	15	0.2	4	0.00	0	440	322	1.35	7.4	-19	24	29	0	0.9	200	0.5					
6 20 79		0.06	18		25	356	196		7.6	-12	22	27	0		110	2.6					
7 19 79	17	0.07	2		10	417	217	1.04	7.4	-14	19	23	0	0.9	140	1.7	0.5	0.04	0.45	0.05	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
6 28 77	0.0	0.00			53	0.0	0.00	0.0	4.8		35	0.0		32	0.02	0.0	1.7		0.0	0.1
8 16 77	0.0	0.01			29	0.0	0.00	0.0	4.1		33	0.2		4.0	0.00	0.0	4.0		0.0	0.1
9 27 77	0.1	0.00			48	0.0	0.00	0.0	3.6		25	0.0		8.4	0.01	0.0	3.6		0.0	0.2
11 3 77	0.1	0.04	0.0	0.00	50	0.0	0.00	0.1	4.3	0.20	38	0.0	0.0	7.6	0.02	0.0	4.6	0.3	0.0	0.0
12 14 77	0.1	0.00			38	0.0	0.00	0.1	4.1		41	0.2		3.8	0.04	0.0	4.5		0.1	0.0
1 25 78	0.2	0.00	0.0	0.00	20	0.0	0.00	0.3	3.1	0.10	21	0.2	0.0	3.0	0.02	0.0	3.1	0.1	0.0	0.0
3 1 78	0.0	0.00			40	0.0	0.00	0.1	4.0		45	0.1		5.2	0.04	0.0	4.4		0.1	0.0
4 5 78	0.1	0.00	0.0	0.00	41	0.0	0.01	0.0	4.2	0.05	36	0.2	0.0	7.6	0.02	0.0	3.5	0.2	0.1	0.0
4 25 78	0.1	0.00	0.0	0.00	46	0.0	0.00	0.1	4.1	0.04	39	0.1	0.0	6.2	0.01	0.0	4.4	0.2	0.0	0.0
5 16 78	0.1	0.02			30	0.0	0.00	0.1	3.8		35	0.2		4.1	0.04	0.0	4.7		0.1	0.0
6 22 78	0.1	0.03			47	0.1	0.00	0.1	4.1		42	0.1		5.0	0.01	0.0	4.8		0.1	0.0
7 21 78	0.1	0.00	0.0	0.00	47	0.0	0.01	0.1	4.6	0.10	36	0.0	0.0	7.3	0.03	0.0	5.0	0.2	0.0	0.0
8 15 78	0.1	0.02			41	0.0	0.01	0.1	4.1		31	0.0		6.0	0.02	0.1	4.8		0.1	0.0
9 28 78	0.1	0.01	0.0	0.00	42	0.0	0.00	0.1	3.8	0.15	30	0.0	0.1	5.6	0.02	0.1	4.2	0.2	0.0	0.0
11 17 78	0.1	0.00			44	0.0	0.02	0.0	4.0		29	0.0		11	0.03	0.0	4.4		0.1	0.0
12 13 78	0.1	0.00			37	0.0	0.01	0.0	3.4		27	0.1		4.0	0.02	0.0	3.5		0.1	0.0
1 31 79	0.1	0.00	0.0	0.00	41	0.0	0.01	0.0	3.4	0.15	32	0.2	0.0	3.6	0.04	0.0	3.9	0.2	0.0	0.0
3 1 79	0.1	0.01			38	0.0	0.01	0.0	3.4		33	0.2		3.4	0.04	0.0	3.7		0.1	0.0
4 5 79	0.1	0.00			33	0.0	0.00	0.0	3.2		29	0.2		2.6	0.03	0.0	3.2		0.0	0.0
5 1 79	0.1	0.01			47	0.0	0.01	0.0	3.2		38	0.1		4.2	0.03	0.1	4.0		0.1	0.0
6 20 79	0.1	0.01			21	0.0	0.03	0.1	3.3		22	0.1		2.8	0.02	0.0	3.7		0.0	0.1
7 19 79	0.1	0.00	0.1	0.00	24	0.0	0.01	0.1	3.0	0.15	21	0.1	0.1	3.1	0.01	0.0	3.4	0.1	0.0	0.2

TABLE 67. WATER QUALITY FOR SITE 9140 MARION COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 7 77	27	0.06			40	1920	1720	0.90	4.8		0	0	0	1.6	1200	0.9					
10 18 77	14	0.004	5		70	1320	952	0.73	4.1		0	0	0	5.8	700	1.1					
11 21 77	11	0.01	8		10	930	748	1.11	3.4		0	0	0	4.5	500	0.9					
2 10 78	2	0.08			8	2050	1760	0.76	3.1		0	0	0	2.3	1300	0.4					
3 14 78	3	0.2			350	589	419	1.05	3.5		0	0	0	1.2	290	0.5					
4 11 78	19	0.03	9		20	1970	1700	0.77	3.4		0	0	0	1.8	1200	0.3					
5 5 78	15	0.02	24*		50	1340	1090	0.74	3.4		0	0	0	2.5	810	0.4					
6 3 78	24	0.04			15	2000	1620	0.73	3.1		0	0	0	1.0	1200	0.1					
7 6 78	26	0.09	41*		10	1100	848	0.79	3.2		0	0	0	2.2	620	0.3					
7 28 78	26	0.09	80*		70	873	630	1.05	4.4		0	0	0	3.9	430	0.9					
9 13 78	24	0.02	40*		20	2260	1690	0.78	3.0		0	0	0	1.9	1200	0.1					
10 17 78	12	0.01	30*		65	1660	1360	0.85	3.7	170	0	0	0	3.9	970	0.0					
12 1 78	11	0.02	19		20	380	203	0.97	4.8	10	0	0	0	2.7	140	0.4					
1 12 79	4	0.1	15		2	1590	1160	0.89	3.1		0	0	0	2.7	810	0.1					
2 14 79	4	0.05			2	1690	1200	0.88	3.1	230	0	0	0	2.9	840	0.1					
3 10 79	11	0.07	21		4	1700	1510	0.73	3.2	210	0	0	0	2.4	1100	0.2					
4 17 79	11	0.07	26	0.00	20	1660	1310	0.73	3.0	230	0	0	0	3.0	970	0.1					
5 30 79	18	0.02	23		15	1440	981	0.87	3.1	160	0	0	0	2.3	700	0.1					
7 9 79	20	0.005	15		5	1660	1210	0.74	3.1	160	0	0	0	3.0	890	0.1	0.0	0.04	1.04	0.05	0.03
11 9 79	8	0.03			10	1630	1330	0.78	3.1	260	0	0	0	3.1	960	0.0					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 7 77	2.5	0.03			340	0.3	0.08	0.3	3.4		73	9.3		9.1	0.37	0.2	16		0.0	0.4
10 18 77	9.8	0.00	0.1	0.00	150	0.2	0.17	10	4.2	0.60	36	4.3	0.0	6.6	0.17	0.2	7.1	0.8	0.1	0.2
11 21 77	3.5	0.04			160	0.1	0.07	2.2	3.5		42	6.1		5.5	0.14	0.0	5.2		0.1	0.2
2 10 78	33	0.05	0.1	0.01	250	0.4	0.07	25	4.1	0.25	90	14	0.0	8.1	0.47	0.1	18	1.5	0.3	0.8
3 14 78	0.4	0.02			76	0.2	0.02	1.0	3.3		30	3.5		2.1	0.09	0.1	3.9		0.4	0.1
4 11 78	32	0.03	0.0	0.01	250	0.3	0.09	12	3.9	0.40	92	17	0.2	6.1	0.43	0.1	15	1.4	0.3	0.6
5 5 78	16	0.04			150	0.2	0.04	7.9	3.4		56	7.7		6.8	0.26	0.1	12		0.3	0.4
6 3 78	37	0.06			220	0.4	0.09	9.8	3.1		85	12		6.4	0.42	0.4	16		0.8	0.7
7 6 78	15	0.02	0.1	0.01	120	0.1	0.04	5.0	3.7	0.50	46	5.8	0.1	2.8	0.19	0.1	11	0.6	0.0	0.3
7 28 78	4.3	0.02			120	0.1	0.02	0.6	5.7		37	5.3		3.4	0.15	0.2	7.3		0.1	0.2
9 13 78	40	0.01	0.0	0.02	230	0.3	0.12	25	2.2	2.0	92	11	0.1	6.9	0.55	0.4	31	2.0	0.5	0.9
10 17 78	23	0.03			220	0.2	0.06	6.2	3.1		70	12		9.4	0.33	0.2	18		0.2	0.5
12 1 78	0.5	0.01			40	0.0	0.00	0.4	2.2		9.7	1.7		1.3	0.05	0.1	2.3		0.0	0.1
1 12 79	26	0.03	0.0	0.01	180	0.2	0.08	13	1.6	1.0	68	6.4	0.0	5.5	0.33	0.3	19	1.1	0.3	0.5
2 14 79	29	0.04			190	0.2	0.08	12	1.9		71	6.4		7.5	0.35	0.4	21		1.0	0.5
3 10 79	26	0.04			210	0.2	0.08	7.9	2.0		78	6.6		6.6	0.34	0.2	17		0.3	0.4
4 17 79	31	0.04			180	0.2	0.06	12	1.3		69	5.5		5.5	0.29	0.2	16		0.4	0.4
5 30 79	18	0.04			150	0.2	0.06	7.0	1.9		62	5.0		5.3	0.22	0.2	17		0.2	0.4
7 9 79	22	0.03	0.0	0.00	170	0.1	0.05	4.9	2.4	1.0	61	6.0	0.0	5.4	0.23	0.2	16	1.5	0.2	0.4
11 9 79	23	0.05			180	0.2	0.06	17	1.8		80	6.6		6.6	0.31	0.2	22		0.2	0.5

TABLE 68. WATER QUALITY FOR SITE 9141 MARION COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 8 77	22	0.25			4	321	179	6.05	7.8		102	123	0	7.2	28	0.2					
10 18 77	9	0.4			20	210	107	3.14	7.9		55	66	0	5.7	24	0.3					
11 21 77	9	0.4	49		20	209	123	3.24	7.3		55	67	0	6.0	30	0.8					
1 3 78	0	0.2			6	245	123	3.47	8.3		66	78	1	8.1	25	1.1					
2 10 78	1	0.7			4	192	123	2.92	7.2		45	55	0	7.9	32	1.1					
3 14 78	2	7			150	112	67	2.11	7.5		15	18	0	3.2	21	1.4					
4 11 78	16	0.15	8		30	205	104	2.36	7.6		56	68	0	4.9	28	0.6					
5 5 78	12	0.25	18*		35	208	116	2.43	7.6		55	67	0	4.6	33	0.7					
6 3 78	16	0.8			100	264	164	3.97	8.3	-88	95	113	1	8.8	32	0.1					
7 6 78	18	1.5	42*		8	180	115	3.41	7.9		54	65	0	3.9	28	0.6					
7 28 78	21	0.25	54*		6	265	157	4.66	8.3		82	98	1	6.9	30	0.7					
9 13 78	22	0.1	21*		4	332	174	4.27	8.2		94	113	1	7.0	35	0.5					
10 17 78	14	0.1	23*		4	311	185	2.78	7.8	-77	80	97	0	9.3	52	0.8					
12 1 78	9	0.25	2		1	203	102	3.26	7.8	-53	50	61	0	5.1	24	0.4					
1 12 79	2	0.2	7		3	168	94	2.89	7.5		42	51	0	4.8	23	1.1					
2 14 79	0	0.15			0	224	139	3.57	8.0	-53	61	74	0	9.0	31	1.0					
3 10 79	8	0.2	4		5	166	94	2.41	7.6	-39	34	42	0	4.4	28	1.0					
4 17 79	10	0.1	3	0.00	6	180	119	3.40	7.8	-51	57	69	0	4.2	30	0.5					
5 30 79	13	0.1	11		8	198	104	3.00	7.7	-43	57	69	0	3.7	24	0.9					
7 9 79	18	0.15	14		15	260	141	3.19	8.3	-64	70	83	1	6.1	34	0.7	0.2	0.00	0.35	0.10	0.04
11 9 79	9	0.1			5	204	130	3.46	7.9	-56	65	78	0	5.1	31	0.6					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 8 77	0.1	0.05			51	0.0	0.00	0.0	3.4		7.5	0.0		12	0.00	0.0	3.0		0.0	0.0
10 18 77	0.1	0.00	0.0	0.00	21	0.0	0.02	0.1	2.7	0.09	3.9	0.0	0.0	8.2	0.02	0.0	2.8	0.1	0.0	0.0
11 21 77	0.0	0.00			26	0.0	0.00	0.1	3.1		5.4	0.0		9.6	0.01	0.0	3.1		0.0	0.0
1 3 78	0.0	0.01	0.0	0.00	24	0.0	0.00	0.0	2.1	0.15	5.6	0.0	0.0	8.2	0.00	0.0	2.6	0.1	0.0	0.0
2 10 78	0.2	0.07	0.0	0.00	26	0.0	0.00	0.0	2.5	0.00	6.2	0.0	0.0	9.5	0.01	0.0	2.8	0.1	0.0	0.0
3 14 78	0.0	0.03			12	0.1	0.01	0.2	3.4		3.1	0.1		3.5	0.00	0.1	2.5		0.2	0.0
4 11 78	0.1	0.00	0.0	0.00	18	0.0	0.02	0.0	2.5	0.04	4.0	0.0	0.0	6.2	0.00	0.0	2.1	0.1	0.0	0.0
5 5 78	0.1	0.03			22	0.0	0.00	0.1	2.1		5.1	0.0		6.5	0.01	0.0	2.8		0.0	0.0
6 3 78	0.3	0.08			33	0.0	0.00	0.1	3.4		6.7	0.0		14	0.01	0.0	3.1		0.0	0.0
7 6 78	0.0	0.03	0.0	0.00	30	0.0	0.01	0.1	2.6	0.10	4.4	0.0	0.0	4.4	0.00	0.0	2.9	0.1	0.0	0.0
7 28 78	0.1	0.06			44	0.0	0.01	0.1	3.2		5.8	0.0		8.3	0.01	0.1	2.7		0.0	0.0
9 13 78	0.1	0.05	0.1	0.00	45	0.0	0.01	0.0	3.7	0.35	6.4	0.0	0.0	11	0.00	0.0	2.8	0.2	0.0	0.0
10 17 78	0.1	0.10	0.0	0.00	44	0.0	0.00	0.0	2.4	0.35	6.3	0.0	0.1	13	0.01	0.1	2.8	0.1	0.0	0.0
12 1 78	0.0	0.02			21	0.0	0.00	0.0	2.3		4.0	0.0		7.4	0.01	0.0	2.8		0.0	0.0
1 12 79	0.1	0.01	0.0	0.00	20	0.0	0.00	0.0	1.6	0.15	4.2	0.0	0.0	4.7	0.00	0.0	2.5	0.0	0.0	0.0
2 14 79	0.1	0.02			36	0.0	0.00	0.0	2.3		4.9	0.0		9.1	0.01	0.1	2.5		0.2	0.0
3 10 79	0.1	0.02			21	0.0	0.00	0.1	1.9		3.8	0.0		4.4	0.01	0.0	2.3		0.0	0.0
4 17 79	0.1	0.02	0.0	0.00	32	0.0	0.00	0.0	2.0	0.15	4.3	0.0	0.0	5.9	0.01	0.0	1.7	0.0	0.0	0.0
5 30 79	0.2	0.03			21	0.1	0.02	0.0	2.0		4.5	0.0		4.5	0.00	0.1	2.5		0.0	0.0
7 9 79	0.1	0.06	0.2	0.00	33	0.0	0.00	0.0	2.5	0.50	5.5	0.0	0.1	7.0	0.01	0.0	3.2	0.2	0.0	0.4
11 9 79	0.0	0.04			32	0.0	0.00	0.0	2.3		5.7	0.0		6.4	0.00	0.1	3.0		0.0	0.0

TABLE 69. WATER QUALITY FOR SITE 9143 MARION COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
3 14 78	2	0.8	1590		1700	241	142	1.38	7.9		32	39	0	1.2	74	0.8					
4 11 78	19	0.07	6		15	1030	768	1.36	7.0		76	93	0	1.9	480	0.0					
5 5 78	14	0.06	37*		65	940	680	1.38	7.6		101	122	0	1.6	410	0.1					
6 3 78	22	0.15			10	1230	943	1.11	7.7		132	160	1	1.3	610	0.1					
7 6 78	28	0.25	88*		60	725	516	1.51	8.3		112	133	2	1.0	280	0.1					
7 28 78	26	0.4	242*		330	350	234	1.54	8.0		49	59	0	1.4	120	0.8					
1 12 79	2	0.09	7		1	969	725	1.38	7.9		142	171	1	1.5	420	0.1					
3 10 79	10	0.15	17		7	1540	1370	1.50	8.0		220	264	2	1.5	790	0.0					
4 17 79	10	0.1		0.00	3	1350	967	1.19	7.9		134	162	1	0.8	610	0.0					
5 30 79	17	0.03	42		55	1230	789	1.39	8.1		98	118	1	0.5	480	0.1					
11 9 79	9	0.008			8	1020	790	1.19	8.0		123	148	1	1.5	500	0.0					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
3 14 78	0.0	0.03			27	0.0	0.01	0.2	2.8		9.1	0.3		1.6	0.00	0.0	1.5		0.0	0.0
4 11 78	0.2	0.02	0.0	0.00	160	0.0	0.00	0.2	6.7	0.20	60	0.2	0.2	5.5	0.02	0.1	0.3	1.3	0.1	0.0
5 5 78	0.2	0.03			150	0.0	0.00	0.1	6.2		50	0.2		4.7	0.02	0.0	0.5		0.1	0.0
6 3 78	0.2	0.03			170	0.0	0.01	0.1	6.6		67	0.4		6.4	0.02	0.1	0.8		0.2	0.0
7 6 78	0.2	0.02	0.1	0.00	110	0.0	0.01	0.1	6.4	0.40	38	0.1	0.1	3.0	0.00	0.0	2.2	0.6	0.0	0.0
7 28 78	0.2	0.02			51	0.0	0.01	1.0	6.6		14	0.1		1.6	0.01	0.1	1.4		0.1	0.0
1 12 79	0.3	0.01	0.0	0.00	160	0.0	0.01	0.0	4.8	1.5	44	0.1	0.0	4.3	0.04	0.2	1.7	1.1	0.1	0.0
3 10 79	0.4	0.03			330	0.0	0.01	0.1	7.7		93	0.6		8.5	0.07	0.2	1.5		0.4	0.0
4 17 79	0.2	0.03			200	0.0	0.01	0.0	5.9		62	0.1		5.9	0.04	0.2	0.9		0.2	0.0
5 30 79	0.2	0.03			170	0.0	0.00	0.0	5.0		61	0.0		5.3	0.02	0.2	1.3		0.1	0.0
11 9 79	0.1	0.04			150	0.0	0.00	0.0	6.9		54	0.0		4.4	0.02	0.2	1.0		0.2	0.0

TABLE 70. WATER QUALITY FOR SITE 9146 MARION COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
9 8 77	26	0.006			240	1930	1770	1.09	7.7		137	165	1	2.0	1200	0.1					
10 18 77	11	0.04			8	1340	1090	0.90	7.4		127	154	0	6.0	720	0.9					
11 21 77	11	0.04	12		15	1680	1430	1.14	7.4		107	129	0	2.7	920	0.1					
1 3 78	0	0.015			15	2220	1520	1.04	7.4		184	224	0	3.9	960	0.1					
2 10 78	1	0.07			15	1280	1000	1.31	7.9		126	152	1	1.9	610	0.1					
9 13 78	21	0.025	84*		4	2020	1870	0.94	7.9		134	161	1	2.2	1300	0.2					
10 17 78	13	0.002	172*		110	1970	1710	1.12	7.9		190	229	2	2.7	1100	0.0					
12 1 78	10	0.02	71		160	992	637	1.32	8.2		111	133	2	1.9	370	0.2					
7 9 79	17	0.007				2200	1990	0.98	7.8	-150	174	209	1	2.6	1300	0.1	0.0	1.50	4.35	0.20	0.01
11 9 79	9	0.01				1270	941	1.08	8.1		139	166	2	1.7	600	0.0					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
9 8 77	0.5	0.00			360	0.2	0.01	22	6.5		92	32		18	0.05	0.3	2.6		0.1	0.0
10 18 77	0.5	0.00	0.0	0.00	180	0.1	0.03	16	5.2	0.70	47	15	0.0	10	0.04	0.3	2.3	1.2	0.2	0.0
11 21 77	0.1	0.01			280		0.00	23	5.5		84	32		14	0.05	0.1	2.6		0.2	0.0
1 3 78	0.3	0.00	0.1	0.00	270	0.1	0.00	39	5.0	1.5	85	24	0.0	11	0.06	0.1	2.1	2.4	0.2	0.0
2 10 78	0.2	0.03	0.1	0.00	210	0.0	0.00	5.7	6.3	0.00	74	5.4	0.0	6.6	0.05	0.1	1.9	1.8	0.3	0.0
9 13 78	0.5	0.03			330	0.1	0.01	7.0	7.2		100	27		12	0.10	0.4	2.8		0.2	0.0
10 17 78	0.4	0.02			350	0.1	0.01	8.1	5.2		93	25		13	0.07	0.3	2.8		0.3	0.0
12 1 78	0.3	0.01			130	0.0	0.00	7.3	4.1		38	6.9		6.3	0.03	0.2	1.4		0.0	0.0
7 9 79	0.4	0.03	0.1	0.00	380	0.2	0.11	38	5.4	2.0	92	24	0.0	13	0.07	0.3	2.4	2.5	0.5	0.1
11 9 79	0.2	0.01			170	0.0	0.00	8.9	6.3		56	6.5		6.4	0.04	0.2	1.6		0.3	0.0

TABLE 71. WATER QUALITY FOR SITE 9151 MCDOWELL COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 28 77	16	0.07			4	249	144	2.32	7.6		52	63	0	0.8	52	0.2					
11 3 77	12	0.03	23		0	207	109	1.82	7.1		29	35	0	0.5	47	0.1					
12 15 77	5	0.05	12		4	183	116	1.37	7.3		23	28	0	0.7	60	0.1					
2 27 78	3	0.04			0	185	110	1.89	7.6		29	35	0	0.7	48	0.1					
3 28 78	8	0.09			4	208	126	1.55	7.8		33	40	0	0.6	60	0.1					
4 20 78	10	0.02	45*		4	239	136	1.94	7.8		43	52	0	0.6	58	0.1					
5 17 78	12	0.05	25*		15	206	119	1.65	7.0		31	38	0	0.7	55	0.1					
8 16 78	28	0.02	25*		4	195	118	2.32	7.9		45	55	0	0.4	42	0.1					
10 4 78	19	0.004	15		2	244	147	1.68	7.8		50	61	0	2.2	61	0.3					
11 16 78	15	0.005	2		3	243	136	2.26	8.1		57	68	0	1.9	47	0.2					
12 12 78	7	0.005	2		1	140	79	2.22	7.5		26	32	0	0.8	28	0.1					
1 24 79	7	0.07			3	173	106	1.41	7.5	-20	18	22	0	1.3	55	0.1					
2 22 79	5	0.015	5		2	165	112	1.22	7.3	-18	20	25	0	0.7	62	0.1					
3 29 79	10	0.06			6	177	112	1.43	7.6	-22	25	30	0	0.5	57	0.1					
5 11 79	14	0.01	20	0.00	3	199	132	1.54	7.6	-32	39	48	0	0.5	62	0.1					
6 15 79	16	0.004	2		6	235	136	1.48	8.0	-36	47	56	0	2.6	60	0.1					
7 19 79	14	0.003	1		8	247	141	1.84	7.9	-41	47	56	0	1.2	58	0.1	0.0	0.03	0.50	0.00	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 28 77	0.0	0.03			15	0.0	0.02	0.0	2.4		8.1	0.0		25	0.01	0.0	4.0		0.1	0.2
11 3 77	0.0	0.02	0.0	0.00	12	0.0	0.00	0.0	1.9	0.10	6.0	0.0	0.0	15	0.01	0.0	3.7	0.2	0.0	0.0
12 15 77	0.1	0.00	0.0	0.00	12	0.1	0.01	0.1	3.0	0.06	7.7	0.0	0.1	9.9	0.03	0.1	3.3	0.2	0.3	0.0
2 27 78	0.0	0.00			11	0.0	0.00	0.0	1.7		7.0	0.0		17	0.01	0.0	3.3		0.0	0.0
3 28 78	0.0	0.00			12	0.0	0.00	0.0	1.8		7.2	0.0		16	0.00	0.0	3.6		0.0	0.0
4 20 78	0.0	0.00	0.0	0.00	14	0.0	0.00	0.0	2.0	0.03	8.0	0.0	0.0	22	0.00	0.0	2.8	0.2	0.0	0.0
5 17 78	0.0	0.01			14	0.0	0.00	0.0	1.8		7.9	0.0		11	0.02	0.0	3.9		0.0	0.0
8 16 78	0.0	0.00			13	0.0	0.01	0.0	1.9		6.7	0.0		18	0.01	0.0	4.1		0.0	0.0
10 4 78	0.1	0.01	0.0	0.00	15	0.0	0.01	0.0	2.6	0.01	7.8	0.0	0.0	18	0.01	0.1	3.8	0.2	0.1	0.1
11 16 78	0.1	0.00			14	0.0	0.00	0.0	2.0		7.2	0.0		21	0.01	0.0	3.6		0.0	0.0
12 12 78	0.1	0.01			9.3	0.0	0.00	0.1	1.5		4.8	0.0		10	0.02	0.0	3.4		0.0	0.0
1 24 79	0.0	0.00			14	0.0	0.01	0.0	1.6		6.9	0.0		7.5	0.02	0.0	3.5		0.0	0.0
2 22 79	0.0	0.00	0.0	0.00	12	0.0	0.01	0.0	1.6	0.08	5.9	0.0	0.0	10	0.01	0.0	2.9	0.2	0.0	0.0
3 29 79	0.1	0.00	0.0	0.00	14	0.0	0.00	0.0	1.6	0.07	7.0	0.0	0.0	8.9	0.02	0.1	3.2	0.2	0.1	0.0
5 11 79	0.0	0.00			16	0.0	0.00	0.0	1.7		8.0	0.0		11	0.01	0.1	3.4		0.1	0.0
6 15 79	0.0	0.02			14	0.0	0.00	0.0	2.3		6.9	0.0		13	0.02	0.0	3.8		0.0	0.2
7 19 79	0.0	0.00	0.0	0.00	15	0.0		0.0	2.4	0.25	7.6	0.0	0.0	19	0.01	0.0	3.9	0.2	0.0	0.0

TABLE 72. WATER QUALITY FOR SITE 9152 MCDOWELL COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 28 77	17	0.15			4	510	312	2.17	7.7		97	117	0	3.1	140	0.5					
11 3 77	18	0.2	34		25	494	278	2.43	7.7		107	129	0	1.8	110	0.1					
12 15 77	6	0.4	34*		50	455	308	2.04	7.8		102	123	0	1.7	130	2.2					
2 27 78	4	0.2			6	457	284	2.44	8.3		111	132	2	1.7	110	0.6					
3 29 78	10	0.5			15	481	288	2.09	8.4		98	116	2	1.2	120	1.4					
4 20 78	10	0.2	53*		20	485	312	2.19	8.3		111	133	2	1.3	130	2.5					
5 17 78	18	0.09	108*		270	496	305	2.32	7.9		102	123	1	1.2	120	1.5					
6 20 78	26	0.04				476	320	2.59	8.3		125	148	2	1.2	120	0.2					
7 18 78	32	0.2	92*		9	523	326	1.79	8.1		68	82	1	2.1	150	5.5					
8 16 78	21	0.2	25*		10	471	272	2.37	8.2		105	125	1	0.6	110	0.5					
10 4 78	20	0.04	63*		20	472	295	2.04	8.4		139	165	3	1.7	120	0.1					
11 16 78	15	0.15	226		500	499	323	1.75	8.3		87	103	1	2.4	140	5.1					
12 12 78	4	0.1	56		10	584	400	1.63	8.2		118	141	1	2.6	190	2.1					
1 24 79	6	1.0	8140		11000	520	357	1.31	8.1		71	86	1	4.5	180	6.3					
2 22 79	9	0.4	42		50	480	312	1.82	8.1	-75	78	93	1	1.8	150	2.6					
3 29 79	16	0.3			1	467	321	1.82	8.3	-95	108	129	2	1.5	150	1.2					
5 11 79	23	0.15	55	0.00	65	499	351	1.81	8.3	-75	90	107	1	0.9	170	0.8					
6 15 79	20	0.06	14		25	585	424	1.80	8.2		112	134	1	1.5	200	3.4					
7 19 79	27	0.08	22		20	603	402	1.77	8.3		108	129	2	1.2	190	2.1	0.3	0.01	0.55	0.05	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 28 77	0.1	0.03			59	0.0	0.00	0.0	5.6		31	0.0		14	0.02	0.0	2.0		0.0	0.3
11 3 77	0.1	0.02	0.0	0.00	56	0.0	0.00	0.0	4.6	0.15	25	0.3	0.0	12	0.03	0.0	2.5	0.4	0.1	0.0
12 15 77	0.1	0.00	0.1	0.00	50	0.1	0.00	0.1	4.8	0.30	34	0.2	0.0	7.7	0.04	0.0	3.2	0.7	0.3	0.0
2 27 78	0.0	0.00			49	0.0	0.00	0.0	3.9		33	0.1		11	0.02	0.0	3.0		0.0	0.0
3 29 78	0.1	0.00			47	0.0	0.00	0.1	3.7		32	0.1		9.4	0.01	0.0	2.6		0.1	0.0
4 20 78	0.0	0.00	0.1	0.00	53	0.0	0.00	0.1	4.0	0.10	33	0.2	0.0	11	0.00	0.0	1.6	0.5	0.1	0.0
5 17 78	0.1	0.03			57	0.0	0.01	0.1	4.3		33	1.0		9.0	0.03	0.1	3.6		0.2	0.0
6 20 78	0.1	0.02			69	0.0	0.01	0.1	4.6		31	0.1		12	0.02	0.1	2.5		0.1	0.0
7 18 78	0.2	0.01			59	0.0	0.01	0.1	5.9		31	0.0		8.1	0.03	0.1	2.2		0.1	0.0
8 16 78	0.2	0.01			52	0.0	0.01	0.1	5.2		26	0.0		10	0.02	0.1	2.8		0.1	0.0
10 4 78	0.2	0.01	0.1	0.00	50	0.0	0.01	0.1	4.6	0.20	23	0.0	0.0	9.9	0.02	0.1	2.2	0.5	0.1	0.0
11 16 78	0.1	0.00			57	0.0	0.02	0.0	6.9		25	0.0		12	0.03	0.1	1.9		0.0	0.0
12 12 78	0.1	0.00			70	0.0	0.01	0.0	4.4		32	0.1		12	0.01	0.1	2.4		0.1	0.0
1 24 79	0.2	0.00			59	0.0	0.00	0.0	4.4		25	0.1		7.8	0.03	0.1	2.7		0.1	0.0
2 22 79	0.2	0.01	0.0	0.00	59	0.0	0.00	0.1	3.4	0.35	30	0.1	0.0	6.1	0.06	0.2	2.6	0.4	0.3	0.0
3 29 79	0.2	0.01	0.0	0.00	58	0.0	0.00	0.0	3.5	0.30	28	0.1	0.0	7.9	0.03	0.1	2.5	0.6	0.1	0.0
5 11 79	0.1	0.02			68	0.0	0.00	0.0	3.8		34	0.3		8.1	0.01	0.1	2.7		0.1	0.0
6 15 79	0.2	0.01			76	0.0	0.00	0.0	4.5		42	0.1		9.9	0.00	0.1	3.2		0.1	0.0
7 19 79	0.2	0.01	0.2	0.00	74	0.0	0.00	0.1	4.5	0.25	37	0.1	0.1	10	0.00	0.1	2.9	0.6	0.1	0.3

TABLE 73. WATER QUALITY FOR SITE 9153 MCDOWELL COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 27 77	15	0.025			10	242	126	2.64	7.6		57	70	0	0.9	40	0.0					
11 3 77	14	0.06	8		8	197	97	2.73	7.5		41	50	0	0.8	30	0.0					
12 15 77	5	0.09	22*		4	121	71	1.92	7.8		21	26	0	0.5	28	0.1					
2 27 78	0	0.15			8	125	74	1.94	7.5		20	25	0	0.7	30	0.1					
3 29 78	8	0.08			4	106	64	1.64	7.3		17	21	0	0.7	28	0.1					
4 20 78	9	0.05	46*		10	146	86	2.03	7.6		31	38	0	0.7	33	0.1					
5 17 78	14	0.015	33*		20	117	72	1.88	6.9		17	21	0	1.2	29	0.2					
6 20 78	19	0.03				217	98	1.50	7.7		48	59	0	0.8	40	0.2					
7 18 78	21	0.07	91*		20	196	116	2.64	8.1		57	68	0	0.7	35	0.1					
8 16 78	19	0.03	31*		4	218	124	3.63	8.0		70	84	0	0.9	30	0.1					
10 4 78	16	0.006	26*		7	239	145	2.55	8.1		70	85	1	0.8	48	0.0					
11 16 78	15	0.04	12		25	205	107	2.80	7.7		59	72	0	1.1	30	0.1					
12 12 78	6	0.05	3		1	129	78	2.74	7.6	-34	30	36	0	2.3	23	0.3					
1 24 79	4	0.15	9		9	87	58	1.72	7.1		11	14	0	0.5	25	0.2					
2 22 79	4	0.06	38		20	93	61	1.59	7.2	-10	13	16	0	0.6	27	0.1					
3 29 79	12	0.15			2	96	64	1.52	7.2	-10	13	16	0	1.2	29	0.2					
5 11 79	16	0.01	7	0.00	3	117	77	1.90	7.6	-21	22	27	0	0.4	31	0.2					
6 15 79	17	0.004	14		4	141	84	2.19	7.7	-24	33	40	0	1.1	34	0.1					
7 19 79	18	0.008	10		30	164	93	2.05	7.7	-37	37	45	0	0.8	33	0.1	0.0	0.01	0.40	0.05	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 27 77	0.0	0.00			27	0.0	0.00	0.2	2.5		7.8	0.1		4.2	0.01	0.0	4.2		0.0	0.0
11 3 77	0.0	0.00	0.0	0.00	21	0.0	0.00	0.0	2.1	0.07	5.7	0.0	0.0	3.4	0.02	0.0	4.1	0.1	0.0	0.0
12 15 77	0.0	0.00	0.0	0.00	12	0.0	0.00	0.0	1.5	0.09	4.6	0.1	0.0	2.4	0.00	0.0	3.9	0.1	0.0	0.0
2 27 78	0.0	0.00			12	0.0	0.00	0.0	1.8		5.4	0.0		3.2	0.01	0.0	3.9		0.0	0.0
3 29 78	0.0	0.00			9.0	0.0	0.00	0.0	1.6		4.4	0.0		2.6	0.00	0.0	3.6		0.0	0.0
4 20 78	0.0	0.00	0.0	0.00	14	0.0	0.00	0.1	1.9	0.03	6.2	0.0	0.0	3.4	0.01	0.0	3.2	0.1	0.1	0.0
5 17 78	0.0	0.01			12	0.0	0.00	0.1	1.8		5.6	0.0		2.6	0.03	0.1	4.2		0.2	0.0
6 20 78	0.1	0.00			13	0.1	0.04	0.0	2.5		5.0	0.2		3.0	0.03	0.0	1.7		0.0	0.1
7 18 78	0.1	0.01			23	0.0	0.00	0.1	2.8		7.7	0.0		3.1	0.02	0.1	4.1		0.1	0.0
8 16 78	0.1	0.01			27	0.1	0.01	0.1	2.7		9.3	0.0		3.2	0.03	0.1	4.0		0.1	0.0
10 4 78	0.1	0.01	0.0	0.00	31	0.0	0.00	0.0	2.9	0.08	9.9	0.0	0.0	3.3	0.01	0.1	3.3	0.1	0.0	0.0
11 16 78	0.1	0.00			21	0.0	0.00	0.1	2.6		6.3	0.0		3.0	0.01	0.1	3.2		0.0	0.0
12 12 78	0.1	0.00			16	0.0	0.01	0.0	1.9		4.8	0.0		3.1	0.01	0.0	3.4		0.1	0.0
1 24 79	0.1	0.00			9.7	0.0	0.01	0.0	1.7		3.5	0.0		2.1	0.03	0.0	3.8		0.0	0.0
2 22 79	0.1	0.01	0.0	0.00	9.7	0.0	0.01	0.1	1.5	0.15	3.8	0.0	0.0	1.7	0.05	0.1	3.6	0.0	0.2	0.0
3 29 79	0.0	0.01	0.0	0.00	9.7	0.0	0.00	0.0	1.7	0.10	4.0	0.0	0.0	2.3	0.02	0.0	3.2	0.1	0.1	0.0
5 11 79	0.0	0.00			13	0.0	0.01	0.0	2.1		4.7	0.0		3.0	0.00	0.0	3.9		0.0	0.0
6 15 79	0.0	0.01			18	0.0	0.01	0.0	2.0		6.4	0.0		2.7	0.00	0.0			0.0	0.1
7 19 79	0.0	0.00	0.2	0.00	17	0.0	0.00	0.1	1.9	0.10	5.5	0.0	0.0	2.7	0.00	0.0	4.2	0.1	0.0	0.2

TABLE 74. WATER QUALITY FOR SITE 9171 MINERAL COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L				MILLIGRAMS PER LITER										
8 27 77	17	0.01			20	176	89	4.21	7.5		50	61	0	1.8	17	0.3					
10 17 77	7	0.05			15	155	83	3.62	7.6		38	46	0	2.8	18	0.3					
11 29 77	4	0.4	2		6	148	71	2.02	7.7		20	24	0	1.9	25	0.6					
12 30 77	1	0.6	0		4	122	68	1.94	7.7		18	22	0	2.6	24	0.6					
2 8 78	0	0.4			4	120	72	2.10	7.5		19	23	0	2.3	23	1.1					
3 8 78	1	0.8			8	121	72	1.90	7.6		18	22	0	2.3	24	1.2					
4 6 78	8	0.7	7		10	113	68	1.85	7.3		20	25	0	2.0	22	1.3					
5 3 78	10	0.3	24*		15	113	70	2.25	6.9		20	24	0	2.1	22	0.8					
5 31 78	19	0.4			0	112	65	2.68	7.2		23	28	0	1.4	17	0.8					
6 28 78	18	0.4	48*		10	119	69	2.98	7.6		27	33	0	1.8	18	0.3					
7 26 78	19	0.4	67*		6	137	82	3.88	7.9		43	52	0	1.7	16	0.3					
9 7 78	21	0.08	42*		20	146	106	2.23	8.0		49	59	0	2.0	33	0.1					
10 19 78	12	0.03	21*		7	142	86	3.52	7.6	-41	43	53	0	3.0	18	0.2					
11 29 78	9	0.06	6		3	142	76	3.08	7.9		36	44	0	4.1	17	0.3					
1 10 79	2	0.5	48		2	109	72	1.90	6.9		18	22	0	2.7	23	1.5					
2 7 79	0	0.15	18		3	110	67	1.75	7.1	-19	16	19	0	1.8	25	1.0					
3 8 79	5	1.0	6		7	94	63	1.76	7.0	-8	15	18	0	1.4	22	1.3					
4 13 79	9	0.25	5	0.00	2	105	64	1.93	7.2		16	20	0	1.7	22	0.9					
6 1 79	15	0.1	10		8	111	68	2.39	7.5	-17	24	29	0	1.8	19	0.8					
7 6 79	15	0.1	32*		20	141	81	2.35	7.7	-28	33	40	0	1.8	23	0.7	0.3	0.04			0.02
11 8 79	7	0.8			5	105	64	2.33	7.1	-16	20	25	0	1.9	19	0.8					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 27 77	0.0	0.00			18	0.0	0.00	0.0	2.0		3.8	0.0		6.7	0.01	0.0	4.0		0.0	0.1
10 17 77	0.0	0.03	0.0	0.00	15	0.0	0.00	0.1	1.7	0.04	4.4	0.0	0.0	7.8	0.00	0.0	4.0	0.1	0.0	0.0
11 29 77	0.0	0.00	0.1	0.00	13	0.0	0.00	0.0	1.7	0.10	4.2	0.0	0.0	3.2	0.00	0.0	3.5	0.1	0.0	0.0
12 30 77	0.0	0.00	0.0	0.00	13	0.0	0.00	0.0	1.5	0.10	3.5	0.0	0.0	3.0	0.00	0.0	3.2	0.1	0.0	0.0
2 8 78	0.0	0.01			12	0.1	0.00	0.1	1.7		4.3	0.0		3.4	0.02	0.0	4.1		0.2	0.0
3 8 78	0.0	0.01			11	0.0	0.00	0.1	1.4		4.2	0.1		4.0	0.01	0.1	3.5		0.7	0.0
4 6 78	0.0	0.00	0.0	0.00	11	0.0	0.00	0.0	1.5	0.03	3.5	0.0	0.0	3.1	0.00	0.0	3.3	0.0	0.0	0.0
5 3 78	0.0	0.02			12	0.1	0.00	0.0	1.7		4.2	0.0		3.3	0.03	0.0	4.0		0.2	0.0
5 31 78	0.1	0.00			12	0.0	0.00	0.1	1.8		3.7	0.0		3.2	0.04	0.0	4.2		0.0	0.0
6 28 78	0.0	0.00	0.1	0.00	14	0.0	0.00	0.0	1.8	0.06	4.0	0.0	0.0	3.2	0.00	0.0	4.4	0.0	0.0	0.0
7 26 78	0.1	0.01	0.1	0.00	17	0.0	0.00	0.1	2.0	0.08	4.4	0.0	0.1	3.4	0.01	0.1	4.6	0.1	0.1	0.0
9 7 78	0.1	0.01			18	0.0	0.00	0.0	2.2		5.4	0.1		4.4	0.01	0.0	4.9		0.0	0.0
10 19 78	0.0	0.01	0.0	0.00	16	0.0	0.01	0.0	1.8	0.20	4.4	0.0	0.0	5.5	0.02	0.1	4.6	0.0	0.1	0.0
11 29 78	0.1	0.00			14	0.0	0.00	0.0	1.5		3.8	0.0		4.4	0.01	0.1	3.6		0.1	0.0
1 10 79	0.0	0.00	0.0	0.00	13	0.0	0.01	0.0	1.4	0.15	3.4	0.0	0.0	3.0	0.01	0.0	3.5	0.0	0.0	0.0
2 7 79	0.0	0.00			12	0.0	0.00	0.0	1.4		3.3	0.0		3.2	0.01	0.0	3.1		0.0	0.0
3 8 79	0.0	0.00			11	0.0	0.00	0.0	1.4		3.0	0.0		2.2	0.01	0.0	3.3		0.0	0.0
4 13 79	0.0	0.00			11	0.0	0.00	0.0	1.8		3.2	0.0		2.9	0.01	0.0	3.2		0.0	0.0
6 1 79	0.0	0.00			12	0.0	0.00	0.0	1.8		3.4	0.0		3.1	0.00	0.0	4.0		0.0	0.0
7 6 79	0.1	0.00	0.1	0.00	14	0.0	0.01	0.0	1.8	0.20	4.1	0.0	0.0	3.4	0.01	0.0	4.0	0.1	0.0	0.0
11 8 79	0.0	0.00			11	0.0	0.00	0.0	1.4		3.5	0.0		2.9	0.00	0.0	3.8		0.0	0.0

TABLE 75. WATER QUALITY FOR SITE 9172 MINERAL COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 26 77	14	0.025			20	963	688	1.00	7.8		78	94	0	3.1	460	0.2					
8 27 77	16	0.02			10	1080	765	1.21	7.6		84	101	0	2.7	480	0.4					
10 17 77	6	0.03			0	901	648	1.12	7.2		83	101	0	3.6	410	0.6					
11 30 77	6	0.2	15		4	341	234	1.56	7.6		40	49	0	2.6	120	1.2					
12 29 77	3	0.3	1		6	275	158	1.23	7.5		31	38	0	2.5	86	0.6					
2 8 78	4	0.09			2	760	654	0.87	4.6		0	0	0	1.0	480	0.5					
3 8 78	5	0.07			4	763	555	0.99	3.4		0	0	0	0.7	400	0.4					
4 6 78	7	0.2	9		5	605	394	0.94	3.9		0	0	0	1.0	280	0.1					
5 3 78	10	0.05	15		20	702	500	0.92	3.3		0	0	0	0.9	360	0.4					
5 31 78	14	0.15			4	649	415	0.96	3.9		0	0	0	0.7	290	0.4					
6 28 78	14	0.15	42*		4	637	462	0.90	4.2		0	0	0	0.6	330	0.2					
7 26 78	14	0.07			2	658	486	1.10	4.5		0	0	0	0.3	330	0.2					
9 7 78	19	0.03	35*		30	602	422	1.21	8.1		63	76	1	2.4	250	0.4					
10 18 78	13	0.001	147*		100	844	638	0.97	4.7	15	0	0	0	1.2	460	0.2					
11 30 78	8	0.01	11		5	845	584	1.00	4.8	16	0	0	0	0.9	410	0.7					
1 10 79	2	0.02	19		0	695	575	0.86	4.5		0	0	0	1.1	420	0.3					
2 7 79	4	0.02	10		0	829	668	0.92	4.6	25	0	0	0	0.6	480	0.5					
3 8 79	7	0.1	117		55	622	438	0.87	3.6	45	0	0	0	0.6	310	0.8					
4 13 79	7	0.09	7	0.00	0	718	552	1.02	4.2		0	0	0	0.8	390	0.5					
6 1 79	12	0.01	2		0	743	535	1.04	4.4	26	0	0	0	0.7	370	0.3					
7 6 79	14	0.01	8		6	809	608	0.94	4.5	140	0	0	0	0.7	440	0.2	0.0	0.01	0.30	0.10	0.01
11 8 79	11	0.015			5	1100	843	0.91	4.1	62	0	0	0	0.7	610	0.5					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 26 77	0.5	0.02			120	0.1	0.01	0.1	3.5		43	0.8		2.6	0.07	0.1	4.9		0.1	0.0
8 27 77	0.2	0.00			160	0.0	0.00	0.0	4.1		47	0.0		2.9	0.02	0.1	3.3		0.0	0.0
10 17 77	0.1	0.01	0.0	0.00	130	0.0	0.00	0.1	3.3	0.35	39	0.2	0.0	3.1	0.01	0.0	4.0	0.5	0.0	0.0
11 30 77	0.4	0.00			47	0.0	0.00	0.1	2.5		20	0.6		2.1	0.03	0.0	3.0		0.1	0.0
12 29 77	0.2	0.00	0.0	0.00	27	0.0	0.01	0.0	2.2	0.15	10	0.3	0.0	2.2	0.03	0.0	2.6	0.1	0.0	0.0
2 8 78	4.4	0.01			99	0.1	0.02	0.1	1.6		44	1.8		2.1	0.16	0.1	7.9		0.3	0.2
3 8 78	0.4	0.00			94	0.0	0.02	0.1	1.4		41	1.8		2.2	0.12	0.0	6.7		0.1	0.2
4 6 78	4.5	0.00	0.0	0.00	59	0.0	0.01	0.5	1.5	0.15	29	1.9	0.2	2.3	0.12	0.0	6.2	0.1	0.0	0.2
5 3 78	4.6	0.02			77	0.1	0.02	1.3	1.8		36	1.5		2.6	0.17	0.1	7.3		0.2	0.2
5 31 78	4.0	0.00			66	0.1	0.01	0.5	1.7		29	1.3		3.0	0.12	0.0	7.0		0.1	0.2
6 28 78	3.0	0.01	0.0	0.00	73	0.0	0.00	0.1	1.5	0.30	29	1.4	0.0	2.6	0.09	0.0	7.7	0.1	0.0	0.2
7 26 78	4.2	0.01	0.0	0.00	92	0.1	0.02	0.1	1.5	0.25	33	1.6	0.0	3.1	0.14	0.2	9.1	0.1	0.2	0.2
9 7 78	0.5	0.01			81	0.0	0.01	0.3	3.8		27	0.8		2.4	0.05	0.1	4.8		0.1	0.0
10 18 78	2.7	0.00			120	0.1	0.01	0.4	1.4		38	2.1		3.4	0.15	0.1	6.5		0.1	0.2
11 30 78	2.4	0.00			110	0.1	0.03	0.0	1.9		33	1.4		5.4	0.15	0.1	7.2		0.1	0.2
1 10 79	3.0	0.00	0.1	0.00	96	0.0	0.01	0.1	1.3	0.60	33	1.7	0.0	2.5	0.13	0.2	6.3	0.1	0.1	0.2
2 7 79	4.0	0.00			120	0.1	0.01	0.1	1.3		41	2.0		2.7	0.15	0.2	6.6		0.5	0.2
3 8 79	4.2	0.01			70	0.0	0.01	1.6	1.5		26	1.5		1.7	0.13	0.1	5.7		0.0	0.2
4 13 79	5.6	0.00			100	0.1	0.02	0.1	1.4		37	1.8		2.2	0.15	0.1	5.6		0.2	0.2
6 1 79	4.3	0.00			100	0.1	0.02	0.1	1.5		36	1.6		2.2	0.05	0.1	6.5		0.1	0.2
7 6 79	3.8	0.01	0.0	0.00	110	0.1	0.01	0.1	1.4	0.45	38	2.0	0.0	2.2	0.13	0.1	8.0	0.1	0.1	0.2
11 8 79	9.3	0.01			130	0.1	0.03	0.1	1.6		58	4.5		2.9	0.27	0.1	7.2		0.1	0.4

TABLE 76. WATER QUALITY FOR SITE 9173 MINERAL COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 27 77	18	0.2			40	1690	1380	0.95	7.3		24	29	0	0.8	1000	0.3					
10 17 77	6	0.3			0	1560	1270	0.91	7.1		35	43	0	1.2	930	0.4					
11 30 77	4	0.7	22*		4	1690	1690	0.94	4.6		0	0	0	1.4	1200	0.8					
12 29 77	2	1.0	14		8	1360	1130	0.77	4.7		0	0	0	1.9	860	0.6					
2 8 78	1	1.0			0	1430	1150	1.01	4.7		0	0	0	1.7	820	0.9					
3 8 78	1	0.8			10	1490	1130	0.95	4.7	30	0	0	0	1.5	830	0.9					
4 6 78	7	1.0	7		15	1040	829	0.84	4.4		0	0	0	1.6	610	1.5					
5 3 78	10	0.4	22*		20	1360	1150	0.80	4.1		0	0	0	1.6	870	0.9					
5 31 78	18	0.6			8	1540	1240	0.85	4.4		0	0	0	0.9	920	0.8					
6 28 78	18	0.4	66*		65	1570	1330	0.78	4.5		0	0	0	0.8	1000	0.3					
7 26 78	18	0.4	62*		20	1780	1650	1.12	4.7		0	0	0	0.5	1100	0.4					
9 7 78	21	0.15	41*		50	1680	1690	0.98	5.0		0	0	0	1.1	1200	0.3					
10 18 78	12	0.2	35*		30	1690	1350	0.87	6.9	-2	8	10	0	1.1	1000	0.2					
11 30 78	8	0.2	13		5	1420	1090		7.0	-6	13	16	0		760	1.3					
1 10 79	2	0.5	18		7	1360	1040	0.95	4.4	75	0	0	0	1.3	750	1.1					
2 7 79	1	0.2	7		8	1550	1240	1.06	4.5	47	0	0	0	1.3	880	0.8					
3 8 79	6	0.8	94		110	862	755	0.85	4.5	46	0	0	0	1.2	550	1.4					
4 13 79	8	0.4	8	0.00	15	1240	977	0.97	4.4		0	0	0	1.2	700	1.0					
5 31 79	13	0.3	16		45	1180	798	1.15	4.6	23	0	0	0	0.9	550	0.6					
7 6 79	13	0.25	16*		35	1560	1360	0.93	4.5	36	0	0	0	1.0	990	0.5	0.1	0.04	0.50	0.25	0.02
11 8 79	6	0.7			40	1100	831	0.98	4.8	24	0	0	0	1.2	600	0.8					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 27 77	0.4	0.02			260	0.0	0.00	0.2	4.1		79	1.5		3.7	0.14	0.1	3.2		0.1	0.1
10 17 77	0.3	0.03	0.0	0.00	230	0.0	0.00	0.1	3.2	0.65	71	1.1	0.1	3.7	0.09	0.1	2.6	0.4	0.1	0.1
11 30 77	12	0.00			270	0.3	0.01	0.2	3.8		120	18		3.8	0.76	0.1	7.0		0.4	0.6
12 29 77	13	0.00	0.0	0.01	150	0.2	0.02	0.0	3.0	1.0	71	9.8	0.0	4.3	0.51	0.1	5.1	0.4	0.1	0.6
2 8 78	7.1	0.01			200	0.2	0.01	0.1	3.2		88	11		4.0	0.53	0.1	5.8		0.3	0.6
3 8 78	0.3	0.03			190	0.1	0.02	0.1	2.9		84	7.8		4.3	0.42	0.1	4.6		0.1	0.5
4 6 78	10.0	0.00	0.0	0.01	120	0.2	0.01	0.1	2.5	0.15	57	12	0.2	3.9	0.40	0.0	5.6	0.2	0.0	0.5
5 3 78	7.9	0.02			160	0.2	0.01	0.2	3.5		72	8.3		4.8	0.49	0.1	5.6		0.2	0.6
5 31 78	16	0.01			180	0.3	0.01	0.1	3.9		86	13		4.6	0.72	0.1	7.3		0.2	0.8
6 28 78	6.8	0.02	0.0	0.01	190	0.1	0.00	0.1	3.4	0.80	83	9.1	0.1	2.8	0.43	0.1	6.1	0.4	0.0	0.6
7 26 78	13	0.02	0.0	0.01	330	0.2	0.02	0.2	4.3	0.80	120	15	0.1	3.6	0.80	0.4	7.7	0.4	0.3	0.9
9 7 78	4.1	0.02			310	0.2	0.01	0.1	5.6		110	12		6.7	0.71	0.3	5.7		0.6	0.8
10 18 78	0.6	0.02			220	0.1	0.01	0.1	3.8		88	4.6		3.6	0.35	0.3	4.0		0.4	0.2
11 30 78	0.6	0.01			230	0.0	0.01	0.1	2.8		74	2.9		2.9	0.21	0.3	3.0		0.2	0.1
1 10 79	7.8	0.00	0.0	0.01	180	0.1	0.00	0.0	2.6	1.0	69	8.6	0.0	3.0	0.43	0.2	5.3	0.3	0.1	0.5
2 7 79	8.6	0.01			240	0.2	0.01	0.1	2.6		90	10		3.2	0.55	0.3	5.3		0.2	0.6
3 8 79	8.7	0.00			120	0.2	0.01	0.1	2.5		44	6.8		3.5	0.35	0.1	4.9		0.2	0.4
4 13 79	8.0	0.00			170	0.1	0.00	0.0	2.4		65	8.2		3.6	0.40	0.1	4.6		0.3	0.5
5 31 79	3.8	0.01			160	0.1	0.01	0.1	2.7		62	7.1		3.1	0.36	0.2	5.6		0.2	0.4
7 6 79	7.4	0.01	0.0	0.00	240	0.2	0.05	0.1	3.0	1.0	89	11	0.0	3.3	0.54	0.2	5.9	0.3	0.3	0.6
11 8 79	3.3	0.01			140	0.1	0.00	0.0	2.4		59	6.8		3.2	0.34	0.1	4.2		0.2	0.4

TABLE 77. WATER QUALITY FOR SITE 9176 MINERAL COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER										
7 26 77	18	0.01			20	38	25	1.40	6.7		3	4	0	0.8	9	0.2				

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI
MO DA YR	MILLIGRAMS PER LITER																		
7 26 77	0.0	0.00			2.2	0.0	0.00	0.2	0.9		1.5	0.4		1.0	0.00	0.0	2.5		0.0

TABLE 78. WATER QUALITY FOR SITE 9181 MINGO COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 16 77	17	0.7			25	131	69	2.19	7.2		25	31	0	0.8	23	0.1					
9 27 77	15	0.03			4	207	108	6.77	7.5		67	82	0	1.0	15	0.1					
11 2 77	13	0.15	9		8	156	84	3.91	7.1		41	50	0	0.8	18	0.5					
12 14 77	9	0.15	13		45	144	73	3.27	7.0		29	35	0	0.8	19	0.2					
1 25 78	6	1.5	1080		250	64	40	1.89	7.0		9	11	0	0.7	14	0.4					
3 1 78	4	0.25			4	121	75	3.01	7.7		31	38	0	0.9	20	0.2					
4 5 78	12	0.2	4		8	138	83	2.74	7.0		39	47	0	0.8	23	0.2					
4 25 78	16	0.025	7		8	161	98	3.76	7.6		57	69	0	0.8	21	0.1					
5 16 78	14	0.15	26*		25	116	71	2.51	7.2		28	34	0	0.9	22	0.2					
6 22 78	24	0.015				174	117	5.20	7.9		66	80	0	0.8	21	0.1					
8 15 78	20	0.001	22*		9	150	92	6.03	7.9		55	66	0	0.5	13	0.5					
9 29 78	19	0.0007	22*		4	254	137	9.09	8.3		114	136	2	1.0	12	0.1					
11 17 78	18	0.04	3		5	219	122	5.26	8.2		80	95	1	1.6	19	0.5					
12 13 78	7	0.1	3		3	113	68	2.43	7.3	-32	31	38	0	0.8	20	0.1					
1 31 79	3	0.15	2		1	107	57	2.73	7.1		25	30	0	0.6	16	0.2					
3 1 79	8	0.15	5		3	87	58	1.98	7.2	-14	16	20	0	0.5	21	0.3					
4 5 79	12	0.25	27		10	83	54	1.85	7.2		15	18	0	0.6	20	0.3					
5 1 79	11	0.25	4	0.00	7	125	85	2.58	7.9	-34	40	49	0	0.8	25	0.2					
6 20 79		0.1	15		15	85	56	2.21	7.5	-13	23	28	0	0.8	17	0.2					
7 19 79	17	0.1	4		8	124	80	2.56	7.7	-42	42	51	0	0.9	21	0.1	0.1	0.03	0.45	0.00	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 16 77	0.0	0.00			7.4	0.0	0.00	0.0	2.1		3.9	0.1		7.6	0.00	0.0	3.8		0.0	0.2
9 27 77	0.0	0.00			15	0.0	0.00	0.1	2.9		5.6	0.0		20	0.01	0.0	3.7		0.0	0.0
11 2 77	0.0	0.01	0.0	0.00	11	0.0	0.00	0.0	2.4	0.10	4.4	0.0	0.0	12	0.02	0.0	3.9	0.1	0.0	0.0
12 14 77	0.0	0.00			9.4	0.0	0.00	0.1	2.4		5.1	0.0		8.5	0.02	0.0	4.3		0.1	0.0
1 25 78	0.1	0.00	0.0	0.00	4.5	0.0	0.00	0.1	1.5	0.06	2.4	0.0	0.0	2.8	0.00	0.0	3.1	0.0	0.0	0.0
3 1 78	0.0	0.00			8.9	0.0	0.00	0.1	2.2		4.9	0.0		9.6	0.02	0.0	3.9		0.0	0.0
4 5 78	0.0	0.00	0.0	0.00	9.4	0.0	0.00	0.0	1.9	0.00	5.0	0.0	0.0	10	0.00	0.0	3.7	1.0	0.0	0.0
4 25 78	0.1	0.01	0.0	0.00	11	0.0	0.00	0.1	2.6	0.03	5.9	0.0	0.0	14	0.02	0.0	3.6	0.1	0.2	0.0
5 16 78	0.0	0.02			8.8	0.0	0.00	0.1	1.7		4.7	0.0		7.0	0.01	0.0	3.9		0.1	0.0
6 22 78	0.0	0.02	0.0	0.00	16	0.0	0.01	0.1	2.6	0.09	6.1	0.0	0.0	21	0.01	0.0	4.0	0.1	0.0	0.0
8 15 78	0.2	0.01			14	0.0	0.01	0.4	2.5		5.2	0.1		11	0.01	0.0	4.4		0.0	0.0
9 29 78	0.1	0.01	0.1	0.00	24	0.0	0.00	0.0	2.6	0.10	7.3	0.0	0.0	13	0.01	0.1	3.5	0.2	0.0	0.0
11 17 78	0.1	0.01			17	0.0	0.00	0.0	3.1		6.0	0.0		17	0.01	0.0	3.8		0.0	0.0
12 13 78	0.0	0.00			7.4	0.0	0.01	0.0	2.0		2.8	0.0		9.2	0.00	0.0	3.1		0.0	0.0
1 31 79	0.0	0.01	0.0	0.00	7.4	0.0	0.00	0.0	1.4	0.08	3.7	0.0	0.0	5.3	0.01	0.0	3.1	0.1	0.0	0.0
3 1 79	0.0	0.00			7.3	0.0	0.00	0.2	1.6		3.7	0.0		4.6	0.01	0.0	3.4		0.0	0.0
4 5 79	0.0	0.01	0.0	0.00	6.3	0.0	0.00	0.1	1.8	0.20	3.3	0.0	0.0	4.1	0.01	0.0	3.2	0.1	0.0	0.0
5 1 79	0.0	0.01			11	0.0	0.01	0.0	1.7		4.8	0.0		8.8	0.00	0.0	3.5		0.0	0.0
6 20 79	0.1	0.00			6.7	0.0	0.01	0.1	1.7		3.0	0.0		4.4	0.00	0.0	3.6		0.0	0.1
7 19 79	0.1	0.00	0.0	0.00	9.4	0.0	0.00	0.2	1.8	0.05	4.3	0.0	0.0	6.6	0.00	0.1	4.3	0.1	0.1	0.0

TABLE 79. WATER QUALITY FOR SITE 9182 MINGO COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SDL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 27 77	16	0.15			65	322	201	1.35	7.5		50	61	0	1.4	100	0.4					
11 2 77	13	0.15	8		0	306	178	1.76	7.2		48	58	0	1.4	82	0.5					
12 14 77	9	0.25	29*		35	279	140	1.75	7.6	-30	37	45	0	3.5	63	0.2					
1 25 78	5	2.5	8840		650	177	96	1.64	7.3		20	24	0	1.0	44	1.3					
3 1 78	3	0.5			0	295	172	1.92	7.9		47	56	0	1.4	79	0.2					
4 5 78	12	0.3	7		8	327	197	1.88	7.2		54	66	0	1.3	90	1.0					
4 25 78	14	0.09	5		5	336	204	1.92	7.4		62	76	0	1.2	92	0.6					
5 16 78	12	0.15	23*		20	313	193	1.68	7.7		48	58	0	1.3	94	0.9					
6 22 78	22	0.07				327	197	1.82	7.9		60	72	0	1.2	90	0.5					
7 21 78	23	0.03	64*		20	333	205	2.00	8.1		66	79	1	1.1	88	0.5					
8 15 78	22	0.005	13		9	320	170	1.69	8.1		61	74	1	1.4	74	0.3					
9 29 78	19	0.0015	17*		3	334	183	1.80	8.1		72	87	1	1.3	77	0.2					
11 17 78	17	0.03	2		3	324	191	2.23	8.2	-76	84	101	1	1.8	71	0.0					
12 13 78	8	0.2	6		6	281	153	1.59	7.9	-38	46	55	0	1.4	67	1.6					
1 31 79	3	0.3	2		0	294	175	1.63	7.9		43	52	0	1.2	85	0.8					
3 1 79	8	0.4	15		6	266	175	1.66	7.9		40	49	0	1.0	87	1.0					
4 5 79	11	0.4	32		8	247	168	1.52	7.5		36	44	0	1.0	87	0.9					
5 1 79	11	0.25	18	0.00	10	303	178	1.76	7.7	-51	57	69	0	1.0	79	0.8					
6 20 79		0.06	30		35	236	111	1.93	7.9	-37	48	57	0	1.3	40	0.6					
7 19 79	18	0.15	6		10	311	163	1.91	8.0	-48	51	61	0	1.2	70	0.6	0.1	0.00	0.50	0.05	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 27 77	0.0	0.00			24	0.0	0.00	0.0	3.4		13	0.0		16	0.02	0.0	2.8		0.0	0.2
11 2 77	0.1	0.02	0.0	0.00	25	0.0	0.00	0.0	3.4	0.15	13	0.0	0.0	16	0.02	0.0	3.1	0.3	0.0	0.0
12 14 77	0.1	0.00			18	0.0	0.00	0.1	2.9		13	0.0		7.8	0.03	0.0	3.9		0.1	0.0
1 25 78	0.2	0.00	0.0	0.00	12	0.0	0.00	0.2	2.2	0.09	9.3	0.0	0.0	4.2	0.00	0.0	2.6	0.1	0.0	0.0
3 1 78	0.0	0.00			20	0.0	0.00	0.0	3.1		18	0.0		15	0.00	0.0	3.0		0.0	0.0
4 5 78	0.1	0.01	0.0	0.00	22	0.0	0.00	0.1	3.2	0.01	22	0.0	0.0	14	0.01	0.0	3.2	0.3	0.0	0.0
4 25 78	0.1	0.01	0.0	0.00	22	0.0	0.00	0.1	3.4	0.06	23	0.0	0.0	15	0.01	0.0	2.9	0.3	0.1	0.0
5 16 78	0.0	0.02			22	0.0	0.00	0.0	2.9		21	0.0		11	0.02	0.0	3.3		0.1	0.0
6 22 78	0.0	0.01	0.1	0.00	23	0.0	0.01	0.0	3.6	0.10	19	0.0	0.0	15	0.01	0.0	3.1	0.3	0.1	0.0
7 21 78	0.1	0.02			33	0.0	0.01	0.1	3.6		17	0.0		13	0.01	0.1	3.2		0.0	0.0
8 15 78	0.1	0.01			18	0.1	0.03	0.0	3.3		12	0.0		18	0.04	0.2	2.5		0.0	0.0
9 29 78	0.1	0.01	0.0	0.00	24	0.0	0.00	0.0	3.5	0.10	13	0.0	0.0	13	0.01	0.0	3.0	0.2	0.0	0.0
11 17 78	0.0	0.00			23	0.0	0.00	0.0	3.2		15	0.0		20	0.01	0.0	2.5		0.0	0.0
12 13 78	0.1	0.01			19	0.0	0.00	0.0	2.5		9.9	0.0		12	0.01	0.0	3.0		0.0	0.0
1 31 79	0.1	0.00	0.0	0.00	23	0.0	0.01	0.0	2.7	0.20	15	0.0	0.0	12	0.05	0.1	3.2	0.2	0.2	0.0
3 1 79	0.0	0.01			20	0.0	0.01	0.0	2.8		19	0.0		10	0.01	0.0	2.8		0.0	0.0
4 5 79	0.1	0.00			19	0.0	0.00	0.1	2.8		18	0.0		8.8	0.01	0.0	2.8		0.0	0.0
5 1 79	0.1	0.02			23	0.0	0.01	0.0	3.0		15	0.0		12	0.02	0.1	3.3		0.1	0.0
6 20 79	0.0	0.01			14	0.0	0.01	0.0	2.4		8.1	0.0		5.7	0.00	0.0	3.6		0.0	0.0
7 19 79	0.1	0.01	0.0	0.00	22	0.0	0.02	0.0	3.3	0.20	14	0.0	0.0	12	0.00	0.0	3.6	0.2	0.0	0.0

TABLE 80. WATER QUALITY FOR SITE 9183 MINGO COUNTY, WEST VIRGINIA

DATE MO DA YR	WATER TEMP DEG C	EST DISCH CFS	SUSP SOL MG/L	SETT MATTER ML/L	TURB JTU	SPEC COND UM/CM	DIS SOLID MG/L	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
										MILLIGRAMS PER LITER											
8 16 77	17	1.0				276	157	1.47	7.8		35	43	0	1.2	78	1.0					
9 27 77	16	0.03			4	292	197	1.96	7.6		48	59	0	3.0	89	0.1					
11 3 77	13	0.15	10		4	306	188	1.65	7.2		48	58	0	3.0	89	0.0					
12 14 77	9	0.4	50*		65	270	173	1.77	7.8		37	45	0	1.4	81	1.3					
1 25 78	6	8	438		250	127	67	1.75	7.1		14	17	0	2.1	28	0.4					
3 1 78	4	0.9			4	252	150	1.45	7.7		33	40	0	3.6	75	0.2					
4 5 78	12	0.7	5		10	249	145	1.49	7.2		37	45	0	3.7	70	0.2					
4 25 78	14	0.25	6		8	276	162	1.45	7.4		43	53	0	3.5	78	0.2					
5 16 78	12	0.6	21*		40	217	142	1.21	7.0		28	34	0	3.0	77	0.3					
6 22 78	21	0.25				260	146	1.54	7.6		41	50	0	3.0	68	0.1					
7 21 78	23	0.15	64*		6	281	163	1.76	8.0		50	60	0	3.1	71	0.1					
8 15 78	20	0.1	16*		9	278	164	1.44	7.9		50	60	0	2.8	77	0.1					
9 29 78	16	0.09	18*		6	313	172	1.70	8.0		62	75	0	3.4	73	0.1					
11 17 78	16	0.06	2		3	289	165	2.08	7.9	-66	69	83	0	3.2	61	0.0					
12 13 78	10	0.2	7		2	226	132	1.86	7.7	-31	39	48	0	1.3	54	0.7					
1 31 79	4	0.5	7		1	215	144	1.39	7.6		29	35	0	3.1	73	0.2					
3 1 79	9	0.5	6		3	178	114	1.36	7.3	-18	20	24	0	3.2	56	0.2					
4 5 79	11	0.5	19		10	159	101	1.56	7.4		20	25	0	2.6	48	0.3					
5 1 79	13	0.6	17	0.00	15	210	132	1.49	8.0	-24	30	37	0	3.5	64	0.3					
6 20 79		0.3	19*		30	184	136	1.53	7.7	-24	29	35	0	2.0	68	0.3					
7 19 79	17	0.1	12		20	218	119	1.54	7.8	-28	33	40	0	3.1	54	0.1	0.1	0.02	0.60	0.15	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE MO DA YR	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
									MILLIGRAMS PER LITER											
8 16 77	0.0	0.01			18	0.0	0.00	0.0	3.2		11	0.0		13	0.00	0.0	3.2		0.0	0.0
9 27 77	0.0	0.00			28	0.0	0.00	0.0	3.2		19	0.0		16	0.02	0.0	3.9		0.0	0.0
11 3 77	0.1	0.03	0.0	0.00	26	0.0	0.00	0.0	3.2	0.15	13	0.0	0.0	15	0.02	0.0	3.9	0.3	0.0	0.0
12 14 77	0.1	0.00			23	0.0	0.00	0.0	3.6		16	0.0		13	0.02	0.0	3.4		0.1	0.0
1 25 78	0.2	0.00	0.0	0.00	8.2	0.0	0.00	0.2	1.9	0.09	6.2	0.0	0.0	3.5	0.00	0.0	2.8	0.1	0.0	0.0
3 1 78	0.0	0.03			19	0.0	0.00	0.0	2.4		12	0.0		8.6	0.01	0.0	4.0		0.0	0.0
4 5 78	0.0	0.00	0.0	0.00	17	0.0	0.00	0.0	2.8	0.02	12	0.0	0.0	8.1	0.02	0.0	4.0	0.2	0.1	0.0
4 25 78	0.0	0.00	0.0	0.00	19	0.0	0.00	0.1	2.6	0.05	13	0.0	0.0	9.6	0.00	0.0	4.2	0.2	0.0	0.0
5 16 78	0.0	0.01			16	0.0	0.00	0.1	2.3		11	0.0		6.7	0.01	0.0	4.0		0.1	0.0
6 22 78	0.0	0.00			18	0.0	0.01	0.0	2.8		11	0.0		10	0.01	0.0	3.9		0.1	0.0
7 21 78	0.1	0.02			22	0.0	0.00	0.0	2.9		13	0.0		11	0.01	0.1	4.2		0.1	0.0
8 15 78	0.4	0.01	0.1	0.00	16	0.1	0.03	0.8	2.9	0.08	11	0.0	0.0	14	0.04	0.2	3.8	0.2	0.0	0.0
9 29 78	0.1	0.01	0.1	0.00	22	0.0	0.00	0.0	2.8	0.10	12	0.0	0.0	12	0.01	0.1	3.6	0.2	0.0	0.0
11 17 78	0.0	0.00			21	0.0	0.00	0.0	2.8		11	0.0		17	0.01	0.0	3.8		0.0	0.0
12 13 78	0.1	0.01			17	0.0	0.00	0.1	2.7		9.3	0.0		12	0.04	0.0	4.3		0.0	0.0
1 31 79	0.1	0.00	0.0	0.00	18	0.0	0.02	0.0	3.1	0.15	9.4	0.0	0.0	11	0.02	0.0	3.6	0.1	0.0	0.0
3 1 79	0.1	0.00			14	0.0	0.00	0.0	2.2		8.6	0.0		5.6	0.02	0.0	5.4		0.1	0.0
4 5 79	0.0	0.00	0.0	0.00	13	0.0	0.01	0.0	2.4	0.10	8.3	0.0	0.0	5.9	0.02	0.0	3.4	0.1	0.0	0.0
5 1 79	0.0	0.01			18	0.0	0.00	0.0	2.3		10	0.0		6.7	0.01	0.0	3.7		0.1	0.0
6 20 79	0.1	0.01	0.0	0.00	18	0.0	0.00	0.0	2.6	0.08	11	0.0	0.0	7.6	0.01	0.0	3.4	0.2	0.0	0.1
7 19 79	0.0	0.00	0.0	0.00	15	0.0	0.02	0.0	2.3	0.10	8.8	0.0	0.0	6.4	0.00	0.0	4.1	0.1	0.0	0.0

TABLE 81. WATER QUALITY FOR SITE 9184 MINGO COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
5 1 79		0.05			30	55	38	1.46	6.7		6	7	0	0.7	16	0.2					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
5 1 79	0.0	0.01			3.9	0.0	0.00	0.0	1.3		2.6	0.0		1.7	0.01	0.0	3.4		0.0	0.0

TABLE 82. WATER QUALITY FOR SITE 9190 MONONGALIA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
11 8 79	11	0.002			10	415	240	1.32	8.2		102	122	1	2.6	120	0.0					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
11 8 79	0.0	0.04			33	0.0	0.00	0.0	1.1		17	0.0		5.0	0.04	0.1	1.3		0.3	0.1

TABLE 83. WATER QUALITY FOR SITE 9191 MONONGALIA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 18 77	11	0.015			20	388	227	2.73	7.9		131	158	1	1.9	65	0.2					
11 21 77	11	0.2	22		30	262	139	2.95	7.3		66	80	0	2.1	40	0.4					
1 3 78	0	0.3			2	359	183	3.10	8.0		112	135	1	2.6	46	0.2					
2 10 78	4	0.06			2	398	238	3.80	7.8		120	146	1	2.3	63	0.2					
3 14 78	5	0.6			230	136	80	1.54	7.6		17	21	0	1.5	34	1.0					
4 11 78	14	0.1	10		25	316	181	2.54	7.4		100	122	0	2.1	54	0.2					
5 5 78	11	0.15	26*		35	307	171	2.73	7.8		92	111	0	2.0	50	0.2					
6 3 78	16	0.2			15	431	261	3.39	8.3		154	183	2	1.6	68	0.2					
7 6 78	16	0.4	33*		30	296	178	3.21	8.1		97	116	1	1.6	47	0.2					
7 28 78	18	0.07	85*		20	367	265	3.60	8.2		114	136	1	1.7	75	0.3					
9 13 78	19	0.03	55*		85	561	355	3.30	8.2		190	227	2	3.1	94	1.4					
10 17 78	15	0.01	56*		7	583	363	3.37	8.3		203	242	3	2.7	96	0.2					
12 1 78	11	0.03	5		3	243	135	2.91	8.1	-73	76	92	1	2.2	35	0.4					
1 12 79	4	0.15	13		1	275	162	3.46	7.9	-86	90	109	1	1.8	41	0.4					
2 14 79	2	0.07			0	397	245	4.03	8.2		127	152	2	1.8	61	0.2					
3 10 79	7	0.15	8		4	303	187	2.91	8.1		86	103	1	1.6	57	0.4					
4 17 79	9	0.06	41	0.00	4	336	204	3.08	8.3		103	123	1	1.7	59	0.2					
5 30 79	14	0.1	17		15	261	173	3.43	8.3		109	130	2	1.3	40	0.3					
7 9 79	16	0.04			10	590	310	3.29	8.2		148	176	2	1.7	92	0.1	0.0	0.13	0.55	0.20	0.01
11 8 79	9	0.06			5	314	205	3.54	8.2	-95	115	137	1	1.7	53	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 18 77	0.1	0.05	0.0	0.00	42	0.0	0.00	0.0	1.9	0.09	12	0.1	0.0	16	0.01	0.0	3.9	0.4	0.0	0.1
11 21 77	0.1	0.00			28	0.0	0.00	0.1	1.7		8.3	0.0		8.9	0.01	0.0	4.3		0.0	0.0
1 3 78	0.0	0.00	0.1	0.00	32	0.0	0.00	0.0	1.6	0.20	12	0.0	0.0	12	0.00	0.0	3.7	0.5	0.0	0.0
2 10 78	0.1	0.07	0.1	0.00	49	0.0	0.00	0.1	2.0	0.00	23	0.0	0.0	16	0.02	0.0	4.0	0.6	0.2	0.0
3 14 78	0.0	0.03			14	0.0	0.00	0.2	1.6		4.5	0.1		2.6	0.00	0.0	3.5		0.0	0.0
4 11 78	0.1	0.02	0.1	0.00	29	0.0	0.00	0.0	2.2	0.02	12	0.0	0.0	10	0.02	0.0	4.1	0.4	0.2	0.0
5 5 78	0.1	0.03			31	0.0	0.00	0.0	1.6		11	0.0		9.0	0.01	0.0	4.1		0.1	0.0
6 3 78	0.1	0.02			48	0.0	0.00	0.1	2.3		21	0.0		16	0.01	0.0	4.4		0.1	0.0
7 6 78	0.1	0.03	0.1	0.00	39	0.0	0.00	0.1	1.7	0.15	10	0.0	0.0	8.3	0.01	0.0	4.7	0.3	0.0	0.0
7 28 78	0.1	0.03	0.1	0.00	65	0.0	0.00	0.2	2.5	0.25	19	0.0	0.0	20	0.01	0.1	5.3	0.6	0.1	0.0
9 13 78	0.2	0.03			68	0.0	0.01	0.3	4.1		22	0.2		31	0.02	0.1	5.5		0.1	0.1
10 17 78	0.1	0.02	0.0	0.00	72	0.0	0.01	0.4	2.8	0.35	22	0.2	0.0	32	0.02	0.1	4.9	0.3	0.1	0.0
12 1 78	0.1	0.00			24	0.0	0.01	0.0	1.6		7.1	0.0		8.4	0.02	0.0	4.2		0.0	0.0
1 12 79	0.1	0.00	0.0	0.00	36	0.0	0.00	0.0	1.3	0.25	10	0.0	0.0	7.5	0.00	0.1	3.7	0.2	0.0	0.0
2 14 79	0.2	0.01			56	0.0	0.01	0.0	2.1		19	0.0		18	0.01	0.2	3.8		0.3	0.0
3 10 79	0.1	0.01			42	0.0	0.01	0.0	1.8		10	0.0		13	0.01	0.0	3.6		0.0	0.0
4 17 79	0.2	0.00			45	0.0	0.00	0.2	1.7		13	0.0		10	0.02	0.1	4.2		0.1	0.0
5 30 79	0.1	0.03			37	0.0	0.00	0.0	1.7		9.0	0.0		7.5	0.00	0.0	4.3		0.0	0.0
7 9 79	0.1	0.02	0.1	0.00	63	0.2	0.21	0.2	3.3	0.45	23	0.1	0.0	27	0.05	0.1	3.8	1.1	0.1	0.1
11 8 79	0.1	0.01			42	0.0	0.00	0.1	1.8		16	0.0		11	0.01	0.1	4.4		0.1	0.0

TABLE 84. WATER QUALITY FOR SITE 9192 MONONGALIA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L				MILLIGRAMS PER LITER										
9 8 77	16	0.09			4	1900	1440	1.43	7.4		155	188	0	5.7	840	0.1					
10 18 77	12	0.04			4	1670	1430	1.22	7.6		238	288	1	6.6	840	0.3					
11 21 77	11	0.15	44		20	1780	1340	1.51	7.6		168	204	1	7.1	760	0.3					
1 3 78	5	0.15			4	1680	1340	1.32	8.2		142	168	2	5.9	810	0.5					
2 10 78	5	0.4			2	1920	1590	1.20	8.0		134	160	1	4.0	1000	2.6					
3 14 78	6	2.0			90	1050	821	1.11	8.1		57	69	1	2.6	540	1.5					
4 11 78	16	0.09	6		8	1650	1500	1.05	7.2		116	142	0	4.4	1000	1.6					
5 5 78	13	0.06	28*		25	1660	1320	1.20	7.8		98	118	1	4.1	850	1.3					
6 3 78	14	0.25			10	1670	1470	0.99	7.8		133	160	1	4.1	990	2.2					
7 6 78	18	0.15	61*		8	1500	1170	1.09	7.9		166	200	1	4.8	740	0.4					
7 28 78	21	0.4	73*		5	1280	998	1.39	8.2		80	95	1	4.2	610	0.6					
9 13 78	20	0.04	62*		15	1800	1490	1.20	7.9		150	180	1	5.3	940	0.2					
10 17 78	16	0.06	88*		10	1950	1700	1.29	7.9		244	294	2	6.3	1000	0.5					
12 1 78	10	0.09			1	1980	1340	1.01	7.9		132	159	1	5.1	890	1.0					
1 12 79	2	0.1	17		0	1720	1330	1.44	7.9		187	225	2	3.5	770	1.3					
2 14 79	4	0.05	176		30	1940	1840	1.15	7.9		83	100	1	4.7	1200	0.5					
3 10 79	9	0.15	145		20	1920	1840	1.02	7.8		180	216	1	2.8	1200	2.4					
4 17 79	10	0.09	200	0.00	1	1930	1710	1.19	8.0		129	154	1	2.8	1100	1.4					
5 30 79	17	0.07	60		8	1600	1290	1.26	7.8		167	202	1	2.7	800	1.1					
7 9 79	19	0.15	71*		10	2100			8.0					5.3	1100	0.4	0.2	0.16	1.15	0.20	0.02
11 8 79	9	0.08			5	2020	1820	1.02	8.0		230	275	2	4.2	1200	0.5					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 8 77	0.4	0.03			230	0.0	0.01	0.3	5.6		65	0.8		190	0.02	0.2	4.8		0.1	0.0
10 18 77	0.3	0.07	0.0	0.00	210	0.0	0.00	0.3	4.7	0.40	57	2.0	0.0	140	0.04	0.1	4.7	4.0	0.1	0.1
11 21 77	0.0	0.04			220	0.0	0.00	0.4	6.2		70	4.0		160	0.01	0.1	5.7		0.2	0.0
1 3 78	0.3	0.03	0.1	0.00	220	0.0	0.00	0.4	5.9	1.5	77	3.0	0.0	110	0.08	0.1	5.7	4.1	0.0	0.0
2 10 78	0.4	0.13	0.1	0.00	260	0.1	0.01	0.3	7.6	1.5	110	9.3	0.0	72	0.17	0.1	5.4	3.9	0.4	0.0
3 14 78	0.0	0.04			140	0.1	0.01	0.2	4.7		62	7.6		15	0.14	0.1	3.5		0.2	0.1
4 11 78	0.4	0.04	0.0	0.00	220	0.1	0.00	0.2	6.5	0.25	96	9.4	0.2	73	0.13	0.2	4.4	2.7	0.4	0.0
5 5 78	0.3	0.05			230	0.1	0.00	0.2	6.2		88	4.9		64	0.09	0.1	3.5		0.2	0.0
6 3 78	0.3	0.04			210	0.0	0.00	0.2	6.2		86	4.4		63	0.09	0.1	4.0		0.2	0.0
7 6 78	0.2	0.05	0.1	0.00	170	0.0	0.00	0.2	5.9	0.80	66	3.1	0.1	68	0.04	0.2	3.9	3.3	0.1	0.0
7 28 78	0.3	0.04	0.1	0.00	200	0.0	0.01	0.5	6.4	0.60	62	3.2	0.1	59	0.07	0.2	2.8	2.2	0.1	0.0
9 13 78	0.4	0.06			240	0.0	0.01	0.3	7.7		75	2.2		120	0.07	0.4	5.3		0.1	0.0
10 17 78	0.4	0.07	0.0	0.00	310	0.1	0.01	0.2	6.1	1.5	87	2.1	0.1	110	0.10	0.3	5.4	2.5	0.3	0.0
12 1 78	0.6	0.05			210	0.0	0.00	0.2	3.8		74	2.8		53	0.09	0.4	4.8		0.2	0.0
1 12 79	0.4	0.02	0.0	0.00	270	0.1	0.01	0.1	5.9	1.5	88	6.6	0.1	57	0.12	0.3	4.1	2.7	0.2	0.0
2 14 79	0.6	0.04			340	0.1	0.01	0.2	5.9		110	7.8		77	0.16	0.3	4.6		0.5	0.1
3 10 79	0.5	0.04			310	0.1	0.01	0.2	5.5		120	11		32	0.25	0.4	4.0		0.6	0.1
4 17 79	0.4	0.04			330	0.0	0.01	0.2	6.3		100	6.1		57	0.11	0.2	3.6		0.5	0.0
5 30 79	0.2	0.06			230	0.1	0.01	0.1	5.4		92	4.8		46	0.03	0.3	4.3		0.3	0.0
7 9 79	0.4	0.06	0.0	0.00	230	0.1	0.11	0.2	6.7	1.5	74	2.8	0.1	87	0.08	0.3	3.6	3.8	0.3	0.1
11 8 79	0.3	0.05			300	0.0	0.00	0.2	6.3		98	5.2		58	0.07	0.2	3.6		0.3	0.0

TABLE 85. WATER QUALITY FOR SITE 9194 MONONGALIA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 7 77	21	0.008			20	438	233	6.12	8.1		152	182	1	1.8	38	0.2					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 7 77	0.1	0.00			61	0.0	0.00	0.1	2.5		11	0.0		18	0.00	0.0	3.9		0.0	0.0

TABLE 86. WATER QUALITY FOR SITE 9195 MONONGALIA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 8 77	18	0.006			10	599	354	2.39	8.2		152	182	2	6.2	130	0.1					
10 18 77	11	0.04			50	651	436	1.33	7.9		118	142	1	3.9	230	1.2					
11 21 77	11	0.04	49		40	616	410	1.75	8.1		107	128	1	4.4	200	0.5					
1 3 78	0	0.05			10	796	414	1.60	8.5		125	147	3	4.4	200	0.5					
3 14 78	4	3			800	351	211	1.33	8.1		46	55	0	2.2	110	0.1					
4 11 78	15	0.5	6		10	885	646	1.41	8.0		80	97	1	3.4	380	0.4					
9 13 78	22	0.015	32*		55	765	563	1.39	8.3		120	142	2	3.9	310	0.4					
10 17 78	14	0.02	79*		60	775	567	1.38	8.2		111	133	1	3.6	320	0.8					
12 1 78	9	0.02	45		7	594	369	1.94	8.2		108	129	1	4.7	150						
1 12 79	3	0.05	32		1	507	344	1.82	8.1		104	125	1	3.4	160	0.9					
2 14 79	0	0.03			0	707	495	1.67	8.2		114	136	1	3.2	250	0.6					
3 10 79	8	0.08	33		6	568	408	1.56	8.2		93	111	1	3.2	210	0.7					
4 17 79	10	0.1	59	0.00	1	658	494	1.56	8.3		114	135	2	3.4	260	0.7					
5 30 79	15	0.02	10		10	540	362	1.82	8.4	-82	96	113	2	3.1	170	1.0					
8 8 79	24	0.0003	21	0.14	40	614	345	2.69	8.5	-120	157	183	4	6.9	110	0.6	0.1	0.05	0.65	0.00	0.03
11 8 79	8	0.05			10	619	424	1.84	8.2		126	151	2	4.0	200	0.5					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 8 77	0.1	0.00			69	0.0	0.00	0.1	7.9		21	0.0		26	0.00	0.0	1.6		0.0	0.0
10 18 77	0.1	0.05			75	0.0	0.00	0.0	3.1		24	0.0		16	0.01	0.0	3.0		0.0	0.1
11 21 77	0.1	0.02			84	0.0	0.00	0.1	3.1		30	0.3		14	0.01	0.0	4.4		0.1	0.0
1 3 78	0.5	0.02	0.0	0.00	79	0.0	0.00	0.0	2.9	0.25	24	0.7	0.0	18	0.03	0.2	3.4	0.3	0.4	0.0
3 14 78	0.0	0.04			36	0.0	0.01	0.2	3.7		12	0.3		9.7	0.01	0.1	2.2		0.1	0.0
4 11 78	0.2	0.03	0.0	0.00	110	0.0	0.00	0.2	3.6	0.10	39	0.9	0.1	52	0.03	0.1	3.3	1.0	0.3	0.0
9 13 78	0.3	0.00	0.1	0.00	110	0.0	0.01	0.1	6.5	0.80	33	0.1	0.0	20	0.03	0.2	3.5	0.9	0.1	0.0
10 17 78	0.2	0.03	0.0	0.00	110	0.0	0.01	0.1	4.4	0.60	34	0.4	0.0	16	0.04	0.1	3.4	0.7	0.2	0.0
12 1 78	0.2	0.02			78	0.1	0.01	0.1	2.6		23	0.6		17	0.05	0.2	3.6		0.3	0.0
1 12 79	0.2	0.00	0.0	0.00	74	0.0	0.00	0.0	2.3	0.45	22	0.7	0.0	10	0.02	0.1	3.6	0.4	0.1	0.0
2 14 79	0.3	0.01			100	0.0	0.01	0.1	3.2		34	0.6		17	0.02	0.2	3.4		0.5	0.0
3 10 79	0.1	0.01			87	0.0	0.01	0.0	2.6		26	0.5		11	0.02	0.1	3.3		0.1	0.0
4 17 79	0.2	0.01			100	0.0	0.00	0.0	3.0		33	0.7		15	0.02	0.1	2.9		0.1	0.0
5 30 79	0.1	0.01			79	0.0	0.01	0.0	2.9		26	0.3		10	0.00	0.1	3.7		0.1	0.0
8 8 79	0.2	0.04			73	0.0	0.01	0.0	4.8		23	0.0		19	0.00	0.1	3.6		0.1	0.0
11 8 79	0.1	0.01			87	0.0	0.01	0.0	3.4		31	0.3		16	0.01	0.1	3.6		0.1	0.0

TABLE 87. WATER QUALITY FOR SITE 9198 MONONGALIA COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L				MILLIGRAMS PER LITER										
2 10 78	5	0.09			0	3000	2740	1.16	7.8		58	70	0	6.9	1800	1.1					
5 5 78	13	0.6	22*		25	2340	2120	0.84	7.7		67	81	0	5.9	1500	0.7					
6 3 78	20	1.5			20	2600	2120	0.94	8.0		72	86	1	5.8	1500	1.6					
7 6 78	21	2.0	39*		8	2690	2430	0.91	8.0		60	72	1	7.0	1700	0.8					
7 28 78	23	1.5	88*		45	2970	2660	1.00	8.1		56	66	1	7.0	1800	1.1					
11 8 79	10	5			4	3560	2510	0.59	7.6		35	43	0	11	1900	12					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
2 10 78	0.6	0.23	0.1	0.00	570	0.1	0.01	1.3	14	1.5	81	1.6	0.0	200	0.08	0.2	2.4	8.7	0.5	0.0
5 5 78	0.4	0.09			360	0.0	0.00	0.2	7.5		44	0.9		120	0.03	0.1	2.5		0.2	0.0
6 3 78	0.4	0.10			380	0.0	0.00	0.2	7.4		53	1.0		130	0.05	0.1	2.2		0.2	0.0
7 6 78	0.4	0.13	0.0	0.00	400	0.1	0.00	0.3	10	1.5	74	1.3	0.2	150	0.03	0.4	2.5	4.2	0.4	0.0
7 28 78	0.6	0.15	0.0	0.00	500	0.0	0.00	0.2	11	1.5	81	0.9	0.1	160	0.06	0.4	2.1	4.4	0.2	0.0
11 8 79	0.4	0.09			340	0.0	0.00	0.1	15		56	0.0		66	0.09	0.5	0.9		0.7	0.1

TABLE 88. WATER QUALITY FOR SITE 9201 NICHOLAS COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 1 77	17	0.0000			10	130	58	1.60	7.3		16	20	0	1.4	24	0.3					
8 13 77	18	0.06			45	111	62	1.72	6.8		18	22	0	1.1	22	1.1					
9 23 77	19	0.0000			4	112	56	3.31	7.2		26	32	0	2.4	12	0.2					
10 28 77	13	0.02	12		10	107	53	3.23	7.3		22	27	0	2.4	11	0.3					
12 7 77	4	0.15	34*		15	62	45	1.95	6.8		7	9	0	2.2	13	1.2					
1 13 78	4	0.2			15	58	42	1.37	6.9		7	9	0	1.8	13	1.4					
2 16 78	2	0.4			4	76	44	1.83	7.0		7	9	0	2.3	14	0.9					
3 23 78	5	0.7			4	56	36	1.50	7.1		6	7	0	1.7	13	0.6					
4 18 78	14	0.07			7	76	45	2.18	7.4		14	17	0	1.2	14	0.4					
5 10 78	16	0.2	23*		40	56	38	1.55	6.6		4	5	0	1.8	14	0.6					
6 14 78	26	0.1			20	75	47	2.05	7.1		16	20	0	2.9	13	0.6					
7 11 78	25	0.5	62*		25	63	44	1.99	6.9		7	9	0	3.1	12	0.9					
8 10 78	21	0.2	42*		15	58	39	2.23	7.1		10	12	0	1.0	11	0.5					
9 26 78	21	0.01	25*		10	78	47	2.24	7.3		17	21	0	2.8	13	0.1					
10 26 78	15	0.02	22*		7	86	49	2.38	7.3	-14	20	24	0	3.4	13	0.0					
12 19 78	6	0.04	7		5	66	52	2.49	7.3	-10	19	23	0	2.3	13	0.1					
1 17 79	7	0.25	8		10	52	45	1.39	7.1	-4	8	10	0	1.8	17	0.6					
2 17 79	5	0.25	21		4	53	35	1.50	6.8	0	4	5	0	2.2	12	0.7					
3 13 79	10	0.25	8		4	51	37	1.25	6.8	-2	6	7	0	1.7	15	0.5					
4 24 79	18	0.1	19	0.00	10	62	40	1.87	7.0	-4	8	10	0	1.5	14	0.4					
6 7 79	20	0.02	12		15	60	42	1.74	7.2	-5	12	15	0	2.6	13	0.2					
7 12 79	23	0.006	19*		15	63	40	1.25	7.1	-5	10	12	0	2.6	14	0.4	0.2	0.01	1.05	0.15	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 1 77	0.0	0.00			6.5	0.0	0.00	0.0	2.0		4.5	0.0		2.3	0.00	0.0	2.8		0.0	0.1
8 13 77	0.0	0.01			6.5	0.0	0.00	0.0	2.5		4.8	0.0		2.2	0.00	0.0	3.6		0.0	0.3
9 23 77	0.0	0.00			7.3	0.0	0.00	0.0	3.7		4.1	0.1		3.4	0.02	0.0	2.6		0.0	0.1
10 28 77	0.1	0.00	0.0	0.00	5.8	0.0	0.00	0.2	4.2	0.04	3.4	0.2	0.0	3.5	0.02	0.0	3.4	0.0	0.0	0.0
12 7 77	0.0	0.00			4.3	0.0	0.00	0.0	2.7		3.5	0.1		2.0	0.02	0.0	3.5		0.0	0.0
1 13 78	0.0	0.00	0.0	0.00	3.8	0.0	0.00	0.0	1.5	0.10	2.4	0.1	0.0	1.9	0.00	0.0	3.2	0.0	0.0	0.0
2 16 78	0.0	0.03			4.3	0.0	0.00	0.2	2.6		3.4	0.2		2.0	0.01	0.0	3.4		0.0	0.0
3 23 78	0.0	0.00			3.5	0.0	0.00	0.0	1.5		2.7	0.1		1.5	0.00	0.0	2.7		0.0	0.0
4 18 78	0.0	0.00	0.0	0.00	5.0	0.0	0.00	0.2	2.3	0.05	3.7	0.2	0.0	2.3	0.00	0.0	2.7	0.0	0.1	0.0
5 10 78	0.0	0.00			3.6	0.0	0.00	0.1	1.5		2.9	0.1		1.9	0.00	0.0	3.2		0.0	0.0
6 14 78	0.0	0.00			4.7	0.0	0.00	0.1	3.1		3.1	0.1		2.1	0.01	0.0	2.5		0.0	0.0
7 11 78	0.0	0.01	0.0	0.00	4.7	0.0	0.00	0.1	3.0	0.02	3.0	0.2	0.0	1.8	0.00	0.0	3.8	0.0	0.0	0.0
8 10 78	0.0	0.01			4.2	0.0	0.01	0.1	2.0		2.6	0.1		1.8	0.01	0.0	3.9		0.0	0.0
9 26 78	0.0	0.00	0.0	0.00	5.4	0.0	0.00	0.1	3.1	0.06	2.9	0.0	0.0	2.4	0.00	0.0	2.9	0.0	0.0	0.1
10 26 78	0.0	0.00	0.0	0.00	6.0	0.0	0.00	0.0	3.3	0.15	3.1	0.0	0.0	2.6	0.00	0.0	2.6	0.0	0.0	0.0
12 19 78	0.1	0.00			5.7	0.0	0.01	0.6	4.4		3.2	0.6		2.3	0.01	0.1	3.4		0.1	0.1
1 17 79	0.1	0.00	0.0	0.00	4.3	0.0	0.01	0.3	2.4	0.07	2.8	0.1	0.0	1.6	0.01	0.0	3.2	0.0	0.0	0.0
2 17 79	0.0	0.00			3.9	0.0	0.00	0.1	1.7		2.4	0.0		1.3	0.00	0.0	2.7		0.0	0.0
3 13 79	0.0	0.00			3.4	0.0	0.00	0.1	1.4		2.5	0.1		1.3	0.01	0.0	2.8		0.0	0.0
4 24 79	0.0	0.00	0.0	0.00	4.6	0.0	0.00	0.1	2.1	0.07	3.2	0.0	0.0	1.7	0.00	0.0	2.9	0.0	0.0	0.0
6 7 79	0.0	0.00			4.4	0.0	0.00	0.1	2.0		2.6	0.0		1.5	0.00	0.0	3.4		0.0	0.1
7 12 79	0.0	0.00	0.0	0.00	4.0	0.0	0.00	0.0	2.6	0.03	1.7	0.0	0.0	1.5	0.00	0.0	2.6	0.0	0.0	0.1

TABLE 89. WATER QUALITY FOR SITE 9202 NICHOLAS COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
6 30 77	21	0.08			10	299	152	2.57	7.9		72	87	0	1.6	48	0.1					
8 13 77	19	0.4			65	270	157	1.42	6.8		30	37	0	1.7	80	0.8					
9 23 77	15	0.1			4	293	189	1.63	7.5		62	76	0	1.6	85	0.1					
10 28 77	13	0.09	12		4	187	101	2.42	6.8		34	41	0	1.0	36	0.1					
12 7 77	5	0.25	45*		25	181	98	1.72	6.6		11	13	0	1.1	49	0.2					
1 13 78	5	0.4			90	120	71	1.65	7.3		18	22	0	1.0	31	0.2					
2 16 78	3	0.7			0	151	83	2.21	7.7		33	40	0	1.2	28	0.2					
3 23 78	8	0.6			8	124	70	2.05	6.6		27	33	0	1.0	25	0.2					
4 18 78	12	0.15			5	171	102	2.39	7.9		43	52	0	1.2	34	0.2					
5 10 78	14	0.4	15		30	81	52	1.85	7.4		16	20	0	1.1	19	0.3					
6 14 78	18	0.25			60	129	79	2.26	7.5		33	40	0	0.6	25	0.7					
7 11 78	24	0.4	250*		230	139	91	2.16	7.6		36	44	0	1.0	31	0.2					
8 10 78	17	0.4	61*		10	93	56	1.91	7.4		18	22	0	1.0	20	0.2					
9 26 78	20	0.015	42*		10	286	173	2.05	8.1		75	91	1	1.6	64	0.1					
10 26 78	17	0.04	35*		5	327	196	1.99	8.1	-90	83	99	1	1.8	74	0.0					
12 19 78	7	0.1	2		0	124	76	2.53	7.3	-21	25	30	0	1.1	24	0.6					
1 17 79	7	0.4	18		95	108	62	1.90	6.9	-16	17	21	0	1.7	23	0.4					
2 17 79	5	0.6	28		1	71	45	1.74	6.8	-6	9	11	0	0.8	18	0.4					
3 13 79	8	0.4	20		4	116	67	2.30	7.4	-23	25	30	0	1.2	22	0.3					
4 24 79	14	0.2	22	0.00	6	147	92	1.88	7.5	-27	30	36	0	1.7	37	0.2					
6 7 79	20	0.1			6	151	103	2.01	7.8	-24	36	44	0	1.3	39	0.2					
7 12 79	22	0.09	26*		15	183	102	1.78	7.8	-33	38	46	0	0.6	41	0.1	0.1	0.01	43.5	1.00	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
6 30 77	0.1	0.00			20	0.0	0.00	0.2	2.6		9.2	0.8		19	0.00	0.0	2.7		0.1	0.2
8 13 77	0.1	0.00			22	0.0	0.01	0.0	2.9		11	0.9		9.8	0.00	0.0	3.5		0.0	0.2
9 23 77	0.0	0.00			23	0.0	0.00	0.5	2.4		9.7	0.5		21	0.03	0.0	3.3		0.0	0.0
10 28 77	0.1	0.03	0.0	0.00	15	0.0	0.00	0.2	2.2	0.02	6.8	0.5	0.0	10	0.03	0.0	3.6	0.1	0.0	0.0
12 7 77	0.1	0.00			14	0.0	0.01	0.1	2.8		10	0.3		4.3	0.03	0.0	3.8		0.1	0.0
1 13 78	0.1	0.00	0.0	0.00	9.5	0.0	0.00	0.1	1.3	0.03	5.2	0.3	0.0	3.7	0.00	0.0	3.5	0.1	0.0	0.0
2 16 78	0.0	0.02			11	0.0	0.00	0.6	1.9		6.1	0.2		5.8	0.01	0.0	3.6		0.0	0.0
3 23 78	0.0	0.00			9.8	0.0	0.00	0.3	1.5		5.4	0.2		3.6	0.00	0.0	2.9		0.0	0.0
4 18 78	0.1	0.01	0.0	0.00	14	0.1	0.00	0.3	1.5	0.08	8.6	0.6	0.0	6.3	0.03	0.2	3.4	0.1	0.5	0.0
5 10 78	0.0	0.00			6.2	0.0	0.00	0.2	1.2		3.9	0.0		2.6	0.00	0.0	3.2		0.0	0.0
6 14 78	0.1	0.00			10	0.0	0.00	0.4	1.5		5.6	0.2		5.0	0.01	0.0	3.7		0.0	0.0
7 11 78	0.0	0.01	0.0	0.00	11	0.0	0.01	0.3	2.5	0.04	6.2	0.4	0.0	6.4	0.00	0.0	4.1	0.1	0.1	0.0
8 10 78	0.1	0.01			6.4	0.1	0.01	0.2	1.7		3.8	0.2		3.6	0.02	0.1	3.5		0.0	0.0
9 26 78	0.1	0.00	0.0	0.00	21	0.0	0.00	0.2	2.3	0.15	9.7	0.6	0.0	20	0.01	0.1	3.5	0.2	0.1	0.0
10 26 78	0.1	0.01	0.0	0.00	23	0.0	0.01	0.1	2.5	0.30	9.5	0.8	0.0	26	0.01	0.0	3.7	0.1	0.1	0.0
12 19 78	0.1	0.01			12	0.0	0.01	0.2	2.0		5.6	0.2		6.1	0.01	0.0	3.3		0.1	0.0
1 17 79	0.1	0.00	0.0	0.00	9.1	0.0	0.00	0.2	1.4	0.05	4.6	0.1	0.0	2.7	0.01	0.0	3.0	0.1	0.0	0.1
2 17 79	0.0	0.00			6.1	0.0	0.00	0.1	1.3		3.4	0.0		1.9	0.01	0.0	3.0		0.0	0.0
3 13 79	0.0	0.00			10	0.0	0.01	0.2	1.4		5.2	0.1		3.5	0.01	0.0	3.0		0.0	0.0
4 24 79	0.0	0.00	0.0	0.00	15	0.0	0.00	0.1	1.6	0.10	6.7	0.2	0.0	4.4	0.01	0.0	2.9	0.2	0.0	0.0
6 7 79	0.0	0.01			16	0.0	0.02	0.0	1.9		7.7	0.3		5.0	0.00	0.0	3.8		0.0	0.1
7 12 79	0.0	0.00	0.0	0.00	14	0.0	0.01	0.1	1.8	0.25	6.6	0.4	0.0	5.9	0.01	0.0	3.8	0.2	0.0	0.0

TABLE 90. WATER QUALITY FOR SITE 9203 NICHOLAS COUNTY, WEST VIRGINIA

DATE			WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO	DA	YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7	1	77	18	0.2			65	356	213	1.85	7.8		62	75	0	1.6	100	0.1					
8	13	77	19	0.25			350	227	137	1.52	6.9		30	37	0	1.8	68	0.2					
9	23	77	14	0.1			0	330	198	1.65	7.4		50	61	0	1.2	99	0.0					
10	28	77	13	0.2	16		4	306	155	1.67	7.0		30	37	0	0.9	78	0.2					
12	7	77	4	0.3	35*		15	168	108	1.67	6.7		20	25	0	1.3	50	1.0					
1	13	78	4	0.4			15	180	108	1.48	7.4		25	31	0	1.1	50	0.9					
2	16	78	4	0.4			0	316	194	1.55	7.6		34	41	0	1.4	100	0.6					
3	23	78	7	0.4			10	259	149	1.37	6.8		31	38	0	1.2	78	0.7					
4	18	78	12	0.2			0	357	220	1.45	8.0		42	50	0	1.5	120	0.4					
5	10	78	14	0.4	17*		35	168	97	1.42	7.3		20	25	0	1.2	47	0.8					
6	14	78	18	0.4			0	298	173	1.68	7.7		40	49	0	0.8	87	0.4					
7	11	78	19	0.7	51*		25	180	107	1.55	7.3		25	31	0	0.7	50	0.7					
8	10	78	17	0.3	35*		3	190	109	1.39	7.6		29	35	0	1.2	52	0.6					
9	26	78	21	0.2	25*		30	324	204	1.44	7.7		45	55	0	1.6	110	0.1					
10	26	78	15	0.07	23*		7	349	196	1.39	7.8	-48	45	55	0	1.6	110	0.0					
12	19	78		0.07	3		4	233	132	1.50	7.4	-26	30	37	0	0.8	64	0.8					
1	17	79	8	0.3	31		15	224	123	1.40	7.2	-27	26	32	0	1.1	62	0.8					
2	17	79	4	0.5	34		5	147	83	1.53	7.2	-15	14	17	0	0.8	40	0.7					
3	13	79	10	0.4	11		3	224	123	1.39	7.0	-23	26	32	0	1.2	63	0.6					
4	24	79	15	0.15	26	0.00	6	262	168	1.59	7.6	-33	31	38	0	1.0	87	0.3					
6	7	79	19	0.1	4		6	267	163	1.73	7.9	-31	40	49	0	1.5	80	0.2					
7	12	79	19	0.08	24*		15	286	156	1.72	7.9	-30	39	48	0	0.6	76	0.2	0.0	0.01	0.40	0.15	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE			AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO	DA	YR	MILLIGRAMS PER LITER																			
7	1	77	0.1	0.00			31	0.0	0.00	0.1	3.7		23	0.4		9.1	0.00	0.0	2.9		0.0	0.0
8	13	77	0.4	0.01			18	0.0	0.01	0.3	5.2		10	0.4		6.7	0.00	0.1	3.0		0.0	0.0
9	23	77	0.0	0.00			30	0.0	0.00	0.0	3.2		18	0.1		9.6	0.00	0.0	3.4		0.0	0.0
10	28	77	0.1	0.01	0.0	0.00	25	0.0	0.00	0.3	3.2	0.05	13	0.2	0.0	7.4	0.03	0.0	3.8	0.4	0.0	0.0
12	7	77	0.1	0.00			14	0.0	0.01	0.1	2.9		10	0.3		4.4	0.03	0.0	3.9		0.1	0.0
1	13	78	0.1	0.00	0.0	0.00	14	0.0	0.00	0.0	1.7	0.05	8.8	0.4	0.0	4.4	0.00	0.0	3.6	0.3	0.0	0.0
2	16	78	0.0	0.04			25	0.0	0.00	0.1	3.5		22	0.2		7.2	0.02	0.0	3.8		0.0	0.0
3	23	78	0.1	0.00			20	0.0	0.00	0.1	2.6		12	0.3		5.4	0.00	0.0	3.2		0.1	0.0
4	18	78	0.2	0.03	0.1	0.00	31	0.2	0.01	0.1	2.7	0.15	21	0.5	0.0	6.9	0.05	0.3	3.4	0.6	0.6	0.0
5	10	78	0.1	0.01			12	0.0	0.00	0.1	2.0		7.9	0.1		3.7	0.00	0.0	3.4		0.0	0.0
6	14	78	0.1	0.01			22	0.0	0.00	0.1	2.9		19	0.2		6.6	0.02	0.0	3.5		0.0	0.0
7	11	78	0.1	0.01	0.0	0.00	14	0.0	0.00	0.1	2.4	0.06	9.2	0.1	0.0	3.9	0.00	0.0	3.6	0.3	0.0	0.0
8	10	78	0.1	0.01			13	0.1	0.02	0.1	2.2		8.5	0.1		4.5	0.03	0.1	3.5		0.0	0.0
9	26	78	0.1	0.01	0.0	0.00	31	0.0	0.00	0.0	3.3	0.25	16	0.0	0.0	7.2	0.00	0.0	3.5	0.2	0.0	0.0
10	26	78	0.1	0.01			26	0.0	0.01	0.0	3.4		17	0.0		7.3	0.01	0.0	3.4		0.1	0.0
12	19	78	0.1	0.01			18	0.0	0.00	0.0	2.7		10	0.2		5.5	0.03	0.0	3.7		0.0	0.0
1	17	79	0.1	0.00	0.0	0.00	17	0.0	0.00	0.1	2.0	0.10	10	0.2	0.0	3.3	0.02	0.1	3.2	0.3	0.1	0.0
2	17	79	0.1	0.00			12	0.0	0.00	0.0	1.8		6.9	0.1		2.8	0.02	0.0	3.0		0.1	0.0
3	13	79	0.1	0.00			17	0.0	0.01	0.0	2.4		9.2	0.1		4.7	0.01	0.0	2.9		0.0	0.0
4	24	79	0.1	0.00	0.0	0.00	29	0.0	0.00	0.0	3.0	0.20	14	0.1	0.0	5.5	0.02	0.0	3.3	0.6	0.0	0.0
6	7	79	0.1	0.01			24	0.0	0.01	0.0	3.1		17	0.1		5.8	0.00	0.0	3.3		0.0	0.1
7	12	79	0.0	0.01	0.0	0.00	22	0.0	0.00	0.0	2.6	0.45	16	0.0	0.1	4.9	0.01	0.0	3.8	0.4	0.0	0.1

TABLE 91. WATER QUALITY FOR SITE 9211 PRESTON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 7 77	19	0.04			30	114	50	3.04	7.7		25	31	0	2.2	10	0.9					
10 18 77	5	0.2	22		8	99	55	1.05	7.4		6	7	0	4.6	17	2.8					
11 21 77	9	0.3	38		25	87	44	1.28	7.0		7	9	0	4.3	13	0.6					
1 3 78	0	0.3	4		10	74	40	1.58	6.9		6	7	0	3.9	14	0.6					
2 10 78	0	0.07			10	75	48	1.87	7.1		7	8	0	2.9	15	1.3					
3 14 78	1	2.0	429			79	44	2.19	7.2		11	13	0	2.2	13	1.1					
4 10 78	14	0.1	12		60	74	46	1.53	7.4		10	12	0	3.2	14	1.5					
5 4 78	9	0.1	45*		130	79	51	1.34	6.9		10	12	0	3.0	18	1.5					
6 2 78	20	0.09			30	79	48	1.85	6.9		11	13	0	2.9	13	1.7					
6 29 78	18	0.7	86*			109	60	2.61	7.1		22	27	0	5.6	11	2.0					
7 27 78	20	0.9			4000	163	111	1.94	7.9		48	57	0	1.6	39	1.1					
9 6 78	19	0.1	20*		35	159	54	1.15	4.8		0	0	0	4.1	15	3.4					
10 18 78	11	0.2	21*		15	136	49	2.33	6.8	-1	5	6	0	6.9	14	0.6					
12 1 78	7	0.05	45		20	80	41	1.88	7.1		8	10	0	4.2	11	0.9					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 7 77	0.1	0.00			10	0.0	0.00	0.0	1.2		2.1	0.0		1.2	0.00	0.0	1.9		0.0	0.0
10 18 77	0.0	0.02	0.1	0.00	8.1	0.0	0.00	0.1	1.1	0.05	2.7	0.0	0.0	1.0	0.00	0.0	2.0	0.0	0.0	0.0
11 21 77	0.0	0.00			8.6	0.0	0.00	0.0	1.2		0.0	2.9		1.3	0.01	0.0	2.4		0.0	0.0
1 3 78	0.2	0.00	0.1	0.00	6.5	0.0	0.01	0.0	1.2	0.00	2.6	0.1	0.0	0.9	0.02	0.0	2.0	0.0	0.0	0.0
2 10 78	0.3	0.00	0.0	0.00	8.3	0.0	0.00	0.0	1.4	0.00	3.2	0.1	0.0	1.2	0.01	0.0	2.6	0.0	0.0	0.0
3 14 78	0.0	0.02			8.9	0.0	0.01	0.2	2.3		1.8	0.1		1.4	0.01	0.0	1.2		0.1	0.0
4 10 78	0.1	0.00	0.0	0.00	7.2	0.0	0.00	0.0	0.8	0.02	2.7	0.0	0.0	1.0	0.00	0.0	2.3	0.0	0.0	0.0
5 4 78	0.0	0.00			8.7	0.0	0.00	0.0	1.0		2.6	0.0		0.8	0.00	0.0	2.0		0.0	0.0
6 2 78	0.0	0.01			8.1	0.0	0.00	0.0	1.2		2.7	0.0		1.1	0.02	0.0	2.2		0.1	0.0
6 29 78	0.1	0.00			11	0.0	0.00	0.1	1.3		3.3	0.0		1.3	0.00	0.0	2.1		0.0	0.0
7 27 78	0.2	0.01	0.0	0.00	26	0.0	0.00	0.0	1.8	0.15	4.0	0.4	0.1	1.0	0.03	0.1	1.3	0.1	0.1	0.0
9 6 78	0.2	0.02			8.8	0.1	0.01	0.3	1.0		2.7	0.1		0.7	0.05	0.3	2.2		0.5	0.0
10 18 78	0.2	0.01			11	0.0	0.01	0.1	1.1		3.5	0.1		0.9	0.02	0.1	2.7		0.1	0.0
12 1 78	0.1	0.00			7.9	0.0	0.00	0.0	0.9		2.1	0.0		0.6	0.01	0.0	2.2		0.1	0.0

TABLE 92. WATER QUALITY FOR SITE 9212 PRESTON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L	MILLIGRAMS PER LITER													
9 7 77	19	0.2			4	2200	1770	0.54	2.9		0	0	0	0.6	1300	0.1					
10 18 77	6	0.2	8		75	806	524	0.46	2.8		0	0	0	1.6	390	0.4					
11 21 77	8	0.25	70		10	943	633	0.50	2.8		0	0	0	1.6	470	0.2					
1 3 78	0	0.2	39		10	1240	910	0.35	2.5		0	0	0	1.5	720	0.3					
2 10 78	0	0.4			8	1590	1030	0.55	2.7		0	0	0	1.1	750	0.2					
3 14 78	1	60	81			323	168	0.47	2.9		0	0	0	1.0	130	0.7					
4 10 78	18	0.4	5		10	1140	698	0.53	3.0		0	0	0	1.2	520	0.4					
5 4 78	8	0.25	22*		15	1940	1370	0.40	2.5		0	0	0	1.2	1000	0.7					
6 2 78	20	0.2			50	2180	1480	0.40	2.7		0	0	0	0.7	1100	1.4					
6 29 78	22	0.7	48*			713	422	0.52	3.1		0	0	0	0.9	320	0.2					
7 27 78	22	2.5	1880*			1760	1120	0.45	3.0		0	0	0	0.9	870	0.5					
9 6 78	18	0.4	59*		80	1150	691	0.44	3.0		0	0	0	1.1	530	0.6					
10 18 78	10	0.09	66*		75	1130	670	0.53	3.0	240	0	0	0	1.6	500	0.1					
12 1 78	6	0.3	23		45	760	374	0.63	3.0	150	0	0	0	1.5	260	2.5					
1 11 79	2	0.3	8		25	1100	508	0.44	2.9		0	0	0	1.1	370	1.7					
2 14 79	0	0.1	59		25	1380	811	0.61	2.9	360	0	0	0	0.8	570	1.1					
3 9 79	8	0.15	40		8	1080	693	0.46	3.0	270	0	0	0	0.8	520	1.3					
4 16 79	6	0.3	29	0.01	20	976	636	0.58	2.9		0	0	0	0.8	460	0.6					
5 31 79	14	0.15	20		65	997	593	0.49	2.9	210	0	0	0	0.6	450	0.5					
7 9 79	23	0.05	76*		45	1980	1420	0.41	2.8	470	0	0	0	0.9	1100	0.5	0.2	1.60	5.50	0.15	0.03
10 24 79	7	0.4	27		100	1010	639	0.61	3.1	200	0	0	0	2.3	460	0.2					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 7 77	110	0.01			170	0.9	0.06	18	4.0		71	24		2.5	0.89	0.1	28		0.2	2.5
10 18 77	23	0.02			38	0.3	0.06	25	2.1		22	7.5		1.6	0.31	0.0	5.2		0.0	0.8
11 21 77	26	0.02			50	0.4	0.17	26	2.1		27	12		1.8	0.39	0.0	5.6		0.1	0.9
1 3 78	38	0.00	0.0	0.01	53	0.5	0.10	35	2.4	0.30	31	11	0.0	1.8	0.46	0.1	5.0	0.2	0.1	1.4
2 10 78	51		0.0	0.02	84	0.8	0.15	50	2.6	0.00	51	17	0.0	2.1	0.77	0.0	8.7	0.1	0.1	2.1
3 14 78	0.5	0.00			12	0.2	0.03	3.7	2.1		7.6	3.1		0.8	0.13	0.1	2.5		0.2	0.3
4 10 78	33	0.00	0.0	0.01	53	0.5	0.08	17	1.8	0.10	37	17	0.0	1.5	0.53	0.0	5.1	0.1	0.0	1.4
5 4 78	72	0.02			86	1.2	0.20	57	1.8		53	24		1.5	1.0	0.0	7.7		0.2	3.2
6 2 78	77	0.02			95	1.3	0.21	54	2.3		58	28		1.9	1.1	0.0	8.8		0.2	3.5
6 29 78	19	0.01			30	0.3	0.03	12	1.5		23	7.3		1.5	0.30	0.0	4.4		0.0	0.7
7 27 78	49	0.02	0.0	0.03	82	0.7	0.12	20	3.2	0.30	48	19	0.1	2.2	0.80	0.2	8.3	0.1	0.2	2.7
9 6 78	25	0.02			53	0.4	0.08	24	2.0		25	10		4.6	0.40	0.1	6.3		0.1	1.0
10 18 78	23	0.01	0.0	0.02	61	0.4	0.06	22	2.1	0.25	28	11	0.0	2.7	0.37	0.1	5.6	0.0	0.1	0.8
12 1 78	11	0.00			40	0.2	0.03	12	1.2		18	6.5		2.8	0.18	0.1	4.0		0.0	0.6
1 11 79	20	0.00	0.0	0.00	39	0.4	0.09	24	1.5	0.40	18	7.7	0.0	2.0	0.37	0.1	4.8	0.1	0.2	0.6
2 14 79	38	0.01			82	0.6	0.11	39	1.9		37	15		2.4	0.54	0.1	6.5		0.2	1.8
3 9 79	31	0.01			55	0.5	0.10	23	1.6		27	12		1.7	0.46	0.1	5.6		0.1	1.0
4 16 79	31	0.00			63	0.4	0.09	24	1.9		29	11		1.8	0.41	0.0	4.4		0.0	0.9
5 31 79	23	0.02			47	0.4	0.09	17	1.4		27	10.0		1.2	0.41	0.1	5.6		0.1	1.0
7 9 79	68	0.02	0.0	0.02	110	1.2	0.69	43	2.7	0.45	43	32	0.0	2.5	1.0	0.2	12	0.1	0.2	2.4
10 24 79	22	0.02			67	0.4	0.06	21	3.0		30	11		2.3	0.38	0.1	5.8		0.2	0.9

TABLE 93. WATER QUALITY FOR SITE 9215 PRESTON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 7 77	22	0.05			20	3950	4630	0.57	2.8		0	0	0	1.5	3200	0.0					
10 18 77	6	0.04	8		4	1910	1510	0.52	2.9		0	0	0	2.2	1100	0.1					
11 21 77	9	0.0000	37		30	1790	1650	0.42	3.0		0	0	0	1.4	1300	0.1					
1 3 78	0	0.025	29		20	1980	1740	0.38	2.7		0	0	0	2.6	1300	0.1					
2 10 78	1	0.04			15	1760	1520	0.48	2.9		0	0	0	1.8	1100	0.1					
3 14 78					8	89	45	0.90	4.6		0	0	0	0.9	29	0.3					
4 10 78	22	0.05	6		20	1890	1810	0.43	3.0		0	0	0	2.6	1400	0.1					
5 4 78	8	0.015	13		8	1510	1290	0.49	3.0		0	0	0	2.8	970	0.2					
6 2 78	28	0.03	348*		260	3260	2870	0.56	2.9		0	0	0	1.8	2100	0.0					
6 29 78			48*			1940	1850	0.42	3.0		0	0	0	1.5	1400	0.0					
7 27 78	22	0.1	59*		50	627	410	0.61	3.8		0	0	0	3.0	290	0.1					
9 6 78	20	0.09	91*		30	3930	4510	0.42	2.9		0	0	0	2.2	3500	0.0					
10 18 78	10	0.02	45*		15	2300	2000	0.47	3.1	840	0	0	0	2.1	1500	0.0					
12 1 78	7	0.02	21		3	1750	1460	0.50	3.1		0	0	0	2.3	1100	0.1					
1 11 79	2	0.03	15		3	1580	1580	0.48	3.2		0	0	0	1.7	1200	0.2					
3 9 79	13	0.04	22		6	1650	1410	0.51	3.3	560	0	0	0	1.6	1000	0.1					
4 16 79	6	0.09	27	0.00	10	1410	1160	0.50	3.3		0	0	0	2.0	880	0.1					
5 31 79	17	0.04	16	0.02	90	1700	1370	0.55	3.1	560	0	0	0	1.3	1000	0.1					
7 9 79	22	0.015	46*		15	3350	3250	0.43	2.9	1200	0	0	0	2.8	2500	0.3	0.0	0.55	2.25	0.25	0.02
10 24 79	6	0.04	38		10	2320	2120	0.42	3.1	800	0	0	0	2.3	1600	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 7 77	390	0.18			350	9.8	0.36	100	15		240	190		4.4	5.6	0.4	38		0.5	14
10 18 77	99	0.04	0.1	0.03	110	2.6	0.09	28	7.6	0.35	72	54	0.0	4.8	1.3	0.1	8.9	0.2	0.1	4.0
11 21 77	94	0.02			100	2.4	0.08	23	6.6		65	63		6.3	1.3	0.1	8.9		0.1	2.6
1 3 78	120	0.00	0.1	0.03	93	2.8	0.10	26	12	0.60	65	59	0.0	4.7	1.7	0.2	6.9	0.3	0.2	3.5
2 10 78	98	0.09	0.0	0.02	110	2.5	0.08	24	6.4	0.10	70	50	0.0	4.3	1.3	0.1	8.3	0.2	0.2	3.6
3 14 78	0.1	0.00			6.9	0.1	0.01	0.2	2.0		2.1	1.0		0.5	0.03	0.1	0.4		0.1	0.1
4 10 78	110	0.00	0.0	0.02	110	2.7	0.09	18	7.4	0.25	80	74	0.0	4.0	1.6	0.1	8.4	0.2	0.1	3.9
5 4 78	79	0.03			87	2.2	0.05	17	5.7		64	39		3.4	1.0	0.1	6.0		0.2	3.2
6 2 78	210	0.02			190	4.9	0.15	26	12		180	100		5.7	4.2	0.2	14		0.6	7.3
6 29 78	120	0.02			110	2.7	0.08	13	7.4		80	59		3.9	1.5	0.1	8.2		0.3	4.3
7 27 78	20	0.02	0.0	0.01	41	0.5	0.02	4.3	5.9	0.20	19	13	0.1	1.7	0.29	0.1	2.3	0.1	0.0	0.7
9 6 78	270	0.04			270	7.1	0.19	78	14		200	150		6.3	4.3	0.6	19		0.6	10
10 18 78	120	0.00			140	3.4	0.10	28	7.7		94	72		4.5	2.0	0.3	9.4		0.4	4.3
12 1 78	84	0.02			110	2.4	0.07	20	6.1		69	52		3.2	1.2	0.2	8.2		0.2	3.5
1 11 79	90	0.00	0.1	0.01	110	2.3	0.06	20	5.7	0.60	75	53	0.0	2.3	1.2	0.4	7.3	0.2	0.3	3.5
3 9 79	80	0.02			100	1.9	0.05	17	5.9		72	55		1.9	1.3	0.2	7.5		0.3	3.8
4 16 79	62	0.00			87	1.6	0.04	12	6.0		56	37		2.1	0.99	0.2	5.1		0.3	2.9
5 31 79	79	0.03			100	2.3	0.05	15	7.7		75	54		2.5	1.3	0.2	7.3		0.3	3.7
7 9 79	170	0.03	0.0	0.03	190	4.7	0.12	35	14	0.75	150	120	0.1	4.4	2.7	0.4	15	0.2	0.7	7.8
10 24 79	120	0.02			130	3.1	0.08	39	12		86	76		3.8	1.8	0.2	11		0.6	4.5

TABLE 94. WATER QUALITY FOR SITE 9218 PRESTON COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
1 11 79	2	0.1	21		80	87	65	1.15	6.8	0	5	6	0	4.0	18	4.4					
2 14 79	0	0.06	71		9	108	63	1.79	6.9		8	10	0	2.4	16	3.9					
3 9 79	8	0.1	28		100	90	55	1.45	6.5	0	5	6	0	2.4	20	2.3					
4 16 79	7	0.2	42	0.00	90	121	72	1.47	7.1	-14	12	15	0	1.3	30	1.9					
5 31 79	13	0.015	51		50	119	80	1.24	6.6	-16	17	21	0	4.7	30	2.3					
7 9 79	19	0.007	21*		45	161	92	3.11	7.9	-47	48	58	0	5.8	19	1.1	0.5	0.00	1.60	0.00	0.01
10 24 79	10	0.03	3		10	495	294	1.03	7.9		50	60	0	7.9	170	1.8					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
1 11 79	0.1	0.00	0.1	0.00	10	0.0	0.01	0.0	1.7	0.15	3.1	0.1	0.0	1.2	0.02	0.0	2.0	0.0	0.1	0.0
2 14 79	0.1	0.00			12	0.0	0.00	0.1	1.5		3.3	0.2		0.9	0.01	0.0	2.0		0.0	0.0
3 9 79	0.1	0.00			10	0.0	0.00	0.0	1.5		3.0	0.2		0.8	0.01	0.0	1.8		0.0	0.0
4 16 79	0.1	0.00	0.1	0.00	14	0.0	0.00	0.1	1.4	0.15	3.2	0.2	0.0	2.2	0.01	0.0	1.8	0.1	0.0	0.0
5 31 79	0.1	0.01			15	0.0	0.01	0.0	1.1		2.7	0.1		1.2	0.00	0.0	1.8		0.0	0.0
7 9 79	0.2	0.01	0.1	0.00	22	0.0	0.00	0.1	1.4	0.20	3.6	0.1	0.0	1.8	0.01	0.0	2.0	0.0	0.0	0.0
10 24 79	0.1	0.02			29	0.0	0.00	0.0	1.9		11	1.3		35	0.04	0.0	1.7		0.0	0.1

TABLE 95. WATER QUALITY FOR SITE 9220 RALEIGH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
5 3 79	12	0.06				60			6.7					0.5	18	0.3					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
5 3 79	0.0	0.01			6.2	0.0	0.00	0.0	1.5		3.5	0.0		2.0	0.01	0.0	5.2		0.0	0.0

TABLE 96. WATER QUALITY FOR SITE 9221 RALEIGH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 11 77	20	0.4			8	62	38	1.94	6.9		11	13	0	0.6	12	0.1					
9 29 77	15	0.009			4	71	44	2.06	6.5		13	16	0	1.6	13	0.2					
11 1 77	12	0.2	16		0	71	45	1.92	7.0		14	17	0	0.7	14	0.4					
12 5 77	10	0.4	52*		30	47	38	1.67	6.8		6	7	0	0.7	14	0.4					
8 11 78	18	0.04	21*		3	59	37	1.91	7.1		9	11	0	0.8	12	0.2					
9 27 78	19	0.001	29*		15	70	38	2.24	7.1		11	14	0	1.1	11	0.1					
11 7 78	16	0.01	2		10	63	46	1.90	7.1	-8	13	16	0	1.2	15	0.1					
12 14 78	6	0.07	7		1	50	36	1.32	6.4	-1	3	4	0	0.7	15	0.4					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 11 77	0.0	0.00			3.4	0.0	0.00	0.0	1.5		2.5	0.0		2.3	0.00	0.0	4.3		0.0	0.1
9 29 77	0.0	0.00			4.3	0.0	0.00	0.0	2.0		2.6	0.0		3.3	0.02	0.0	3.9		0.0	0.1
11 1 77	0.0	0.00	0.0	0.00	4.2	0.0	0.00	0.0	3.2	0.02	2.6	0.0	0.0	2.2	0.00	0.0	4.1	0.0	0.0	0.0
12 5 77	0.1	0.03			3.4	0.1	0.01	0.0	2.0		2.7	0.0		1.9	0.03	0.0	3.7		0.1	0.0
8 11 78	0.0	0.00			4.0	0.0	0.00	0.0	1.5		2.3	0.0		1.6	0.00	0.0	4.0		0.0	0.0
9 27 78	0.0	0.00	0.0	0.00	4.3	0.0	0.00	0.0	1.5	0.07	2.4	0.0	0.0	1.9	0.00	0.0	4.0	0.0	0.0	0.0
11 7 78	0.0	0.00			5.1	0.0	0.00	0.0	1.6		2.8	0.0		2.8	0.00	0.0	3.9		0.0	0.1
12 14 78	0.0	0.00			3.9	0.0	0.00	0.0	1.4		2.0	0.0		1.8	0.00	0.0	3.4		0.0	0.0

TABLE 97. WATER QUALITY FOR SITE 9222 RALEIGH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
6 9 77	12	0.3			150	650	344	1.37	7.4		25	30	0	1.2	220						
8 10 77	26	0.4			8	628	389	1.23	7.3		45	55	0	0.9	250	0.5					
9 29 77	18	0.2			15	605	409	1.37	7.5		47	57	0	1.1	250	0.4					
11 1 77	13	0.5	16		0	512	336	1.46	6.9		42	51	0	1.0	200	0.6					
12 5 77	9	0.9	832*		1300	366	241	1.55	6.6		30	37	0	1.3	130	3.0					
1 19 78	2	0.6			20	613	336	1.37	7.9		36	44	0	1.0	200	1.1					
2 23 78	0	1.5			20	529	349	1.38	7.6		28	34	0	1.2	220	1.0					
3 24 78	8	0.5			4	501	307	1.43	6.7		33	40	0	1.0	180	1.1					
4 20 78	8	0.7	632*		1700				7.4					2.7	250	1.1					
5 11 78	20	0.4	11		15	463	329	1.09	7.5		37	45	0	1.0	210	0.8					
6 13 78	18	0.4			20	584	382	1.32	7.8		49	59	0	0.4	230	1.2					
7 18 78	16	0.4	85*		20	602	410	1.38	8.0		51	61	0	0.4	250	0.4					
8 10 78	24	0.3	24*		9	745	484	1.37	8.0		50	60	0	0.4	300	0.4					
9 27 78	19	0.3	33*		3	727	458	1.34	8.0		48	58	0	1.1	290	0.3					
11 8 78	12	0.2	1		2	585	419	1.08	7.8	-41	52	62	0	1.1	280	0.1					
12 20 78	10	0.7	124		230	753	515	1.15	7.2	-12	20	25	0	1.6	340	1.6					
1 18 79	4	0.5	6		0	481	328	1.09	7.4	-27	27	33	0	1.1	220	1.2					
2 20 79	4	0.3	16		2	486	340	1.27	7.4	-21	25	30	0	0.6	210	3.2					
3 28 79	5	0.7			2	479	362	1.17	7.7		30	36	0	0.7	230	1.3					
5 3 79	14	0.5	7	0.00	9	534	368	1.27	7.6	-27	34	42	0	0.6	230	1.0					
6 18 79	20	0.15	30		10	505	378	1.40	7.7	-36	42	51	0	1.1	230	0.7					
7 17 79	22	0.2	2		15	523	327	1.46	7.8	-28	41	50	0	0.8	190	0.5	0.1	0.01	0.35	0.00	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
6 9 77	0.1	0.00	0.0	0.00	46	0.0	0.01	0.1	3.6	0.15	42	0.8	0.0	8.4	0.03	0.1	2.7	0.2	0.0	0.0
8 10 77	0.1	0.00			51	0.0	0.01	0.1	3.8		40	0.8		10	0.00	0.0	2.4		0.1	0.0
9 29 77	0.1	0.00			63	0.0	0.00	0.2	3.7		42	1.2		11	0.02	0.0	3.1		0.0	0.2
11 1 77	0.1	0.00	0.0	0.00	55	0.0	0.00	0.1	3.2	0.10	35	0.6	0.0	9.1	0.02	0.0	2.7	0.2	0.0	0.0
12 5 77	0.1	0.00			31	0.1	0.02	0.0	4.0		31	0.1		5.8	0.05	0.0	1.9		0.2	0.0
1 19 78	0.1	0.00	0.0	0.00	48	0.0	0.00	0.4	2.8	0.40	38	0.3	0.0	6.7	0.02	0.0	3.0	0.7	0.3	0.0
2 23 78	0.0	0.01			51	0.0	0.00	0.1	2.6		42	0.3		7.2	0.01	0.0	2.5		0.0	0.0
3 24 78	0.1	0.00			47	0.0	0.00	0.1	2.7		36	0.1		5.4	0.01	0.0	3.1		0.1	0.0
4 20 78	0.1	0.00	0.0	0.00	54	0.0	0.00	0.1	3.4	0.09	43	0.4	0.0	6.5	0.02	0.0	1.9	0.3	0.2	0.0
5 11 78	0.1	0.00			42	0.0	0.00	0.1	2.7		31	0.1		5.5	0.01	0.0	2.9		0.0	0.0
6 13 78	0.1	0.00			55	0.0	0.00	0.1	3.3		41	0.5		7.6	0.05	0.0	3.4		0.2	0.0
7 18 78	0.1	0.00	0.1	0.00	68	0.0	0.01	0.2	3.6	0.25	40	0.8	0.1	8.4	0.03	0.1	3.2	0.3	0.0	0.0
8 10 78	0.1	0.01			77	0.0	0.01	0.1	4.4		51	0.1		11	0.04	0.1	3.6		0.1	0.0
9 27 78	0.2	0.00	0.1	0.00	75	0.0	0.00	0.1	4.0	0.30	46	0.0	0.0	8.3	0.03	0.1	3.0	0.4	0.0	0.0
11 8 78	0.1	0.00			58	0.0	0.01	0.1	2.9		35	1.0		8.6	0.04	0.1	2.4		0.1	0.0
12 20 78	0.2	0.01			88	0.1	0.02	0.1	3.5		45	0.6		6.2	0.10	0.2	3.2		0.4	0.0
1 18 79	0.1	0.00	0.0	0.00	49	0.0	0.00	0.1	2.3	0.10	28	0.2	0.0	4.2	0.02	0.1	2.6	0.2	0.1	0.0
2 20 79	0.1	0.00			57	0.0	0.00	0.0	2.6		31	0.1		5.1	0.02	0.0	2.5		0.1	0.0
3 28 79	0.2	0.00	0.0	0.00	56	0.0	0.00	0.1	2.7	0.20	33	0.2	0.0	5.2	0.04	0.1	2.8	0.2	0.2	0.0
5 3 79	0.1	0.00			60	0.0	0.00	0.1	2.4		36	0.2		5.0	0.01	0.0	2.5		0.2	0.0
6 18 79	0.1	0.01			63	0.0	0.00	0.0	3.3		40	0.3		6.4	0.00	0.1	3.4		0.1	0.0
7 17 79	0.1	0.01	0.0	0.00	56	0.0	0.02	0.0	2.9	0.15	33	0.4	0.0	6.5	0.00	0.1	2.9	0.2	0.1	0.0

TABLE 100. WATER QUALITY FOR SITE 9225 RALEIGH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
5 3 79	13	0.15			15	902	584	1.09	7.7		48	58	0	0.8	390	1.6					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
5 3 79	0.2	0.00			85	0.0	0.01	0.0	3.7		53	0.0		7.7	0.03	0.1	3.5		0.2	0.0

TABLE 101. WATER QUALITY FOR SITE 9227 RALEIGH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 11 77	64				15	47	40	1.61	6.4		7	9	0	1.5	15						
8 8 77	64				0	43	38	1.87	6.4		8	10	0	0.9	13						
9 12 77	54				4	49	42	1.79	7.2		8	10	0	4.5	12	0.1					
11 8 77	56		5			42	35	1.69	6.9		7	9	0	0.9	13	0.1					
12 7 77	46		2		4	42	37	1.62	5.9		5	6	0	1.3	14	0.2					
1 11 78	42		0		0	37	33	1.55	5.8		4	5	0	0.7	13	0.3					
2 21 78	9		2		2	50								1.8	12	0.3					
3 30 78	14		3		6	50								0.7	13	0.2					
5 8 78	9		1		4	46								0.5	10	0.3					
6 20 78			0		10	54	43	1.45	7.1		7	9	0	1.2	16	0.3					
7 19 78			0		20	57	39	1.96	6.5		7	9	0	1.2	12	0.3					
8 16 78			0		6	58	43	1.94	6.8		9	11	0	1.5	13	0.3					
9 19 78	18				1	64	40	2.02	6.6		10	12	0	1.2	12	0.3					
10 20 78	8				1	59	34	2.69	6.5		10	12	0	0.4	9	0.2					
11 27 78	5		0		0	58	39	1.95	7.0		10	12	0	0.7	13	0.1					
12 14 78	4				2	54	39	1.22	6.7		3	4	0	0.6	17	0.6					
1 2 79	8				4	50	37	1.28	6.4		3	4	0	0.5	16	0.5					
2 14 79	1				2	49	36	1.27	6.5		2	3	0	1.3	16	0.2					
3 14 79	8				0	46	33	1.23	6.5		2	3	0	0.9	15	0.2					
4 13 79	9		4			46	38	1.35	6.3		3	4	0	0.8	17	0.2					
5 3 79	12	0.15		0.05	4	49	34	1.12	6.4		2	3	0	0.5	16	0.2					
6 18 79	14	0.2	4		5	54	39	1.50	7.0	0	8	10	0	1.0	14	0.2					
7 17 79	16	0.2	1		15	57	39	1.40	6.5	-1	7	8	0	0.8	15	0.2	0.1	0.04	0.45	0.15	0.00
8 15 79	15		6		5	56	43	1.63	7.1		7	9	0	1.0	15	0.4					
9 11 79	18		0		5	57	53	1.43	6.7		9	11	0		15	0.4					
10 9 79	13		0		5	54	42	1.26	6.8		7	9	0	0.2	17	0.5					
11 5 79	11		2		5	55	46	1.10	6.9		7	8	0		13	0.8					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 11 77	0.0	0.00			3.6	0.0	0.00	0.0	1.9		2.3	0.0		2.6	0.00	0.0	4.0		0.0	0.0
8 8 77	0.0	0.00			3.6	0.0	0.00	0.0	1.6		2.5	0.0		2.2	0.00	0.0	4.1		0.0	0.0
9 12 77	0.0	0.00			4.3	0.0	0.00	0.1	2.0		2.4	0.0		2.8	0.00	0.0	3.9		0.0	0.1
11 8 77	0.0	0.00			3.2	0.0	0.00	0.0	1.6		2.4	0.0		2.0	0.02	0.1	3.4		0.0	0.0
12 7 77	0.0	0.00			3.2	0.0	0.01	0.0	1.6		2.5	0.0		2.4	0.01	0.0	3.9		0.0	0.0
1 11 78	0.0	0.00			3.0	0.0	0.00	0.0	1.1		2.3	0.0		1.8	0.02	0.0	3.5		0.0	0.0
2 21 78	0.0	0.01			3.5	0.0	0.01	0.0	1.3		2.1	0.0		2.2	0.00	0.0	2.9		0.0	0.0
3 30 78	0.0	0.00			3.3	0.0	0.01	0.0	1.3		2.0	0.0		2.1	0.00	0.0	2.8		0.0	0.0
5 8 78	0.0	0.01			3.2	0.0	0.01	0.0	1.2		1.8	0.0		1.7	0.01	0.0	2.6		0.0	0.0
6 20 78	0.0	0.00			4.2	0.0	0.02	0.0	1.6		2.4	0.0		2.1	0.00	0.0	4.5		0.0	0.0
7 19 78	0.0	0.00			4.2	0.0	0.00	0.0	1.8		2.4	0.0		2.1	0.00	0.0	4.5		0.0	0.0
8 16 78	0.0	0.00			4.5	0.0	0.00	0.0	1.8		2.6	0.0		2.4	0.00	0.0	4.9		0.0	0.0
9 19 78	0.0	0.00			4.3	0.0	0.01	0.0	1.7		2.4	0.0		2.4	0.01	0.0	4.2		0.0	0.0
10 20 78	0.0	0.00			4.3	0.0	0.01	0.0	1.2		2.4	0.0		2.0	0.00	0.0	3.6		0.0	0.0
11 27 78	0.0	0.00			4.4	0.0	0.01	0.0	1.5		2.5	0.0		2.1	0.01	0.0	3.8		0.0	0.0
12 14 78	0.0	0.00			3.7	0.0	0.01	0.0	1.2		2.0	0.0		2.6	0.01	0.0	3.4		0.0	0.1
1 2 79	0.1	0.00			3.6	0.0	0.01	0.1	1.2		2.0	0.0		2.3	0.00	0.0	3.5		0.0	0.0
2 14 79	0.0	0.00			3.1	0.0	0.02	0.0	1.3		2.1	0.0		2.6	0.02	0.0	3.3		0.1	0.0
3 14 79	0.0	0.00			2.9	0.0	0.00	0.0	0.9		2.0	0.0		2.1	0.00	0.0	3.1		0.0	0.0
4 13 79	0.0	0.00			3.6	0.0	0.00	0.0	1.3		2.3	0.0		2.6	0.01	0.0	3.6		0.0	0.0
5 3 79	0.0	0.00			3.2	0.0	0.00	0.0	1.0		1.9	0.0		1.3	0.01	0.0	3.6		0.0	0.0
6 18 79	0.0	0.00			4.0	0.0	0.00	0.0	1.1		2.4	0.0		1.5	0.00	0.0	4.1		0.0	0.1
7 17 79	0.0	0.01	0.0	0.00	3.8	0.0	0.00	0.1	1.1	0.02	2.3	0.0	0.0	1.6	0.01	0.0	4.2	0.0	0.1	0.0
8 15 79	0.0				4.4	0.0	0.02	0.1	1.4		2.4	0.0		2.6	0.00	0.0	4.4		0.0	0.0
9 11 79	0.1				4.9	0.0	0.01	0.1	1.5		3.3	0.0		3.3	0.01	0.0	4.4			0.0
10 9 79		0.01			4.0			0.1	1.0		2.3	0.0		1.7	0.01	0.0	3.9		0.0	0.2
11 5 79	0.1				3.4	0.2		0.1	1.3		2.7	0.0		2.3			3.8		1.1	0.1

TABLE 102. WATER QUALITY FOR SITE 9230 RANDOLPH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 15 77	18	0.25			20	170	127	1.47	7.1		26	32	0	1.0	63	0.8					
10 27 77	11	0.7	360		360	169	86	1.89	6.8		25	30	0	1.0	33	1.0					
12 2 77	6	1.5	163*		320	173	93	1.34	7.1	-6	15	18	0	1.0	45	1.5					
9 11 78	21	0.4	37*		25	262	155	1.23	7.3		30	37	0	2.6	80	1.2					
10 25 78	14	0.4	33*		50	418	271	1.31	7.6	-22	30	36	0	6.7	150	1.8					
11 28 78	9	0.8	24		30	283	147	1.16	7.6		23	28	0	3.8	80	0.7					
6 6 79	14	0.6	32		65	266	183	0.92	7.1	-2	12	15	0	2.9	110	2.2					
7 11 79	17	0.4	28*		35	302	179	1.19	7.2	-9	15	18	0	2.1	100	1.7	1.0	0.24	1.50	0.10	0.01
11 6 79	8	2.5			30	275	197	1.04	6.5	3	5	6	0	1.6	130	1.0					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 15 77	0.0	0.02			23	0.0	0.00	0.1	3.1		8.6	1.4		1.9	0.06	0.1	2.6		0.1	0.1
10 27 77	0.0	0.00	0.0	0.00	16	0.0	0.00	0.4	2.5	0.06	5.8	1.1	0.0	1.6	0.03	0.0	2.3	0.0	0.0	0.0
12 2 77	0.1	0.00	0.1	0.00	13	0.1	0.00	0.2	2.5	0.15	7.5	1.6	0.0	1.0	0.07	0.0	2.2	0.1	0.0	0.0
9 11 78	0.1	0.01			22	0.0	0.01	0.7	4.5		10	2.0		2.6	0.06	0.1	3.1		0.1	0.1
10 25 78	0.1	0.01	0.1	0.00	40	0.1	0.00	1.7	4.9	0.20	16	3.3	0.0	19	0.09	0.1	3.3	0.1	0.1	0.1
11 28 78	0.1	0.00			21	0.1	0.01	0.3	4.0		10	1.9		2.5	0.11	0.0	2.6		0.1	0.1
6 6 79	0.0	0.01			23	0.1	0.01	0.4	4.2		11	2.3		4.8	0.11	0.0	2.7		0.0	0.2
7 11 79	0.0	0.00	0.2	0.00	23	0.1	0.01	0.3	4.0	0.20	17	2.7	0.0	2.5	0.13	0.0	3.2	0.1	0.0	0.5
11 6 79	0.1	0.01			23	0.1	0.03	0.8	4.0		19	3.0		2.9	0.15	0.0	3.0		0.1	0.2

TABLE 103. WATER QUALITY FOR SITE 9231 RANDOLPH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 27 77	11	1.0	0		0	34	20	1.01	5.0		0	0	0	0.7	9	0.4					
12 2 77	5	1.0	26*		4	30	22	0.66	5.0		0	0	0	0.6	9	1.1					
3 21 78	4	3			8	28	22	1.26	5.5		0	0	0	0.5	7	0.9					
4 13 78	10	0.4	44*		10	27	16	2.73	5.4		0	0	0	0.4	7						
5 9 78	12	0.4	23*		2	26	20	0.67	5.4		0	0	0	0.8	9	0.7					
6 8 78	14	1.5			0	27	23	1.02	5.9		1	1	0	0.1	6	1.6					
7 10 78	18	1.5	23*		4	24	21	1.03	6.0		1	1	0	0.2	9	0.4					
8 2 78	17	0.5	36*		0	25	20	0.80	6.1		1	1	0	1.4	8	0.5					
11 28 78	9	0.8	5		1	32	22	0.85	5.0		0	0	0	0.8	9	0.8					
1 16 79	2	1.5	27		1	24	22	0.87	4.8	3	0	0	0	0.5	9	0.8					
2 16 79	1	4	7		1	29	20	0.91	4.7	5	0	0	0	0.4	9	0.7					
3 12 79	1	0.4	9		0	25	17	0.74	4.8	5	0	0	0	0.8	7	0.7					
4 27 79	8	1.5	8	0.00	1	25	17	1.04	5.0	5	0	0	0	0.5	7	0.5					
6 6 79	14	0.3	7		0	23	21	0.81	5.9	7	1	1	0	0.7	10	0.4					
7 11 79	18	0.4	8		10	23	21	1.04	5.9	5	0	0	0	0.5	10	0.3	0.1	0.00	0.60	0.10	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 27 77	0.1	0.00	0.0	0.00	2.8	0.0	0.00	0.0	0.4	0.02	0.8	0.0	0.0	0.7	0.00	0.0	1.7	0.0	0.0	0.0
12 2 77	0.3	0.00	0.0	0.00	2.2	0.0	0.00	0.0	0.4	0.06	1.0	0.0	0.0	0.5	0.01	0.0	1.5	0.0	0.0	0.0
3 21 78	0.3	0.00			2.6	0.0	0.00	0.1	0.6		1.0	0.0		0.8	0.00	0.0	2.2		0.0	0.0
4 13 78	0.2	0.00	0.0	0.00	2.7	0.0	0.00	0.0	0.5	0.02	1.0	0.0	0.0	0.9	0.00	0.0	1.4	0.0	0.0	0.0
5 9 78	0.1	0.01			2.4	0.0	0.00	0.0	0.4		0.7	0.0		0.4	0.00	0.0	1.2		0.0	0.1
6 8 78	0.2	0.00			2.5	0.0	0.00	0.0	0.8		1.1	0.0		0.5	0.04	0.0	1.8		0.1	0.0
7 10 78	0.1	0.00	0.0	0.00	2.7	0.0	0.00	0.0	0.4	0.01	0.9	0.0	0.0	0.4	0.00	0.1	1.8	0.0	0.1	0.0
8 2 78	0.1	0.00			2.6	0.0	0.00	0.0	0.4		0.6	0.0		0.4	0.01	0.0	1.8		0.0	0.0
11 28 78	0.3	0.00			2.9	0.0	0.00	0.0	0.5		0.8	0.1		0.5	0.00	0.0	1.6		0.0	0.0
1 16 79	0.2	0.00	0.0	0.00	2.6	0.0	0.00	0.0	0.5	0.02	0.9	0.0	0.0	0.5	0.02	0.0	1.6	0.0	0.1	0.0
2 16 79	0.4	0.00			2.9	0.0	0.00	0.0	0.3		0.9	0.1		0.3	0.01	0.0	1.1		0.1	0.0
3 12 79	0.2	0.00			2.1	0.0	0.00	0.0	0.4		0.6	0.0		0.4	0.00	0.0	1.2		0.0	0.0
4 27 79	0.2	0.00	0.0	0.00	2.4	0.0	0.00	0.0	0.4	0.03	0.7	0.0	0.0	0.4	0.00	0.0	1.4	0.0	0.0	0.0
6 6 79	0.1	0.00			2.5	0.0	0.00	0.0	0.4		0.7	0.0		0.4	0.00	0.0	1.6		0.0	0.1
7 11 79	0.1	0.00	0.1	0.00	2.8	0.0	0.00	0.0	0.3	0.05	1.0	0.0	0.0	0.4	0.00	0.0	1.6	0.0	0.0	0.4

TABLE 104. WATER QUALITY FOR SITE 9233 RANDOLPH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L				MILLIGRAMS PER LITER										
1 12 78	4	0.2			0	73	42	1.43	6.9		10	12	0	0.7	17	0.9					
2 15 78	4	0.06			0	82	44	1.89	7.3		11	14	0	0.8	15	0.4					
3 21 78	6	0.3			20	40	29	1.58	5.9		4	5	0	0.4	9	1.1					
4 13 78	10	0.1	23		0	63	37	1.86	7.0		8	10	0	0.6	14	0.7					
5 9 78	11	0.15	43*		25	52	30	1.17	6.6		11	13	0	0.8	10	0.8					
6 8 78	14	1.0			45	36	29	1.34	6.8		4	5	0	0.1	8	1.8					
7 10 78	17	0.1	60*		20	192	114	1.12	6.9		8	10	0	0.7	60	2.5					
8 2 78	18	0.5	79*		95	194	112	1.01	7.0		9	11	0	0.4	50	5.2					
1 16 79	4	0.25	6		3	180	105	1.05	6.4	-2	5	6	0	2.4	58	1.8					
2 16 79	4	0.9	67		65	157	89	1.07	6.1	-2	3	4	0	1.5	49	1.9					
3 12 79	4	0.25	20		15	175	94	1.19	6.8	1	6	7	0	1.7	50	1.6					
4 27 79	9	0.5	23	0.00	25	43	28	1.67	6.5	-2	5	6	0	0.9	10	0.6					
11 6 79	7	0.04	6		10	27	22	1.36	6.4		5	6	0	0.4	8	0.3					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
1 12 78	0.0	0.00			4.9	0.0	0.00	0.2	1.3		3.6	0.1		0.5	0.00	0.0	1.6		0.0	0.0
2 15 78	0.0	0.00			5.2	0.0	0.00	0.5	1.6		3.8	0.4		0.8	0.00	0.0	3.3		0.0	0.0
3 21 78	0.1	0.00			3.0	0.0	0.00	0.2	1.3		2.1	0.0		0.7	0.01	0.0	2.1		0.0	0.0
4 13 78	0.0	0.00	0.0	0.00	4.6	0.0	0.00	0.2	1.6	0.03	3.4	0.3	0.0	0.8	0.00	0.0	1.9	0.0	0.0	0.0
5 9 78	0.0	0.01			2.8	0.0	0.00	0.1	1.0		1.8	0.0		0.3	0.00	0.0	1.4		0.0	0.0
6 8 78	0.1	0.00			2.7	0.0	0.00	0.1	1.4		2.0	0.0		0.4	0.04	0.0	1.6		0.1	0.0
7 10 78	0.1	0.01	0.1	0.00	13	0.1	0.00	0.2	3.8	0.06	9.3	1.7	0.0	1.4	0.12	0.2	3.2	0.0	0.3	0.2
8 2 78	0.0	0.01			13	0.0	0.01	0.1	4.1		7.3	1.3		1.4	0.08	0.0	2.7		0.0	0.1
1 16 79	0.1	0.00	0.0	0.00	13	0.1	0.01	0.3	2.6	0.08	7.4	1.5	0.0	3.0	0.10	0.1	2.5	0.0	0.1	0.2
2 16 79	0.1	0.00			12	0.1	0.03	0.1	3.0		6.5	1.5		1.1	0.11	0.0	1.7		0.0	0.2
3 12 79	0.0	0.00			13	0.1	0.02	0.2	2.8		7.3	1.5		2.1	0.09	0.0	2.2		0.0	0.1
4 27 79	0.0	0.00	0.0	0.00	3.7	0.0	0.00	0.2	1.3	0.01	2.4	0.1	0.0	0.3	0.03	0.0	1.6	0.0	0.0	0.0
11 6 79	0.0	0.00			2.2	0.0	0.00	0.5	0.9		1.5	0.4		0.2	0.01	0.0	1.8		0.0	0.0

TABLE 105. WATER QUALITY FOR SITE 9236 RANDOLPH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 15 77	21	0.4			0	114	57	4.63	7.6		36	44	0	0.8	10	0.4					
10 27 77	11	2.0	15		10	74	40	2.96	6.7		16	19	0	0.7	10	0.5					
12 2 77	5	1.5	17*		15	50	37	1.68	7.3		10	12	0	1.8	10	1.2					
1 12 78	0	1.0			0	55	33	1.87	7.0		12	15	0	0.6	10	0.7					
2 15 78	1	3			0	69	43	2.61	7.4		17	21	0	0.7	9	0.9					
3 21 78	8	4			45	45	33	2.12	7.0		7	9	0	0.5	8	1.2					
4 13 78	13	0.4	31		0	59	35	3.17	7.0		15	18	0	0.6	7	0.8					
5 9 78	14	0.7	16*		15	39	36	1.75	6.7		11	14	0	0.9	11	0.9					
6 8 78	16	3			90	64	44	2.99	7.3		17	21	0	0.3	8	1.8					
7 10 78	18	4	55*		45	60	44	2.32	7.2		16	20	0	0.7	12	0.6					
8 2 78	17	0.7	51*		50	64	40	2.76	7.4		17	21	0	0.5	10	0.3					
11 28 78	11	1.5	5		7	69	45	1.21	7.4		10	12	0	2.9	11	2.4					
1 16 79	2	1.0	2		3	48	39	1.53	6.3		8	10	0	0.5	14	1.0					
2 16 79	2	3	52		15	43	27	1.60	6.7		2	3	0	0.3	10	1.0					
3 12 79	4	1.0	7		3	47	31	1.83	6.8	-6	7	8	0	0.8	10	0.8					
4 27 79	10	6	20		35	62	37	1.68	7.1	-5	10	12	0	0.4	14	0.7					
6 6 79	14	0.5	27		30	56	39	2.42	7.3	-6	14	17	0	0.8	10	0.7					
7 11 79	17	0.6	33*		20	67	42	2.20	7.3	-14	19	23	0	1.0	11	0.7	0.2	0.00	1.50	0.15	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 15 77	0.0	0.00			14	0.0	0.00	0.0	0.8		2.5	0.0		2.0	0.00	0.0	1.6		0.0	0.0
10 27 77	0.0	0.01	0.0	0.00	8.8	0.0	0.00	0.0	0.9	0.04	1.5	0.0	0.0	1.7	0.01	0.0	2.4	0.0	0.0	0.0
12 2 77	0.0	0.00	0.0	0.00	5.8	0.0	0.00	0.0	0.7	0.09	1.5	0.0	0.0	1.2	0.01	0.0	2.0	0.0	0.0	0.0
1 12 78	0.0	0.00			5.6	0.0	0.00	0.0	0.4		1.5	0.0		0.9	0.00	0.0	1.8		0.0	0.0
2 15 78	0.0	0.00			7.3	0.0	0.00	0.0	0.7		1.7	0.0		1.7	0.00	0.0	3.1		0.0	0.0
3 21 78	0.1	0.00			5.6	0.0	0.00	0.1	0.7		1.5	0.0		1.0	0.00	0.0	2.5		0.0	0.0
4 13 78	0.0	0.00	0.0	0.00	6.5	0.0	0.00	0.0	0.7	0.10	1.7	0.0	0.0	1.4	0.00	0.0	2.2	0.2	0.0	0.0
5 9 78	0.0	0.01			6.2	0.0	0.00	0.0	0.6		1.4	0.0		1.1	0.00	0.0	1.8		0.0	0.0
6 8 78	0.1	0.00			7.9	0.0	0.00	0.1	1.2		2.0	0.0		1.4	0.04	0.0	2.2		0.1	0.0
7 10 78	0.1	0.01	0.0	0.00	8.1	0.0	0.00	0.2	0.9	0.03	1.9	0.0	0.0	1.3	0.04	0.1	2.5	0.0	0.3	0.0
8 2 78	0.1	0.01			8.4	0.0	0.00	0.5	0.8		1.6	0.0		1.1	0.00	0.0	2.4		0.0	0.0
11 28 78	0.0	0.00			7.2	0.0	0.00	0.0	0.6		1.4	0.0		0.8	0.00	0.0	1.8		0.0	0.0
1 16 79	0.1	0.00	0.0	0.00	7.0	0.0	0.01	0.0	0.8	0.08	1.4	0.0	0.0	1.3	0.01	0.0	2.1	0.0	0.0	0.0
2 16 79	0.0	0.00			5.3	0.0	0.00	0.0	0.6		1.0	0.0		0.8	0.00	0.0	1.6		0.0	0.0
3 12 79	0.0	0.00			5.7	0.0	0.00	0.0	0.6		1.4	0.0		1.0	0.00	0.0	1.7		0.0	0.0
4 27 79	0.0	0.00	0.0	0.00	7.3	0.0	0.01	0.0	0.6	0.02	1.4	0.0	0.0	1.0	0.00	0.0	1.8	0.0	0.0	0.0
6 6 79	0.0	0.00			7.8	0.0	0.00	0.0	0.7		1.6	0.0		1.2	0.00	0.0	2.3		0.0	0.1
7 11 79	0.0	0.00	0.0	0.00	8.3	0.0	0.00	0.0	0.7	0.05	1.2	0.0	0.0	1.1	0.00	0.0	1.7	0.0	0.0	0.1

TABLE 106. WATER QUALITY FOR SITE 9239 RANDOLPH COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
9 15 77	18	0.06			4	110	62	1.55	6.8		11	13	0	0.7	30	0.6					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
9 15 77	0.0	0.00			11	0.0	0.00	0.0	1.3		4.3	0.0		1.8	0.00	0.0	2.0		0.0	0.0

TABLE 107. WATER QUALITY FOR SITE 9241 TAYLOR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
11 29 77	6	0.7	12		8	46	33	1.73	6.0		8	10	0	0.0	12	0.4					
12 29 77	0	0.4			8	62	33	1.82	7.1		7	9	0	0.7	12	0.1					
2 7 78	0	0.3			0	54	31	1.66	6.6		6	7	0	0.7	13	0.1					
3 15 78	4	4			15	46	28	1.54	6.8		3	4	0	0.7	12	0.2					
4 11 78	14	0.2	5		15	49	30	1.73	7.0		7	8	0	0.7	12	0.1					
5 2 78	12	0.15	26*		5	51	36	1.31	7.0		7	9	0	1.0	15	0.3					
6 7 78	17	0.4				57	38	2.40	7.2		11	14	0	0.3	11	0.3					
7 6 78	18	0.7	39*		4	47	36	1.53	6.9		6	7	0	0.7	14	0.1					
7 25 78	20	0.2	44*		8	61	40	2.13	7.1		11	14	0	0.6	13	0.0					
9 8 78	22	0.01	62*		15	72	43	1.76	7.1		9	11	0	1.2	16	0.3					
10 23 78	14	0.02	64*		4	84	51	2.07	7.4	-16	17	21	0	0.9	17	0.2					
12 5 78	12	0.8	10		5	45	32	1.12	7.3		3	4	0	0.6	15	0.2					
1 12 79	2	0.4	12		1	42	31	1.44	6.8	0	5	6	0	0.6	14	0.1					
2 6 79	0	0.02	9		0	50	31	1.84	6.6	-2	4	5	0	0.7	13	0.1					
3 10 79	6	0.2	5		2	45	31	1.27	6.5	0	5	6	0	0.4	14	0.1					
4 17 79	9	0.15	3	0.00	0	47	34	1.73	6.8		7	8	0	0.6	13	0.1					
6 1 79	10	0.15	2		0	50	33	1.39	6.4	-4	7	8	0	0.8	14	0.1					
7 9 79	16	0.03	10		7	67	42	1.50	7.1	-6	13	16	0	1.0	16	0.4	0.2	0.00	0.20	0.00	0.01
10 24 79	9	0.15	0		5	58	37	2.09	7.2	-5	11	13	0	0.8	13	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
11 29 77	0.1	0.00			4.8	0.0	0.00	0.0	1.0		1.9	0.0		1.0	0.01	0.0	2.6		0.0	0.0
12 29 77	0.0	0.00	0.0	0.00	4.8	0.0	0.00	0.1	0.9	0.06	2.0	0.0	0.0	1.2	0.01	0.0	2.7	0.0	0.2	0.0
2 7 78	0.0	0.03			5.2	0.0	0.00	0.1	0.8		1.6	0.0		1.1	0.00	0.0	2.4		0.1	0.0
3 15 78	0.0	0.02			4.8	0.0	0.08	0.0	0.5		1.7	0.1		0.9	0.00	0.0	2.0		0.2	0.0
4 11 78	0.0	0.00	0.0	0.00	4.6	0.0	0.00	0.0	0.5	0.01	2.0	0.0	0.0	1.1	0.00	0.0	2.4	0.0	0.0	0.0
5 2 78	0.0	0.01			5.0	0.0	0.00	0.0	0.9		1.8	0.0		0.9	0.01	0.0	2.5		0.1	0.0
6 7 78	0.0	0.00			6.2	0.0	0.00	0.0	1.6		2.3	0.0		1.3	0.04	0.0	3.0		0.1	0.0
7 6 78	0.0	0.02			5.2	0.1	0.00	0.1	1.2		1.9	0.0		0.8	0.05	0.1	3.3		0.4	0.0
7 25 78	0.0	0.01	0.0	0.00	7.2	0.0	0.00	0.0	1.3	0.15	2.0	0.0	0.1	1.0	0.01	0.0	3.4	0.0	0.0	0.0
9 8 78	0.0	0.01			7.5	0.0	0.00	0.0	1.3		2.2	0.0		1.2	0.00	0.0	3.3		0.0	0.0
10 23 78	0.0	0.01	0.1	0.00	9.2	0.0	0.00	0.0	1.3	0.09	2.6	0.0	0.0	1.8	0.01	0.0	2.8	0.0	0.0	0.0
12 5 78	0.0	0.00			4.3	0.0	0.00	0.0	1.0		1.3	0.0		0.8	0.02	0.0	2.8		0.0	0.0
1 12 79	0.0	0.00	0.0	0.00	5.1	0.0	0.00	0.0	0.8	0.03	1.4	0.0	0.0	0.9	0.00	0.0	2.3	0.0	0.0	0.0
2 6 79	0.0	0.00			6.0	0.0	0.00	0.0	0.8		1.8	0.0		0.9	0.00	0.0	2.4		0.0	0.0
3 10 79	0.1	0.00	0.0	0.00	4.8	0.0	0.01	0.1	0.8	0.15	1.3	0.0	0.0	0.8	0.00	0.0	2.1	0.0	0.0	0.0
4 17 79	0.0	0.00	0.0	0.00	5.5	0.0	0.01	0.0	1.0	0.06	1.9	0.0	0.0	0.9	0.03	0.0	2.6	0.0	0.1	0.0
6 1 79	0.0	0.00			4.9	0.0	0.01	0.0	1.0		1.4	0.0		0.8	0.00	0.0	2.8		0.0	0.0
7 9 79	0.0	0.00	0.0	0.00	6.8	0.0	0.00	0.0	1.1	0.09	1.6	0.0	0.0	0.9	0.00	0.0	2.4	0.0	0.0	0.0
10 24 79	0.1	0.00			6.6	0.0	0.00	0.0	1.4		2.0	0.0		1.0	0.01	0.0	2.7		0.0	0.0

TABLE 108. WATER QUALITY FOR SITE 9243 TAYLOR COUNTY, WEST VIRGINIA

WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
18	0.01			65	1080	761	1.32	7.6		143	173	1	1.6	450	0.1					
9	0.025	4		10	1920	1500	0.87	7.6		22	27	0		1100	0.1					
7	0.02	55		8	1810	1560	1.04	7.6		15	18	0	3.1	1100	3.1					
1	0.1			0	1080	878	1.05	7.7		22	27	0	1.9	600	1.2					
1	0.3	0		0	1800	1500	1.04	7.6		29	35	0	1.8	1000	1.7					
4	0.4			40	605	413	1.25	7.8		20	24	0	1.5	260	1.5					
16	0.15	4		15	1730	1440	0.99	7.2		44	54	0	2.0	1000	0.5					
13	0.2	31*		6	1650			7.8					1.9	910	0.7					
23	0.4			10	1920	1670	0.95	7.8		46	55	0	1.3	1200	0.8					
27	0.4	71*		4	1100	894	0.95	7.6		25	31	0	1.7	630	0.3					
24	0.4	90*		70	1380	1080	1.03	8.0		50	60	0	0.8	740	0.4					
23	0.04	105*		15	1850	1550	0.94	7.9		79	95	1	1.3	1100	0.1					
18	0.03	46*		10	2150	1740	0.94	7.9	-51	57	68	0	3.6	1200	0.1					
12	0.05	9		5	1390			7.3					2.4	690	0.1					
3	0.4	8		55	1310	1050	1.16	7.5	-32	34	42	0	2.2	690	0.8					
2	0.04	13		45	1970	1520	0.96	8.0	-50	57	68	1	2.6	1100	0.4					
9	0.4	29		25	1590	1190	1.27	8.0	-61	68	82	1	2.1	770	0.7					
10	0.1	28	0.00	20	2020	1790	1.11	7.7	-51	63	76	0	2.0	1200	0.3					
21	0.02	19		9	1560	1290	0.89	7.8	-42	52	62	0	0.7	920	0.0					
20	0.007	27*		9	1810	1340	0.79	8.3	-46	59	70	1	0.5	980	0.1	0.0	0.03	0.60	0.20	0.02
15	0.1	28		65	1700	1250	0.99	7.8	-38	45	54	0	1.9	870	0.5					

ed Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
								MILLIGRAMS PER LITER											
0.3	0.00			160	0.0	0.00	0.5	3.2		50	0.9		5.0	0.01	0.0	1.5		0.0	0.1
0.3	0.01	0.0	0.00	200	0.0	0.00	0.6	3.8	0.55	51	1.8	0.0	130	0.01	0.1	3.0	1.6	0.1	0.0
0.3	0.09			210	0.0	0.01	0.4	6.4		62	3.1		170	0.04	0.1	3.9		0.1	0.0
0.3	0.04	0.0	0.00	170	0.0	0.01	2.1	4.4	0.80	48	3.0	0.0	19	0.07	0.2	6.2	1.0	0.1	0.1
0.3	0.11			270	0.1	0.01	3.8	4.8		83	5.9		54	0.11	0.1	7.8		0.2	0.1
0.0	0.03			84	0.0	0.00	0.4	3.0		27	1.3		10.0	0.02	0.1	2.8		0.2	0.0
0.3	0.03	0.0	0.00	230	0.1	0.01	0.4	5.3	0.50	83	6.4	0.1	58	0.11	0.1	6.1	1.6	0.0	0.0
0.4	0.05			210	0.1	0.00	0.9	4.8		72	3.8		44	0.12	0.1	5.9		0.2	0.1
0.3	0.06			270	0.1	0.01	0.2	5.9		88	3.8		62	0.09	0.1	6.9		0.3	0.0
0.2	0.05			150	0.1	0.01	0.1	5.2		49	2.8		24	0.07	0.2	6.4		0.2	0.0
0.3	0.06	0.0	0.00	190	0.0	0.01	0.1	7.9	0.60	56	2.5	0.0	34	0.06	0.2	5.0	1.2	0.2	0.0
0.3	0.09			200	0.0	0.01	0.8	4.1		61	0.6		140	0.07	0.3	4.0		0.2	0.0
0.4	0.10			230	0.0	0.01	1.5	4.4		66	0.8		170	0.05	0.2	3.3		0.1	0.0
0.5	0.05			170	0.0	0.00	0.4	3.0		46	1.4		72	0.05	0.2	4.7		0.2	0.0
0.4	0.00	0.0	0.00	210	0.0	0.02	3.4	4.4	1.5	56	3.2	0.0	34	0.07	0.2	5.5	1.2	0.1	0.1
0.7	0.06	0.0	0.00	250	0.1	0.01	2.9	4.1	2.0	93	4.7	0.0	35	0.15	0.4	6.2	2.7	0.6	0.1
0.6	0.04			250	0.0	0.01	0.4	4.2		75	3.8		32	0.13	0.3	5.0		0.3	0.1
0.4	0.05	0.0	0.00	370	0.0	0.01	0.3	5.0	2.0	94	4.4	0.1	41	0.10	0.2	5.2	1.8	0.3	0.1
0.2	0.06			170	0.0	0.00	0.3	2.1		42	0.3		110	0.02	0.1	3.4		0.1	0.1
0.2	0.10	0.0	0.00	160	0.0	0.00	0.6	3.0	1.0	55	0.6	0.0	89	0.05	0.2	4.4	1.4	0.3	0.0
0.2	0.06			220	0.0	0.00	0.1	5.0		66	3.3		32	0.07	0.2	5.2		0.3	0.0

TABLE 109. WATER QUALITY FOR SITE 9244 TAYLOR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 24 79	9	0.2			20	63	33	1.02	7.2		16	19	0	0.9	10	0.4					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 24 79	0.0	0.01			3.0	0.1	0.00	0.2	0.8		1.0	0.0		0.4	0.06	0.4	1.4		1.1	0.0

TABLE 110. WATER QUALITY FOR SITE 9246 TAYLOR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 14 77	21	0.15			40	2190	1990	1.00	6.8		43	52	0	2.1	1400	0.1					
10 20 77	10	0.1	11		10	1480	1040	0.98	7.0		33	40	0	1.9	730	0.4					
11 18 77	7	0.3	37		30	1780	1230	1.29	7.3		33	40	0	1.3	790	0.4					
1 11 78	4	0.3			0	1530	1170	0.95	7.9		64	77	0	1.6	810	0.2					
2 13 78	3	0.25			0	974	726	1.35	8.1		90	108	1	1.1	430	0.1					
3 15 78	4	0.2			15	883	659	1.13	8.2		43	52	1	1.3	440	0.1					
4 11 78	14	0.05	6		15	1240	939	1.16	7.4		80	97	0	1.4	610	0.1					
5 5 78	14	0.05	23*		7	1360	1010	1.09	7.8		77	93	0	1.6	670	0.1					
6 7 78	20	0.07			0	1280	975	1.25	8.1		82	98	1	0.4	620	0.2					
7 6 78	25	0.06	53*		4	1530	1180	1.07	7.6		33	40	0	0.4	810	0.0					
7 28 78	24	0.04	70*		0	1380	1020	1.09	8.1		62	74	1	1.0	680	0.1					
9 12 78	27	0.9	15		15	1990	1960	0.94	7.3		15	18	0	3.3	1400	0.1					
10 23 78	17	0.05	48*		2	2630	2180	1.01	7.9	-53	57	69	1	4.7	1500	0.1					
12 5 78	12	0.15	10		15	781	541	1.25	7.4	0	12	15	0	1.7	340	1.3					
1 12 79	2	0.05	6		2	975	899	1.04	8.0		80	96	1	1.2	600	0.4					
2 14 79	0	0.01			0	1730	1310	1.02	8.2		108	129	2	1.6	880	0.1					
3 10 79	8	0.07	41		6	1250	1040	1.17	8.3		84	99	2	1.2	670	0.1					
4 17 79	10	0.05	36	0.00	10	1850	1390	1.10	8.1		77	92	1	1.3	920	0.3					
6 5 79	20	0.07	18		15	1850	1580	0.93	7.9		67	81	1	4.8	1100	0.3					
7 3 79	20	0.05	134*		60	2400	2270	0.91	7.3	-29	48	58	0	3.6	1700	1.2	0.0	0.54	2.15	0.25	0.03
10 24 79	13	0.04	12		8	1800	1340	0.99	7.9	-46	58	70	0	14	910	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 14 77	3.7	0.07			370	0.0	0.00	0.1	7.6		89	4.4		81	0.07	0.1	5.4		0.1	0.1
10 20 77	0.2	0.00	0.0	0.00	190	0.0	0.00	0.3	4.0	0.55	46	3.0	0.0	30	0.03	0.1	4.3	1.2	0.0	0.0
11 18 77	0.2	0.05			260	0.0	0.01	0.5	6.9		69	5.6		63	0.06	0.1	4.9		0.2	0.0
1 11 78	0.2	0.04	0.0	0.00	160	0.0	0.00	6.3	3.0	1.0	58	3.0	0.0	76	0.04	0.0	4.5	1.9	0.0	0.1
2 13 78	0.1	0.10			110	0.0	0.00	0.2	3.0		39	0.4		74	0.02	0.0	3.2		0.1	0.0
3 15 78	0.0	0.05			120	0.0	0.00	0.1	2.5		39	1.4		27	0.01	0.0	3.8		0.2	0.0
4 11 78	0.2	0.04	0.0	0.00	130	0.0	0.00	0.3	4.0	0.25	53	1.1	0.1	84	0.02	0.0	3.2	0.8	0.0	0.0
5 5 78	0.3	0.07			150	0.0	0.00	0.4	4.1		52	0.8		80	0.05	0.1	3.4		0.2	0.0
6 7 78	0.2	0.06			150	0.1	0.00	0.3	2.9		55	0.9		92	0.08	0.1	4.0		0.3	0.0
7 6 78	0.2	0.10			170	0.1	0.00	0.5	2.6		62	0.6		100	0.10	0.2	5.0		0.7	0.0
7 28 78	0.3	0.08	0.0	0.00	170	0.0	0.00	0.6	2.3	0.50	50	1.0	0.0	68	0.05	0.2	4.8	1.0	0.2	0.0
9 12 78	0.5	0.08			350	0.0	0.01	0.2	7.6		95	1.6		57	0.10	0.5	4.5		0.4	0.0
10 23 78	0.5	0.08	0.0	0.00	400	0.0	0.00	0.2	6.6	2.0	110	2.4	0.1	68	0.09	0.3	4.2	3.6	0.2	0.0
12 5 78	0.5	0.00			120	0.0	0.01	0.6	3.7		29	1.8		16	0.05	0.1	5.3		0.0	0.1
1 12 79	0.4	0.03	0.0	0.00	150	0.0	0.00	0.2	2.5	0.80	44	0.8	0.0	45	0.04	0.3	3.3	0.6	0.2	0.0
2 14 79	0.6	0.05			180	0.0	0.01	0.4	4.4		54	0.8		110	0.03	0.4	3.4		0.9	0.0
3 10 79	0.4	0.05			170	0.0	0.00	0.2	3.4		48	1.0		91	0.04	0.3	3.4		0.2	0.0
4 17 79	0.3	0.07	0.0	0.01	220	0.0	0.01	0.2	4.2	0.80	60	0.5	0.1	120	0.03	0.2	3.2	1.3	0.2	0.0
6 5 79	0.4	0.05			280	0.0	0.00	0.1	5.3		70	3.7		42	0.08	0.2	4.9		0.2	0.2
7 3 79	0.3	0.09	0.0	0.00	370	0.1	0.00	0.1	7.2	1.5	120	3.1	0.1	63	0.09	0.3	5.0	2.5	0.4	0.0
10 24 79	0.2	0.08			190	0.0	0.00	0.5	5.6		57	1.1		120	0.03	0.2	3.8		0.3	0.0

TABLE 111. WATER QUALITY FOR SITE 9249 TAYLOR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
10 24 79	14	0.2			7	1600	1030	1.23	7.9		105	126	1	1.7	640	0.0					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
10 24 79	0.9	0.08			150	0.0	0.00	0.1	4.8		49	0.0		110	0.04	0.3	3.4		0.6	0.0

TABLE 112. WATER QUALITY FOR SITE 9251 TUCKER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 25 77	16	0.04			30	29	10	0.79	4.5		0	0	0	0.6	4	0.2					
8 26 77	19	0.5			30	26	12	1.08	5.3		0	0	0	0.8	5	0.0					
10 17 77	5	0.3			8	27	17	0.73	4.8		0	0	0	0.8	8	0.1					
12 1 77	7	1.5	9		8	27	17	0.68	4.0		0	0	0	0.5	8	0.3					
12 30 77	0	0.3	0		4	32	17	0.87	4.3		0	0	0	0.6	7	0.3					
2 9 78	1	2.0			4	23	14	0.84	5.0		0	0	0	0.6	5	0.3					
3 15 78	0	0.7			20	33	17	0.64	4.2		0	0	0	0.6	7	0.5					
4 10 78	10	0.3	53*		8	24	16	0.71	4.4		0	0	0	0.8	7	0.3					
5 4 78	8	0.3	34*		10	19	16	0.50	4.4		0	0	0	0.6	8	0.3					
6 2 78	20	0.3			30	20	11	1.04	5.1		0	0	0	0.3	5	0.1					
6 29 78	21	0.4	46*		30	20	17	0.81	4.5		0	0	0	0.5	8	0.1					
7 27 78	21	0.06	72*		45	20	18	0.78	5.2		0	0	0	0.5	8	0.2					
9 7 78	24	0.04	97*		75	22	31	0.85	5.3		0	0	0	0.8	18	0.0					
10 19 78	12	0.1	58*		45	17	16	1.06	5.6	4	0	0	0	1.1	5	0.0					
11 29 78	8	0.8	25		10	29	21	0.60	4.6	9	0	0	0	1.1	10	0.2					
1 11 79	2	0.6	5		3	23	18	0.54	4.4		0	0	0	0.6	8	0.4					
2 8 79	0	0.15	27		1	20	14	0.95	4.9	2	0	0	0	0.6	5	0.2					
3 9 79	4	0.4	21		3	25	15	0.72	4.3	6	0	0	0	0.4	7	0.3					
4 16 79	4	0.4	3	0.00	3	24	17	0.69	4.2		0	0	0	0.5	8	0.2					
7 6 79	19	0.25	38*		15	26	17	0.50	4.5	4	0	0	0	0.7	9	0.1	0.0	0.20	0.70	0.10	0.00
11 7 79	6	0.7	7		8	20	13	0.48	4.7	4	0	0	0	0.7	5	0.2					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 25 77	0.2	0.01			0.3	0.0	0.00	0.0	0.5		0.7	0.2		0.2	0.00	0.0	1.1		0.0	0.1
8 26 77	0.2	0.00			0.9	0.0	0.00	0.3	0.5		0.4	0.1		0.9	0.01	0.0	1.4		0.0	0.0
10 17 77	0.3		0.0	0.00	1.1	0.0	0.00	0.4	0.7	0.02	0.6	0.1	0.0	0.7	0.01	0.0	1.8	0.0	0.0	0.0
12 1 77	0.4	0.00			1.2	0.0	0.01	0.2	0.6		0.6	0.1		0.7	0.01	0.0	1.3		0.0	0.0
12 30 77	0.2	0.00			1.1	0.0	0.01	0.2	0.7		0.6	0.1		1.0	0.01	0.1	1.6		0.1	0.0
2 9 78	0.2	0.01	0.0	0.00	0.8	0.0	0.00	0.2	0.5	0.01	0.7	0.1	0.0	0.6	0.00	0.0	1.7	0.0	0.0	0.0
3 15 78	0.0	0.00			1.6	0.0	0.00	0.2	0.5		0.4	0.2		0.4	0.00	0.0	1.5		0.2	0.0
4 10 78	0.3	0.00	0.0	0.00	1.2	0.0	0.00	0.2	0.5	0.02	0.6	0.1	0.0	0.5	0.00	0.0	1.5	0.0	0.0	0.0
5 4 78	0.2	0.00			1.0	0.0	0.00	0.2	0.4		0.5	0.1		0.4	0.00	0.0	1.6		0.0	0.0
6 2 78	0.2	0.00			1.1	0.0	0.00	0.5	0.4		0.6	0.1		0.4	0.00	0.0	1.1		0.0	0.0
6 29 78	0.2	0.01			1.4	0.0	0.00	0.5	0.7		0.6	0.1		0.4	0.03	0.1	1.6		0.3	0.0
7 27 78	0.2	0.01	0.0	0.00	1.6	0.0	0.00	0.8	0.6	0.05	0.5	0.1	0.0	0.5	0.01	0.0	1.9	0.0	0.0	0.0
9 7 78	0.2	0.04			4.0	0.0	0.00	1.1	0.7		1.2	0.1		0.7	0.02	0.1	1.8		0.1	0.0
10 19 78	0.2	0.01			1.1	0.0	0.01	1.2	0.9		0.4	0.1		0.9	0.01	0.0	2.0		0.0	0.0
11 29 78	0.3	0.00			1.7	0.0	0.01	0.2	0.7		0.6	0.2		0.5	0.00	0.0	1.8		0.0	0.0
1 11 79	0.3	0.00	0.0	0.00	1.2	0.0	0.00	0.1	0.5	0.00	0.5	0.1	0.1	0.4	0.02	0.0	1.9	0.0	0.0	0.0
2 8 79	0.2	0.00			1.2	0.0	0.00	0.1	0.5		0.4	0.1		0.5	0.01	0.0	1.9		0.0	0.0
3 9 79	0.3	0.00	0.0	0.00	1.3	0.0	0.00	0.1	0.6	0.04	0.4	0.1	0.0	0.5	0.01	0.0	1.4	0.0	0.0	0.0
4 16 79	0.2	0.00	0.0	0.00	1.3	0.0	0.00	0.2	0.6	0.07	0.6	0.1	0.0	0.4	0.03	0.0	1.7	0.0	0.0	0.0
7 6 79	0.2	0.00	0.0	0.00	1.2	0.0	0.01	0.3	0.3	0.04	0.6	0.1	0.0	0.2	0.01	0.0	1.4	0.0	0.0	0.0
11 7 79	0.1	0.00			0.7	0.0	0.00	0.1	0.4		0.4	0.1		0.2	0.02	0.0	1.7		0.0	0.0

TABLE 113. WATER QUALITY FOR SITE 9252 TUCKER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 25 77	16	1.5			85	69	28	0.70	4.0		0	0	0	0.7	14	0.4					
8 26 77	16	0.6			30	75	31	0.61	3.9		0	0	0	0.6	14	1.2					
12 1 77	6	0.8	13		25	62	27	0.41	4.1		0	0	0	0.7	12	1.3					
2 9 78	1	0.7			4	57	27	0.39	4.4		0	0	0	0.6	11	1.5					
3 15 78	2	1.5			20	66	27	0.52	4.0		0	0	0	0.7	12	1.5					
4 10 78	8	0.3	45*		15	60	29	0.21	4.0		0	0	0	0.6	10	2.1					
5 4 78	6	0.25	821*		1300	60	29	0.46	4.1		0	0	0	0.9	10	1.7					
6 2 78	14	0.4				53	21	0.95	4.5		0	0	0	0.3	11	0.1					
6 29 78	15	1.5	41*		10	56	42	0.32	4.0		0	0	0	0.4	19	2.4					
7 27 78	16	0.5	70*		10	59	37	0.36	4.3		0	0	0	0.4	12	2.6					
9 8 78	19	0.1	107*		35	73	43	0.32	4.4		0	0	0	1.0	14	3.2					
10 19 78	12	0.15	41*		4	58	38	0.48	4.3	11	0	0	0	0.8	16	1.8					
11 29 78	8	1.0	5		10	94	48	0.39	4.0	17	0	0	0	1.0	18	3.2					
1 11 79	2	0.6	21		4	55	30	0.42	4.0		0	0	0	0.4	13	1.4					
2 8 79	1	0.2	11		7	52	28	0.84	4.2	11	0	0	0	0.4	11	1.1					
3 9 79	4	0.7	6		6	47	22	0.53	4.1	10	0	0	0	0.2	12	0.7					
4 16 79	4	0.5	12	0.00	20	51	29	0.65	4.3		0	0	0	0.6	14	0.8					
7 6 79	18	0.2	68*		20	71	36	0.34	4.3	10	0	0	0	0.7	15	2.3	1.2	0.89	4.20	0.15	0.01
11 6 79	7	0.7			8	57	35	0.49	4.4	15	0	0	0	0.6	17	1.7					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 25 77	0.9	0.02			2.5	0.0	0.01	0.2	0.7		1.0	0.2		0.9	0.02	0.0	2.0		0.0	0.1
8 26 77	0.8	0.00			3.0	0.0	0.00	0.1	0.6		0.8	0.1		1.0	0.02	0.0	1.6		0.0	1.4
12 1 77	1.3	0.00			2.2	0.0	0.00	0.2	0.4		0.8	0.2		0.6	0.01	0.0	1.4		0.0	0.0
2 9 78	1.0	0.02	0.0	0.00	1.7	0.0	0.00	0.3	0.4	0.04	1.0	0.2	0.0	0.8	0.00	0.0	1.5	0.0	0.0	0.0
3 15 78	0.1	0.02			2.8	0.0	0.00	0.2	0.6		0.8	0.2		0.7	0.00	0.0	1.1		0.0	0.1
4 10 78	1.1	0.00	0.0	0.00	2.1	0.0	0.00	0.2	0.4	0.02	0.8	0.2	0.0	0.7	0.01	0.0	1.5	0.0	0.0	0.0
5 4 78	1.0	0.01			2.5	0.0	0.00	0.2	0.8		0.8	0.3		0.7	0.01	0.0	1.6		0.0	0.0
6 2 78	0.8	0.00			2.4	0.0	0.00	0.3	0.4		0.9	0.2		0.7	0.00	0.0	1.5		0.0	0.0
6 29 78	0.9	0.01			3.2	0.1	0.00	0.4	0.7		1.0	0.2		1.0	0.05	0.1	1.9		0.4	0.0
7 27 78	0.6	0.01	0.0	0.00	3.6	0.0	0.00	0.5	0.5	0.06	0.8	0.2	0.0	0.8	0.01	0.0	2.4	0.0	0.1	0.0
9 8 78	0.6	0.00			4.3	0.0	0.00	0.3	0.5		0.9	0.2		1.1	0.02	0.1	2.3		0.1	0.0
10 19 78	0.9	0.00	0.3	0.00	3.6	0.0	0.00	0.4	0.5	0.06	0.9	0.2	0.0	1.0	0.01	0.0	2.4	0.0	0.0	0.1
11 29 78	1.2	0.00			4.8	0.0	0.00	0.2	0.8		1.0	0.3		1.4	0.02	0.0	2.1		0.0	0.1
1 11 79	1.0	0.00	0.0	0.00	2.7	0.0	0.00	0.2	0.4	0.03	0.7	0.2	0.0	0.6	0.01	0.0	1.7	0.0	0.0	0.0
2 8 79	0.9	0.01			3.2	0.0	0.00	0.2	0.5		0.9	0.2		0.9	0.02	0.1	1.9		0.1	0.0
3 9 79	0.8	0.00	0.0	0.00	2.0	0.0	0.00	0.1	0.4	0.15	0.7	0.2	0.0	0.4	0.01	0.0	1.2	0.0	0.0	0.0
4 16 79	0.9	0.00			3.0	0.1	0.02	0.2	0.7		0.8	0.2		0.5	0.06	0.1	1.9		0.1	0.0
7 6 79	0.7	0.00	0.0	0.00	3.7	0.0	0.00	0.2	0.5	0.08	0.6	0.2	0.0	0.9	0.00	0.0	1.4	0.0	0.0	0.1
11 6 79	0.7	0.00			3.6	0.0	0.01	0.1	0.4		1.0	0.2		0.9	0.00	0.0	1.6		0.0	0.0

TABLE 114. WATER QUALITY FOR SITE 9253 TUCKER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
7 25 77	16	0.1			25	104	41	0.58	3.8		0	0	0	0.5	30	0.0					
8 26 77	16	0.25			15	81	38	0.75	3.9		0	0	0	0.5	26	0.0					
10 17 77	7	0.1			4	91	42	0.59	4.2		0	0	0	0.7	28	0.1					
12 1 77	6	0.6	17*		10	58	26	0.68	4.1		0	0	0	0.4	16	0.2					
12 30 77	0	0.1	0		10	77	33	0.72	4.1		0	0	0	0.6	20	0.2					
2 9 78	1	0.4			0	70	32	0.70	4.6		0	0	0	0.6	20	0.3					
3 15 78	1	1.0			4	54	19	0.60	4.1		0	0	0	0.6	12	0.6					
4 10 78	10	0.25	55*		20	60	27	0.70	4.0		0	0	0	0.6	16	0.3					
5 4 78	6	0.6	294*		1100	54	32	1.20	5.8	4	1	1	0	4.1	13	0.4					
6 2 78	16	0.25			8	62	25	0.91	4.4		0	0	0	0.2	15	0.1					
6 29 78	16	0.4	39*		8	56	34	0.57	4.0		0	0	0	0.8	21	0.1					
7 27 78	19	0.07	75*		8	72	37	0.68	4.1		0	0	0	0.9	23	0.2					
9 8 78	20	0.005				53	40	0.62	4.5		0	0	0	1.7	22	0.1					
10 19 78	12	0.04	34*		3	82	44	0.72	4.2	12	0	0	0	0.7	27	0.1					
11 29 78	8	0.9	6		5	57	26	0.49	4.0	15	0	0	0	0.5	17	0.2					
1 11 79	2	0.3	18		45	47	34	0.92	5.5	8	0	0	0	3.1	18	0.2					
2 8 79	0	0.1	28		4	65	40	1.75	6.7	-2	6	7	0	4.3	14	0.2					
3 9 79	4	0.2	16		4	55	20	0.68	4.0	11	0	0	0	0.2	12	0.2					
4 16 79	5	0.1	4	0.00	3	55	28	0.59	4.1		0	0	0	0.5	17	0.1					
7 6 79	18	0.06	26*		10	64	27	0.76	4.3	11	0	0	0	0.2	17	0.0	0.3	0.16	0.65	0.15	0.01
11 6 79	7	0.15			8	35	23	0.70	4.3	13	0	0	0	0.5	13	0.2					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
7 25 77	0.9	0.01			2.6	0.0	0.01	0.4	0.3		2.6	0.7		0.5	0.02	0.0	1.3		0.0	0.1
8 26 77	0.7	0.00			3.0	0.0	0.00	0.6	0.6		2.3	0.6		1.2	0.02	0.0	1.4		0.0	0.1
10 17 77	1.0	0.02	0.0	0.00	2.7	0.0	0.00	0.4	0.7	0.02	2.2	0.6	0.0	0.8	0.02	0.0	1.8	0.0	0.0	0.0
12 1 77	1.0	0.00			2.0	0.0	0.00	0.3	0.4		1.5	0.4		0.4	0.01	0.0	1.3		0.0	0.0
12 30 77	1.0	0.00			2.4	0.1	0.01	0.3	0.4		2.2	0.6		0.6	0.04	0.2	1.6		0.2	0.0
2 9 78	0.8	0.03	0.0	0.00	2.0	0.0	0.00	0.3	0.4	0.06	2.4	0.6	0.0	0.4	0.00	0.0	1.3	0.0	0.0	0.0
3 15 78	0.1	0.00			1.6	0.0	0.00	0.2	0.5		1.2	0.3		0.4	0.00	0.0	0.1		0.0	0.0
4 10 78	1.0	0.00	0.0	0.00	2.0	0.0	0.00	0.2	0.4	0.02	1.6	0.4	0.0	0.6	0.01	0.0	1.4	0.0	0.0	0.0
5 4 78	0.2	0.01			4.5	0.0	0.00	0.1	0.6		1.2	0.2		3.2	0.00	0.0	1.3		0.0	0.0
6 2 78	0.7	0.00			2.3	0.0	0.00	0.2	0.3		1.8	0.4		0.6	0.00	0.0	1.2		0.0	0.0
6 29 78	0.7	0.02			2.2	0.1	0.00	0.4	0.5		1.7	0.4		0.3	0.06	0.1	1.8		0.6	0.0
7 27 78	0.6	0.01	0.0	0.00	2.9	0.0	0.00	0.4	0.4	0.06	2.3	0.6	0.0	0.4	0.02	0.1	2.3	0.0	0.1	0.0
9 8 78	0.6	0.01			2.5	0.0	0.00	4.7	0.3		2.3	0.4		0.4	0.01	0.0	2.2		0.1	0.0
10 19 78	1.0	0.00	0.0	0.00	3.2	0.0	0.01	0.4	0.8	0.05	2.5	0.7	0.0	1.2	0.02	0.0	2.4	0.0	0.0	0.0
11 29 78	0.6	0.00			1.8	0.0	0.00	0.2	0.5		0.9	0.3		0.4	0.00	0.0	1.5		0.0	0.1
1 11 79	0.3	0.00	0.0	0.00	5.0	0.0	0.00	0.2	0.3	0.04	1.1	0.2	0.0	2.2	0.00	0.0	1.3	0.1	0.0	0.0
2 8 79	0.4	0.00			7.2	0.0	0.00	0.4	0.5		1.5	0.2		3.6	0.00	0.0	1.4		0.0	0.0
3 9 79	0.7	0.00	0.0	0.00	1.7	0.0	0.00	0.1	0.3	0.10	0.9	0.3	0.0	0.3	0.01	0.0	1.2	0.0	0.0	0.0
4 16 79	0.9	0.00	0.0	0.00	2.0	0.1	0.02	0.2	0.4	0.09	1.3	0.4	0.0	0.4	0.04	0.1	1.7	0.0	0.1	0.0
7 6 79	0.8	0.00	0.0	0.00	2.1	0.0	0.02	0.3	0.4	0.08	1.6	0.4	0.0	0.5	0.03	0.0	2.0	0.0	0.0	0.0
11 6 79	0.6	0.00			1.8	0.0	0.00	0.2	0.3		1.3	0.3		0.3	0.01	0.0	1.7		0.0	0.0

TABLE 115. WATER QUALITY FOR SITE 9261 UPSHUR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 29 77	31	0.0025			20	324	186	6.12	7.7		136	165	0	1.1	28	0.0					
10 20 77	9	0.008	23		10	205	98	3.82	7.5		66	80	0	0.9	20	0.2					
11 18 77	6	0.002	30		40	222	126	3.94	7.2		72	88	0	1.8	28	0.1					
1 11 78	1	0.02			15	85	55	2.83	7.4		24	29	0	1.3	13	1.1					
3 21 78	14	0.06			15	118	69	3.56	7.0		36	44	0	1.7	15	0.4					
4 13 78	24	0.0000	54*		15	217	119	9.24	8.2		93	112	1	2.5	12	0.1					
5 9 78	18	0.04	34*		25	171	91	5.35	7.4		58	71	0	3.0	14	0.2					
6 7 78	20	0.05	217*		110	252	131	7.19	7.9		76	92	0	24	10	0.7					
7 10 78	22	0.005	42*		20	229	135	11.2	8.2		107	129	1	0.4	12	0.1					
8 3 78	24	0.02	39*		5	211	110	6.13	8.1		75	91	1	1.4	15	0.8					
9 12 78	22	0.003	59*		15	323	203	4.95	8.4		152	179	3	1.4	36	0.0					
10 20 78	13	0.0004	38*		25	313	189	4.79	8.2	-120	123	147	1	2.5	36	0.0					
12 5 78	12	0.04	2		10	129	77	3.72	7.6	-37	39	48	0	2.5	16	0.2					
1 16 79	2	0.03	2		3	167	108	4.47	7.9		58	70	0	1.3	21	0.7					
2 16 79	0	0.4	45		35	76	51	1.86	7.1		11	14	0	2.1	17	1.0					
3 12 79	4	0.03	7		3	153	96	3.72	7.9	-49	56	67	0	1.5	21	0.5					
4 18 79	24	0.01	13	0.01		178	116	4.52	8.3	-80	84	100	1	1.6	21	0.2					
6 5 79	20	0.0009	21		10	276	158	5.82	8.2	-98	116	138	1	1.8	24	0.1					
7 3 79	28	0.0002	40*		25	278	159	4.79	8.2	-100	111	133	1	1.1	29	0.1	0.1	0.08	0.70	0.10	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 29 77	0.1	0.02			41	0.0	0.00	0.0	2.2		9.9	0.0		17	0.00	0.0	2.0		0.0	0.0
10 20 77	0.0	0.00	0.0	0.00	18	0.0	0.00	0.0	1.5	0.08	4.3	0.0	0.0	9.0	0.00	0.0	1.5	0.1	0.0	0.0
11 18 77	0.1	0.00			22	0.0	0.01	0.1	3.8		6.2	0.0		16	0.02	0.0	2.0		0.0	0.0
1 11 78	0.0	0.00	0.0	0.00	8.0	0.0	0.00	0.0	1.2	0.03	2.5	0.1	0.0	5.1	0.00	0.0	2.3	0.0	0.0	0.1
3 21 78	0.0	0.00			11	0.0	0.00	0.1	1.8		3.6	0.0		6.7	0.00	0.0	2.8		0.0	0.0
4 13 78	0.1	0.00	0.0	0.00	22	0.0	0.00	1.0	5.2	0.05	6.7	0.7	0.0	12	0.00	0.0	0.4	0.1	0.0	0.0
5 9 78	0.1	0.01			18	0.0	0.00	0.1	1.7		5.2	0.1		7.9	0.01	0.0	2.3		0.0	0.0
6 7 78	0.1	0.00			22	0.0	0.00	0.4	2.8		6.0	0.5		14	0.00	0.0	0.8		0.0	0.0
7 10 78	0.0	0.02	0.0	0.00	34	0.0	0.00	0.1	2.7	0.10	8.2	0.0	0.0	8.6	0.01	0.0	1.3	0.2	0.1	0.0
8 3 78	0.1	0.02			23	0.0	0.01	0.1	2.4		6.2	0.0		7.1	0.02	0.1	2.9		0.1	0.0
9 12 78	0.2	0.01			45	0.0	0.00	0.1	2.7		11	0.2		12	0.01	0.0	1.3		0.0	0.0
10 20 78	0.2	0.01	0.1	0.00	36	0.0	0.01	0.0	9.0	0.20	8.0	0.3	0.0	21	0.01	0.0	0.9	0.1	0.0	0.0
12 5 78	0.1	0.00			14	0.0	0.01	0.1	2.0		3.6	0.0		6.5	0.02	0.0	3.4		0.0	0.0
1 16 79	0.1	0.00			25	0.0	0.01	0.0	1.4		4.9	0.0		8.9	0.02	0.0	3.5		0.0	0.0
2 16 79	0.1	0.00	0.0	0.00	8.8	0.0	0.01	0.1	1.2	0.08	2.1	0.0	0.0	3.2	0.01	0.0	2.4	0.0	0.0	0.0
3 12 79	0.1	0.00			18	0.0	0.01	0.0	1.3		4.6	0.0		8.7	0.02	0.0	2.6		0.0	0.0
4 18 79	0.2	0.01	0.0	0.00	23	0.0	0.00	0.2	1.5	0.20	5.6	0.1	0.0	9.5	0.00	0.0	0.6	0.1	0.0	0.0
6 5 79	0.1	0.02			40	0.0	0.00	0.2	1.7		7.8	0.4		7.4	0.02	0.0	1.9		0.0	0.1
7 3 79	0.1	0.01	0.1	0.00	35	0.0	0.00	0.3	1.8	0.25	7.8	0.2	0.0	11	0.00	0.0	1.8	0.1	0.0	0.0

TABLE 116. WATER QUALITY FOR SITE 9262 UPSHUR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 29 77	18	0.003			60	309	156	2.34	7.4		67	82	0	3.2	54	0.1					
10 20 77	8	0.08	35		40	196	129	1.54	7.0		46	56	0	2.2	58	0.3					
11 18 77	7	0.06	56		50	340	224	1.41	7.9		54	65	0	2.1	120	0.5					
1 11 78	0	0.015			55	216	131	1.70	7.6		37	45	0	0.4	58	0.5					
2 13 78	1	0.0000			0	760	552	1.15	7.7		38	46	0	2.0	360	0.1					
3 21 78	10	0.025			8	384	246	1.32	7.1		31	38	0	1.1	150	0.4					
4 13 78	17	0.2	68*		30	573	384	1.46	8.1		72	87	1	1.9	210	0.5					
5 9 78	16	0.1	73*		65	497	288	1.22	7.8		41	50	0	1.1	170	0.3					
6 7 78	21	0.04			25	688	435	1.34	8.1		87	104	1	2.6	250	0.7					
7 10 78	25	0.4	63*		45	395	259	1.59	7.9		53	64	0	1.2	140	0.1					
8 3 78	22	0.07	83*		30	524	338	1.37	8.0		55	66	0	2.2	190	0.2					
9 12 78	24	0.007	66*		15	711	485	1.21	7.9		88	106	1	1.6	290	0.3					
10 20 78	17	0.06	38*		15	833	594	1.38	8.1		106	127	1	1.5	340	0.1					
12 5 78	12	0.07	66		150	498	324	1.64	7.7		58	71	0	1.6	170	0.6					
1 16 79	4	0.08	67		6	847	651	1.67	8.4		122	144	3	1.4	350						
2 16 79	2	0.09	113		220	216	132	1.16	7.2	-10	15	18	0	1.3	77	0.7					
3 12 79	0	0.06	33		9	812	620	1.56	8.4		119	140	3	1.3	330	1.7					
4 18 79	11	0.02	20	0.00	10	772	603	1.35	8.1	-70	80	96	1	1.0	360	0.7					
6 5 79	19	0.02	21		10	600	400	1.34	7.9	-74	82	99	1	1.2	230	0.4					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 29 77	0.1	0.01			36	0.0	0.00	0.3	3.7		6.4	0.2		7.2	0.01	0.0	1.4		0.0	0.0
10 20 77	0.1	0.00	0.0	0.00	24	0.0	0.00	0.2	2.0	0.10	4.6	0.2	0.0	7.7	0.00	0.0	0.5	0.1	0.0	0.0
11 18 77	0.1	0.00			39	0.0	0.01	0.1	3.6		8.6	0.2		18	0.02	0.0	0.7		0.0	0.0
1 11 78	0.5	0.00	0.1	0.00	26	0.0	0.00	1.4	2.7	0.09	6.2	0.7	0.0	5.9	0.01	0.0	2.1	0.1	0.0	0.0
2 13 78	0.2	0.01			110	0.0	0.00	1.8	2.0		35	9.0		4.6	0.04	0.0	2.3		0.0	0.1
3 21 78	0.1	0.00			50	0.0	0.00	0.3	1.6		17	2.0		3.1	0.03	0.0	2.4		0.0	0.0
4 13 78	0.1	0.01	0.1	0.00	75	0.0	0.00	0.1	2.9	0.15	22	1.0	0.0	20	0.02	0.0	1.3	0.4	0.0	0.0
5 9 78	0.2	0.02			55	0.1	0.01	0.1	2.2		13	0.6		14	0.03	0.1	0.6		0.2	0.0
6 7 78	0.1	0.02			79	0.0	0.00	0.2	3.1		25	1.3		21	0.01	0.0	0.9		0.1	0.0
7 10 78	0.1	0.02	0.0	0.00	52	0.0	0.00	0.1	2.8	0.20	17	0.4	0.0	12	0.01	0.0	1.1	0.2	0.0	0.0
8 3 78	0.2	0.04			66	0.0	0.01	0.3	4.0		17	0.4		17	0.03	0.1	1.4		0.2	0.0
9 12 78	0.1	0.04			87	0.0	0.00	0.1	4.3		23	0.1		23	0.02	0.1	1.0		0.0	0.0
10 20 78	0.2	0.06	0.0	0.00	100	0.0	0.01	0.1	4.5	0.45	28	0.1	0.0	49	0.03	0.1	0.5	0.7	0.1	0.0
12 5 78	0.2	0.00			59	0.1	0.03	0.1	4.5		14	0.5		36	0.06	0.1	1.8		0.1	0.1
1 16 79	0.2	0.04			140	0.1	0.01	0.3	4.0		36	1.8		42	0.07	0.3	2.2		0.2	0.0
2 16 79	0.3	0.01			22	0.0	0.01	0.1	1.9		6.2	0.7		6.4	0.04	0.1	1.5		0.1	0.0
3 12 79	0.2	0.03			120	0.0	0.00	0.2	3.2		31	1.1		54	0.04	0.0	1.8		0.1	0.0
4 18 79	0.2	0.02	0.2	0.00	110	0.0	0.01	0.5	3.0	0.50	34	2.1	0.0	37	0.04	0.1	1.5	0.5	0.1	0.0
6 5 79	0.1	0.02			68	0.1	0.04	0.3	3.7		21	0.4		25	0.00	0.0	0.8		0.1	0.0

TABLE 117. WATER QUALITY FOR SITE 9263 UPSHUR COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 29 77	21	0.15			20	986	747	0.84	3.9		0	0	0	1.6	540	0.0					
10 20 77	9	0.1	16		20	822	579	0.89	4.9		0	0	0	0.9	420	0.0					
11 18 77	6	0.07	28		4	812	698	1.00	3.5		0	0	0	1.7	490	0.1					
1 11 78	0	0.07			0	814	659	0.95	4.4		0	0	0	1.6	460	0.0					
2 13 78	4	0.4			0	975	715	0.83	4.1		0	0	0	1.6	530	0.1					
3 21 78	12	0.1			8	848	529	1.02	4.1		0	0	0	1.4	380	0.1					
4 13 78	15	0.1	58*		0	940	704	0.93	3.9		0	0	0	1.4	500	0.1					
5 9 78	15	0.1	41*		9	762	503	0.88	4.4		0	0	0	1.1	370	0.1					
6 7 78	17	0.06			0	911	656	0.87	4.2		0	0	0	0.9	480	0.2					
7 10 78	20	0.25	37*		4	880	639	1.00	3.6		0	0	0	2.2	450	0.0					
8 3 78	18	0.1	72*		4	799	573	0.93	4.0		0	0	0	1.0	410	0.3					
9 12 78	20	0.08	22*		15	881	562	1.04	4.5		0	0	0	2.5	390	0.1					
10 20 78	13	0.05	21*		0	946	721	0.89	4.0	30	0	0	0	3.2	520	0.0					
12 5 78	11	0.06	4			718	482	1.12	3.9	30	0	0	0	2.8	320	0.2					
1 16 79	6	0.09	6		10	727	615	1.21	5.5	7	0	0	0	1.4	410	0.1					
2 16 79	2	0.15	36		25	390	286	1.05	6.7	2	6	7	0	0.9	190	0.6					
3 12 79	5	0.07	16		10	701	539	1.16	7.1	-3	8	10	0	1.1	370	0.2					
4 18 79	10	0.15	7	0.00	35	767	610	1.05	5.9	5	1	1	0	1.2	430	0.1					
6 5 79	17	0.02	11		15	791	598	0.96	4.7	10	0	0	0	3.1	430	0.1					
7 3 79	16	0.05	41*		9	840	597	0.93	4.6	14	0	0	0	3.5	420	0.2	0.0	0.05	0.00	0.20	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 29 77	4.6	0.04			120	0.1	0.01	0.9	2.4		39	4.3		7.0	0.07	0.0	9.6		0.0	0.2
10 20 77	2.4	0.00	0.0	0.00	100	0.0	0.00	0.5	1.4	0.30	29	3.0	0.0	4.3	0.02	0.0	5.5	0.2	0.0	0.0
11 18 77	3.2	0.01			120	0.0	0.00	0.5	2.2		46	5.4		6.8	0.06	0.0	7.9		0.0	0.1
1 11 78	5.9	0.00	0.0	0.00	110	0.0	0.00	1.5	1.7	0.50	40	4.4	0.0	4.7	0.08	0.0	9.0	0.4	0.0	0.1
2 13 78	6.2	0.04			94	0.0	0.02	1.8	2.1		51	3.8		5.5	0.10	0.0	8.7		0.1	0.2
3 21 78	4.4	0.00			92	0.0	0.00	0.6	1.8		38	2.4		4.6	0.03	0.0	3.3		0.0	0.1
4 13 78	5.7	0.01	0.0	0.00	110	0.0	0.01	0.7	2.3	0.20	47	3.8	0.0	6.0	0.09	0.0	8.4	0.3	0.1	0.1
5 9 78	3.4	0.01			79	0.1	0.01	0.4	1.9		32	2.2		4.2	0.08	0.1	4.4		0.2	0.1
6 7 78	4.1	0.02			100	0.1	0.01	0.8	2.0		40	3.0		6.2	0.07	0.0	7.1		0.1	0.1
7 10 78	3.6	0.03	0.0	0.00	110	0.0	0.01	1.2	2.1	0.40	44	3.7	0.0	4.8	0.10	0.0	9.3	0.2	0.1	0.1
8 3 78	2.9	0.03			96	0.0	0.01	1.1	2.2		36	2.6		4.3	0.08	0.1	6.8		0.1	0.1
9 12 78	2.8	0.03			100	0.0	0.00	0.8	2.2		36	3.4		4.8	0.08	0.1	8.6		0.1	0.2
10 20 78	4.0	0.03			120	0.0	0.01	0.6	2.0		41	4.3		5.5	0.08	0.1	8.6		0.1	0.1
12 5 78	3.4	0.01			98	0.0	0.01	2.0	1.7		30	3.0		4.6	0.06	0.1	6.7		0.1	0.1
1 16 79	0.8	0.02			130	0.1	0.02	0.6	2.4		43	1.8		5.5	0.09	0.1	5.1		0.3	0.1
2 16 79	0.3	0.01	0.0	0.00	57	0.0	0.01	0.2	2.0	0.30	16	0.8	0.0	2.3	0.04	0.0	3.1	0.1	0.0	0.0
3 12 79	0.2	0.02			110	0.0	0.01	0.5	2.0		39	1.6		4.3	0.06	0.0	4.3		0.1	0.0
4 18 79	0.3	0.01			120	0.0	0.01	0.7	2.1		40	1.8		4.8	0.05	0.0	4.6		0.1	0.1
6 5 79	1.0	0.03			100	0.1	0.03	0.6	2.2		40	2.6		5.7	0.02	0.1	7.1		0.1	0.2
7 3 79	2.2	0.02	0.0	0.00	100	0.0	0.00	0.8	2.1	0.50	36	2.8	0.1	5.7	0.07	0.1	7.5	0.2	0.1	0.1

TABLE 118. WATER QUALITY FOR SITE 9271 WAYNE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
9 16 77	19	0.0025			10	265	135	2.12	7.0		58	71	0	1.1	48	0.1					
10 9 77	14	0.08			40	156	101	1.60	7.0		25	31	0	1.3	45	0.0					
11 20 77	10	0.008	37		35	186	115	1.49	7.9		34	41	0	2.0	52	0.0					
2 19 78	1	0.015			7	180	104	1.41	6.6		18	22	0	1.6	54	0.1					
3 26 78	8	0.6			80	121	76	1.70	7.1		19	23	0	1.3	32	0.1					
5 28 78	19	0.015	65*		20	165	99	1.58	7.4		29	35	0	1.1	43	0.1					
8 6 78	24	0.0003	37*		10	224	132	2.28	8.0		55	66	0	1.1	45	0.1					
9 4 78	18	0.001	39*		15	244	136	2.10	7.8		61	73	0	1.1	47	0.1					
10 8 78	13	0.0001	34*		20	261	154	1.87	8.0		65	78	0	1.4	60	0.0					
11 18 78	10	0.003	8		10	333	224	1.75	8.0	-64	69	83	1	1.5	100	0.0					
1 14 79	4	0.25	17		15	91	54	1.64	6.5	-8	10	12	0	1.1	23	0.1					
2 16 79	2	0.4	11		15	71	48	1.45	6.6	-4	7	9	0	0.7	22	0.1					
3 22 79	6	0.02	21		4	164	100	1.56	7.5	-18	23	28	0	1.3	48	0.0					
4 30 79	12	0.01	5	0.00	25	193	134	1.43	7.8	-23	30	36	0	1.3	68	0.1					
6 23 79	11	0.15	31	0.10	80	96	64	1.41	7.4	-7	18	22	0	1.2	27	0.0	0.0	0.01	1.05	0.00	0.01
7 22 79	21	0.007	37*	0.00	7	173	97	1.71	7.6	-27	32	39	0	0.7	39	0.1	0.0	0.07	1.35	0.25	0.01
9 5 79	20	0.006	4		10	162	107	1.35	7.1	-18	27	33	0	1.2	50	0.2	0.0	0.05	0.00	0.00	0.03

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
9 16 77	0.0	0.00			23	0.0	0.00	0.1	2.8		7.2	0.1		7.9	0.01	0.0	4.2		0.0	0.0
10 9 77	0.1	0.00	0.0	0.00	17	0.0	0.00	0.1	1.7	0.06	5.6	0.0	0.0	4.4	0.01	0.0	5.1	0.1	0.0	0.0
11 20 77	0.0	0.00			18	0.0	0.00	0.1	1.6		5.6	0.0		5.7	0.01	0.0	4.5		0.0	0.0
2 19 78	0.0	0.00	0.0	0.00	16	0.0	0.00	0.0	1.5	0.00	6.9	0.0	0.0	4.8	0.00	0.0	3.6	0.1	0.0	0.0
3 26 78	0.1	0.00	0.0	0.00	11	0.0	0.00	0.1	1.3	0.04	5.2	0.0	0.0	3.0	0.00	0.0	4.5	0.1	0.0	0.0
5 28 78	0.0	0.00	0.0	0.00	15	0.0	0.00	0.0	1.4	0.06	6.0	0.0	0.0	3.9	0.00	0.0	5.1	0.1	0.0	0.0
8 6 78	0.0	0.00			22	0.0	0.02	0.0	2.4		8.0	0.1		7.7	0.01	0.0	5.4		0.0	0.0
9 4 78	0.0	0.01			22	0.0	0.00	0.2	2.4		8.1	0.2		6.5	0.01	0.0	5.0		0.0	0.0
10 8 78	0.0	0.00	0.0	0.00	24	0.0	0.00	0.0	2.3	0.30	8.7	0.0	0.0	9.0	0.01	0.0	4.4	0.1	0.0	0.0
11 18 78	0.1	0.01			43	0.0	0.00	0.1	3.3		13	0.1		9.2	0.01	0.1	4.9		0.0	0.0
1 14 79	0.2	0.00	0.0	0.00	9.1	0.0	0.00	0.1	0.9	0.05	3.4	0.0	0.0	1.5	0.01	0.1	3.5	0.0	0.0	0.0
2 16 79	0.1	0.00			7.6	0.0	0.00	0.0	0.9		3.0	0.0		1.3	0.00	0.0	3.2		0.0	0.0
3 22 79	0.1	0.00			17	0.0	0.01	0.0	1.3		6.4	0.0		3.9	0.02	0.0	3.9		0.0	0.0
4 30 79	0.1	0.00	0.0	0.00	23	0.0	0.00	0.1	1.7	0.15	8.3	0.0	0.0	4.5	0.01	0.0	4.2	0.1	0.1	0.0
6 23 79	0.1	0.01			8.9	0.0	0.01	0.0	1.2		3.3	0.0		2.1	0.01	0.0	4.2		0.0	0.0
7 22 79	0.0	0.00	0.0	0.00	15	0.0	0.01	0.0	1.7	0.30	5.4	0.0	0.0	3.9	0.00	0.0	5.1	0.1	0.0	0.0
9 5 79	0.0	0.01			16	0.0	0.00	0.0	2.0		5.4	0.0		4.0	0.00	0.0	5.0		0.0	0.0

TABLE 119. WATER QUALITY FOR SITE 9274 WAYNE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 9 77	16	0.15			20	87	48	1.70	6.6		11	14	0	0.8	19	0.0					
11 20 77	10	0.03	28		50	67	41	1.64	7.3	-9	11	13	0	0.8	16	0.0					
3 25 78	13	0.25			10	53	33	1.49	6.8		5	6	0	1.0	15	0.0					
5 27 78	19	0.15	59*		20	52	38	1.27	6.8		7	8	0	0.7	17	0.0					
6 25 78	19	0.0000			7	50	36	1.57	6.8		7	8	0	1.3	14	0.1					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 9 77	0.0	0.00	0.0	0.00	5.4	0.0	0.00	0.1	1.9	0.03	3.5	0.0	0.0	2.0	0.01	0.0	3.8	0.0	0.0	0.0
11 20 77	0.0	0.00			4.7	0.0	0.00	0.1	1.3		2.9	0.0		1.6	0.01	0.0	3.2		0.0	0.0
3 25 78	0.0	0.00	0.0	0.00	3.4	0.0	0.00	0.0	1.3	0.02	2.9	0.0	0.0	1.2	0.01	0.0	2.6	0.0	0.0	0.0
5 27 78	0.0	0.00	0.0	0.00	3.4	0.0	0.00	0.0	1.3	0.05	2.7	0.0	0.0	1.2	0.00	0.0	3.5	0.0	0.0	0.0
6 25 78	0.0	0.00			3.8	0.0	0.01	0.0	1.4		2.6	0.0		1.3	0.02	0.0	3.7		0.0	0.0

TABLE 120. WATER QUALITY FOR SITE 9277 WAYNE COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
10 9 77	14	0.0003			15	81	50	1.52	6.6		10	12	0	1.1	21	0.0					

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
10 9 77	0.0	0.00			5.1	0.0	0.00	0.1	2.3		3.6	0.0		1.9	0.01	0.0	4.3		0.0	0.0

TABLE 121. WATER QUALITY FOR SITE 9281 WEBSTER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 31 77	16	0.7			100	38	24	1.81	6.1		4	5	0	0.6	6	0.8					
10 27 77	13	0.5	39		30	41	23	2.78	6.8		7	8	0	0.6	5	0.2					
12 2 77	8	0.5	21*		8	22	19	2.14	6.6		4	5	0	0.6	4	0.6					
1 13 78	6	0.9			0	25	18	1.95	6.5		4	5	0	0.6	4	0.4					
2 16 78	1	0.6			0	32	20	2.05	6.8		5	6	0	0.7	5	0.4					
3 22 78	7	0.5			20	31	20	1.79	6.7		3	4	0	0.6	5	0.7					
4 18 78	11	0.06	58*		7	27	22	2.16	6.7		5	6	0	0.6	6	0.3					
5 10 78	10	0.2	48*		10	24	16	1.34	6.4		3	4	0	0.6	6	0.5					
6 9 78	14	0.7			20	26	15	4.44	6.9		5	6	0	0.2	4						
7 11 78	16	0.6	44*		15	26	24	1.76	6.6		4	5	0	0.7	7	0.5					
8 9 78	20	0.15	18*		9	39	26	2.53	7.0		8	10	0	0.4	4	1.1					
9 14 78	22	0.1	24*		20	45	33	1.98	7.1		11	14	0	0.6	10	0.2					
10 25 78	13	0.06	36*		30	53	37	2.89	7.2	-11	16	20	0	1.5	8	0.0					
12 20 78	8	1.0	58		35	25	21	1.19	6.6	-1	3	4	0	0.6	7	0.5					
1 17 79	3	0.2	22		8	21	24	0.98	6.0		2	3	0	0.6	10	0.5					
2 17 79	2	0.6	3		0	21	17	1.54	7.0	0	2	3	0	0.3	5	0.4					
3 13 79	4	0.15	7		1	22	17	1.30	6.3	2	2	2	0	0.7	5	0.4					
4 27 79	10	0.6	18	0.02	10	22	17	1.77	6.5	2	3	4	0	0.5	5	0.2					
6 6 79	18	0.25	8		10	25	23	1.28	6.9	2	5	6	0	2.1	6	0.3					
7 12 79	18	0.05	21*		10	34	27	1.76	7.0		8	10	0	0.7	8	0.3	0.1	0.01	0.60	0.10	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 31 77	0.0	0.01			2.2	0.0	0.00	0.1	0.8		1.6	0.1		0.9	0.00	0.0	2.6		0.0	0.0
10 27 77	0.1	0.00	0.0	0.00	2.4	0.0	0.00	0.2	1.6	0.02	1.6	0.0	0.0	1.1	0.01	0.0	2.5	0.0	0.0	0.0
12 2 77	0.0	0.00			1.5	0.0	0.00	0.0	0.8		1.4	0.0		0.8	0.00	0.0	2.3		0.0	0.0
1 13 78	0.0	0.00	0.0	0.00	1.5	0.0	0.00	0.1	0.6	0.01	1.0	0.0	0.0	0.8	0.00	0.0	2.3	0.0	0.0	0.0
2 16 78	0.0	0.00			1.5	0.0	0.00	0.1	0.8		1.6	0.0		1.0	0.00	0.0	2.2		0.0	0.0
3 22 78	0.0	0.00			1.8	0.0	0.00	0.2	0.8		1.4	0.0		0.8	0.00	0.0	2.0		0.0	0.0
4 18 78	0.1	0.00	0.0	0.00	2.1	0.0	0.00	0.1	1.0	0.02	1.7	0.0	0.0	1.1	0.00	0.0	2.1	0.0	0.0	0.0
5 10 78	0.0	0.00			1.3	0.1	0.01	0.0	0.8		1.1	0.0		0.7	0.02	0.1	0.8		0.1	0.0
6 9 78	0.0	0.00			1.6	0.0	0.00	0.0	0.8		1.4	0.0		0.7	0.00	0.0	1.6		0.0	0.0
7 11 78	0.0	0.01	0.0	0.00	2.2	0.0	0.00	0.1	1.1	0.01	1.6	0.0	0.0	0.7	0.02	0.0	2.8	0.0	0.0	0.0
8 9 78	0.1	0.00			2.6	0.0	0.00	0.5	0.9		1.6	0.0		0.7	0.00	0.0	2.3		0.0	0.0
9 14 78	0.0	0.00	0.0	0.00	3.5	0.0	0.00	0.4	1.8	0.03	2.0	0.0	0.0	1.1	0.00	0.0	2.7	0.0	0.0	0.0
10 25 78	0.0	0.00	0.0	0.00	4.6	0.0	0.00	0.4	2.1	0.07	2.3	0.1	0.0	1.4	0.01	0.0	2.9	0.0	0.0	0.1
12 20 78	0.1	0.01			1.8	0.0	0.00	0.2	1.0		1.0	0.0		0.6	0.02	0.0	2.0		0.1	0.0
1 17 79	0.1	0.00	0.0	0.00	1.8	0.0	0.01	0.1	1.0	0.02	1.3	0.0	0.0	0.7	0.02	0.0	2.2	0.0	0.0	0.0
2 17 79	0.0	0.00			1.5	0.0	0.00	0.0	0.9		1.0	0.0		0.7	0.00	0.0	2.0		0.0	0.0
3 13 79	0.0	0.00			1.4	0.0	0.00	0.0	0.6		1.0	0.0		0.6	0.00	0.0	1.9		0.0	0.0
4 27 79	0.0	0.00	0.0	0.00	1.6	0.0	0.00	0.0	0.7	0.01	1.2	0.0	0.0	0.6	0.00	0.0	2.2	0.0	0.0	0.0
6 6 79	0.0	0.00			2.0	0.0	0.00	0.1	0.8		1.2	0.0		0.6	0.00	0.0	2.5		0.0	0.1
7 12 79	0.0	0.00	0.1	0.00	2.8	0.0	0.01	0.1	0.8	0.03	1.9	0.0	0.0	0.7	0.00	0.0	2.2	0.0	0.0	0.3

TABLE 122. WATER QUALITY FOR SITE 9282 WEBSTER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
10 27 77	13	0.09	64		95	187	94	5.53	7.0		54	66	0	1.0	14	1.1					
12 2 77	8	0.6	83*		180	38	28	1.91	6.6		7	8	0	0.7	8	0.7					
1 13 78	8	0.2			2	42	31	1.75	7.0		9	11	0	0.7	10	0.4					
2 16 78	2	0.5			3	78	45	2.56	7.3		20	25	0	0.7	12	0.3					
3 22 78	7	0.5			8	39	30	1.69	7.1	-1	8	10	0	0.6	10	0.4					
4 18 78	12	0.05			25	80	45	2.75	7.5		21	26	0	0.9	12	0.4					
5 10 78	12	0.7	95*		130	38	28	1.34	6.8		7	8	0	0.6	9	0.5					
6 9 78	17	1.0	144*		210	67	37	3.73	7.3		19	23	0	0.2	10						
7 11 78	18	1.0	178*		260	70	47	2.16	7.1		16	20	0	0.7	15	0.6					
8 9 78	22	0.6	44*		130	83	49	2.60	7.3		21	26	0	0.8	13	0.5					
9 14 78	22	0.03	65*		30	170	94	3.27	7.7		54	66	0	1.6	22	0.1					
10 25 78	15	0.1	48*		35	217	118	4.14	8.0	-74	80	97	1	1.2	22	0.3					
12 20 78	6	0.2	19		15	104	68	2.88	7.2	-31	32	39	0	0.9	17	0.6					
1 17 79	5	0.7	24		25	73	55	2.19	6.8	-19	22	27	0	0.8	17	0.6					
2 17 79	3	0.8	50		20	43	28	1.61	7.0	-5	7	8	0	0.6	10	0.6					
3 13 79	4	0.7	8		7	71	48	2.84	7.3	-11	21	26	0	0.9	12	0.6					
4 27 79	13	0.8	20	0.00	85	90	62	1.82	7.4	-21	24	29	0	1.0	24	0.2					
6 6 79	20	0.25	12		15	82	50	2.63	7.6	-18	26	32	0	1.3	13	0.1					
7 12 79	19	0.09	12		20	117	66	3.30	7.8		38	46	0	0.4	16	0.1	0.1	0.08	0.65	0.20	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
10 27 77	0.0	0.00	0.3	0.00	14	0.0	0.00	1.4	2.4	0.01	4.5	0.5	0.0	13	0.02	0.0	2.8	0.1	0.0	0.0
12 2 77	0.0	0.00			3.0	0.0	0.00	0.0	1.1		2.2	0.2		1.2	0.01	0.0	2.1		0.0	0.0
1 13 78	0.0	0.00	0.0	0.00	3.5	0.0	0.00	0.2	0.9	0.01	1.9	0.2	0.0	1.3	0.00	0.0	2.4	0.0	0.0	0.0
2 16 78	0.0	0.01			4.9	0.0	0.00	0.4	1.3		3.5	0.2		3.0	0.00	0.0	2.3		0.0	0.0
3 22 78	0.0	0.00			3.1	0.0	0.00	0.0	1.0		2.1	0.1		1.0	0.00	0.0	2.4		0.0	0.0
4 18 78	0.0	0.00	0.1	0.00	6.2	0.0	0.00	0.3	1.2	0.06	3.5	0.2	0.0	2.3	0.00	0.0	1.9	0.0	0.0	0.0
5 10 78	0.0	0.00			2.4	0.0	0.01	0.0	1.0		1.6	0.1		0.8	0.03	0.1	2.5		0.1	0.0
6 9 78	0.1	0.00			5.4	0.0	0.00	0.2	1.2		3.3	0.3		1.5	0.00	0.0	1.8		0.0	0.0
7 11 78	0.0	0.01	0.0	0.00	6.2	0.0	0.00	0.1	1.8	0.03	3.8	0.4	0.0	1.4	0.01	0.1	2.2	0.0	0.0	0.0
8 9 78	0.0	0.00			6.6	0.0	0.01	0.2	1.6		3.9	0.5		1.7	0.01	0.0	2.3		0.0	0.0
9 14 78	0.0	0.00	0.2	0.00	15	0.0	0.00	0.5	3.5	0.15	6.6	0.5	0.0	4.8	0.01	0.1	2.3	0.1	0.0	0.0
10 25 78	0.0	0.01	0.2	0.00	20	0.0	0.00	0.8	2.5	0.15	7.1	0.5	0.0	8.2	0.01	0.0	2.7	0.1	0.0	0.0
12 20 78	0.1	0.03			11	0.1	0.02	0.4	1.0		5.0	0.5		2.6	0.04	0.1	2.9		0.2	0.1
1 17 79	0.1	0.00	0.0	0.00	7.9	0.0	0.01	0.3	1.6	0.15	4.0	0.2	0.0	1.8	0.02	0.0	2.2	0.0	0.1	0.0
2 17 79	0.0	0.00			3.4	0.0	0.00	0.0	1.0		2.0	0.1		0.7	0.00	0.0	1.7		0.0	0.0
3 13 79	0.0	0.00			7.2	0.0	0.01	0.3	1.6		3.7	0.2		1.9	0.02	0.0	2.3		0.0	0.0
4 27 79	0.0	0.00	0.1	0.00	9.4	0.0	0.00	0.1	1.3	0.15	4.5	0.2	0.0	1.8	0.01	0.0	1.8	0.1	0.1	0.0
6 6 79	0.0	0.00			7.7	0.0	0.00	0.3	1.1		3.6	0.2		1.5	0.00	0.0	2.1		0.0	0.1
7 12 79	0.0	0.00	0.3	0.00	11	0.0	0.01	0.3	1.5	0.05	5.2	0.4	0.0	2.6	0.01	0.0	2.4	0.1	0.0	0.4

TABLE 123. WATER QUALITY FOR SITE 9283 WEBSTER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 31 77	17	0.004				132	69	2.85	6.1		38	46	0	0.6	19	0.0					
10 27 77	11	0.02	35		10	150	70	2.17	7.0		28	34	0	0.9	25	0.1					
12 2 77	8	0.15	36*		40	52	33	1.93	7.0		9	11	0	0.8	12	0.2					
1 13 78	4	0.04			20	44	30	1.62	6.8		7	9	0	1.0	11	0.2					
2 16 78	1	0.03			3	88	47	1.73	7.3		16	19	0	1.0	19	0.2					
3 22 78	8	0.05			20	56	33	1.73	7.3		8	10	0	1.0	13	0.3					
4 18 78	12	0.15			3	110	61	2.11	7.7		25	31	0	1.1	22	0.1					
5 10 78	12	0.05	60*		55	36	25	1.42	6.8		7	8	0	0.6	9	0.2					
6 9 78	16	0.15			45	50	33	2.28	7.2		12	15	0	0.3	10	0.2					
7 11 78	18	0.08	53*		60	57	41	2.91	7.4		20	24	0	0.9	10	0.1					
8 9 78	21	0.06	40*		35	48	29	3.55	7.3		15	18	0	0.5	6	0.1					
9 14 78	23	0.01	65*		45	82	44	6.51	7.5		29	35	0	1.1	5	0.0					
10 25 78	13	0.008	37*		40	89	51	1.82	7.2	-6	14	17	0	2.7	18	0.0					
12 20 78	6	0.8			270	75	41	1.62	6.7		8	10	0	1.7	17	0.2					
1 17 79	4	0.1	29		110	51	38	1.56	6.2		7	8	0	0.7	17	0.3					
2 17 79	0	0.02	7		15	43	29	1.48	6.5	-1	4	5	0	0.6	12	0.4					
3 13 79	2	0.03	4		5	55	34	1.56	6.8	-3	7	9	0	0.9	15	0.2					
4 27 79	12	0.04	39	0.00	95	69	44	2.03	7.1	-10	16	20	0	0.7	16	0.1					
6 6 79	20	0.08	12		10	61	39	2.14	7.3	-8	17	21	0	1.1	13	0.0					
7 12 79	18	0.25	42*		35	86	48	2.52	7.6	-26	30	37	0	0.7	12	0.1	0.2	0.00	1.05	0.25	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 31 77	0.0	0.02			10	0.0	0.00	0.3	1.7		6.3	2.1		1.5	0.01	0.0	2.0		0.0	0.0
10 27 77	0.0	0.00			11	0.0	0.00	0.2	2.6		6.2	0.9		1.6	0.01	0.0	2.0		0.0	0.0
12 2 77	0.1	0.00			4.0	0.0	0.01	0.2	1.6		2.8	0.3		1.0	0.01	0.0	1.9		0.0	0.0
1 13 78	0.0	0.00	0.0	0.00	3.4	0.0	0.00	0.2	1.4	0.01	1.8	0.2	0.0	1.2	0.00	0.0	2.2	0.0	0.0	0.0
2 16 78	0.0	0.00			5.0	0.0	0.00	0.3	1.6		4.5	0.3		1.2	0.01	0.0	2.1		0.0	0.0
3 22 78	0.0	0.00			4.1	0.0	0.00	0.0	1.4		2.9	0.1		1.0	0.00	0.0	1.2		0.0	0.0
4 18 78	0.1	0.00	0.0	0.00	8.3	0.0	0.01	0.3	1.6	0.06	5.8	0.3	0.0	1.5	0.00	0.0	1.8	0.4	0.0	0.0
5 10 78	0.1	0.00			2.4	0.0	0.01	0.1	1.0		1.6	0.1		0.8	0.03	0.1	1.9		0.0	0.0
6 9 78	0.2	0.00			4.2	0.0	0.00	0.8	1.0		2.6	0.4		0.9	0.00	0.0	1.8		0.1	0.0
7 11 78	0.1	0.02	0.0	0.00	5.8	0.1	0.00	2.6	0.9	0.03	3.4	1.4	0.0	0.9	0.03	0.0	1.2	0.0	0.2	0.0
8 9 78	0.0	0.00			4.2	0.0	0.01	1.9	1.1		1.9	0.8		0.9	0.01	0.0	1.4		0.0	0.0
9 14 78	0.0	0.00	0.0	0.00	7.0	0.0	0.00	1.5	2.1	0.09	3.7	1.6	0.0	1.2	0.00	0.0	1.2	0.0	0.0	0.1
10 25 78	0.0	0.00	0.0	0.00	7.2	0.0	0.00	2.1	2.0	0.07	3.6	0.8	0.0	1.3	0.01	0.0	2.0	0.0	0.1	0.0
12 20 78	0.3	0.00			5.0	0.0	0.02	0.4	3.3		2.6	0.1		1.7	0.01	0.2	1.5		0.0	0.0
1 17 79	0.2	0.00	0.0	0.00	5.2	0.0	0.01	0.2	1.7	0.07	2.9	0.1	0.0	1.1	0.02	0.0	1.9	0.0	0.0	0.0
2 17 79	0.1	0.00			3.9	0.0	0.00	0.1	1.0		2.2	0.1		0.6	0.01	0.0	1.6		0.1	0.0
3 13 79	0.1	0.00			4.4	0.0	0.00	0.1	1.2		2.8	0.1		0.8	0.01	0.0	1.7		0.0	0.0
4 27 79	0.0	0.00	0.0	0.00	6.6	0.0	0.00	0.2	1.4	0.15	3.8	0.2	0.0	0.9	0.01	0.0	1.5	0.0	0.1	0.0
6 6 79	0.0	0.00			5.5	0.0	0.00	0.4	1.2		3.0	0.3		1.1	0.00	0.0	1.3		0.0	0.1
7 12 79	0.0	0.00	0.0	0.00	7.0	0.0	0.00	1.3	0.7	0.05	3.2	0.8	0.0	0.8	0.00	0.0	1.3	0.0	0.0	0.1

TABLE 124. WATER QUALITY FOR SITE 9284 WEBSTER COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
8 31 77	19	1.0			35	38	23	2.07	6.3		7	8	0	0.4	7	0.1					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
8 31 77	0.0	0.01			2.5	0.0	0.00	0.0	0.8		1.7	0.0		0.8	0.00	0.0	2.4		0.0	0.0

TABLE 125. WATER QUALITY FOR SITE 9290 WYOMING COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
1 24 78	2	0.009				529	357	2.09	8.3		153	182	2	0.9	140	0.1					
2 24 78	5	0.7			4	578	404	2.26	8.3		151	179	2	1.2	170	0.1					
3 28 78	10	0.4			4	521	309	2.53	8.1		129	154	1	0.9	120	0.1					
4 20 78	10	0.15	63*		10	562	377	2.18	8.3		113	134	2	0.9	170	0.1					
5 16 78	12	0.2	48*		7	471	238	1.73	8.4		81	96	1	0.7	110	0.2					
6 15 78	15	0.4			0	593	378	2.32	8.2		144	172	2	0.5	150	0.2					
7 18 78	17	0.07	71*		15	605	411	2.07	8.4		120	142	2	0.6	180	0.7					
1 24 79	7	0.06	3		10	353	235	1.93	8.1		80	96	1	0.5	100	0.4					
2 22 79	7	0.15	4		1	369	216	2.19	7.9	-46	52	63	0	26	71	0.6					
3 29 79	10	0.07			1	488	307	2.66	8.4	-88	114	135	2	1.7	110	0.2					

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
1 24 78	0.0	0.00	0.0	0.00	51	0.0	0.00	0.2	4.1	0.15	31	0.1	0.0	25	0.01	0.0	3.2	2.2	0.0	0.0
2 24 78	0.0	0.00			54	0.0	0.00	0.0	5.3		41	0.1		39	0.02	0.0	3.0		0.0	0.0
3 28 78	0.1	0.00			47	0.0	0.00	1.0	4.1		33	0.1		23	0.02	0.0	3.0		0.0	0.0
4 20 78	0.1	0.00	0.0	0.00	56	0.0	0.00	0.1	5.0	0.15	42	0.1	0.0	29	0.02	0.0	3.2	1.8	0.2	0.0
5 16 78	0.1	0.00			27	0.0	0.01	0.0	3.5		22	0.1		19	0.03	0.1	1.2		0.1	0.0
6 15 78	0.1	0.00			52	0.0	0.00	0.1	4.8		37	0.0		38	0.02	0.1	2.4		0.2	0.0
7 18 78	0.1	0.01	0.0	0.00	63	0.0	0.01	0.1	5.3	0.20	38	0.0	0.1	36	0.03	0.1	3.4	1.4	0.1	0.0
1 24 79	0.1	0.00			37	0.0	0.00	0.1	2.6		19	0.0		16	0.02	0.0	2.9		0.1	0.0
2 22 79	0.2	0.01	0.0	0.00	26	0.0	0.01	0.0	2.8	0.15	15	0.1	0.0	34	0.04	0.0	2.9	0.8	0.1	0.0
3 29 79	0.1	0.04	0.0	0.00	54	0.0	0.00	0.0	4.3	0.30	30	0.1	0.0	26	0.01	0.0	2.5	1.9	0.0	0.0

TABLE 126. WATER QUALITY FOR SITE 9291 WYOMING COUNTY, WEST VIRGINIA

WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
12	0.2	21		0	102	50	2.69	7.1		20	25	0	0.5	15	0.3					
8	0.2	21*		20	68	40	2.62	7.4		16	19	0	0.7	12	0.3					
20	0.0005	17*		3	93	63	3.13	7.6		29	35	0	0.8	16	0.3					
5	0.09	1		30	73	43	2.08	7.2	-13	14	17	0	0.6	14	0.9					
	0.15	29		10	74	48	2.54	7.5	-12	20	25	0	0.7	14	0.3					
15	0.2	13	0.03	10	80	46	2.16	7.5	-16	19	23	0	0.8	14	0.3	0.0	0.01	0.40	0.00	0.00

ed Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
								MILLIGRAMS PER LITER											
0.0	0.00			7.6	0.0	0.00	0.0	1.6		3.3	0.0		4.0	0.02	0.0	1.8		0.0	0.0
0.1	0.00			6.0	0.0	0.01	0.0	1.2		3.0	0.0		2.8	0.01	0.0	1.7		0.0	0.0
0.1	0.01			9.0	0.0	0.01	0.0	1.8		4.0	0.0		6.4	0.02	0.0	2.6		0.0	0.0
0.0	0.00			5.8	0.0	0.01	0.0	1.2		2.9	0.0		2.6	0.00	0.0	1.7		0.1	0.0
0.1	0.00			7.2	0.1	0.03	0.0	1.2		3.2	0.0		2.8	0.03	0.1	2.5		0.1	0.0
0.0	0.00	0.0	0.00	6.4	0.0		0.1	1.3	0.25	2.7	0.0	0.0	2.5	0.00	0.0	2.2	0.2	0.0	0.0

TABLE 127. WATER QUALITY FOR SITE 9292 WYOMING COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	*NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
11 2 77	13	0.15	6		8	160	86	1.53	7.0		20	24	0	0.6	42	0.3					
12 14 77	8	0.5	1280		2200	307	158	1.38	7.0		43	52	0	5.0	77	0.3					
1 24 78	4	0.6			4	306	183	1.76	7.7		57	70	0	4.8	80	0.3					
2 24 78	3				6	359	211	1.91	7.8		57	69	0	2.4	99	0.3					
3 28 78	11	0.9			4	344	199	1.73	7.7		59	72	0	1.3	96	0.3					
4 20 78	10	0.15	55*		8	213	126	1.39	7.7		27	33	0	0.9	66	0.3					
5 16 78	12	0.1	51*		7	169	103	1.35	7.8		24	29	0	0.7	52	0.4					
6 15 78	18	0.09			8	214	123		7.7		33	40	0		57	1.8					
7 18 78	18	0.15	49*		10	167	95	1.99	7.7		32	39	0	0.6	37	0.4					
8 15 78	21	0.02	17*		4	168	98	1.81	7.8		38	46	0	1.1	38	0.4					
9 28 78	19	0.0015	16*		2	162	100	1.69	7.8		37	45	0	0.8	41	0.4					
11 8 78	14	0.005	2		5	188	112	1.75	7.9	-33	39	48	0	0.9	49	0.0					
12 14 78	5	0.15	1		0	112	63	1.67	7.7	-15	13	16	0	0.9	24	1.3					
1 24 79	4	0.5	92		110	92	54	1.64	7.2		10	12	0	1.5	23	0.4					
2 22 79	4	0.6	26		15	104	67	1.31	7.3	-8	11	13	0	0.8	34	0.5					
3 29 79	10	0.25			1	130	81	1.39	7.3	-14	15	18	0	1.6	40	0.6					
5 1 79	12	0.1	15	0.00	30	226	137	1.50	8.0	-30	35	42	0	0.7	69	0.3					
6 20 79		0.08	64		75	146	86	1.41	7.7	-18	26	32	0	0.6	40	0.3					
7 19 79	16	0.09	56		120	162	90	1.64	7.4	-26	26	32	0	0.8	39	0.3	0.0	0.05	0.75	0.10	0.01

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CD	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
11 2 77	0.1	0.00	0.0	0.00	12	0.0	0.00	0.0	2.7	0.07	5.8	0.0	0.0	5.6	0.02	0.0	2.4	0.1	0.0	0.0
12 14 77	0.2	0.00			23	0.1	0.02	0.1	3.4		10	0.1		6.5	0.07	0.3	2.2		0.1	0.0
1 24 78	0.0	0.00	0.0	0.00	27	0.0	0.00	0.1	3.5	0.02	16	0.1	0.0	9.2	0.01	0.0	2.9	0.9	0.0	0.0
2 24 78	0.0	0.00			32	0.0	0.00	0.0	4.2		24	0.0		9.3	0.01	0.0	2.4		0.0	0.0
3 28 78	0.1	0.00			29	0.0	0.00	0.0	3.9		20	0.0		7.4	0.00	0.0	2.3		0.0	0.0
4 20 78	0.0	0.00	0.1	0.00	16	0.0	0.00	0.1	2.6	0.05	9.6	0.0	0.0	6.6	0.00	0.0	2.6	0.3	0.0	0.0
5 16 78	0.0	0.00			13	0.0	0.00	0.0	2.2		7.4	0.0		4.9	0.01	0.0	2.7		0.0	0.0
6 15 78	0.0	0.00			16	0.0	0.00	0.1	2.7		9.0	0.0		6.4	0.00	0.0	1.7		0.0	0.0
7 18 78	0.0	0.01	0.0	0.00	14	0.0	0.01	0.0	2.7	0.09	7.4	0.0	0.0	4.9	0.01	0.0	3.2	0.2	0.0	0.0
8 15 78	0.1	0.01			12	0.1	0.01	0.0	2.7		7.0	0.0		5.6	0.02	0.1	2.8		0.0	0.0
9 28 78	0.0	0.00	0.0	0.00	14	0.0	0.00	0.0	2.5	0.10	6.7	0.0	0.0	4.0	0.00	0.0	3.0	0.3	0.0	0.0
11 8 78	0.1	0.00			17	0.0	0.01	0.0	2.4		8.2	0.0		5.5	0.00	0.0	2.7		0.0	0.0
12 14 78	0.0	0.00			8.8	0.0	0.00	0.0	1.7		4.0	0.0		3.6	0.00	0.0	2.6		0.0	0.0
1 24 79	0.1	0.00			7.7	0.0	0.00	0.1	1.6		3.9	0.0		2.3	0.03	0.0	2.7		0.0	0.0
2 22 79	0.1	0.00	0.0	0.00	9.1	0.0	0.01	0.0	1.6	0.08	4.2	0.0	0.0	3.4	0.01	0.0	2.4	0.1	0.0	0.0
3 29 79	0.0	0.00	0.0	0.00	11	0.0	0.01	0.0	1.9	0.10	5.5	0.0	0.0	3.9	0.01	0.0	2.3	0.3	0.0	0.0
5 1 79	0.1	0.00			21	0.0	0.00	0.0	2.7		10	0.0		5.5	0.00	0.0	2.2		0.0	0.0
6 20 79	0.1	0.00			11	0.1	0.01	0.0	1.9		5.6	0.0		3.5	0.02	0.0	2.6		0.0	0.1
7 19 79	0.1		0.1	0.00	12	0.1		0.1	2.5	0.15	6.2	0.0	0.0	3.9	0.00	0.0	3.4	0.2	0.0	0.2

TABLE 12B. WATER QUALITY FOR SITE 9293 WYOMING COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID-ITY	ALKA-LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			MILLIGRAMS PER LITER											
11 2 77	13	0.25	18		20	280	179	1.46	7.4		19	23	0	0.7	100	0.2					
12 14 77	8	0.4	15		30	294	182	1.39	6.9		17	21	0	0.9	110	0.6					
1 24 78	3	0.6			0	254	153	1.24	7.2		14	17	0	0.9	93	0.5					
2 24 78	2	0.8			2	283	170	1.40	7.1		11	14	0	0.9	100	0.5					
3 28 78	12	1.0			10	300	212	1.05	7.0		13	16	0	0.8	140	0.5					
4 20 78	11	0.2	57*		8	339	209	1.31	7.3		14	17	0	0.8	130	0.4					
5 16 78	12	0.2	39*		8	296	180	1.30	7.2		16	20	0	0.8	110	0.5					
6 15 78	20	0.06			0	362	221		7.2		18	22	0		140	1.6					
7 18 78	22	0.02	52*		4	351	204	1.40	7.4		17	21	0	1.1	120	0.1					
8 15 78	20	0.03	21*		7	299	172	1.32	7.4		21	26	0	0.8	100	0.4					
9 28 78	19	0.01	14		0	356	191	1.22	7.4		21	26	0	0.6	120	0.2					
11 8 78	14	0.01	4		3	354	239	1.23	7.4	-16	21	26	0	0.8	150	0.0					
12 14 78	5	0.2	2		1	310	166	1.25	7.3	-12	18	22	0	0.8	99	1.3					
1 24 79	6	0.7	40		20	197	114	1.12	7.0	-3	8	10	0	0.7	71	0.5					
2 22 79	5	0.6	6		3	219	119	1.25	7.0	2	10	12	0	0.6	72	0.5					
3 29 79	9	0.4			6	281	186	1.38	7.3	-8	22	27	0	0.7	110	0.5					
5 1 79	13	0.15	4	0.00	30	290	174	1.15	7.4	-14	15	18	0	0.7	110	0.4					
6 20 79		0.1	6		7	267	180	1.25	7.6	-13	20	25	0	0.7	110	0.3					
7 19 79	15	0.4	8		10	286	203	1.05	7.3	-16	20	24	0	0.8	130	0.4	0.2	0.04	0.85	0.10	0.00

* Suspended Solids values followed by an asterisk are believed to be 5 to 80 mg/l too high (most are 20 to 40 mg/l too high).

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	MILLIGRAMS PER LITER																			
11 2 77	0.0	0.02			26	0.0	0.00	0.0	2.7		21	0.0		4.1	0.01	0.0	3.5		0.0	0.0
12 14 77	0.1	0.00			24	0.0	0.03	0.1	2.3		23	0.0		2.9	0.01	0.0	3.3		0.1	0.0
1 24 78	0.0	0.00	0.0	0.00	20	0.0	0.00	0.0	1.9	0.05	16	0.0	0.0	2.7	0.01	0.0	3.6	0.1	0.0	0.0
2 24 78	0.0	0.00			21	0.0	0.00	0.0	2.6		22	0.0		3.7	0.00	0.0	3.1		0.0	0.0
3 28 78	0.0	0.00			22	0.0	0.00	0.1	2.2		23	0.0		2.9	0.01	0.0	4.1		0.0	0.0
4 20 78	0.0	0.00	0.1	0.00	25	0.0	0.00	0.0	2.5	0.06	27	0.0	0.0	3.5	0.01	0.0	3.2	0.1	0.0	0.0
5 16 78	0.0	0.00			21	0.0	0.00	0.0	2.2		22	0.0		2.8	0.01	0.0	3.6		0.1	0.0
6 15 78	0.1	0.00			26	0.0	0.00	0.1	2.8		24	0.0		3.5	0.00	0.0	2.3		0.1	0.0
7 18 78	0.1	0.01	0.0	0.00	33	0.0	0.01	0.0	3.1	0.10	21	0.0	0.0	3.1	0.02	0.1	3.7	0.1	0.1	0.0
8 15 78	0.1	0.01			22	0.0	0.01	0.1	2.8		19	0.0		2.8	0.03	0.1	3.5		0.1	0.0
9 28 78	0.1	0.00	0.1	0.00	25	0.0	0.00	0.0	3.1	0.10	19	0.0	0.0	2.7	0.02	0.0	3.4	0.2	0.0	0.0
11 8 78	0.1	0.00			38	0.0	0.01	0.0	2.8		22	0.0		3.6	0.01	0.1	3.3		0.1	0.0
12 14 78	0.1	0.00			22	0.0	0.00	0.0	1.9		17	0.0		2.2	0.02	0.0	2.8		0.0	0.0
1 24 79	0.1	0.00			16	0.0	0.02	0.0	1.8		9.2	0.0		2.1	0.01	0.0	2.8		0.0	0.1
2 22 79	0.1	0.00			18	0.0	0.01	0.0	1.9		11	0.0		2.3	0.02	0.0	2.9		0.1	0.0
3 29 79	0.1	0.01	0.0	0.00	30	0.0	0.00	0.1	2.1	0.30	18	0.0	0.0	2.1	0.06	0.1	3.1	0.2	0.2	0.0
5 1 79	0.1	0.00			23	0.0	0.01	0.0	2.2		17	0.0		2.4	0.01	0.0	3.2		0.1	0.0
6 20 79	0.1	0.01			21	0.0	0.01	0.1	2.4		21	0.0		2.6	0.02	0.0	3.8		0.1	0.1
7 19 79	0.1	0.01	0.0	0.00	24	0.0	0.02	0.1	2.3	0.20	19	0.0	0.0	2.3	0.01	0.0	3.6	0.1	0.0	0.0

TABLE 129. WATER QUALITY FOR SITE 9294 WYOMING COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
5 1 79	12	0.005	11	0.00	0	214	139	2.67	7.9	-56	70	85	0	0.7	43	0.3					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
5 1 79	0.1	0.00			16	0.1	0.01	0.0	1.7		7.6	0.0		21	0.01	0.1	2.1		0.0	0.0

TABLE 130. WATER QUALITY FOR SITE 9296 WYOMING COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
10 13 77	10	0.1			0	918	745	0.98	4.3		0	0	0	3.3	450	7.3					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
10 13 77	3.1	0.11	0.0	0.00	52	0.1	0.01	0.1	34	1.0	53	3.5	0.0	46	0.09	0.0	31	0.4	0.1	0.1

TABLE 131. WATER QUALITY FOR SITE 9297 WYOMING COUNTY, WEST VIRGINIA

DATE	WATER TEMP	EST DISCH	SUSP SOL	SETT MATTER	TURB	SPEC COND	DIS SOLID	NEUT RATIO	LAB PH	ACID- ITY	ALKA- LINITY	HCO3	CO3	CL	SO4	NO3 AS N	%NO3 AS N	NH3 AS N	TOT N	TOT P	ORTH PO4
MO DA YR	DEG C	CFS	MG/L	ML/L	JTU	UM/CM	MG/L			---------- MILLIGRAMS PER LITER ----------											
5 1 79	10	0.05			2	126	74	3.11	7.6		39	48	0	0.5	19	0.4					

DATE	AL	B	BA	BE	CA	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	PB	SI	SR	TI	ZN
MO DA YR	---------- MILLIGRAMS PER LITER ----------																			
5 1 79	0.0	0.00			11	0.0	0.00	0.0	1.6		4.8	0.0		6.8	0.02	0.0	2.1		0.0	0.0