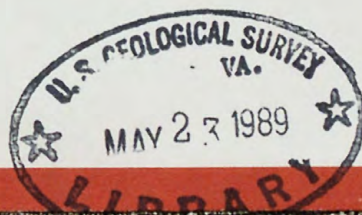
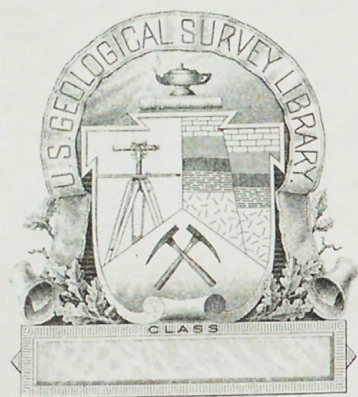


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U. S. Geological Survey.

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GEOLOGICAL SURVEY

[Reports - Open file series]

Analyses

of

Stream sediment, soil, and rock samples

From

New River Gorge area

Fayette, Raleigh, and Summers Counties

West Virginia

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Twanals

4th ed

By David F. Siems, Craig A. Curtis, Jerry M. Motooka,
and Steven K. McDaniel

Open-File Report

OF-77-88

1977

This report is preliminary and has not been
edited or reviewed for conformity with U. S.
Geological Survey standards and nonmenclature

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Analyses of stream sediment, soil, and rock samples from New River Gorge
area, Fayette, Raleigh, and Summers Counties, West Virginia

By

D. F. Siems, C. A. Curtis, J. M. Motooka, and S. K. McDanal

The analyses reported in this open-file report are on samples collected in April 1976 by John P. D'Agostino, George E. Ericksen, Frank G. Lesure, Robert W. Luce, Paul L. Weis, and Jesse W. Whitlow, assisted by Andrew E. Grosz and J. Thomas Hanley, and on a few samples collected in November 1976, by Whitlow and Grosz. Location of samples and discussion of the results are given by Lesure and Whitlow (1977).

The X and Y coordinates are universal transverse mercator (UTM) grid, zone 17. The X coordinate is the easting value and the Y the northing. Because of limitation of the computer program the initial 4 has been dropped from the Northing numbers.

The six-step semiquantitative emission spectrographic analyses (S) were made by D. F. Siems and J. M. Motooka; chemical analyses (AA, atomic absorption) and percent ash were made by C. A. Curtis. Results of the semiquantitative analyses are reported to the nearest number in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, and 0.1, which represent approximate midpoints of group data on a geometric scale. The assigned groups for the series will include quantitative value about 30 percent of the time. The data should not be quoted without stating these limitations. All data in parts per million (ppm) except where indicated as percent. Letter symbols: L, detected but below limit of determination; N, not detected; G, greater than; B, not looked for.

Elements looked for spectrographically but not found and the lower limits of determination: for stream sediments and shale, As (200), Au (10), Bi (10), Cd (20), Sb (100), and W (50); for soils, Ag (.5), As (200), Au (10), Bi (10), Cd (20), Mo (5), Sb (100), Sn (10), Sr (100), W (50), and Zn (200); for sandstone, As (200), Au (10), Bi (10), Cd (20), Mo (5), Sb (100), Sn (10), and W (50); for iron stone concretions, Ag (.5), As (200), Au (10), Bi (10), Cd (20), Mo (5), Nb (20), Sb (100), Sn (10), and W (50); and for coal, Au (10) and Bi (10).

Reference cited

Lesure, F. G., and Whitlow, J. W., 1977, Geochemical sample localities map and distribution of cobalt, chromium, and nickel, New River Gorge area, Fayette, Raleigh, and Summers Counties, West Virginia:
U. S. Geol. Survey Open-File Report, OF-77-76 Map I.

NEW RIVER GORGE -- STREAM SEDIMENTS

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CO
1401	483655	223255	2.0	.30	0.15	.50	500	.5 N	100	500	2.0	15
1402	486885	223590	2.0	.30	0.15	.30	500	.5 N	70	500	2.0	20
1409	487190	219135	3.0	.30	0.15	.50	700	.5 N	100	500	2.0	20
1501	483340	222445	2.0	.20	0.05 L	.20	200	.5 N	15	200	1.0 L	15
1502	483900	222440	3.0	.50	0.10	.50	1000	.5 N	50	700	2.0	20
1503	484375	222020	2.0	.20	0.05	.30	500	.5 N	30	200	1.0	10
1504	484410	220480	3.0	.50	0.10	.50	700	.5 N	50	500	2.0	20
1505	484540	220300	2.0	.20	0.05	.30	700	.5 N	30	300	1.0	15
1506	484620	220290	2.0	.10	0.05 L	.20	500	.5 N	20	100	1.0 L	10
1507	485200	220355	1.5	.10	0.05 L	.20	300	.5 N	30	100	1.0 L	10
1508	485740	220740	2.0	.15	0.05	.20	500	.5 N	50	200	1.5	15
1510	486950	219700	2.0	.15	0.07	.30	300	.5 N	50	150	1.0	15
1511	487040	218750	3.0	.50	0.20	.50	500	.5 N	150	700	5.0	20
1512	487100	218350	1.5	.10	0.05 L	.30	500	.5 N	70	150	1.0	15
1513	487135	218090	2.0	.15	0.05	.20	500	.5 N	50	200	1.0	10
1514	487575	218220	1.5	.10	0.05	.30	1000	.5 N	50	200	2.0	20
1515	487920	217730	2.0	.30	0.10	.50	1500	.5 N	70	500	2.0	20
1516	488180	217720	2.0	.15	0.05 L	.20	700	.5 N	30	150	1.0	20
1517	488480	218110	1.0	.05	0.05 L	.20	300	.5 N	50	100	1.0	10
1518	487050	422076	2.0	.20	0.07	.20	300	.5 N	50	200	1.0	15
1601	484390	222720	2.0	.30	0.15	.50	700	.5 N	100	500	2.0	15
1607	486890	223520	2.0	.30	0.15	.50	500	.5 N	70	500	2.0	15
1608	485580	222920	2.0	.30	0.10	.50	500	.5 N	100	500	2.0	15
1611	484875	221930	3.0	.50	0.15	.50	1000	.5 N	100	500	3.0	30
1612	486990	220500	1.5	.20	0.15	.50	300	.5 N	70	300	1.5	10
1627	486765	221505	2.0	.30	0.50	.50	2000	.5 N	150	1000	2.0	20
1635	486300	221630	2.0	.30	0.15	.50	500	.5 N	100	700	2.0	15
1636	487120	219940	3.0	.50	0.15	.50	700	.5 N	150	700	2.0	20
3405	489340	218610	2.0	.50	0.05	.30	500	.5 N	50	200	1.0	20
3406	490140	217665	1.0	.10	0.05 L	.20	500	.5 N	30	150	1.0	15
3407	490600	217305	1.0	.10	0.05 L	.15	500	.5 N	30	70	1.0	30
3409	491140	215750	1.5	.10	0.07	.50	700	.5	70	300	1.5	20
3410	491815	215310	2.0	.20	0.05	.30	1000	.5 N	70	200	2.0	30
3411	492265	215090	2.0	.20	0.05 L	.20	200	.5 N	30	150	1.0	20
3412	492390	214240	3.0	.50	0.10	.50	1000	.5 N	50	300	2.0	20
3413	497990	206280	2.0	.30	0.05 L	.30	1000	.5 N	30	200	1.5	20
3414	498310	205680	2.0	.15	0.05 L	.20	700	.5 N	30	100	1.0	30
3513	489875	218820	2.0	.20	0.10	.20	700	.5 N	50	200	1.5	15
3514	488570	219180	1.5	.15	0.05	.15	500	.5 N	30	200	1.0	15
3515	489460	218840	1.5	.20	0.20	.20	700	.5 N	50	200	1.5	15
3518	491545	213360	1.5	.10	0.05 L	.20	1000	.5 N	70	100	1.0	30

NEW RIVER GORGE -- STREAM SEDIMENTS

SAMPLE	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-ZN=P
1401	50	10	50	5 N	20 N	20	10	10	10 N	100 L	50	30	200 N	500	65
1402	50	10	50	5 N	20 N	20	10	10	10 N	100	50	30	200 N	300	55
1409	150	30	50	5 N	20 N	30	50	15	10 N	100	100	30	200 N	300	140
1501	50	10	20	5 N	20 L	20	10	5	10 N	100 N	30	10	200 N	70	140
1502	70	30	30	5 N	20 L	50	15	15	10 N	100	100	30	200 N	200	110
1503	50	7	30	5 N	20 L	20	10	10	10 N	100 L	70	50	200 N	200	90
1504	70	20	50	5 N	20 L	30	15	15	10 L	100 L	150	30	200 N	300	100
1505	70	7	50	5 N	20 L	30	15	10	10 N	100 L	70	20	200 N	300	100
1506	20	5	30	5 N	20 L	20	10 L	7	10 N	100 N	50	15	200 N	200	95
1507	20	5	50	5 N	20 L	15	10 L	5	10 N	100 N	30	15	200 N	150	80
1508	30	7	30	5 N	20 L	50	10	10	10 N	100 L	50	15	200 N	300	100
1510	50	7	50	5 N	20 L	15	10	10	10 N	100 L	70	20	200 N	500	70
1511	150	50	50	5 N	20 N	200	20	15	10 N	100	150	50	200 N	300	75
1512	20	5	50	5 N	20 L	20	10 L	10	10 N	100 L	50	20	200 N	200	85
1513	20	10	30	5 N	20 L	20	10 L	10	10 N	100 L	50	20	200 N	200	90
1514	50	5	30	5 N	20 L	20	10 L	10	10 N	100 L	50	20	200 N	200	110
1515	50	10	50	5 N	20 L	50	20	15	10 N	100	100	30	200 N	500	110
1516	30	7	20	5 N	20 L	30	10 L	7	10 N	100 N	50	10	200 N	200	85
1517	10	5	20	5 N	20 L	15	10 L	7	10 N	100 N	30	15	200 N	500	80
1518	100	10	20	5 N	20 L	20	20	15	10 N	100 L	70	30	200 N	700	120
1601	500	15	30	5 N	20 N	20	15	10	10 N	100	70	30	200 N	500	70
1607	70	20	50	5 N	20 N	20	15	10	10 N	100	70	30	200 N	300	75
1608	70	20	30	5 N	20 N	20	15	10	10 N	100	70	30	200 N	300	75
1611	150	30	50	5 N	20 N	50	20	15	10 N	100	100	30	200 N	300	85
1612	100	7	50	5 N	20 N	15	20	7	10 N	100 L	50	20	200 N	300	85
1627	150	20	70	5 N	20 N	20	15	10	10 N	200	70	50	200 N	500	60
1635	100	20	50	5 N	20 N	30	20	15	10 N	100	70	30	200 N	200	90
1636	150	20	50	5 N	20 N	50	50	15	10 N	100	100	30	200 N	500	100
3405	70	20	30	5 N	20 L	50	10	10	10 N	100 N	50	20	200 N	150	120
3406	20	5	20	5 N	20 L	15	10 L	7	10 N	100 N	30	10	200 N	150	140
3407	15	5	20	5 N	20 L	15	10 L	7	10 N	100 N	30	10	200 N	200	80
3409	30	7	30	5 N	20 N	20	15	10	10 N	100 L	50	50	200 N	300	80
3410	50	10	30	5 N	20 L	50	10	10	10 N	100 L	70	15	200 N	500	110
3411	70	10	20	5 N	20 L	30	10	7	10 N	100 N	50	10	200 N	150	100
3412	70	10	30	5 N	20 L	30	10	10	10 N	100 L	50	20	200 N	300	100
3413	50	7	20	5 N	20 L	100	10	7	10 N	100 L	70	20	200 N	500	120
3414	20	5	20	5 N	20 L	50	10 L	5	10 N	100 N	30	10	200 N	500	180
3513	50	10	30	5 N	20 L	30	10	7	10 N	100 L	50	15	200 N	200	140
3514	30	10	20	5 N	20 L	20	15	7	10 N	100 N	30	10	200 N	150	160
3515	300	15	20	5 N	20 L	20	15	7	10 N	100 L	30	10	200 N	150	140
3518	15	5	20	5 N	20 L	20	10 L	7	10 N	100 N	30	10	200 N	150	85

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CU
3510	491415	213375	1.5	.10	0.05	.30	300	.7	50	200	1.0	15
3521	497610	207110	3.0	.50	0.07	.30	1000	.5 N	70	300	3.0	20
3522	497390	207950	3.0	.50	0.05	.20	700	.5 N	50	200	1.5	30
3523	497090	208260	3.0	.50	0.05	.30	700	.5 N	70	300	2.0	20
3524	497000	208410	5.0	.15	0.50	.20	2000	.5 N	50	200	1.0	50
3524A	497000	208410	7.0	.20	1.50	.50	5000	.5 N	50	300	1.5	50
3525	496950	209060	2.0	.20	0.07	.20	700	.5 N	30	150	1.5	20
3526	496480	210880	3.0	.30	0.07	.20	500	.5 N	30	200	1.5	20
3527	494875	210990	1.0	.15	0.05	.20	500	.5 N	30	150	2.0	20
3529	493920	211450	2.0	.30	0.15	.50	1000	.5 N	70	300	2.0	20
3531	493310	212575	2.0	.30	1.00	.50	1000	.5 N	100	300	2.0	20
3601	492835	212700	3.0	.30	0.15	.50	1500	.5	100	500	3.0	30
3602	493215	212975	3.0	.30	0.15	.50	700	.5 N	150	500	2.0	20
3606	492840	213700	2.0	.20	0.10	.50	700	.5 N	70	300	1.5	20
3612	490370	217810	2.0	.30	0.10	.50	1500	.5 N	100	700	5.0	30
3615	490695	217600	3.0	.30	0.15	.50	1500	.5 N	100	500	2.0	30
3616	490780	217540	5.0	.50	0.50	.50	2000	.5 N	150	700	3.0	50
3617	490980	217330	5.0	.70	0.10	.70	1000	.5 N	150	700	3.0	30
3618	491450	216365	1.5	.20	0.20	.50	1500	.5 N	100	700	3.0	30
3619	492210	215400	3.0	.30	0.50	.30	1000	.5 N	100	500	1.5	30
3622	492190	215040	3.0	.50	0.07	.30	1500	.5 N	100	300	3.0	50
3623	492580	214800	2.0	.20	0.07	.30	1000	.5 N	70	300	1.5	20
3624	492680	214490	5.0	.50	1.00	.30	1000	.5 N	100	500	3.0	30
3626	497660	206435	3.0	.30	0.05	.30	3000	.5 N	100	500	2.0	100
3626A	497660	206435	10.0	.20	0.50	.70	5000	.5 N	70	500	2.0	50
3626B	497550	206430	5.0	.20	0.05	.70	5000	.5 N	70	300	2.0	50
3627	497690	206345	3.0	.20	0.07	.30	1000	.5 N	70	300	3.0	30
3631	493440	212760	3.0	.30	0.15	.30	1000	.5 N	100	500	2.0	30
3632	494010	211990	1.0	.05	0.05	.20	700	.5 N	50	200	1.5	10
3633	495795	211460	2.0	.20	0.10	.50	1000	.5 N	100	300	1.5	20
3634	496275	211250	3.0	.50	0.50	.50	1500	.5 N	100	300	3.0	70
3634A	496275	211250	3.0	.50	0.50	.50	1000	.5 L	70	300	3.0	30
3634B	496300	211260	3.0	.50	0.70	.50	1000	.5 N	70	300	3.0	30
3635	497140	210765	2.0	.20	0.10	.30	1000	.5 N	100	300	1.5	20
3636	497340	210370	2.0	.30	0.15	.30	1500	.5 N	100	300	5.0	100
3636A	497340	210370	1.0	.10	0.07	.50	500	.5 L	50	150	1.0	10
3637	497825	209430	1.5	.20	0.15	.30	700	.5 N	150	300	1.5	20
3639	497130	208940	2.0	.30	0.50	.30	700	.5 N	100	300	2.0	20
3640	497680	207940	3.0	.50	0.20	.50	700	.5 N	100	500	2.0	20
3641	497840	207340	2.0	.20	0.10	.50	1000	.5 N	100	300	2.0	20
3642	497990	206445	2.0	.20	0.10	.50	1000	.5 N	100	300	2.0	20

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	S-CR	S-CU	S-LA	S-MU	S-NB	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-ZN=P
3519	20	10	30	5 N	20 L	15	15	10	10 L	100 L	50	20	200 N	500	130
3521	50	20	50	5 N	20	50	15	15	10 N	100	100	30	200 N	200	130
3522	50	20	30	5 N	20 L	50	10	10	10 N	100 L	100	20	200 N	150	130
3523	70	20	30	5 N	20 L	50	10	10	10 N	100 L	100	20	200 N	200	130
3524	30	7	20	5 N	20 L	100	10 L	5	10 N	100	30	10	200 N	300	110
3524A	50	10	20 L	5 N	20 N	200	10	7	10 N	200	50	30	200 N	1000	0 B
3525	30	30	20	5 N	20 L	50	30	7	10	100 L	50	15	200 L	150	270
3526	70	20	30	5 N	20 L	70	15	10	10 N	100 L	70	20	200 N	150	200
3527	20	7	30	5 N	20 L	50	10 L	7	10 N	100 L	30	15	200 N	300	160
3529	70	30	50	5 N	20 L	50	15	10	10 N	100	20	30	200 N	300	90
3531	100	20	50	5 N	20 L	30	15	15	10 N	200	70	50	200 N	300	75
3601	100	30	50	5 N	20 N	150	20	15	10 N	100	100	50	200 N	500	110
3602	100	30	50	5 N	20 N	100	30	15	10 N	100	100	50	200 N	500	95
3606	30	10	50	5 N	20 N	100	10	7	10 N	100 L	70	30	200 N	300	80
3612	100	20	50	5 N	20 N	150	20	10	10 N	100 L	100	30	200 N	200	110
9 3615	150	30	50	5 N	20 N	150	20	15	10 N	100	100	50	200 N	500	55
3616	150	70	50	5 N	20 N	200	50	20	10 N	150	150	30	200 N	300	110
3617	150	30	70	5 N	20	100	20	20	10 N	100	150	70	200 N	500	70
3618	70	20	30	5 N	20 N	150	30	10	10 N	100	70	30	200 N	500	130
3619	500	50	70	5 N	20 N	70	50	10	10 N	100	100	30	200 N	500	75
3622	150	100	70	5 L	20 N	70	70	15	10 N	100	100	30	200 N	200	50
3623	70	30	50	5 N	20 N	70	30	10	15	100 L	70	30	200 N	300	120
3624	150	50	70	5 N	20 N	100	50	15	10 N	100	150	30	200 N	150	100
3626	70	50	70	5 N	20 N	100	50	10	100	100 L	100	30	200 N	500	110
3626A	50	15	20	5 N	20 L	200	10	10	10 N	150	70	20	200 N	500	0 B
3626B	50	20	20	5 N	20 L	50	50	10	20	100 N	70	20	200 N	300	0 B
3627	50	30	50	5 N	20 N	150	15	10	10 N	100 L	70	30	200 N	500	190
3631	100	50	70	5 N	20 N	150	50	15	10 L	100 L	100	50	200 N	300	150
3632	20	7	30	5 N	20 N	7	10	5	10 N	100 L	30	15	200 N	200	60
3633	50	10	50	5 N	20 N	30	10	10	10 N	100 L	100	50	200 N	500	50
3634	150	70	70	5 N	20 N	150	30	15	10 N	100	100	50	200 N	500	200
3634A	100	50	30	5 N	20 L	100	50	10	10 N	100	100	30	200 L	300	0 B
3634B	70	50	30	5 N	20 L	150	30	10	10 N	150	100	30	200 L	300	0 B
3635	100	20	50	5 N	20 N	150	15	10	10 N	100	70	50	200 N	500	80
3636	150	30	50	5 N	20 N	300	15	10	10 N	100	100	50	300	300	310
3636A	20	5	20 N	5 N	20 L	30	10 N	7	10 N	100 N	30	30	200 N	700	0 B
3637	150	10	50	5 N	20 N	50	15	10	10 N	100 L	70	30	200 N	700	80
3639	70	20	50	5 N	20 L	20	15	10	10 N	100	70	30	200 N	200	65
3640	70	30	50	5 N	20 L	30	20	15	10 N	100	70	50	200 N	200	70
3641	30	7	30	5 N	20 L	30	10 L	10	10 N	100 L	70	50	200 N	500	65
3642	50	7	50	5 N	20 L	30	50	10	10 N	100 L	70	50	200 N	500	40

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CO
3701	494920	211250	2.0	.30	0.10	.50	1000	.5 N	100	500	2.0	20
3702	496720	211100	1.5	.07	0.07	.50	1500	.5 N	70	200	3.0	50
3703	497215	210680	2.0	.20	0.07	.50	500	.5 N	100	200	2.0	30
3704	497440	209760	3.0	.50	0.10	.50	1000	.5 N	100	300	2.0	30
3705	498045	209270	2.0	.20	0.07	.50	1000	.5 N	100	300	3.0	30
3706	497475	209540	2.0	.20	0.07	.50	1000	.5 N	50	200	2.0	30
3707	497250	208510	3.0	.50	0.20	.50	1000	.5 N	150	300	2.0	15
3708	497815	207735	3.0	.50	0.10	.50	1000	.5 N	100	300	3.0	30
4201	495345	196400	3.0	.50	0.10	.30	1000	.5 N	70	300	1.5	20
4202	495535	196175	3.0	.30	0.07	.30	1000	.5 N	50	300	1.5	20
4203	496050	196000	3.0	.30	0.07	.30	1000	.5 N	50	500	1.5	20
4204	496510	195890	3.0	.30	0.05	.15	300	.5 N	50	200	1.0	15
4205	497370	195745	3.0	.20	0.20	.50	500	.5 N	50	300	1.0	10
4206	497320	195020	3.0	.30	0.15	.30	1000	.5 N	70	500	2.0	20
4207	494850	194450	1.5	.15	0.05	.30	500	.5 N	50	200	1.0	10
4208	494160	193755	1.5	.15	0.05	.30	1500	.5 N	70	200	1.5	30
4209	494275	192810	2.0	.20	0.20	.50	300	.5 N	20	150	1.0 L	10
4401	497676	203700	2.0	.20	0.05 L	.30	1500	.5 N	50	300	1.5	20
4402	493500	191950	2.0	.15	0.10	.30	300	.5 N	20	200	1.0	15
4403	493935	192250	1.0	.10	0.10	.20	150	.5 N	70	100	1.0 L	5
4501	497355	193875	2.0	.20	0.05	.20	700	.5 N	50	150	1.5	15
4502	496350	194075	2.0	.50	0.10	.30	700	.5 N	50	300	2.0	20
4503	495100	194060	3.0	.30	0.05	.70	200	.5 N	100	300	2.0	20
4504	495035	192470	2.0	.30	0.05	.30	1000	.5 N	50	300	3.0	20
4505	495020	192540	1.5	.20	0.05	.20	500	.5 N	20	200	1.0	15
4506	494535	192040	2.0	.15	0.05	.20	700	.5 N	20	200	1.5	20
4601	497490	204200	1.5	.10	0.20	.20	300	.5 N	30	200	1.5	7
4602	497570	203120	2.0	.30	0.07	.50	500	.5 N	100	300	2.0	20
4603	497660	202650	3.0	.30	0.07	.50	3000	.5 N	150	500	3.0	70
4605	497760	202545	2.0	.30	0.20	.30	700	.5 N	100	300	2.0	30
4606	497800	201930	0.5	.07	0.10	.20	700	.5 N	10	300	3.0	10
4607	496475	201350	5.0	.50	0.30	.70	5000 G	.5 N	70	700	10.0	150
4607A	496475	201350	2.0	.30	0.07	.50	5000 G	.5 N	70	200	3.0	100
4607B	496480	201420	1.5	.15	0.05	.50	5000	.5 N	100	300	2.0	100
4608	494435	201590	1.5	.30	0.15	.30	700	.5 N	100	300	3.0	20
4609	493160	202100	2.0	.10	0.10	.50	1000	.5 N	150	200	1.5	20
4610	492440	201440	2.0	.20	1.00	.30	150	1.0	50	300	3.0	50
4610A	492440	201440	3.0	.20	0.20	.50	2000	.5	70	200	3.0	50
4611	492380	201400	2.0	.20	0.05 L	.50	2000	.5 N	100	300	3.0	30
4612	492910	199640	3.0	.50	0.10	.50	1000	.5 N	100	500	3.0	20
4613	491520	199000	3.0	.30	0.05	.50	5000	.5 N	100	300	2.0	200

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-FB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-ZN=P
3701	100	50	50	5 N	20 L	30	20	15	10 N	100	70	50	200 N	200	60
3702	70	10	30	5 N	20 L	70	10	7	10 N	100 L	100	20	200 N	500	110
3703	100	7	50	5 N	20 L	100	10	10	10 N	100	70	30	200 N	1000	80
3704	150	30	50	5 N	20 L	70	15	15	10 N	100	100	50	200 N	300	75
3705	70	30	50	5 N	20 L	70	20	10	10 N	100 L	70	50	200 N	500	180
3706	70	20	30	5 N	20 L	70	10	7	10 N	100 L	50	20	200 N	300	140
3707	100	30	50	5 N	20 L	50	30	10	10	100	70	30	200 N	300	80
3708	100	30	50	5 N	20 L	70	15	15	10 N	100	100	50	200 N	200	110
4201	100	30	30	5 N	20 N	50	20	10	10 N	100 L	100	20	200 N	150	100
4202	70	20	30	5 N	20 N	50	15	10	10 N	100 L	100	20	200 N	200	95
4203	100	30	50	5 N	20 N	50	10	10	10 N	100 L	100	20	200 N	150	95
4204	70	20	30	5 N	20 N	50	10	7	10 N	100 N	70	15	200 N	150	85
4205	30	5	30	5 N	20 N	20	10 L	10	10 N	100	70	15	200 N	150	65
4206	50	20	50	5 N	20 N	30	10	10	10 N	100 L	100	30	200 N	200	95
4207	50	5	30	5 N	20 N	15	10 L	7	10 N	100 L	50	15	200 N	300	65
4208	20	5	50	5 N	20 N	30	10 L	7	10 N	100 L	50	20	200 N	150	90
4209	15	5	100	5 N	20 N	15	10 L	10	10 N	100 L	50	20	200 N	1000	90
4401	50	20	30	5 N	20 N	20	15	10	10	100 L	70	30	200 N	500	100
4402	30	10	30	5	20 N	20	10 L	10	10 N	100 L	50	15	200 N	200	85
4403	10	5 L	20	5 N	20 N	7	10 L	5	10 N	100 L	15	10	200 N	150	55
4501	70	7	30	5 N	20 L	50	10 L	10	10 N	100 L	50	15	200 N	200	110
4502	70	20	30	5 N	20 L	50	10	15	10 N	100 L	100	20	200 N	100	120
4503	150	30	50	5	20 L	50	15	15	10 N	100	150	50	200 N	300	55
4504	50	20	30	5 N	20 L	50	10	10	10 N	100 L	70	20	200 N	200	150
4505	30	7	20	5 N	20 L	20	10	7	10 N	100 N	50	15	200 N	200	120
4506	30	5	30	5 N	20 L	20	10 L	10	10 N	100 L	70	15	200 N	200	80
4507	30	10	30	5 N	20 N	15	10	7	10 N	100 L	30	20	200 N	100	75
4602	100	10	50	5 N	20 L	30	10	10	10 N	100	70	50	200 N	500	55
4603	100	30	30	5 N	20 L	150	10	15	10 N	100 L	100	70	200 N	500	120
4605	100	20	50	5 N	20 N	30	15	15	10 N	100	70	30	200 N	200	65
4606	15	5	50	5 N	20 L	20	10 N	7	10 N	100 L	30	15	200 N	150	170
4607	70	30	100	5 N	20	300	15	15	10 N	100	150	50	500	700	340
4607A	100	15	30	5 N	20 L	100	20	10	10 N	100 L	70	30	200 N	500	0 B
4607B	100	15	30	5 N	20 L	50	15	10	10 N	100 N	70	30	200 N	500	0 B
4608	100	20	50	5 N	20 N	30	20	15	10 N	100	70	50	200 N	200	65
4609	30	7	30	5	20 N	50	10	7	10 N	100	50	30	200 N	300	70
4610	70	50	50	5 N	20 L	100	20	7	10 N	100	50	50	200	300	250
4610A	50	30	30	5 N	20 L	100	150	10	150	100 N	70	50	200	700	0 B
4611	50	15	30	5 N	20 N	50	10	10	10 N	100 L	70	50	200 N	300	80
4612	150	50	100	5 N	20 L	70	20	15	10 N	150	100	30	200 N	200	90
4613	100	30	50	5 N	20 L	70	20	10	10 N	100 L	100	50	200 N	300	70

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-PB	S-CU
4613A	491520	199020	3.0	.15	0.05 L	.50	5000 G	.5 N	70	200	2.0	200
4618	490980	198520	3.0	.20	0.05	.70	5000	.5 N	70	300	5.0	70
4619	490925	198545	2.0	.20	0.07	.70	3000	.5 N	100	300	3.0	50
4620	490980	198580	2.0	.15	0.05	.50	2000	.5 N	100	200	1.5	30
4621	490980	198510	2.0	.20	0.05	.50	3000	.5 N	70	300	3.0	50
4701	497540	203450	2.0	.30	0.10	.30	1000	.5 N	70	500	2.0	15
4703	497100	203250	2.0	.20	0.07	.20	300	.5 N	20	150	1.0	15
4704	495385	203480	2.0	.20	0.20	.50	1500	.5 N	100	700	3.0	30
4705	494280	201640	1.5	.30	10.00	.15	300	.5 N	15	150	1.0	15
4706	493810	202020	2.0	.30	0.50	.30	500	1.0	100	500	3.0	10
4707	492545	201790	3.0	.50	0.15	.50	1000	.5 N	100	500	3.0	20
4708	492680	200795	5.0	.50	0.15	.50	1000	.5 N	100	500	3.0	30
4801	497480	200850	2.0	.15	0.05 L	.20	200	.5 N	100	150	1.0	15
4802	494540	201220	3.0	.50	0.05	.30	500	.5 N	70	500	1.0	20
4803	495940	201200	2.0	.20	0.07	.20	1500	.5 N	50	200	2.0	50
4804	496735	200950	1.5	.10	0.05 L	.20	1000	.5 N	50	100	2.0	50
4805	498525	201540	2.0	.15	0.05 L	.20	700	.5 N	70	150	1.0	20
4805A	498525	201520	2.0	.20	0.05	.50	1000	.5 N	100	300	1.5	20
4806	498560	201670	2.0	.30	0.05 L	.30	5000 G	.5 N	50	300	2.0	200
4806A	498560	201670	2.0	.15	0.05	.50	3000	.5 N	100	200	1.5	70
4807	497990	201100	2.0	.15	0.05 L	.20	1000	.5 N	50	200	1.5	20
4808	498180	199080	1.5	.10	0.05 L	.20	200	.5 N	50	100	1.0 L	10
4809	493720	200435	2.0	.15	0.05 L	.30	2000	.5 N	50	200	2.0	30
4810	493880	199950	2.0	.20	0.05	.20	300	.5 N	50	150	1.0	15
4811	494200	198950	2.0	.30	0.05	.20	1000	.5 N	50	200	1.5	20
4812	494330	198000	2.0	.20	0.05	.30	1500	.5 N	100	200	2.0	20
4813	494280	199635	1.5	.20	0.10	.20	1500	.5 N	30	200	5.0	30
4814	494520	199120	2.0	.02	0.05 L	.20	1000	.5 N	20	50	2.0	15
4815	494580	198620	1.5	.20	0.05	.30	5000 G	.5 N	70	100	5.0	200
4815A	494580	198620	2.0	.30	0.05	.50	5000 G	.5 N	70	300	5.0	150
4816	494880	197500	1.5	.10	0.05 L	.20	500	.5 N	50	70	1.0	15
4817	496160	196370	2.0	.20	0.20	.30	700	.5 N	50	100	1.5	15
4818	496720	196170	3.0	.70	0.20	.30	500	.5 N	100	150	2.0	20
4819	498680	196410	2.0	.15	0.05	.15	500	.5 N	30	70	1.0	20
4820	498695	196360	2.0	.15	0.05	.20	300	.5 N	50	70	1.0	15
4821	498160	194980	2.0	.15	0.05	.20	700	.5 N	50	70	1.0	15
4822	497540	196150	1.5	.15	0.05	.15	300	.5 N	50	70	1.0	15
4823	494870	196720	1.5	.15	0.05	.30	1500	.5 N	50	100	2.0	30
4824	489720	197210	1.5	.10	0.05 L	.20	200	.5 N	70	50	1.0	10
4824A	489720	197210	3.0	.20	0.05 L	.50	300	.5 N	50	300	1.5	10
4825	489690	197200	1.5	.07	0.05 L	.20	3000	.5 N	15	50	7.0	150

NEW RIVER GORGE -- STREAM SEDIMENTS--CONT--

SAMPLE	S=CR	S=CU	S=LA	S=MO	S=NB	S=NI	S=PB	S=SC	S=SN	S=SR	S=V	S=Y	S=ZN	S=ZK	AA=ZN=P
4613A	50	20	30	5 N	20 L	70	20	10	10 N	100 N	70	50	200 N	300	0 B
4618	70	20	30	5 N	20 L	150	20	15	10 N	100 N	100	50	200 N	500	0 B
4619	70	15	30	5 N	20 L	150	15	15	10 N	100 N	100	50	200 N	700	0 B
4620	30	15	20 L	5 N	20 L	30	10	10	10 N	100 N	70	30	200 N	700	0 B
4621	150	15	30	5 N	20 L	100	20	10	10 N	100 N	70	30	200 N	300	0 B
4701	70	30	30	5 N	20 L	50	30	10	10 L	100	70	30	200 N	300	90
4703	50	10	20	5 N	20 L	20	10	7	10	100 N	50	20	200 N	150	100
4704	150	30	50	5 N	20 L	100	20	10	10 N	100	70	30	200 N	700	95
4705	20	10	30	5 N	20 L	15	10	7	10 N	700	30	10	200 N	70	100
4706	50	20	50	5 N	20 L	50	10	10	10 N	100	100	20	200 N	150	110
4707	100	30	70	5 N	20 L	50	20	15	10 N	100	100	50	200 N	500	60
4708	150	30	50	5 N	20 L	50	20	15	10 N	100	100	50	200 N	500	75
4801	50	7	30	5 N	20 N	20	10 L	7	10 N	100 N	50	15	200 N	300	100
4802	70	30	50	5 N	20 N	30	20	15	10 N	100	100	30	200 N	150	120
4803	50	20	30	5 N	20 N	70	15	10	10 N	100 L	50	20	200 N	200	170
4804	30	7	20	5 N	20 N	100	10 L	5	10 N	100	20	15	300	150	340
4805	30	7	20	5 N	20 N	30	10 L	7	10 N	100 N	30	10	200 N	150	100
4805A	70	15	20	5 N	20 L	50	10 L	15	10 N	100 N	100	30	200 N	700	0 B
4806	70	20	50	5 N	20 N	70	20	10	10 N	100 L	100	30	200 N	200	140
4806A	70	15	20	5 N	20 L	30	15	15	10 N	100 N	70	30	200 N	700	0 B
4807	50	10	20	5 N	20 N	70	10	7	10 N	100 N	50	10	200 N	150	150
4808	30	7	20	5	20 N	15	10 L	5	10 N	100 N	20	10	200 N	200	60
4809	30	20	50	5 N	20 N	70	10	10	10 N	100 L	70	20	200 N	200	120
4810	50	15	30	5 N	20 N	30	10	7	10 N	100 N	30	20	200 N	200	110
4811	70	10	20	5 N	20 N	50	10	10	10 N	100 L	50	30	200 N	150	95
4812	50	7	30	5 N	20 N	50	10	10	10 N	100 L	50	30	200 N	200	130
4813	50	20	30	5 N	20 N	100	15	10	10 N	100 L	50	20	200	100	260
4814	20	7	30	5 N	20 N	70	10 L	5	10 N	100 L	30	15	200 N	100	220
4815	50	50	50	5 N	20 N	100	20	15	10 N	100 L	50	30	200 N	700	280
4815A	70	50	30	5 N	20 L	100	30	15	10 N	100 N	70	50	200 L	300	0 B
4816	30	7	20	5 N	20 N	50	10 L	7	10 N	100 N	30	15	200 N	200	120
4817	50	20	50	5 N	20 N	30	20	10	10 N	100	50	30	200 N	200	85
4818	100	50	50	5 N	20 N	70	20	20	10 N	150	100	30	200 N	150	110
4819	70	7	20	5 N	20 N	50	10 L	10	10 N	100 N	30	15	200 N	150	120
4820	100	10	20	5 N	20 N	30	10 L	10	10 N	100 L	30	20	200 N	200	100
4821	50	7	20	5 N	20 N	50	10 L	10	10 N	100 L	30	15	200 N	150	110
4822	30	10	20	5 N	20 N	50	10 L	7	10 N	100 L	50	10	200 N	100	100
4823	50	7	20	5 N	20 N	70	10 L	10	10 N	100 L	30	70	200 N	150	110
4824	70	5	150	5 N	20 N	10	10 L	7	10 N	100 L	30	20	200 N	150	55
4824A	100	20	30	5 N	20 L	15	10	10	10 N	100 N	70	30	200 N	1000	0 B
4825	10	20	20	5 N	20 N	100	10 L	5	10 N	100 N	20	20	200	200	260

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CO
4P25A	489690	197200	3.0	.20	0.07	.30	5000 G	.5 N	70	300	5.0	150
4826	490000	198190	3.0	.15	0.05	.20	5000 G	.5 N	20	150	2.0	300
4826A	490000	198190	7.0	.20	0.10	.50	5000 G	.5 N	70	300	3.0	500
4827	490480	198210	1.5	.10	0.05 N	.15	2000	.5 N	20	50	1.0 L	200
4827A	490880	198210	2.0	.30	0.05 L	.50	1500	.5 N	100	300	3.0	30
4827b	490950	198140	2.0	.20	0.05 L	.50	5000	.5 N	70	300	2.0	200
4828	919200	419942	2.0	.15	0.05 L	.30	1500	.5 N	20	150	1.5	50
4829	492400	199295	1.5	.07	0.05 L	.20	2000	.5 N	20	50	1.0	50
4830	492580	199720	1.5	.15	0.10	.20	700	.5 N	30	150	1.5	15
4831	493570	202820	2.0	.15	0.20	.30	1000	.5 N	30	100	2.0	20
4832	491260	202530	1.5	.07	0.05	.20	1000	.5 N	30	50	1.0 L	15
4864	489940	198290	10.0	.30	0.15	.50	5000 G	.5 N	70	500	3.0	500
4864A	489940	198290	7.0	.30	0.07	.50	5000 G	.5 N	70	500	3.0	200
4865	489940	198770	2.0	.07	0.05 L	.70	100	.5 N	20	150	1.0 L	5 N
4867	489335	198820	3.0	.10	0.07	.50	5000	.5 N	70	300	3.0	50
4872	491440	199090	5.0	.30	0.05	.50	5000 G	.5 N	70	500	3.0	700
4873	491465	199110	2.0	.20	0.05	.70	2000	.5 N	70	500	3.0	30
4874	491475	198630	3.0	.20	0.05 L	.50	5000 G	.5 N	70	300	7.0	500
4875	490900	201900	3.0	.20	0.05 L	.70	5000	.5 N	70	300	1.5	150
4879	489675	199480	2.0	.20	0.05 L	.70	100	.5 N	100	300	1.5	10
4882	497360	210400	2.0	.20	0.30	.50	2000	.5 L	100	500	3.0	20
5210	487045	185890	2.0	.20	0.10	.50	1500	.5 N	100	300	2.0	50
5211	487435	188798	5.0	.30	0.15	.50	2000	.5 N	150	500	2.0	50
5212	488910	186030	1.5	.15	0.05	.30	300	.5 N	70	200	1.5	10
5607	467160	185885	7.0	.03	0.20	.15	3000	.5 N	20	300	1.5	30
5608	487455	185890	3.0	.20	0.10	.50	1000	.5 N	100	300	2.0	30
5609	488160	186080	5.0	.50	0.20	.50	1500	.5 N	70	700	5.0	30
5610	488345	186245	3.0	.20	0.20	.50	1000	.5 N	70	500	2.0	30
5611	488580	186290	2.0	.30	0.10	.50	700	.5 N	100	300	2.0	20
6101	494080	191150	3.0	.30	0.10	.50	3000	.5 N	70	500	2.0	30
6108	494025	189590	1.5	.30	0.05	.50	700	.5 N	100	500	1.5	15
6109	495640	190010	3.0	.30	0.10	.30	700	.5 N	70	500	2.0	15
6110	496385	189410	2.0	.20	0.07	.30	700	.5 N	50	300	1.5	15
6111	499680	188760	2.0	.20	0.10	.30	1500	.5 N	70	500	3.0	50
6112	497970	189020	2.0	.30	0.10	.30	1000	.5 N	70	300	2.0	20
6113	498220	189820	2.0	.20	0.15	.20	1000	.5 N	50	300	2.0	15
6301	499100	186480	1.5	.15	0.05	.15	1000	.5 N	50	70	1.0	20
6302	495460	186640	2.0	.30	0.05	.20	700	.5 N	50	200	1.0	15
6303	495285	186590	2.0	.30	0.10	.30	700	.5 N	50	300	3.0	15
6304	499230	186015	2.0	.50	0.10	.30	700	.5 N	50	300	1.5	20
6305	499360	185450	2.0	.30	0.10	.30	500	.5 N	70	300	1.5	20

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-ZN-P
4825A	30	30	30	5 N	20 L	200	15	7	10 N	100 N	70	50	200	1000	0 B
4826	50	30	20	5 N	20 N	200	10	10	10 N	100 L	30	30	300	100	260
4826A	50	30	30	5 N	20 L	200	20	10	10 N	100 N	100	50	200 N	1000	0 B
4827	100	10	20 L	5 N	20 N	30	10	7	10 N	100 N	20	15	200 N	150	80
4827A	50	30	30	5 N	20 L	30	20	15	10 N	100 N	70	50	200 N	700	0 B
4827B	50	20	20	5 N	20 L	30	20	10	10 N	100 N	70	30	200 N	300	0 B
4828	20	7	20	5 N	20 L	50	10 L	7	10 N	100 L	30	30	200 N	700	200
4829	15	5	20	5 N	20 N	70	10 L	7	10 N	100 L	20	15	200 N	200	140
4830	70	7	20	5 N	20 N	30	10	10	10 N	100 L	20	15	200 N	200	90
4831	50	10	50	5 N	20 N	70	10 L	10	10 N	100 L	30	30	200 N	1000	110
4832	20	5	20	5 N	20 N	20	10 L	7	10 N	100 N	20	15	200 N	500	90
4864	70	50	30	5 N	20 L	200	30	15	10 N	100 N	100	30	200	300	0 B
4864A	70	30	30	5 N	20 L	150	20	10	10 N	100 N	100	30	200 L	300	0 B
4866	30	10	20	5 N	20 L	10	10 N	7	10 N	100 N	50	15	200 N	200	0 B
4867	50	10	20	5 N	20 L	200	10 N	7	10 N	100 N	50	30	200 L	1000	0 B
4872	70	50	50	5 N	20 L	150	50	15	10 N	100 N	100	50	200 L	200	0 B
4873	70	7	20	5 N	20 L	100	10	10	10 N	100 N	70	30	200 N	700	0 B
4874	70	70	30	5 N	20 L	200	50	15	10 N	100 N	70	50	500	200	0 B
4875	50	15	30	5 N	20 L	70	20	10	10 N	100 N	100	30	200 N	1000	0 B
4879	50	15	20	5 N	20 L	7	15	15	10 N	100 N	100	100	200 N	700	0 B
4882	70	20	30	5 N	20 L	50	30	15	10 N	100	100	50	200 N	500	0 B
5210	50	50	50	5 N	20 N	100	30	10	10 N	100	70	30	200 N	500	170
5211	100	30	50	5 N	20 N	70	20	15	10 N	100	70	50	200 N	300	130
5212	30	7	30	5 N	20 N	15	10 L	7	10 N	100 L	50	20	200 N	300	60
5607	15	5	20	5 N	20 N	50	10	5	10 N	300	20	20	200 N	100	50
5608	150	30	30	5 N	20 N	70	20	15	10 N	100	70	50	200 N	300	110
5609	70	50	100	5 N	20 L	70	30	15	10 N	100	150	30	200 N	200	80
5610	100	30	50	5 N	20 N	50	20	10	10 N	100	70	30	200 N	200	70
5611	100	10	50	5 N	20 N	50	15	10	10 N	100	70	30	200 N	700	65
6101	70	20	20	5 N	20 N	50	10	10	10 N	100 L	70	20	200 N	300	70
6108	50	20	30	5 N	20 N	20	15	10	10 N	100 L	70	50	200 N	300	50
6109	70	10	30	5 N	20 L	20	10	10	10 N	100 L	100	20	200 N	300	110
6110	50	15	30	5 N	20 N	20	15	10	10 N	100 L	50	20	200 N	150	65
6111	70	50	50	5 N	20 N	100	30	10	10 N	100	70	30	200	300	240
6112	50	7	50	5 N	20 L	30	10 L	10	10 N	100 L	70	30	200 N	200	110
6113	70	7	30	5 N	20 L	20	10	10	10 N	100	50	30	200 N	500	110
6301	15	5	20	5 N	20 N	30	10 L	7	10 N	100 N	20	10	200 N	100	150
6302	50	10	20	5 N	20 L	50	10	7	10 N	100 N	50	20	200 N	150	110
6303	30	30	30	5 N	20 L	30	10	10	10 N	100 L	50	15	200 N	300	110
6304	50	20	30	7	20 L	50	15	10	10	100 L	50	15	200 N	200	130
6305	70	30	30	5 N	20 L	30	10	10	10 N	100 L	50	20	200 N	200	100

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CO
6306	499275	184875	1.5	.30	0.05	.30	500	.5 N	50	300	1.5	15
6307	498755	184080	1.5	.20	0.05 L	.20	300	.5 N	30	150	1.0	20
6308	497670	183600	3.0	.50	0.10	.30	1500	.5 N	100	300	1.5	50
6309	497520	183410	3.0	.50	0.15	.30	1000	.5 N	70	500	2.0	20
6310	497360	182455	3.0	.30	0.05 L	.20	300	.5 N	50	300	1.0	20
6311	497380	181450	2.0	.15	0.05	.30	300	.5 N	70	200	1.5	15
6312	497145	180755	1.5	.10	0.05 L	.20	500	.5 N	50	150	1.0	15
6313	961800	417941	1.5	.20	0.07	.30	2000	.5 N	70	200	2.0	50
6314	499840	187030	2.0	.20	0.10	.20	300	.5 N	50	200	1.0	20
6315	498625	186830	1.5	.30	0.20	.15	300	.5 N	30	200	1.0	15
6316	497970	186810	3.0	.50	0.10	.30	500	.5 N	70	300	1.0	20
6317	497300	186930	2.0	.30	0.07	.30	500	.5 N	50	200	1.0	20
6318	496780	187170	2.0	.20	0.05	.20	500	.5 N	50	150	1.0	20
6319	496120	187320	2.0	.20	0.10	.20	500	.5 N	50	200	1.0	15
6320	495520	186630	1.5	.20	0.05	.20	500	.5 N	50	150	1.0	15
6321	495730	188855	2.0	.20	0.05	.30	1000	.5 N	100	300	1.5	30
6322	495920	189140	2.0	.20	0.07	.30	1000	.5 N	50	200	2.0	30
6401	491080	190115	1.5	.15	0.05	.30	500	.5 N	70	500	1.5	15
6402	491590	190235	1.5	.15	0.10	.30	500	.5 N	50	300	1.5	15
6403	492140	190280	1.5	.20	0.10	.50	500	.5 N	100	300	2.0	15
6404	493460	191550	1.5	.15	0.05	.50	700	.5 N	50	300	2.0	15
6523	489980	188305	2.0	.20	0.15	.30	700	.5 N	100	200	2.0	20
6532	489720	180970	1.5	.05	0.07	.20	1500	.5 N	15	300	1.5	30
6536	494760	181890	1.5	.10	0.07	.50	200	.5 N	50	150	1.0	7
6543	493160	187200	1.0	.05	0.05	.30	700	.5 N	20	300	1.0	10
6545	492315	185485	1.5	.07	0.07	.50	100	.5 N	50	300	1.5	10
6601	489860	186400	3.0	.50	0.15	.70	1000	.5 N	150	500	2.0	20
6603	491860	186360	1.5	.20	0.15	.50	500	.5 N	70	300	2.0	15
6604	490980	186040	1.5	.20	0.07	.50	500	.5 N	100	200	1.5	15
6606	491090	187090	1.5	.20	0.10	.30	150	.5 N	50	300	1.5	10
6607	491820	187670	1.5	.20	0.05	.50	300	.5 N	150	300	1.5	10
6608	491860	188640	2.0	.30	0.10	.30	500	.5 N	70	300	1.5	20
7101	508785	181655	1.5	.30	0.15	.50	500	.5 N	100	300	2.0	10
7102	508080	182020	0.7	.05	0.10	.15	150	.5 N	15	150	1.5	5 L
7103	506940	185160	1.5	.10	0.05	.30	300	.5 N	50	200	1.0	15
7104	507115	185290	2.0	.30	0.05	.30	700	.5 N	70	300	2.0	10
7105	507480	185420	2.0	.30	0.15	.30	700	.5 N	100	500	2.0	10
7106	508290	185840	1.5	.15	0.10	.30	1000	.5 N	70	300	3.0	30
7107	508800	187090	1.5	.15	0.20	.30	1500	.5 N	50	300	2.0	10
7108	509110	187240	1.5	.10	0.07	.50	1000	.5 N	70	200	2.0	30
7109	509735	187370	2.0	.30	0.10	.50	1500	.5 N	70	300	2.0	30

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-ZN=P
6306	30	20	30	5 N	20 L	30	10	10	10 N	100 L	50	20	200 N	200	120
6307	20	7	20	5 N	20 L	20	10 L	7	10 N	100 N	30	15	200 N	200	100
6308	50	10	30	5 N	20 L	70	10	10	10 N	100 L	70	20	200 N	150	170
6309	70	20	50	5 N	20 L	50	15	15	10 N	100	70	20	200 N	150	110
6310	70	10	30	5 N	20 L	30	10	10	10 N	100 L	70	15	200 N	150	110
6311	20	7	20	5 N	20 L	30	10 L	10	10 N	100 L	50	15	200 N	300	120
6312	15	5	30	5 N	20 L	15	10 L	7	10 N	100 L	30	15	200 N	200	80
6313	30	10	50	5 N	20 N	70	10 L	7	10 N	100 L	50	30	200 N	300	170
6314	50	20	30	5 N	20 L	30	10	10	10 N	100 N	50	15	200 N	150	120
6315	70	20	20	5 N	20 L	15	10	7	10 N	100 L	50	10	200 N	70	140
6316	70	20	50	5 N	20 L	50	15	15	10 N	100 L	100	20	200 N	200	110
6317	50	15	30	5 N	20 L	50	10	10	10 N	100 L	70	20	200 N	200	95
6318	30	15	20	5 N	20 L	50	10 L	7	10 N	100 N	50	10	200 N	150	100
6319	70	20	30	5 N	20 L	50	20	7	10 N	100 L	50	15	200 N	100	95
6320	50	30	20	5 N	20 L	30	10	7	10 N	100 N	50	15	200 N	200	80
6321	50	15	50	5 N	20 L	70	10 L	10	10 N	100 L	70	20	200 N	500	110
6322	50	50	70	5 N	20 L	100	10	10	10	100 L	50	30	200 N	500	220
6401	20	7	50	5 N	20 N	20	10	7	10 N	100 L	50	15	200 N	150	70
6402	30	30	30	5 N	20 N	30	30	7	10 L	100 L	50	20	200 L	70	95
6403	50	10	50	5 N	20 N	20	10	10	10 N	100 L	70	30	200 N	300	55
6404	50	5	50	5 N	20 N	30	10 L	7	10 N	100 L	50	30	200 N	500	75
6523	50	20	30	5 N	20 N	70	20	7	10 N	100	50	20	200 L	150	110
6532	70	5	20	5 N	20 N	15	15	5	10 N	100 L	30	15	200 N	150	110
6536	70	7	30	5 N	20 N	10	15	7	10 N	100 L	50	30	200 N	500	40
6543	30	5 L	20	5 N	20 N	10	10 L	5	10 N	100 L	30	10	200 N	500	40
6545	30	7	30	5 N	20 N	10	10	5	10 N	100 L	30	20	200 N	200	40
6601	100	30	50	5 N	20 N	50	20	15	10 N	100 L	100	50	200 N	300	65
6603	150	20	30	5 N	20 N	30	10	10	10 N	100	70	30	200 N	500	60
6604	50	10	50	5 N	20 N	30	10	10	10 N	100 L	70	30	200 N	300	50
6606	50	20	30	5 N	20 N	30	15	7	10 N	100	50	20	200 N	500	50
6607	150	7	30	5 N	20 N	15	10 L	7	10 N	100 L	50	50	200 N	700	40
6608	70	10	30	5 N	20 N	30	10	10	10 N	100	70	30	200 N	300	280
7101	30	20	30	5 N	20 N	15	20	10	10 N	100	70	50	200 N	300	50
7102	15	5	20	5 N	20 N	7	10 N	7	10 N	100 L	30	10	200 N	150	50
7103	30	10	30	5 N	20 N	10	10 L	10	10 N	100 L	50	30	200 N	300	30
7104	30	10	30	5 N	20 N	20	10	10	10 N	100	70	20	200 N	200	55
7105	30	20	50	5 N	20 N	20	10	10	10 N	100	70	30	200 N	200	50
7106	20	10	30	5 N	20 N	50	10	7	10 N	100	50	20	200 N	300	120
7107	20	10	30	5 N	20 N	15	10 L	7	10 N	100 L	50	20	200 N	100	60
7108	20	30	30	5 N	20 N	50	10 L	7	10 N	100 L	50	20	200 N	300	130
7109	50	30	50	5 N	20 N	50	30	10	10 N	100 L	70	30	200 N	300	160

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CO
7110	507360	184140	2.0	.30	0.15	.50	700	.5 N	70	200	1.0	10
7111	507355	184200	2.0	.30	0.10	.50	300	.5 N	100	200	1.5	10
7112	510390	182200	3.0	.50	0.10	.50	700	.5 N	150	300	2.0	15
7113	509650	183160	3.0	.20	0.10	.30	300	.5 N	70	300	1.5	15
7114	510010	182840	2.0	.30	0.10	.50	500	.5 N	100	200	1.5	10
7115	509920	182830	2.0	.20	0.20	.50	500	.5 N	100	200	1.5	10
7116	183230	509360	1.5	.20	0.15	.50	700	.5 N	50	200	2.0	20
7117	509540	183690	1.5	.20	0.15	.50	500	.5 L	70	300	1.5	10
7132	509400	186440	2.0	.10	0.10	.50	300	.5 N	70	200	1.5	10
7133	509670	186580	3.0	.20	0.20	.50	500	.5 N	70	300	2.0	15
7134	509820	186660	1.5	.10	0.05	.50	200	.5 N	100	200	1.5	5
7135	509960	186700	3.0	.30	0.15	.50	2000	.5 N	100	500	2.0	30
7136	510100	186720	1.5	.10	0.05	.50	700	.5 N	50	200	2.0	20
7137	510490	186800	1.5	.10	0.07	.50	500	.5 N	70	300	1.5	10
7138	510630	183960	2.0	.30	0.10	.50	700	.5 N	100	300	1.5	15
7139	506680	187445	1.5	.20	0.05 L	.50	300	.5 N	100	700	2.0	10
7140	506105	187500	1.5	.10	0.05	.50	200	.5 N	70	500	1.5	7
7141	505730	187590	2.0	.20	0.05	.70	150	.5 N	100	500	2.0	10
7142	505460	187590	3.0	.30	0.05	.70	150	.5 N	100	700	2.0	7
7143	505185	187685	2.0	.15	0.05	.50	300	.5 N	150	700	2.0	10
7144	504640	187995	2.0	.20	0.07	.50	500	.5 N	70	700	2.0	15
7145	504595	188280	2.0	.20	0.10	.50	1000	.5 N	100	700	1.5	15
7146	507350	182000	2.0	.30	0.15	.70	500	.5 L	70	300	1.5	10
7147	507270	182115	2.0	.10	0.05 L	.50	100	.5 N	50	300	2.0	50
7301	508435	181405	2.0	.20	0.20	.30	300	.5 N	50	200	1.0	10
7302	508740	181085	2.0	.30	0.10	.30	500	.5 N	70	200	1.0	20
7303	508900	180790	3.0	.70	0.20	.30	1000	.5 N	70	500	1.5	20
7304	509000	180510	3.0	.50	0.20	.50	700	.5 N	70	300	2.0	15
7305	509040	179960	3.0	.70	0.10	.30	1000	.5 N	50	300	1.5	15
7306	508855	179500	2.0	.50	0.20	.20	700	.5 N	50	300	1.5	20
7307	508490	179110	3.0	.70	0.10	1.00	700	.5 N	70	500	3.0	20
7308	508405	178980	2.0	.20	0.07	.30	500	.5 N	50	200	1.5	15
7309	508060	178825	3.0	.30	0.10	.30	700	.5 N	50	200	1.5	20
7310	507320	178430	2.0	.30	0.10	.30	300	.5 N	70	200	1.0	15
7311	507025	178250	2.0	.50	0.15	.50	700	.5 N	70	300	1.5	20
7312	506820	177950	3.0	.70	0.15	.70	1000	.5 N	100	500	2.0	30
7313	502555	186875	2.0	.20	0.15	.30	500	.5 N	30	300	1.5	10
7314	502740	186865	3.0	.50	0.50	.70	700	.5 N	50	500	1.5	15
7315	503390	186585	3.0	.70	0.20	.50	700	.5 N	100	500	2.0	20
7316	503620	186405	2.0	.30	0.30	.70	700	.5 N	100	500	1.5	15
7317	503790	186235	3.0	.50	0.20	.50	1000	.5 N	150	300	2.0	20

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	S=CR	S=CU	S=LA	S=MO	S=NB	S=NI	S=PB	S=SC	S=SN	S=SR	S=Y	S=Y	S=ZN	S=ZR	AA=ZN=P
7110	50	15	50	5 N	20 N	10	10	10	10 N	100	70	20	200 N	300	50
7111	200	15	50	5 N	20 N	15	10	10	10 N	100	70	30	200 N	500	40
7112	70	30	50	5 N	20	30	20	15	10 N	100	100	30	200 N	200	55
7113	100	30	50	5 N	20	10	15	10	10 N	100 L	70	30	200 N	200	45
7114	50	20	30	5 N	20	15	10	10	10 N	100	70	50	200 N	500	35
7115	70	10	30	5 N	20 N	15	10	10	10 N	100	70	20	200 N	300	40
7116	50	10	30	5 N	20 L	20	10 L	10	10 N	100 N	70	30	200 N	500	50
7117	50	10	20	5 N	20 L	15	10 L	15	10 N	100 L	70	50	200 N	300	60
7132	30	7	50	5 N	20 N	15	10 L	10	10 N	100 L	70	30	200 N	300	30
7133	50	20	50	5 N	20 N	20	15	10	10 N	100 L	70	30	200 N	500	70
7134	50	15	50	5 N	20	10	10	10	10 N	100 L	50	30	200 N	300	40
7135	100	30	50	5 N	20	30	20	15	10 N	100 L	70	50	200 N	500	70
7136	30	10	50	5 N	20 N	15	15	10	10 N	100 L	50	30	200 N	500	50
7137	30	10	50	5 N	20 N	15	10	10	10 N	100 L	50	30	200 N	500	45
7138	100	15	50	5 N	20 N	20	15	10	10 N	100 L	70	30	200 N	300	45
7139	50	7	30	5 N	20 L	15	15	10	10 N	100 L	70	30	200 N	300	40
7140	20	5	30	5 N	20 L	10	10	7	10 N	100 L	50	50	200 N	700	30
7141	50	10	50	5 N	20 L	15	20	10	10 N	100 L	100	50	200 N	300	45
7142	100	20	50	5 N	20 L	15	20	10	10 N	100 L	100	50	200 N	500	40
7143	50	10	50	5 N	20 L	15	15	10	10 N	100 L	70	50	200 N	500	40
7144	70	15	50	5 N	20 L	20	20	10	10 N	100 L	70	50	200 N	700	60
7145	70	15	50	5 N	20 L	15	30	10	10 N	100 L	70	50	200 N	500	65
7146	50	10	20	5 N	20 L	15	10 L	15	10 N	100 L	70	30	200 N	200	40
7147	30	20	50	5 N	20 L	20	10 L	10	10 N	100 L	70	30	200 N	300	45
7301	30	5	20	5 N	20 L	15	10	7	10 N	100 L	50	10	200 N	200	120
7302	50	20	30	5 N	20 L	30	10	10	10 N	100 L	70	20	200 N	200	100
7303	50	30	30	5 N	20 L	30	15	10	10 N	100	70	20	200 N	150	120
7304	50	20	50	5 N	20 L	20	10	10	10 N	100	70	20	200 N	200	85
7305	50	30	20	5 N	20 L	30	10	10	10 N	100 L	70	20	200 N	150	120
7306	30	20	30	5 N	20 L	20	15	10	10 N	100 L	50	20	200 N	150	100
7307	70	30	100	5 N	20 N	50	20	15	10 N	100	150	30	200 N	1000	0 B
7308	50	15	20	5 N	20 L	15	10	10	10 N	100 L	50	15	200 N	200	60
7309	50	20	30	5 N	20 L	20	15	10	10 N	100 L	50	20	200 N	200	95
7310	50	15	20	5 N	20 L	20	10	10	10 N	100 L	50	20	200 N	200	90
7311	70	20	30	5 N	20 L	20	10 L	15	10 N	100	100	30	200 N	200	60
7312	100	30	50	5 N	20	30	10	20	10 N	150	100	70	200 N	300	65
7313	20	5	20 L	5 N	20 L	15	10 L	7	10 N	100 L	50	15	200 N	200	70
7314	50	10	20	5 N	20	20	10	15	10 N	100	100	20	200 N	500	80
7315	100	30	30	5 N	20 L	50	10	15	10 N	100	150	30	200 N	700	90
7316	70	7	30	5 N	20	20	10 L	15	10 N	100	100	30	200 N	700	60
7317	70	20	50	5 N	20 L	20	10	15	10 N	100	100	50	200 N	1000	65

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CO
7318	504240	185836	2.0	.30	0.10	.50	500	.5 N	70	300	1.5	20
7319	504345	185705	2.0	.30	0.20	.50	700	.5 N	70	300	1.5	15
7320	504985	185360	3.0	.50	0.15	.50	700	.5 N	100	300	1.5	20
7321	505320	185245	2.0	.30	0.20	.50	700	.5 N	100	300	2.0	15
7322	505740	184900	3.0	.30	0.20	.50	700	.5 L	100	300	1.5	20
7323	506255	184420	3.0	.30	0.20	.50	700	.5 N	100	300	1.5	20
7324	506500	183725	1.5	.20	0.10	.50	500	.5 N	50	200	1.5	10
7325	506720	182830	2.0	.30	0.15	.50	700	.5 N	100	300	2.0	15
7326	507380	182060	2.0	.30	0.15	.50	300	.5 N	70	300	1.5	15
7327	508480	179560	2.0	.30	0.10	.50	300	.5 N	70	200	1.5	15
7336	504425	180040	2.0	.10	0.05	.50	100	.5 N	70	200	1.5	10
7337	504060	180300	1.5	.07	0.05	.50	150	.5 N	100	200	1.5	10
7338	502640	180385	1.0	.07	0.05 L	.50	70	.5 N	100	150	1.0	5
7339	503340	181880	0.3	.05	0.05 L	.50	50	.5 N	70	70	1.0	5 L
7340	503900	182340	1.0	.05	0.05	.20	150	.5 N	20	100	1.0	5 L
7341	502800	181770	0.7	.05	0.05	.30	150	.5 N	50	100	1.5	7
7342	501710	181300	1.0	.05	0.05	.30	70	.5 N	50	150	1.0	5
7343	502695	185990	2.0	.15	0.10	.50	500	.5 N	70	300	1.5	10
7344	502600	186400	2.0	.10	0.10	.50	700	.5 N	50	300	1.5	20
7345	501315	186400	1.5	.10	0.05	.50	500	.5 N	50	200	1.5	15
7346	500970	186425	2.0	.15	0.10	.50	1000	.5 N	50	300	2.0	20
7347	500460	186340	2.0	.15	0.10	.50	700	.5 N	70	200	1.5	15
7348	506120	185040	2.0	.30	0.15	.50	700	.5 N	70	300	2.0	15
7349	505945	185145	2.0	.20	0.15	.30	500	.5 N	50	200	2.0	10
7350	505540	185440	2.0	.30	0.15	.30	500	.5 N	70	200	2.0	7
7351	505400	185500	3.0	.50	1.00	.30	700	.5 N	100	300	3.0	15
7352	505010	185600	2.0	.30	0.20	.30	1000	.5 N	70	300	1.5	15
7353	504615	185705	2.0	.30	0.20	.30	500	.5 N	70	300	2.0	10
7354	504350	186100	3.0	.50	0.50	.50	500	.5 N	100	300	3.0	20
7355	504280	186150	2.0	.30	0.10	.50	700	.5 N	70	300	2.0	20
7356	503440	186860	2.0	.20	0.15	.50	500	.5 N	70	200	2.0	10
7357	503125	187080	1.5	.10	0.10	.30	300	.5 N	70	150	1.5	10
7358	502710	187150	2.0	.20	0.20	.50	500	.5 N	70	200	2.0	15
7359	502210	187200	2.0	.50	0.20	.30	300	.5 N	100	300	3.0	15
7360	501380	187130	1.5	.20	0.15	.30	500	.5 N	70	300	2.0	10
8301	509360	169965	7.0	1.00	0.30	.50	1000	.5 N	100	700	5.0	20
8302	509690	170140	5.0	.70	0.30	.30	500	.5 N	50	700	5.0	20
8303	509810	170160	2.0	.50	0.20	.50	700	.5 N	100	700	3.0	10
8304	509870	170175	3.0	1.00	0.15	.30	700	.5 N	100	700	2.0	20
8305	510285	170370	5.0	.70	0.15	.30	700	.5 N	150	700	2.0	20
8306	510545	171500	3.0	.50	0.15	.50	700	.5 N	100	500	2.0	15

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-ZN-P
7318	50	10	30	5 N	20 L	20	10	10	10 N	100 L	70	30	200 N	300	70
7319	50	10	30	5 N	20 L	20	10	15	10 N	100	100	50	200 N	700	95
7320	70	20	50	5 N	20 L	30	10	15	10 N	100 L	100	50	200 N	500	80
7321	100	30	30	5 N	20 L	20	20	10	10 N	100	70	50	200 N	200	70
7322	100	30	50	5 N	20 L	30	20	15	10 N	100	100	30	200 N	200	75
7323	100	30	50	5 N	20 L	30	20	15	10 N	100	100	50	200 N	300	75
7324	20	7	30	5 N	20 L	15	10	7	200	100	70	20	200 N	300	65
7325	100	10	50	5 N	20 L	20	10	10	10 N	100	70	50	200 N	500	60
7326	50	10	30	5 N	20 L	20	10 L	10	10 N	100	70	30	200 N	1000	70
7327	50	20	30	5 N	20 L	20	10 L	10	10 N	100	70	30	200 N	300	55
7336	50	7	50	5 N	20 L	15	10 L	10	10 N	100 L	70	50	200 N	500	45
7337	50	5	30	5 N	20	5	10 L	10	10 N	100 L	70	50	200 N	1000	30
7338	15	7	30	5 N	20	5	10 L	7	10 N	100 L	50	30	200 N	300	25
7339	10	5 N	20	5 N	20 L	5 L	10 L	5	10 N	100 N	20	30	200 N	1000	15
7340	10 L	5 L	20	5 N	20 L	5	10 L	5	10 N	100 N	20	15	200 N	300	30
7341	10 L	5 L	50	5 N	20 L	5	10 L	5	10 N	100 L	20	15	200 N	200	30
7342	10	5	30	5 N	20 L	5	10 L	7	10 N	100 N	30	20	200 N	300	40
7343	30	10	70	5 N	20 L	15	10	10	10 N	100 L	50	30	200 N	300	90
7344	20	10	50	5 N	20 L	20	10	10	10 N	100 L	50	30	200 N	500	80
7345	20	7	30	5 N	20 L	10	10 L	10	10 N	100 L	30	20	200 N	500	55
7346	30	15	50	5 N	20 L	15	10	10	10 N	100	50	20	200 N	150	65
7347	20	10	50	5 N	20 L	15	10	10	10 N	100 L	50	20	200 N	200	60
7348	50	30	50	5 N	20 L	15	50	10	10 N	100	50	30	200 N	200	100
7349	30	15	30	5 N	20 L	15	15	10	10 N	100	50	20	200 N	150	50
7350	30	15	50	5 N	20 L	15	10	10	10 N	100	50	20	200 N	100	65
7351	70	20	50	5 N	20 L	30	20	15	10 N	100	70	30	200 N	100	60
7352	150	20	50	5 N	20 L	20	20	7	10 N	100	50	20	200 N	200	50
7353	70	20	30	5 N	20 L	20	15	10	10 N	100	70	20	200 N	150	75
7354	100	50	50	5 N	20 L	30	30	15	10 N	150	100	30	200 N	200	90
7355	50	7	50	5 N	20 L	30	10	10	10 N	100 L	70	30	200 N	500	60
7356	30	10	50	5 N	20 L	20	10	10	10 N	100	70	20	200 N	500	55
7357	30	5	30	5 N	20 L	15	10 L	5	10 N	100 L	30	20	200 N	300	50
7358	50	10	30	5 N	20 L	20	10	10	10 N	100 L	70	20	200 N	500	60
7359	100	30	50	5 N	20 L	30	20	15	10 N	100	70	30	200 N	200	65
7360	50	15	30	5 N	20 L	20	15	10	10 N	100	70	20	200 N	200	60
8301	70	50	50	5 N	20 L	70	15	20	10 N	150	200	30	200 N	200	80
8302	70	30	70	5 N	20 L	50	15	20	10 N	150	150	30	200 N	100	95
8303	50	20	30	5 N	20 L	20	10	15	10 N	100	100	30	200 N	100	85
8304	100	30	30	5 N	20 L	50	20	15	10 N	100	150	30	200 N	100	80
8305	150	30	50	5 N	20 L	50	20	15	10 N	100	150	30	200 N	300	65
8306	100	20	30	5 N	20	30	15	10	10 N	100	70	30	200 N	500	65

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CU
8307	509965	172100	5.0	.50	0.15	.30	1000	.5 N	100	500	2.0	20
8308	509550	172600	3.0	.30	0.10	.30	700	.5 N	70	500	1.5	15
8309	509515	172900	3.0	.30	0.20	.20	2000	.5 N	70	700	3.0	15
8310	509450	173240	1.5	.20	0.15	.30	500	.5 N	50	300	1.5	10
8311	509380	173940	2.0	.30	0.15	.50	500	.5 N	100	300	1.5	10
8312	509285	174620	3.0	.30	0.20	.50	1000	.5 N	100	500	2.0	20
8313	508830	175180	3.0	.50	0.20	.50	700	.5 N	100	300	2.0	20
8314	508480	175410	5.0	.30	0.15	.50	150	.5 N	70	300	2.0	15
8315	508125	175680	0.7	.05	0.07	.20	200	.5 N	50	150	1.0	5 L
8316	507700	176005	2.0	.30	0.15	.30	500	.5 N	70	300	2.0	10
8317	507410	176100	2.0	.30	0.10	.30	700	.5 N	70	300	2.0	15
8318	506540	177325	1.5	.20	0.07	.30	700	.5 N	50	300	2.0	7
8319	506570	177530	3.0	.50	0.10	.50	1000	.5 N	100	300	2.0	20
8327	506570	173000	3.0	.30	0.05	.50	2000	.5 N	70	300	2.0	30
8331	507520	173280	2.0	.30	0.15	.70	1000	.5 N	100	500	2.0	20
8332	508180	173165	3.0	.30	0.15	.50	2000	.5 N	100	700	3.0	50
8333	508500	172910	2.0	.20	0.10	.50	1000	.5 N	70	500	2.0	20
8334	508620	172530	3.0	.50	0.10	.50	700	.5 N	100	300	2.0	30
8346	501910	175680	1.5	.10	0.05	.50	700	.5 N	70	200	1.5	30

NEW RIVER GORGE -- SOILS

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-B	S-BA
6546	492220	186210	1.0	.05	.10	.7	150	100	300
6556	491780	180160	1.5	.10	.05	.5	70	70	500

NEW RIVER GORGE -- STREAM SEDIMENTS--CONTINUED

SAMPLE	S-CR	S-CU	S-LA	S-MU	S-NB	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-ZN=P
8307	100	20	50	5 N	20 L	30	30	15	10 N	100	100	50	200 N	300	120
8308	100	20	50	5 N	20 L	30	15	10	10 N	100 L	70	50	200 N	500	60
8309	50	30	30	5 N	20 L	30	50	15	10 N	100	100	30	200 N	70	120
8310	100	15	30	5 N	20 L	15	15	10	10 N	100 L	70	20	200 N	500	45
8311	150	15	30	5 N	20 L	20	15	10	10 N	100	70	30	200 N	500	60
8312	100	20	50	5 N	20 L	30	15	15	10 N	100	100	50	200 N	300	80
8313	70	30	50	5 N	20 L	30	15	15	10 N	100	100	50	200 N	300	65
8314	150	15	30	5 N	20 L	30	10	15	10 N	100 L	100	20	200 N	500	55
8315	30	5	30	5 N	20 L	7	10 L	5	10 N	100 L	30	15	200 N	200	60
8316	50	15	30	5 N	20 L	20	10	10	10 N	100	70	30	200 N	300	55
8317	70	20	30	5 N	20 L	30	15	10	10 N	100 L	70	30	200 N	500	75
8318	30	10	30	5 N	20 L	15	10	10	10 N	100 L	70	30	200 N	300	55
8319	100	30	30	5 N	20 L	30	15	20	10 N	100	100	30	200 N	300	55
8327	100	30	30	5 N	20 L	50	20	20	10 N	100 L	150	30	200 N	200	75
8331	100	20	50	5 N	20 L	50	15	15	10 N	100 L	100	50	200 N	500	60
8332	150	30	50	5 N	20 L	150	15	20	10 N	100	150	50	200 N	1000	150
8333	100	30	50	5 N	20 L	30	20	15	10 N	100 L	100	50	200 N	700	50
8334	100	30	50	5 N	20 L	50	15	20	10 N	100	150	50	200 N	300	65
8346	30	7	50	5 N	20 L	30	10 L	7	10 N	100 L	50	70	200 N	700	65

NEW RIVER GORGE -- SOILS

SAMPLE	S-BE	S-CO	S-CR	S-CU	S-LA	S-NB	S-NI	S-PB	S-SC	S-V	S-Y	S-ZR	AA-ZN=P
6546	1	5	30	5	30	20	5	10	7	50	30	500	30
6556	1	5	50	7	30	20 N	10	10	7	50	30	500	40

NEW RIVER GORGE -- SANDSTONE AND SILTSTONE

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-Ti%	S-MN	S-AG	S-B	S-BA
1403	487155	221290	2.00	.15	0.05	.200	100	.5 N	30	150
1405	487010	221240	5.00	.30	0.05 L	.300	500	.5 N	30	300
1407	486950	221220	3.00	.30	0.05 L	.300	150	.5 N	50	200
1509	486610	220690	5.00	.10	0.07	.100	2000	.5 N	20	200
1604	484100	222760	2.00	.30	0.05	.200	500	.5 N	50	300
1605	484100	222690	.10	.03	0.07	.100	100	.5 N	20	50
1613	486990	220500	.70	.03	0.05 N	.070	200	.5 N	10	100
1615	486990	220540	.70	.15	0.05 L	.300	200	.5 N	50	100
1616	487050	220765	.10	.02	0.05 L	.030	10	.5 N	30	50
1617	487060	220860	.30	.05	0.05 L	.150	50	.5 N	30	50
1618	487090	221000	2.00	.10	0.05 L	.100	150	.5 N	30	100
1619	487200	220910	1.00	.10	0.05 L	.200	100	.5 N	30	100
1620	487100	221300	3.00	.15	0.05 L	.200	500	.5 N	50	200
1624	486860	221290	2.00	.30	0.05	.500	300	.5 N	100	200
1628	486620	221330	2.00	.20	0.07	.200	500	.5 N	30	150
1637	484240	230680	2.00	.30	0.07	.300	100	.5 N	50	300
1638	484240	230680	2.00	.20	0.07	.150	500	.5 N	20	500
1639	484240	230680	2.00	.30	0.07	.200	300	.5 N	20	300
1640	484240	230680	1.50	.20	0.10	.200	300	.5 N	30	300
1642	484240	230680	3.00	.70	0.10	.300	300	.5 N	70	500
1646	484240	230680	1.50	.30	0.07	.300	200	.5 N	50	300
1647	484240	230680	2.00	.50	0.10	.300	300	.5 N	30	300
1648	484240	230680	2.00	.20	0.07	.200	300	.5 N	20	300
1649	484240	230680	2.00	.30	0.30	.200	500	.5 N	20	300
1651	484240	230680	5.00	1.00	1.00	.300	700	.5 N	50	300
1652	484240	230680	2.00	.30	0.05	.200	150	.5 N	30	700
1653	484240	230680	2.00	.50	0.10	.300	300	.5 N	30	200
1654	484240	230680	7.00	.50	0.10	.300	2000	.5 N	50	500
1655	484240	230680	1.00	.20	0.20	.200	200	.5 N	15	200
1656	484240	230680	3.00	.50	0.10	.500	500	.5 N	50	300
3401	492900	214220	2.00	.30	0.07	.300	300	.5 N	70	200
3415	497100	205720	2.00	.10	0.05 N	.200	150	.5 N	30	150
3416	497135	205675	1.00	.15	0.05 L	.200	200	.5 N	30	150
3501	493020	213190	.20	.05	0.05 L	.150	100	.5 N	20	50
3502	492995	213240	.50	.15	0.05 L	.200	100	1.5	30	100
3504	492940	213300	3.00	.50	0.07	.300	500	.5 N	70	300
3505	492910	213340	5.00	.50	0.07	.300	500	.5 N	70	300
3507	492860	213400	2.00	.15	0.05 L	.200	700	.5 N	50	150
3509	492825	213480	2.00	.20	0.05 L	.200	500	.5 N	30	150
3511	492810	213545	.50	.03	0.10	.150	300	.5 N	10	70
3607	492810	213645	1.00	.10	0.05 L	.150	200	.5 N	20	70

NEW RIVER GORGE -- SANDSTONE AND SILTSTONE

SAMPLE	S=RE	S=CU	S=CR	S=CU	S=LA	S=NB	S=NI	S=PB	S=SC	S=SR	S=V	S=Y	S=ZN	S=ZR	AA=ZN=P
1403	1.5	5	20	5	20	20 L	15	10	7	100 L	50	15	200 N	200	30
1405	2.0	15	30	7	30	20 L	30	10	10	100 L	70	30	200 N	300	70
1407	2.0	10	30	5	30	20 L	15	10 L	10	100 L	70	20	200 N	500	60
1509	3.0	30	70	20	20	20 L	50	15	7	100 L	30	20	200	100	240
1604	1.5	10	70	7	20	20 L	20	10 L	10	100 L	70	20	200 N	200	70
1605	1.0 L	5 N	20	5 N	20	20 L	5	10 L	5	100 L	15	10	200 N	70	20
1613	1.0 L	5 N	10	5 N	20 L	20 L	5	10 L	5	100 L	15	10	200 N	150	5
1615	1.0	10	70	5 N	20 L	20 L	5	10 L	10	100 L	50	15	200 N	1000	10
1616	1.0 L	5 L	10 L	5 N	20	20 L	5	10 L	5 L	100 L	15	10 L	200 N	100	5
1617	1.0	5 L	15	5 N	20	20 L	5	10 L	5	100 L	20	10	200 N	200	5
1618	2.0	5	10	5 L	20	20 L	7	10 L	5	100 L	20	10	200 N	70	20
1619	1.0	5 L	15	5 N	50	20	5	10 L	5	100 L	30	15	200 N	200	10
1620	2.0	15	50	7	50	20 L	20	10	10	100 L	70	20	200 N	200	40
1624	1.5	15	70	5	100	20	15	10	10	100 L	100	50	200 N	1000 G	50
1628	2.0	15	15	5	20	20 L	15	10	7	100 L	50	15	200 N	1000	45
1637	2.0	15	20	5	50	20 L	15	10 L	10	100 L	70	20	200 N	300	40
1638	2.0	10	10	5 L	30	20 L	10	10	5	100	50	15	200 N	150	30
1639	2.0	10	15	5 L	50	20 L	10	10	7	100 L	50	15	200 N	100	30
1640	2.0	10	10	5 L	30	20 L	10	10	5	100	50	15	200 N	100	40
1642	5.0	20	50	30	70	20 N	30	15	15	100	150	30	200 N	200	110
1646	2.0	15	20	10	50	20 L	15	10	10	100	100	30	200 N	500	70
1647	2.0	15	20	7	30	20	15	10 L	10	100	100	15	200 N	200	50
1648	3.0	10	10	5 L	30	20 L	10	10	7	100 L	50	15	200 N	100	30
1649	2.0	10	10	5 L	50	20 L	10	10 L	5	100	50	15	200 N	100	35
1651	3.0	15	20	15	70	20 L	15	10	15	100	70	30	200 N	500	50
1652	1.5	10	20	5 L	20	20 L	15	10 L	5	100 L	50	15	200 N	100	35
1653	2.0	10	15	5	30	20 L	15	10	10	100 L	70	20	200 N	200	60
1654	7.0	15	20	50	50	20 L	30	10	15	100 L	70	30	200 N	300	130
1655	1.0	5	10	5	20	20 N	5	10 L	7	100	30	15	200 N	200	30
1656	2.0	10	20	5	70	20 L	15	10 L	10	100 L	70	30	200 N	200	55
3401	1.0	15	20	7	70	20 L	20	10 L	15	100	100	30	200 N	700	40
3415	1.5	5 L	20	5 L	50	20 L	5	10	10	100 L	150	15	200 N	200	15
3416	1.0	10	15	5 L	20	20 N	10	10 L	7	100 L	30	15	200 N	200	20
3501	1.0 L	5 L	10 L	5 L	20	20 L	5	10 L	7	100 L	20	10	200 N	150	20
3502	1.0	7	10	5 L	20	20 L	10	10	7	100 L	30	20	200 N	200	25
3504	2.0	15	50	20	50	20 L	30	10	15	100 L	100	30	200 N	300	110
3505	2.0	20	50	20	50	20 L	50	10	15	100 L	100	30	200 N	300	90
3507	1.0	20	15	7	20	20 L	20	10	7	100 L	30	20	200 N	300	60
3509	1.5	10	20	5 L	20	20 L	15	10	7	100 L	50	15	200 N	100	25
3511	1.0 L	5 L	20	5 L	20	20 L	10	10 L	5	100 L	20	10	200 N	100	10
3607	1.0	5	10	5 L	20	20 L	10	10 L	7	100 L	30	15	200 N	200	25

NEW RIVER GORGE -- SANDSTONE AND SILTSTONE--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA
3609	492890	214140	.70	.10	0.05 L	.100	200	.5 N	20	50
3610	492960	213805	1.00	.10	0.05 L	.300	1000	.5 N	50	200
3611	493320	213300	.10	.02	0.05 L	.100	20	.5 N	10	20
4604	797760	202545	2.00	.20	0.10	.300	150	.5 N	30	50
4614	496215	201640	3.00	.30	0.10	.200	1500	.5 N	20	150
4615	496215	201640	.70	.15	0.05	.150	200	.5 N	15	70
4616	495385	202830	2.00	.20	0.07	.200	500	.5 N	30	100
4617	495365	202830	1.50	.20	10.00	.100	700	.5 N	10	50
4702	497765	202540	3.00	.20	0.30	.300	300	.5 N	30	50
4837	494800	201805	5.00	.50	0.05	.300	700	.5 N	50	300
4840	494915	201770	5.00	.30	0.05	.300	1000	.5 N	50	300
4841	495100	201800	3.00	.15	0.05 L	.200	700	.5 N	30	200
4842	495230	201850	1.50	.02	0.05 L	.100	150	.5 N	10	200
4843	495385	202830	3.00	.50	0.05	.500	300	.5 N	100	300
4845	495385	202830	1.00	.20	0.10	.200	150	.5 N	50	200
4858	490960	198510	3.00	.70	0.07	.500	700	.5 N	100	300
4859	490960	198510	1.50	.20	0.20	.300	700	.5 L	50	200
4861	490960	198510	2.00	.15	0.05 L	.500	300	.5 N	20	200
4871	489815	197480	1.50	.20	0.05	.500	200	.5 L	50	150
6103	493600	189570	.70	.02	0.05 L	.050	200	.5 N	10 L	20
6104	493850	189600	1.50	.15	0.07	.300	300	.5 N	30	300
6107	494010	189590	1.50	.20	0.20	.200	300	.5 N	20	200
6501	491640	188180	5.00	.70	0.10	.500	150	.5 N	100	300
6503	491320	188180	2.00	.50	0.15	.300	200	.5 N	50	150
6506	490940	188230	2.00	.50	10.00	.300	2000	.5 N	50	100
6508	490720	188240	2.00	.30	0.20	.300	150	.5 N	50	200
6510	490720	188240	.70	.10	0.05 L	.150	500	.5 N	10	150
6511	490670	188230	2.00	.20	0.30	.300	300	.5 N	30	200
6513	490520	188210	3.00	.20	0.10	.200	500	.5 N	30	200
6514	490285	188210	2.00	.30	0.10	.300	500	.5 N	50	300
6517	490240	188210	2.00	.50	0.07	.300	200	.5 N	50	500
6520	490100	188200	3.00	.70	0.10	.500	500	.5 N	50	500
6522	490030	188240	2.00	.30	0.10	.500	500	.5 N	50	300
6527	489320	188440	3.00	.50	0.10	.300	500	.5 N	70	200
6528	489260	188540	2.00	.30	0.05 L	.200	300	.5 N	20	150
6530	488450	188705	1.00	.20	0.05 L	.150	200	.5 N	15	100
6537	493920	182950	.70	.05	0.05 L	.150	20	.5 N	15	30
6538	494460	188760	.70	.05	0.05	.100	100	.5 N	15	30
6542	493680	188320	5.00	1.00	0.07	.300	1000	.5 N	100	500
6544	492320	187620	5.00	.70	0.10	.500	500	.5 N	70	500
6550	491300	184075	.20	.02	0.05 N	.070	10	.5 N	10	20

NEW RIVER GORGE -- SANDSTONE AND SILTSTONE--CONTINUED

SAMPLE	S=HE	S=CU	S=CR	S=CU	S=LA	S=NB	S=NI	S=PB	S=SC	S=SR	S=V	S=Y	S=ZN	S=ZK	AA=ZN-P
3609	1.0	5 L	10	5 L	20	20 L	10	10 L	5	100 L	30	15	200 N	70	10
3610	1.0	5	100	5 L	30	20 L	15	10 L	7	100 L	50	15	200 N	1000	20
3611	1.0 L	5 N	15	5 L	20	20 L	5	10 L	5	100 L	20	10	200 N	100	15
4604	1.0	5	70	5	20	20 L	15	10 L	7	100 L	70	15	200 N	500	25
4614	2.0	5	15	5 L	20	20 L	10	10 L	7	100 L	50	15	200 N	100	15
4615	1.0	7	10 L	5 L	20	20 L	10	10 L	5	100 L	20	10	200 N	100	20
4616	1.5	10	20	5	30	20 L	10	10 L	7	100 L	50	20	200 N	300	25
4617	1.0	15	20	5 L	20	20 L	10	10 L	5	200	20	10	200 N	200	45
4702	1.0	5	50	5	20	20 L	15	10 L	7	100	50	20	200 N	500	25
4837	5.0	15	70	20	30	20 L	50	15	10	100 L	100	20	200 N	200	60
4840	5.0	15	20	15	30	20 L	15	15	10	100 L	70	20	200 N	200	55
4841	3.0	20	20	5	20	20 L	15	10	7	100 L	70	15	200 N	150	40
4842	1.0 L	5 N	15	5 L	20	20 L	5	10 L	5	100 L	10	10	200 N	200	10
4843	5.0	20	70	30	50	20 L	30	10	15	100 L	150	30	200 N	300	55
4845	2.0	5	10	5 L	30	20 L	5	10 L	7	100 L	30	15	200 N	100	25
4858	3.0	20	70	20	50	20 L	50	15	15	100 L	100	20	200 N	200	0 B
4859	1.5	10	30	15	30	20 N	15	10 N	7	100 N	50	20	200 N	150	0 B
4861	1.0 L	10	50	5 L	20 N	20	10	10 N	5	100 N	50	20	200 N	1000 G	0 B
4871	1.0	10	30	5	20 N	20 L	20	10 L	7	100 N	70	15	200 N	300	0 B
6103	1.0 L	5 N	10 L	5 L	20	20 L	10	10 L	5	100 L	20	10	200 N	70	15
6104	1.5	15	70	7	20	20 N	70	10 L	10	100	70	20	200 N	1000	140
6107	1.0	10	20	5	20	20 L	5	10 L	7	100 L	50	20	200 N	300	30
6501	2.0	20	70	10	50	20 L	50	10	15	100	150	30	200 N	200	55
6503	1.5	15	30	7	30	20 L	20	10	10	100 L	100	20	200 N	500	45
6506	1.0	10	50	5	50	20 L	10	10	7	200	50	30	200 N	500	60
6508	1.5	20	50	20	50	20 L	30	10 L	10	100 L	100	30	200 N	500	60
6510	1.0	10	10	5	20	20 L	15	15	7	100 L	30	10	200 N	70	40
6511	2.0	15	20	10	50	20 L	20	10	10	100	70	50	200 N	200	50
6513	1.5	10	10	5	20	20 L	10	10	7	100 L	50	15	200 N	200	40
6514	2.0	15	50	10	50	20 L	15	10	10	100	70	30	200 N	500	60
6517	2.0	15	50	15	50	20 L	20	15	10	100 L	70	20	200 N	300	80
6520	2.0	20	50	10	50	20 L	30	10	15	100 L	100	30	200 N	300	70
6522	2.0	10	20	5	50	20 L	10	10	10	100 L	50	20	200 N	300	40
6527	7.0	10	20	20	30	20 L	20	15	10	100 L	70	30	200 N	300	65
6528	2.0	10	20	5 L	20	20 L	15	10	7	100 L	50	15	200 N	200	40
6530	1.5	5	10	5 L	20	20 L	10	10	5	100 L	20	15	200 N	150	25
6537	1.0 L	5 N	20	5 N	20	20 L	5	10 L	5	100 L	15	10 L	200 N	200	10
6538	1.0	10	15	5 L	20	20 L	5	10 N	5	100 L	20	10 L	200 N	150	10
6542	5.0	20	70	30	50	20 L	50	15	15	100	150	30	200 N	200	90
6544	5.0	20	50	30	50	20 L	50	15	15	100	150	30	200 N	200	110
6550	1.0 L	5 N	10	5 L	20	20 L	5	10 N	5	100 L	15	10 N	200 N	70	10

NEW RIVER GORGE -- SANDSTONE AND SILTSTONE--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA
6555	493010	183560	.50	.02	0.05 N	.150	10	.5 N	10	20 L
6605	490980	186040	1.00	.20	2.00	.150	1000	.5 N	15	100
6609	495240	181280	.05	.02	0.05 N	.070	10	.5 N	15	20
6610	495240	181280	.05 L	.02	0.05 N	.015	10 L	.5 N	10	20 L
6611	495900	181680	.05	.02	0.05 N	.150	10 L	.5 N	20	20 L
6612	494110	183460	.10	.02	0.05 L	.050	20	.5 N	10	20
6614	494110	183460	1.00	.20	0.07	.200	200	.5 N	50	150
6616	494110	183460	1.00	.15	0.10	.300	150	.5 N	20	100
6617	494110	183460	1.00	.15	0.05	.150	150	.5 N	15	150
6619	494110	183460	2.00	.30	0.07	.200	300	.5 N	20	200
6623	494110	183460	7.00	.70	3.00	.300	1000	.5 N	50	300
6625	494110	183460	5.00	1.00	0.30	.500	700	.5 N	70	700
6633	494110	183460	2.00	.30	0.20	.500	150	.5 N	50	300
6637	494110	184460	2.00	.50	0.05 L	.700	150	.5 N	50	500
6644	494110	184460	3.00	.30	0.15	.300	500	.5 N	20	200
6645	494110	184460	2.00	.20	0.07	.300	300	.5 N	20	150
6647	494110	184460	3.00	.50	0.10	.300	500	.5 N	30	200
6650	494110	184460	5.00	.70	0.20	.500	1000	.5 N	50	300
6654	494110	184460	2.00	.50	0.30	.300	150	.5 N	50	500
6655	494110	184460	2.00	.50	0.20	.300	500	.5 N	30	200
7120	508680	184990	2.00	.50	0.10	.300	1000	.5 N	50	300
7130	507630	184420	2.00	.30	0.10	.300	700	.5 N	50	200
7328	508225	179980	3.00	.70	0.05	.500	700	.5 N	100	300
7329	508305	179925	2.00	.50	0.30	.200	1000	.5 N	50	200
7330	508405	179780	3.00	.50	0.15	.300	300	.5 N	70	300
7331	508460	179700	3.00	.70	2.00	.300	700	.5 N	50	300
7332	508525	179660	3.00	.70	0.10	.300	700	.5 N	50	300
8101	501740	177820	2.00	.20	0.07	.200	200	.5 N	20	100
8103	501740	177820	1.00	.10	0.07	.300	150	.5 N	20	300
8106	501740	177820	2.00	.50	0.20	.300	500	.5 N	50	300
8107	501740	177820	7.00	.70	0.20	.500	700	.5 N	50	500
8108	501740	177820	5.00	.70	0.20	.300	300	.5 N	50	500
8111	501740	177820	5.00	.70	0.30	.300	1000	.5 N	50	300
8113	501740	177820	2.00	.70	1.00	.300	300	.5 N	50	200
8114	501740	177820	3.00	.70	1.00	.500	300	.5 N	50	200
8320	504020	173860	.20	.03	0.05 N	.150	150	.5 N	20	50
8321	504640	173930	3.00	.10	0.05 L	.300	1500	.5 N	30	300
8323	505600	173610	5.00	.50	0.07	.300	1000	.5 N	50	500
8324	506060	173200	5.00	.30	0.05 L	.500	700	.5 N	70	500
8326	506000	173060	2.00	.20	0.05	.300	300	.5 N	30	200
8328	506795	173005	1.00	.10	1.50	.100	700	.5 N	10	50

NEW RIVER GORGE -- SANDSTONE AND SILTSTONE--CONTINUED

SAMPLE	S-BE	S-CO	S-CR	S-CU	S-LA	S-NB	S-NI	S-PB	S-SC	S-SK	S-V	S-Y	S-ZN	S-ZR	AA=ZN-P
6555	1.0 L	5 N	30	5 N	20 N	20 L	5 L	10 N	5	100 L	30	10 N	200 N	200	5 L
6505	1.0	5	10	5	20 L	20 L	5	10 N	5	100 L	20	15	200 N	100	30
6609	1.0 L	5 N	10	5 N	20 N	20 L	5 L	10 N	5 L	100 L	10	10 N	200 N	70	5
6610	1.0 L	5 N	10 L	5 N	20 N	20 L	5 L	10 N	5 L	100 L	10	10 N	200 N	70	5 L
6611	1.0 L	5 N	50	5 N	20 L	20 L	5 L	10 N	5	100 L	10	10 N	200 N	200	5 N
6612	1.0 L	5 N	10 L	5 N	20	20 L	5 L	10 N	5 L	100 L	10	10 N	200 N	70	15
6614	1.5	5	15	5 L	20	20 L	5	10 L	5	100 L	20	10	200 N	100	55
6616	1.0	5	10	5 N	20	20 L	5	10 N	5	100 L	20	15	200 N	300	20
6617	2.0	7	10	5 L	20	20 L	7	10 L	5	100 L	20	10	200 N	70	30
6619	2.0	15	10	5 L	20	20 L	15	10 L	5	100 L	50	15	200 N	100	30
6623	3.0	15	20	10	30	20 L	15	10	10	500	50	20	200 N	300	45
6625	5.0	20	50	30	50	20 L	30	20	15	100	100	30	200 N	200	70
6633	2.0	10	30	5	30	20 L	15	10 L	10	100	50	30	200 N	300	40
6637	2.0	15	50	5	50	20 L	30	10 N	15	100 L	100	30	200 N	500	55
6644	2.0	15	20	5	30	20 L	15	10 L	7	100 L	50	20	200 N	300	40
6645	1.5	10	15	5 N	50	20 L	15	10 L	7	100 L	50	20	200 N	300	40
6647	2.0	30	30	7	30	20 L	30	10	10	100 L	70	20	200 N	150	45
6650	1.5	20	70	50	70	20 L	50	15	15	100 L	150	30	200 N	500	75
6654	1.5	20	30	10	50	20 L	20	10	10	100	70	30	200 N	300	60
6655	1.0	10	20	5 L	30	20 L	15	10 L	7	100	50	15	200 N	300	40
7120	1.5	30	50	20	70	20 L	30	10	10	100	70	30	200 N	500	65
7130	1.5	15	20	20	30	20 L	20	10	10	100 L	50	20	200 N	300	35
7328	2.0	20	70	50	50	20 L	30	15	15	100	150	20	200 N	200	50
7329	2.0	15	50	20	50	20 L	30	10	10	100	50	20	200 N	200	45
7330	2.0	20	70	15	50	20 L	50	10	15	100	100	30	200 N	200	70
7331	1.5	20	70	15	70	20 L	50	10	15	100	100	30	200 N	200	65
7332	2.0	20	70	70	50	20 L	30	10	10	100	70	30	200 N	200	80
8101	1.0	10	50	5 L	20	20 L	10	10 L	5	100 L	30	15	200 N	300	40
8103	2.0	7	100	5 L	30	20 L	10	10 L	7	100 L	30	20	200 N	700	25
8106	1.0	15	30	30	50	20 L	20	20	10	100	70	20	200 N	150	95
8107	3.0	15	70	20	100	20 L	20	15	20	100	100	50	200 N	200	60
8108	3.0	20	70	30	70	20 L	50	20	15	100	100	30	200 N	200	90
8111	2.0	20	70	20	50	20 L	30	10	15	100 L	100	30	200 N	300	60
8113	1.5	15	30	10	50	20 L	30	10	10	100 L	70	20	200 N	300	60
8114	2.0	15	50	10	50	20 L	30	20	10	100	70	20	200 N	200	60
8320	1.0 L	5 N	10 L	5 N	20 L	20 N	5 L	10 L	5	100 L	20	10	200 N	200	5 L
8321	1.0	30	20	7	30	20 N	10	10	10	100	70	15	200 N	500	20
8323	2.0	15	70	20	50	20 N	20	10	15	100	100	20	200 N	500	55
8324	2.0	30	70	50	70	20 N	50	15	15	100	100	30	200 N	500	85
8326	1.5	15	20	5	50	20 N	20	10 L	10	100 L	70	30	200 N	500	40
8328	1.0	5 N	10 L	5 N	30	20 N	5	10 L	5	100 L	20	10	200 N	150	20

NEW RIVER GORGE -- SANDSTONE AND SILTSTONE--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA
8329	507060	173200	3.00	.70	0.10	.500	1000	.5 N	100	500
8337	509570	170800	3.00	.50	0.70	.300	500	.5 N	50	200
8341	509455	170460	3.00	1.00	20.00	.200	500	.5 N	30	700
8343	509320	170140	3.00	.70	0.15	.300	700	.5 N	50	300

NEW RIVER GORGE -- IRONSTONE CONCRETIONS, FERRUGINOUS SANDSTONE, AND LIMONITE

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-B	S-HA	S-BE
1603	484160	222760	20	.7	1.00	.15	3000	10	500	5
1606	0 B	0 B	15	.7	0.70	.20	2000	20	500	5
1632	486480	221445	10	.5	0.50	.15	3000	15	500	5
3408	491140	216435	20	.2	0.70	.10	2000	10	300	7
3520	497620	206700	7	.2	0.70	.15	5000 G	10	200	5
3524B	497000	208410	10	.5	15.00	.20	5000 G	20	500	1
3603	492915	214010	1	.1	0.05	.15	300	20	70	1
3620	491820	215520	20	.7	1.00	.20	3000	20	500	7
3628	497665	206390	20	.3	0.50	.10	5000 G	10	150	7
3638	497320	209405	7	.7	0.50	.30	1500	30	300	3
3644	497685	206475	15	.2	0.10	.10	5000	10	200	5
4860	490980	198510	20	.7	0.70	.20	5000 G	10	300	5
5605	487190	185940	15	.5	0.50	.15	5000	20	200	5
6521	490050	188200	10	.3	0.07	.30	2000	15	500	7
6552	491040	185090	15	.5	0.70	.10	2000	10	200	3
6602	489920	186370	15	.5	1.50	.10	5000	10	200	5
6636	494110	183460	10	.7	0.70	.15	2000	20	700	5

NEW RIVER GORGE -- SANDSTONE AND SILTSTONE--CONTINUED

SAMPLE	S-BE	S-CO	S-CR	S-CU	S-LA	S-NB	S-NI	S-PB	S-SC	S-SR	S-V	S-Y	S-ZN	S-ZK	AA-ZN-P
8329	5.0	30	70	50	70	20 N	70	20	15	100	150	30	200 N	500	60
8337	1.5	15	50	10	30	20 N	30	10	10	100	100	30	200 N	300	50
8341	1.5	20	70	20	50	20 N	20	20	10	700	100	20	200 N	100	60
8343	2.0	30	70	30	50	20 N	50	10	10	100	100	20	200 N	300	45

NEW RIVER GORGE -- IRONSTONE CONCRETIONS, FERRUGINOUS SANDSTONE, AND LIMONITE

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-NI	S-PB	S-SC	S-SR	S-V	S-Y	S-ZN	S-ZK	AA-ZN-P
1603	15	50	7	20 L	30	10	15	100	150	30	200 N	70	20
1606	10	70	20	30	20	15	15	100	150	30	200 N	150	50
1632	15	20	7	20 L	15	10	15	100	70	30	200 N	50	40
3408	20	20	7	20 L	15	10	7	100	50	20	200 N	20	20
3520	10	10	7	50	10	10	10	100	50	30	200 N	100	35
3524B	150	30	10	20 L	300	15	7	1000	50	20	200 L	150	0 B
3603	5	10	5 L	20	10	10 L	7	100 L	30	15	200 N	150	15
3620	15	50	30	30	20	15	15	100	100	30	200 N	200	50
3628	30	15	5	30	20	10 L	7	100 L	30	30	200 N	100	20
3638	15	20	10	50	15	15	10	100	70	30	200 N	150	75
3644	10	10	7	20 L	20	10 L	15	100 L	50	20	200 N	50	75
4860	20	30	10	20	20	10 N	15	100 N	70	30	200 N	70	0 B
5605	10	50	10	20	20	10	15	100	100	30	200 N	70	35
6521	20	20	7	50	15	10	10	100 L	50	30	200 N	200	40
6552	5	20	7	20 L	15	10	10	100	50	20	200 N	20	25
6602	10	20	10	20	10	10	10	100	50	50	200 N	30	40
6636	7	20	20	20	10	20	10	100	70	20	200 N	50	45

NEW RIVER GORGE -- SHALE AND CLAYSTONE

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CU
1404	487055	221240	3.0	.7	0.05	.50	300	.5 N	70	500	2.0	15
1406	486995	221210	7.0	1.0	0.05 L	.50	2000	.5 N	100	700	5.0	20
1408	486900	221250	3.0	.7	0.05 L	.50	200	.5 N	70	500	5.0	15
1602	484160	222750	5.0	.7	0.07	.50	700	.5 N	100	500	3.0	20
1609	484490	222510	7.0	1.0	0.05	.30	1500	.5 N	100	700	2.0	20
1621	487095	221320	5.0	.7	0.05 L	.30	1500	.5 N	70	300	2.0	20
1622	487090	221325	5.0	.5	0.05 L	.50	200	.5 N	70	500	5.0	15
1625	486825	221360	5.0	1.0	0.05	.50	200	.5 N	70	700	5.0	30
1626	486790	221400	5.0	.7	0.05	.30	500	.5 N	70	500	3.0	20
1630	486630	221365	5.0	.5	0.05	.20	200	.5 N	50	700	2.0	20
1633	486405	221550	3.0	.5	0.15	.30	500	.5 N	50	500	2.0	15
1634	486405	221550	5.0	.7	0.10	.30	700	.5 N	50	500	2.0	15
1643	484240	230680	5.0	1.0	0.10	.30	500	.5 N	70	700	5.0	20
1644	484240	230680	5.0	.7	0.07	.50	500	.5 N	70	500	3.0	20
1645	484240	230680	5.0	.7	0.07	.50	300	.5 N	100	700	1.5	20
3402	492905	214110	5.0	.7	0.05 L	.30	200	.5 N	70	500	5.0	20
3403	493200	213380	3.0	.7	0.05 L	.50	200	.5 N	100	700	2.0	10
3404	493235	213395	3.0	.7	0.05 L	.30	150	.5 N	70	700	2.0	10
3503	492965	213265	5.0	.7	0.10	.30	700	.5 N	100	500	2.0	20
3506	492880	213370	2.0	.3	0.05 L	.30	150	.5 N	70	700	2.0	10
3508	492840	213435	5.0	.3	0.05 L	.20	500	.5 N	50	500	7.0	15
3510	492815	213505	3.0	.5	0.05	.50	200	.5 N	70	500	3.0	15
3512	492800	213585	5.0	.5	0.05 L	.50	200	.5 N	100	500	5.0	7
3516	492215	214030	7.0	1.0	0.20	.50	2000	.5 N	70	700	5.0	20
3528	494490	211020	3.0	.5	0.05 L	.30	150	.5 N	50	500	5.0	7
3530	493920	211450	5.0	1.0	0.10	.50	700	.5 N	70	700	3.0	30
3604	492860	213935	3.0	.7	0.05 L	.30	200	.5 N	70	700	3.0	10
3608	492855	213655	2.0	.5	0.05 L	.50	300	.5 N	70	500	3.0	15
3614	490370	217810	3.0	.5	0.05	.50	700	.5 N	50	300	5.0	20
3621	491775	215540	5.0	.7	0.07	.50	700	.5 N	70	500	5.0	20
3625	491420	212410	2.0	.5	0.05 L	.50	100	.5 N	70	700	5.0	30
3630	497755	205985	2.0	.5	0.05	.30	100	.5 N	70	700	7.0	5 L
3645	497705	206040	5.0	.5	0.05 L	.20	100	.5 N	50	700	5.0	10
3647	497665	206100	3.0	.5	0.05	.50	150	.5 N	70	700	5.0	15
4834	494620	201810	7.0	.7	0.10	.30	1000	.5 N	70	1500	5.0	20
4835	494680	201815	7.0	.7	0.15	.30	1000	.5 N	70	700	5.0	20
4838	494915	201770	3.0	.5	0.10	.30	300	.5 N	70	500	2.0	20
4839	494915	201770	5.0	.5	0.05	.30	1500	.5 N	50	500	2.0	30
4844	495385	202830	10.0	.7	0.50	.50	2000	.5 N	70	700	3.0	20
4846	495385	202830	5.0	1.0	0.20	.30	500	.5 N	50	700	2.0	20
4847	495385	202830	5.0	.7	0.10	.50	500	.5 N	50	500	3.0	20

NEW RIVER GORGE == SHALE AND CLAYSTONE

SAMPLE	S=CR	S=CU	S=LA	S=MO	S=NB	S=NI	S=PB	S=SC	S=SN	S=SR	S=Y	S=Y	S=ZN	S=ZR	AA=ZN=P
1404	70	30	50	5 N	20 L	50	10	15	10 N	100 L	150	30	200 N	200	90
1406	100	50	70	5 N	20 L	70	30	20	10 N	100	150	30	200 N	150	95
1408	70	30	50	5 N	20 L	70	15	15	10 N	100	150	30	200 L	150	50
1602	100	30	70	5 N	20 L	70	15	20	10 N	100 L	100	30	200 N	300	90
1609	100	50	50	5 N	20 L	100	20	20	10 N	100 L	100	20	200 N	150	40
1621	50	30	50	5 N	20 L	30	10	10	10 N	100 L	100	20	200 N	200	75
1622	70	30	100	5 N	20 L	70	20	20	10 N	100	100	30	200 L	200	90
1625	70	100	100	5 N	20 L	70	30	20	10 N	150	150	30	200 N	100	95
1626	70	50	50	5 N	20 L	50	15	15	10 N	100 L	100	30	200 N	200	85
1630	70	7	30	5	20 L	70	10 L	20	10 N	100	100	30	200 N	100	90
1633	70	10	70	5 N	20 L	50	15	15	10 N	100	100	30	200 N	200	100
1634	50	10	50	5 N	20 L	50	10	15	10 N	100	100	20	200 N	200	80
1643	70	50	70	5 N	20 L	50	20	15	10 N	150	150	30	200 L	100	100
1644	70	20	70	5 N	20 L	50	15	15	10 N	100 L	100	50	200 N	200	100
1645	100	50	50	5 N	20 L	70	15	15	10 N	100 L	100	20	200 N	300	110
3402	70	30	70	5 N	20 L	70	20	15	10 N	100 L	100	30	200 L	100	80
3403	150	10	50	5 N	20 L	100	10	15	10 N	100 L	150	30	200 N	300	75
3404	70	20	70	5 N	20 L	30	30	15	10 L	100	150	20	200 N	100	85
3503	100	20	70	5 N	20 L	70	20	15	10 N	100	100	30	200 N	200	75
3506	50	15	70	10	20 L	20	10	10	10 N	100	100	30	200	100	120
3508	70	30	70	5 N	20 L	50	20	15	10 N	100	100	20	200	100	100
3510	70	30	70	5 N	20	50	10	15	10 N	100 L	100	50	200 N	200	95
3512	70	15	50	5 N	20 L	20	10	15	10 N	100 L	100	20	200 N	300	40
3516	70	50	50	5 N	20 L	70	15	20	10 N	100	100	30	200 N	200	90
3528	50	20	100	5 N	20 N	20	30	15	10 N	100	150	30	200 N	150	50
3530	70	70	50	5 N	20	50	30	20	10 N	100	150	30	200 N	200	130
3604	50	30	30	5 N	20 L	20	15	15	10 N	100 L	100	20	200 N	100	80
3608	100	20	50	5 N	20 L	50	15	20	10 N	100 L	100	30	200 N	300	50
3614	100	20	70	5 N	20 L	70	10	20	10 N	100	100	30	200 N	300	80
3621	70	30	50	5 N	20	50	15	15	10 N	100 L	100	30	200 N	300	95
3625	70	70	100	5 N	20	50	20	20	10 N	100 L	150	30	200 N	150	60
3630	70	70	100	5 N	20 L	15	30	20	10 N	100	150	30	200 N	100	20
3645	100	100	70	5 N	20 L	20	30	20	10 N	100	150	30	200 N	100	75
3647	70	30	70	5 N	20	30	20	20	10 N	100 L	100	30	200 N	200	65
4834	70	30	70	5 N	20 L	50	15	20	10 N	100 L	100	50	200 N	150	95
4835	100	30	70	5 N	20 L	50	15	20	10 N	100	100	30	200 N	200	95
4838	100	20	50	5 N	20 L	70	10	15	10 N	100 L	70	30	200 N	300	70
4839	100	20	50	5 N	20 L	50	10	10	10 N	100 L	70	20	200 N	200	65
4844	100	50	70	5 N	20 L	50	20	20	10 N	150	150	30	200 N	150	75
4846	70	30	50	5 N	20 L	50	20	15	10 N	100 L	100	30	200 N	150	110
4847	100	50	50	5 N	20 L	70	15	15	10 N	100	100	30	200 N	200	70

NEW RIVER GORGE -- SHALE AND CLAYSTONE--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CI
4848	495385	202830	3.0	.5	0.30	.30	500	.5 N	70	300	1.5	10
4849	495385	202830	5.0	1.0	0.15	.50	300	.5 N	70	700	5.0	30
4857	490980	198510	2.0	.7	0.07	.50	200	.5 L	100	300	3.0	20
4862	490960	198540	2.0	.3	0.05	.50	200	.5 N	50	200	1.0 L	15
4863	493170	200420	3.0	.3	0.05 L	.50	200	.5 L	70	200	1.5	10
4865	489970	198250	10.0	.5	0.20	.50	1500	.5 N	70	500	3.0	15
4870	491670	199120	7.0	.5	0.20	.70	1500	.5 L	100	300	3.0	20
5603	487230	185985	5.0	.7	0.05 L	.50	200	.5 N	70	700	3.0	15
6102	493430	189550	5.0	.7	0.10	.50	300	.5 N	70	700	5.0	20
6105	493850	189600	5.0	1.0	0.30	.50	500	.5 N	100	1000	5.0	30
6106	493920	189605	5.0	.7	0.10	.50	700	.5 N	70	300	3.0	20
6502	491640	188625	5.0	1.0	0.70	.50	300	.5 N	70	300	3.0	30
6504	491080	188190	7.0	1.0	5.00	.50	1000	.5 N	70	500	5.0	30
6507	490790	188220	5.0	.5	0.20	.30	300	.5	50	300	5.0	20
6509	490700	188225	3.0	.5	0.10	.50	100	.5 N	50	500	5.0	20
6512	490640	188220	5.0	.7	0.10	.30	500	.5 N	70	500	7.0	20
6515	490245	188210	2.0	.3	0.50	.15	200	.5 N	10 L	700	1.5	5
6516	490220	188210	3.0	.7	0.10	.30	200	.5 N	100	700	5.0	20
6518	490210	188205	5.0	1.0	0.15	.30	300	.5 N	100	700	7.0	30
6519	490090	188190	3.0	.7	0.10	.30	300	.5 N	70	500	5.0	15
6529	488280	188730	7.0	1.0	0.10	.30	1000	.5 N	70	500	5.0	30
6535	493555	179790	1.5	.5	0.05 L	.50	50	.5 N	100	500	3.0	5 L
6539	494480	188760	2.0	.5	0.05 L	.30	200	.5 N	70	500	5.0	30
6541	493510	188530	5.0	1.0	0.10	.30	700	.5 N	70	500	3.0	30
6547	491560	186020	3.0	.5	0.05	.30	200	.5 N	50	300	1.5	15
6549	491470	186050	3.0	.7	0.07	.30	500	.5 N	70	500	3.0	20
6551	491020	185280	3.0	.7	0.07	.30	500	.5 N	50	500	3.0	20
6553	491040	185090	5.0	.7	0.15	.30	1000	.5 N	70	500	3.0	30
6554	491120	184895	2.0	.3	0.05	.30	150	.5 N	50	300	2.0	15
6613	494110	183460	5.0	1.0	0.10	.30	500	.5 N	70	700	7.0	30
6615	494110	183460	5.0	1.0	0.10	.30	700	.5 N	70	700	5.0	30
6618	494110	183460	7.0	.7	0.20	.30	1000	.5 N	30	500	7.0	15
6620	494110	183460	7.0	.7	0.30	.20	2000	.5 N	30	700	7.0	10
6621	494110	183460	3.0	.7	0.20	.50	500	.5 N	100	700	5.0	15
6622	494110	183460	3.0	.7	0.10	.20	500	.5 N	70	700	10.0	15
6624	494110	183460	5.0	1.0	0.30	.50	700	.5 N	70	700	7.0	20
6626	494110	183460	5.0	.7	0.20	.50	700	.5 N	100	700	5.0	30
6627	494110	183460	3.0	.7	0.30	.30	500	.5 N	50	500	5.0	15
6629	494110	183460	2.0	.7	0.05	.50	150	.5 N	100	500	5.0	30
6630	494110	183460	3.0	.7	0.10	.50	700	.5 N	100	700	3.0	30
6631	494110	183460	5.0	1.0	0.20	.50	1000	.5 N	70	700	7.0	20

NEW RIVER GORGE -- SHALE AND CLAYSTONE--CONTINUED

SAMPLE	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-ZN=P
4848	70	7	50	5 N	20 L	15	10	10	10 N	100 L	70	30	200 N	200	40
4849	100	50	100	5 N	20 L	70	70	20	10 N	100	150	50	200 N	200	110
4857	70	20	50	5 N	20 L	50	30	20	10 N	100 L	150	30	200 N	200	0 B
4862	50	10	30	5 N	20 L	20	10 L	5	10 N	100 N	100	30	200 N	1000 G	0 B
4863	100	7	30	5 N	20 L	30	10	10	10 N	100 N	100	20	200 N	500	0 B
4865	70	20	30	5 N	20 L	30	20	15	10 N	100 N	100	30	200 N	300	0 B
4870	150	30	30	5 N	20	70	20	20	10 N	100 N	200	30	200 N	300	0 B
5603	30	20	100	5 N	20	30	15	15	10 N	100 L	150	30	200 N	300	70
6102	70	30	100	5 N	20	50	15	20	10 N	100	150	50	200 N	300	90
6105	70	50	100	5 N	20 N	70	30	15	10 N	100	150	50	200 N	200	90
6106	70	30	50	5 N	20 L	70	15	15	10 N	100	150	30	200 N	300	75
6502	70	50	50	5 N	20 L	70	15	20	10 N	100	150	30	200 N	200	80
6504	70	70	100	5 N	20 L	50	15	20	10 N	200	150	50	200 N	150	80
6507	70	200	100	5 N	20 L	50	20	20	10 N	100	150	30	200 N	150	70
6509	100	30	100	5 N	20 L	50	10	20	10 N	100 L	150	50	200 N	200	90
6512	50	30	50	5 N	20 L	30	10	15	10 N	100 L	150	30	200 N	200	110
6515	30	10	150	5	20 L	5	30	5	10 N	150	10	10	200 N	150	85
6516	70	50	100	5 L	20 L	50	20	20	10 N	100	200	50	200 N	200	95
6518	100	50	100	5 N	20 L	70	30	20	10 N	100	150	30	200 N	150	130
6519	70	20	70	5 N	20 L	30	15	15	10 N	100 L	100	30	200 N	200	80
6529	70	50	50	5 N	20 L	50	15	15	10 N	100 L	100	30	200 N	150	100
6535	70	5 N	30	5 N	20 L	10	10	15	10 N	100 L	150	20	200 N	200	5
6539	70	20	50	5 N	20 L	20	20	10	10 N	100 L	100	20	200 N	200	120
6541	100	50	50	5 N	20 L	70	30	15	10 N	100	150	30	200 N	100	100
6547	70	7	20	5 N	20 L	70	10	10	10 N	100 L	70	20	200 N	500	55
6549	70	30	70	5 N	20 L	70	20	15	10 N	100	100	20	200 N	100	100
6551	100	30	70	5 N	20 L	50	15	15	10 N	100	100	20	200 N	100	95
6553	100	50	50	5 N	20 L	50	20	15	10 N	100	100	30	200 N	200	95
6554	100	10	50	5 N	20 L	50	20	10	10 N	100	70	20	200 N	300	60
6613	70	70	50	5 N	20 L	50	30	15	10 N	100	150	30	200 N	200	110
6615	100	70	100	5 N	20 L	50	20	15	10 N	100	100	30	200 N	150	100
6618	50	50	70	5 N	20 L	20	15	15	10 N	100	100	30	200 N	150	85
6620	70	20	50	5 N	20 L	20	10	15	10 N	100	100	30	200 N	100	85
6621	70	30	50	5 N	20 L	50	15	15	10	100 L	100	30	200 N	200	60
6622	70	50	70	5 N	20 L	50	20	15	10 N	100	100	30	200 N	150	85
6624	70	50	50	5 N	20 L	50	20	20	10 N	150	100	30	200 N	200	110
6626	100	50	100	5 N	20 N	70	30	20	10 N	150	200	30	200 N	150	95
6627	50	50	100	5 N	20 N	30	20	15	10 N	100	150	30	200 N	200	100
6629	70	30	70	5 N	20 N	100	15	15	10 N	100	150	30	200 N	200	65
6630	100	30	100	5 N	20 N	70	20	15	10 N	100	150	30	200 N	300	70
6631	70	50	70	5 N	20 L	70	20	20	10	150	150	30	200 N	200	100

NEW RIVER GORGE -- SHALE AND CLAYSTONE--CONTINUED

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CO
6634	494110	183460	5.0	.7	0.10	.30	500	.5 N	70	700	5.0	30
6635	494110	183460	7.0	1.0	0.10	.50	700	.5 N	50	700	3.0	30
6639	494110	183460	7.0	1.0	0.20	.30	1000	.5 N	50	700	5.0	15
6641	494110	183460	3.0	.7	0.05	.50	150	1.5	70	700	5.0	50
6643	494110	183460	7.0	1.0	0.10	.50	500	.5 N	50	700	3.0	20
6648	494110	183460	5.0	1.0	0.10	.50	300	.5 N	70	700	5.0	30
6651	494110	183460	7.0	.7	0.20	.30	2000	.5 N	70	500	7.0	30
6652	494110	183460	5.0	.7	0.05	.50	200	.5 N	70	700	7.0	30
6653	494110	183460	3.0	.2	0.05	.50	150	.5 N	70	500	3.0	30
7118	508830	184935	7.0	.7	0.05 L	.50	1500	.5 N	70	700	7.0	30
7119	508785	184950	7.0	.7	0.05	.50	300	.5 N	70	500	5.0	30
7121	508645	185000	5.0	.7	0.10	.50	300	.5 N	70	700	5.0	20
7122	508510	185020	5.0	.7	0.10	.50	1000	.5 N	100	700	7.0	30
7123	508365	185020	5.0	.7	0.05	.30	300	.5 N	70	700	5.0	20
7124	508320	185040	5.0	.7	0.05	.30	500	.5 N	70	500	5.0	30
7125	508250	182030	7.0	.7	0.10	.50	500	.5 N	100	700	5.0	30
7126	508180	184930	5.0	1.0	0.10	.50	500	.5 N	100	700	5.0	30
7127	507965	184580	7.0	1.0	0.20	.50	500	.5 N	100	700	5.0	30
7128	507860	184475	7.0	1.0	0.20	.50	1000	.5 N	100	1000	5.0	30
7129	507860	184475	5.0	1.0	10.00	.50	3000	.5 N	100	700	5.0	20
7131	507505	184370	7.0	1.0	1.50	.50	700	.5 N	50	700	5.0	30
7333	509670	186580	5.0	1.0	0.10	.50	700	.5 N	100	1000	1.5	20
7334	509820	186660	3.0	.7	0.07	.50	300	.5 N	100	500	3.0	20
7335	509960	186700	7.0	1.0	0.50	.50	500	.5 N	70	700	3.0	20
8102	501740	177820	7.0	.7	0.30	.50	1000	.5 N	70	700	5.0	30
8104	501740	177820	5.0	.7	0.20	.50	1000	.5 N	70	700	5.0	20
8105	501740	177820	5.0	1.0	0.20	.50	700	.5 N	100	700	5.0	30
8109	507060	177200	5.0	.5	0.70	.30	1000	.5 N	50	300	5.0	20
8110	501740	177820	5.0	1.0	1.50	.50	700	.5 N	100	700	3.0	30
8112	501740	177820	5.0	1.0	1.50	.50	500	.5 N	70	700	5.0	20
8322	273930	504640	1.5	.3	0.10	.70	100	.5 N	150	500	2.0	30
8325	506410	173050	5.0	.7	0.07	.30	300	.5 N	70	700	5.0	15
8330	507220	173240	3.0	.7	0.10	.50	700	.5 N	50	500	5.0	20
8335	509335	171100	3.0	.5	0.05 L	.30	200	.5 N	70	500	5.0	15
8336	509475	170960	3.0	.3	0.05 L	.30	200	.5 N	70	200	3.0	10
8338	509630	170820	5.0	1.0	0.05	.30	500	.5 N	100	300	3.0	20
8339	509570	170720	5.0	.7	1.00	.30	500	.5 N	70	700	5.0	20
8340	509545	170580	3.0	.7	2.00	.30	700	.5 N	100	700	2.0	20
8342	509440	170270	5.0	.7	0.50	.30	500	.5 N	100	500	2.0	20
8344	509250	170120	5.0	.7	1.50	.50	500	.5 N	100	700	3.0	20
8345	509245	170220	5.0	1.0	0.70	.50	500	.5 N	70	700	2.0	20

NEW RIVER GORGE -- SHALE AND CLAYSTONE--CONTINUED

SAMPLE	S=CR	S=CU	S=LA	S=MO	S=NB	S=NI	S=PB	S=SC	S=SN	S=SR	S=Y	S=Y	S=ZN	S=ZK	AA=ZN=P
6634	100	50	50	5 N	20 L	70	15	20	10 N	100	100	30	200 N	200	90
6635	70	70	100	5 N	20	70	50	20	10 N	100	100	50	200 N	300	120
6639	100	50	50	5 N	20 L	30	20	20	10 N	100	100	30	200 N	100	90
6641	100	50	100	5 N	20	100	30	20	10 N	150	200	30	200 N	200	110
6643	70	50	100	5 N	20	50	20	20	10 N	100	100	50	200 N	200	100
6648	70	50	100	5 N	20	50	20	20	10 N	100	100	50	200	200	110
6651	70	50	70	5 N	20 L	70	30	20	10 N	200	150	30	200 N	100	95
6652	70	30	70	5 N	20 L	100	20	15	10 N	150	150	30	200 N	200	140
6653	70	20	150	5 N	20	30	20	15	10 N	100	100	30	200 N	500	160
7119	70	50	70	5 N	20	50	15	20	10 N	100	150	50	200 N	300	85
7119	70	50	50	5 N	20	70	15	20	10 N	100	100	30	200 N	300	90
7121	70	50	50	5 N	20	50	15	15	10 N	150	100	30	200 N	200	90
7122	100	50	70	5 N	20 L	70	20	20	10 N	150	150	30	200 N	150	90
7123	70	30	70	5 N	20 L	50	15	15	10 N	100	100	30	200 N	200	80
7124	70	50	50	5 N	20 L	50	10	10	10 N	100	100	30	200 N	200	75
7125	100	70	50	5 N	20	70	15	15	10 N	100	150	50	200 N	200	80
7126	70	50	70	5 N	20	50	20	15	10 N	150	100	30	200 N	200	60
7127	70	50	100	5 N	20	70	15	20	10 N	200	200	50	200 N	200	80
7128	100	70	100	5 N	20	70	15	20	10 N	200	150	50	200 N	200	75
7129	100	150	100	5 N	20 L	70	20	20	10 N	500	200	50	200 N	200	75
7131	100	30	100	5 N	20 L	70	15	20	10 N	200	150	30	200 N	200	85
7333	70	20	100	5 N	20 L	50	10	15	10 N	100	150	20	200 N	150	85
7334	70	50	50	5 N	20 L	50	10	15	10 N	100	150	30	200 N	300	60
7335	70	30	70	5 N	20 L	70	10	15	10 N	150	200	30	200 N	200	90
8102	100	50	100	5 N	20	50	20	20	10 N	100	200	30	200 N	200	90
8104	150	30	100	5 N	20	70	30	20	10 N	100	150	30	200 N	500	90
8105	70	50	100	5 N	20 N	70	30	15	10 N	100	150	50	200 N	200	95
8109	50	50	70	5	20 N	50	15	15	10 N	150	150	30	200 N	100	95
8110	70	30	70	5 N	20	50	20	20	10 N	100	150	30	200 N	300	80
8112	70	30	100	5 N	20	50	20	20	10 N	150	150	50	200 N	300	75
8322	200	70	70	5 N	20 L	100	30	20	10 N	100	200	70	200 N	700	130
8325	50	30	50	5 N	20 L	30	15	15	10 N	100	150	30	200 N	200	90
8330	70	20	50	5 N	20 L	30	15	15	10 N	100	100	30	200 N	200	55
8335	70	30	50	20	20 N	30	15	15	10 N	100	300	30	200 N	200	65
8336	50	7	50	5 N	20 L	20	10	15	10 N	100 L	70	20	200 N	200	40
8338	70	30	50	5 N	20 L	50	15	15	10 N	100 L	100	30	200 N	200	70
8339	70	30	70	5 N	20	50	15	15	10 N	100	150	30	200 N	200	70
8340	50	20	50	5 N	20 L	50	20	15	10 N	150	100	30	200 N	150	70
8342	50	30	50	5 N	20	50	15	15	10 N	100	100	30	200 N	300	50
8344	70	20	50	5 N	20 L	50	15	15	10 N	150	100	30	200 N	200	70
8345	70	50	50	5 N	20 L	50	15	15	10 N	100	100	30	200	200	95

NEW RIVER GORGE -- COAL AND CARBONACEOUS SHALE

SAMPLE	X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-B	S-BA	S-BE	S-CD	S-CU
1610	484490	222510	7.0	.50	.20	.30	150	1.0	200 N	100	1000	50.0	20 N	70
1614	486990	220540	15.0	.30	.30	.20	700	.5 N	500	30	700	100.0	20 N	50
1623	487085	221330	7.0	.70	.15	.30	150	.7	200 L	70	700	20.0	20 N	15
1629	486620	221340	3.0	.50	.30	.30	200	.5 N	200 N	70	300	3.0	20 N	15
1631	486470	221430	5.0	1.00	.07	.50	200	.5 N	200 N	100	700	7.0	20 N	20
1641	484744	230680	7.0	.70	.50	.30	150	1.5	200 N	100	700	200.0	20 N	150
1650	484744	230680	3.0	1.00	.10	.30	500	.5 N	200 N	70	700	3.0	20 N	30
3417	492645	212770	3.0	.70	.30	1.00	300	1.0	200 N	150	700	15.0	20 N	70
3605	492860	213935	3.0	2.00	3.00	.30	3000	1.0	200 N	70	1000	15.0	20 N	30
3613	490370	217810	1.5	.70	.30	.50	300	.5 N	200 N	100	700	50.0	20 N	50
3629	497755	205985	7.0	1.00	1.00	.30	300	1.0	200 N	50	700	50.0	20 N	15
3643	497685	206475	7.0	1.00	.10	.30	200	.5 N	200	100	700	10.0	20 N	15
3646	497725	206100	5.0	.70	.30	.30	100	1.0	200 N	70	700	70.0	20 N	100
4833	494620	201810	5.0	.70	.10	.30	500	.5 N	200 N	100	500	1.5	20 N	30
5601	487230	185985	7.0	2.00	1.50	.30	500	1.0	200	100	3000	15.0	20 N	50
5602	487230	185985	7.0	2.00	3.00	.50	150	1.0	200 N	100	5000	10.0	20 N	30
5604	487230	185985	15.0	.70	.70	.50	200	1.0	1000	300	1000	15.0	20 N	150
5606	487090	185920	7.0	.70	1.00	.70	300	1.0	200 L	200	1000	50.0	20 N	150
6505	491080	188190	10.0	.70	.05	.50	70	.5 N	500	100	700	3.0	20 N	5
6524	489865	188220	5.0	.70	.05	.50	100	.5	200 N	100	700	7.0	20 N	15
6525	489865	188220	5.0	1.00	.10	.50	200	.5 N	200 N	100	700	7.0	20 N	20
6526	489380	188340	3.0	.70	.07	.30	150	.5 L	200 L	70	500	30.0	20 N	15
6531	488950	188640	5.0	.70	.20	.50	1000	.5 N	200 N	70	700	3.0	20 N	20
6533	493555	179790	15.0	.70	1.50	.30	500	3.0	500	70	1000	300.0	20 N	100
6540	493510	188530	7.0	2.00	5.00	.70	1000	1.0	500	300	5000	30.0	20 N	150
6548	491560	186020	3.0	1.00	.20	.70	200	.5 N	200 N	70	700	20.0	20 N	70
6628	494110	183460	15.0	.70	.30	.50	5000	.5	200	30	700	30.0	20	100
6632	494110	183460	20.0 G	.30	.10	.20	200	.5 N	1500	20	700	50.0	20 N	30
6638	494110	183460	20.0 G	.50	.30	.30	300	1.0	2000	20	700	70.0	20 N	100
6640	494110	183460	7.0	1.00	.05	.30	150	.5 L	200 N	100	700	15.0	20 N	30
6642	494110	183460	7.0	.30	.10	1.00	70	1.0	700	50	700	50.0	20 N	50
6646	494110	183460	20.0	.50	.05	.30	100	.5 N	1500	30	700	30.0	20 N	70
6649	494110	183460	20.0 G	.02	.05	.07	10	.5 N	10000	10	500	15.0	20 N	70

NEW RIVER GORGE -- COAL AND CARBONACEOUS SHALE

SAMPLE	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	ASH%
1610	150	150	100	100	20 L	100	70	100 N	50	10 N	300	500	50 N	150	300	150	9.2
1614	150	70	50	7	20 L	200	50	100 N	30	10 N	500	150	50 N	100	200 N	500	12.7
1623	100	300	100	50	20 L	100	150	100 N	30	10 N	300	500	50 N	100	200	200	18.9
1629	30	30	70	5 N	20 L	50	15	100 N	15	10 N	100	100	50 N	30	200 N	300	86.0
1631	100	150	100	5 N	20 L	70	50	100 N	30	10 N	150	300	50 N	50	200 L	200	64.5
1641	150	200	150	50	20 L	300	100	100 N	50	10 N	1500	500	50 N	200	500	150	11.0
1650	70	70	70	5 N	20 L	70	30	100 N	15	10 N	200	150	50 N	20	200	100	92.8
3417	200	100	150	20	20	150	50	100 N	30	10 N	300	300	50 N	100	200 L	200	13.6
3605	100	200	150	5	20 L	150	70	100 N	30	10 N	700	150	50 N	150	300	150	13.2
3613	70	100	150	5	20 L	100	50	100 N	20	10 N	1000	200	50 N	50	200 N	200	14.6
3629	100	500	200	30	20	70	50	100 N	30	10 N	300	300	50 N	150	300	200	12.6
3643	70	100	70	15	20 L	50	20	100 N	20	10 N	150	200	50 N	30	200 N	150	30.9
3646	70	300	150	20	20 L	100	100	100 N	30	15	300	300	50 N	100	200	200	10.7
4833	70	50	30	5 N	20 L	70	20	100 N	15	10 N	100 L	100	50 N	20	200 N	200	92.9
5601	100	300	70	30	20 L	300	50	100 N	20	10 N	700	300	50 N	50	500	100	10.4
5602	150	300	150	50	20 L	200	50	100 N	20	10 N	1500	300	50 N	70	200	200	8.7
5604	150	700	150	150	20	200	50	100 N	30	10 N	1500	300	50 N	100	700	200	4.3
5606	150	700	200	200	20	300	100	100 N	50	10 N	2000	1000	50	100	700	300	2.2
6505	100	70	70	150	20 L	15	50	100 N	20	10 N	200	300	50 N	20	200 N	200	53.2
6524	70	100	100	5	20 L	50	30	100 N	20	10 N	150	200	50 N	50	200 N	200	62.6
6525	100	100	150	5 N	20	70	50	100 N	30	10 N	500	200	50 N	50	200 N	200	84.3
6526	70	100	70	15	20 L	50	30	100 N	20	10 N	100	200	50 N	50	200	200	37.5
6531	150	50	50	5 N	20 L	70	20	100 N	15	10 N	100	150	50 N	30	200 N	700	95.4
6533	200	500	150	200	20 L	200	200	100 N	30	10 N	2000	300	150	150	500	200	1.1
6540	150	300	200	150	20 L	500	100	100 N	30	15	5000	300	50 N	150	500	200	4.3
6548	150	150	100	20	20	150	50	100 N	30	10 N	200	300	50 N	70	200 N	300	14.9
6628	500	500	200	15	50	300	150	100 N	100	10 N	200	1500	50 N	200	2000	500	24.1
6632	150	150	150	15	20 L	150	50	100 N	50	10 N	150	300	50 N	150	700	200	18.1
6638	100	300	100	50	30	200	200	200	50	10 N	100	500	50 N	200	1000	200	15.5
6640	100	150	150	20	20 L	100	70	100 N	30	10	200	300	50 N	70	200 N	200	43.6
6642	150	200	200	30	50	150	100	100 N	50	10	300	500	50 N	100	200 N	300	18.0
6646	100	200	100	30	20 L	150	30	100 L	30	10 N	150	300	50 N	100	1000	300	35.9
6649	50	100	70	20	20 L	100	10	100 N	15	10 N	200	100	50 N	70	200 N	20	33.3

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