UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Coordinates for and analytical values of 21 rock, 158 stream sediment and soil, and 91 panned-concentrate samples included in the Butte 1° x 2° quadrangle between the latitudes of 46°30'00" and 47°00'00" N., and the longitudes of 112°30'00" and 113°00'00" W.

by

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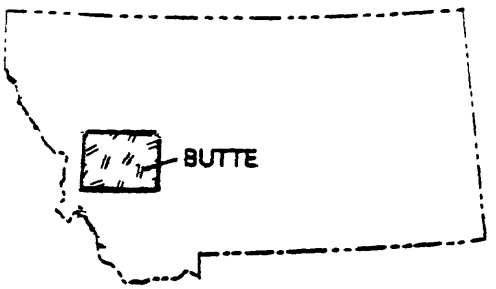
Chapter D

This report is preliminary and had not been reviewed for conformity with U.S. Geological Survey Editorial standards

STUDY AREA



ANALYSES OF SAMPLES
AVAILABLE AS OF JUNE, 1982
BUTTE 1° x 2°
CUSMAP QUADRANGLE

B 221 r 494 s 261 p	C 109 r 377 s 237 p	D 21 r 158 s 91 p	E 43 r 19 p
F 486 r 711 s 784 p	G 322 r 327 s 369 p	H 78 r 275 s 220 p	I 30 r 7 p

47°00′
46°30′
46°00′
114°00′ 113°30′ 113°00′ 112°30′ 112°00′

FIGURE 1. Chart of samples analyzed and location map of study area

TABLE 1. ROCK SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2° CUSMAP QUADRANGLE, MONTANA (continued)

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
AV01061R	46 41 48	112 30 49	3.0	3.00	20.00	.200	1,000	N	N	N	15	150	N	N
AV01062R	46 41 48	112 30 49	1.5	2.00	20.00	.100	1,000	N	N	N	N	300	<1.0	N
AV01063R	46 41 48	112 30 49	1.5	.30	15.00	.150	500	N	N	N	<10	700	1.0	N
AV01064R	46 41 48	112 30 49	.5	1.00	>20.00	.010	700	N	N	N	N	<20	N	N
AV01065O	46 43 0	112 30 16	>20.0	1.00	1.00	.050	500	5.0	N	N	N	70	N	N
AV01066R	46 43 0	112 30 16	15.0	.05	.30	.030	150	1.5	N	N	N	100	1.0	N
AV01067R	46 43 0	112 30 16	5.0	1.50	3.00	.500	1,000	N	N	N	10	700	1.5	N
AV03539R	46 31 40	112 31 36	.3	.07	.30	.200	10	N	N	N	10	1,000	3.0	N
M000185R	46 59 13	112 46 13	20.0	.15	.30	.100	70	N	10,000	N	70	500	1.5	N
M000186R	46 59 7	112 46 58	1.5	5.00	15.00	.200	500	N	N	N	N	1,000	1.5	N
M000187R	46 59 7	112 46 58	5.0	1.50	3.00	.700	300	.5	N	N	10	1,500	<1.0	N
NLK8926R	46 51 49	112 50 47	.7	.02	.30	.005	200	10.0	N	N	N	50	N	N
NLK8927R	46 51 49	112 50 47	7.0	1.00	7.00	.500	1,500	1.5	N	N	300	1,000	1.0	N
NLK8928R	46 51 49	112 50 47	7.0	5.00	3.00	.700	1,000	.7	N	N	10	2,000	<1.0	N
NVM1008R	46 51 28	112 30 26	3.0	.30	.30	.300	300	5.0	N	N	150	500	3.0	N
SWD0165R	46 56 36	112 30 44	2.0	.10	<.05	.200	70	700.0	700	N	10	1,500	<1.0	N
SWD0166R	46 56 36	112 30 44	1.0	.10	<.05	.200	20	500.0	200	20	<10	1,500	<1.0	N
SWD0167R	46 56 36	112 30 44	7.0	2.00	5.00	.700	1,000	<.5	N	N	10	2,000	1.0	N
SWD0168R	46 56 36	112 30 44	7.0	1.00	1.50	.700	700	N	N	N	10	3,000	1.5	N
SWD0169R	46 56 42	112 30 26	.3	.07	.07	.070	20	500.0	N	30	10	700	1.0	N
SWD0170R	46 56 29	112 30 35	1.0	.20	.10	.500	70	1.5	N	N	10	3,000	1.5	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE1. ROCK SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2°CUSMAP QUADRANGLE,MONTANA(continued)

SAMPLE	S-CD	S-CO	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
AV01061R	N	<5	15	20	20	N	N	7	30	N	5	N	150	70	N	20	N
AV01062R	N	<5	15	7	30	N	<20	7	15	N	<5	N	150	20	N	20	N
AV01063R	N	N	10	5	30	N	<20	5	20	N	<5	N	150	30	N	30	N
AV01064R	N	N	<10	15	20	N	N	<5	15	N	N	N	300	20	N	<10	N
AV01065O	N	10	<10	700	N	N	N	15	<10	N	N	N	N	50	N	10	N
AV01066R	N	<5	<10	1,500	20	30	N	<5	10	N	N	N	300	150	N	<10	N
AV01067R	N	20	15	70	20	N	N	15	15	N	15	N	500	150	N	30	N
AV03539R	N	<5	<10	<5	150	N	30	<5	50	N	7	N	N	<10	N	30	N
MO00185R	N	15	N	20	<20	N	N	30	30	500	5	N	N	20	N	15	<200
MO00186R	N	5	10	7	20	N	N	10	30	N	5	N	150	30	N	20	N
MO00187R	N	7	10	100	<20	7	N	<5	30	N	20	N	300	200	N	20	N
NLK8926R	N	<5	15	70	<20	N	N	5	500	N	N	N	N	<10	N	<10	N
NLK8927R	N	20	200	150	70	15	<20	100	50	N	20	N	200	200	<50	20	N
NLK8928R	N	20	300	70	50	N	<20	100	100	N	20	N	700	200	N	30	N
NVM1008R	N	7	20	30	70	N	<20	15	20	N	7	N	N	70	N	30	N
SWD0165R	N	7	20	15	30	>2,000	N	30	500	100	<5	N	700	200	N	N	N
SWD0166R	N	5	20	7	50	2,000	N	15	200	<100	<5	N	700	150	N	N	N
SWD0167R	N	30	500	30	70	10	N	200	20	N	15	N	1,500	150	N	20	N
SWD0168R	N	30	200	20	70	N	<20	100	30	N	10	N	1,000	70	N	10	N
SWD0169R	N	5	<10	15	30	150	N	5	200	150	N	N	200	150	N	N	N
SWD0170R	N	5	20	5	70	30	<20	20	20	N	5	N	700	50	N	N	N

LATITUDE 46°30′–47°00′ LONGITUDE 112°30′–113°00′

TABLE 1. ROCK SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1° x 2° CUSMAP QUADRANGLE, MONTANA (continued)

SAMPLE	S-ZR	S-TH	AA-AU	AA-CU	AA-PB	AA-ZN	AA-AG	AA-CD	AA-BI	AA-SB
AV01061R	70	N	--	3	4	6	.07	.12	N	N
AV01062R	200	N	--	4	3	3	<.05	.07	N	N
AV01063R	200	N	--	1	2	2	<.05	.09	N	N
AV01064R	15	N	--	1	1	2	<.05	<.05	N	N
AV010650	N	N	1.3	780	N	14	.87	.09	N	1
AV01066R	200	N	--	1,250	5	7	2.75	.26	9	30
AV01067R	70	N	--	50	3	4	.07	.15	N	N
AV03539R	300	N	--	1	2	2	<.05	.10	1	1
M000185R	50	N	--	18	20	25	.24	.31	1	200
M000186R	100	N	--	3	6	10	.14	.10	N	1
M000187R	70	N	--	115	7	8	.33	.08	1	1
NLK8926R	15	N	--	57	415	17	3.88	.35	2	19
NLK8927R	150	N	--	99	15	60	.83	1.15	1	37
NLK8928R	100	N	--	32	18	4	.53	.10	1	N
NVM1008R	300	N	--	2	6	22	<.05	.07	N	N
SWD0165R	50	N	--	4	230	5.	550.00	<.05	N	8
SWD0166R	70	N	--	1	110	1	150.00	<.05	N	5
SWD0167R	200	N	--	6	6	9	.82	.14	N	1
SWD0168R	200	N	--	12	11	26	.61	.12	N	1
SWD0169R	30	N	--	18	250	11	650.00	.08	N	55
SWD0170R	100	N	--	5	10	20	1.40	<.05	N	1

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 2.PAN-CONCENTRATE SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2° CUSMAP QUADRANGLE, MONTANA(continued)

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
AV01059P	46 41 53	112 31 3	30.00	3.00	15.00	.700	1,500	N	N	N	50	500	N	N
AV01059P	46 41 53	112 31 3	15.00	3.00	7.00	.500	1,000	N	N	N	50	50	<2	N
AV01060P	46 41 48	112 30 49	<.05	7.00	15.00	.002	70	N	N	N	<10	N	N	N
AV01060P	46 41 48	112 30 49	2.00	5.00	20.00	.700	700	N	N	N	100	70	2	N
AV01068	46 40 17	112 30 36	50.00	.20	1.00	.700	1,000	N	N	N	N	70	N	N
AV01068	46 40 17	112 30 36	15.00	2.00	7.00	>2.000	3,000	N	N	N	<20	50	N	20
AV03507P	46 31 47	112 43 37	3.00	.50	1.00	.500	500	N	N	N	N	>10,000	2	N
AV03509P	46 32 6	112 41 7	3.00	.70	1.00	.500	500	N	N	N	50	1,000	2	N
AV03511P	46 32 53	112 40 31	3.00	2.00	3.00	.500	1,500	N	N	N	20	500	2	N
AV03513P	46 32 25	112 37 21	10.00	3.00	3.00	2.000	2,000	1.0	N	N	N	700	2	N
AV03516P	46 34 10	112 39 37	7.00	.70	.70	.700	700	N	N	N	20	300	2	N
AV03518P	46 35 8	112 39 35	3.00	.70	.70	.500	1,000	N	N	N	N	500	3	N
AV03524P	46 34 0	112 30 52	2.00	.15	.50	.700	700	N	N	N	N	300	5	N
AV03527P	46 34 31	112 31 4	7.00	1.00	1.50	.700	2,000	N	N	N	100	1,500	2	N
AV03528P	46 34 47	112 33 29	5.00	.70	1.50	.700	1,000	1.0	N	N	50	1,000	3	N
AV03530P	46 34 47	112 33 33	3.00	.70	2.00	.500	1,000	N	N	N	100	1,000	2	N
AV03533P	46 32 45	112 32 24	3.00	.15	.50	.300	700	N	N	N	N	700	3	N
AV03535P	46 31 32	112 31 51	5.00	.50	.50	.300	2,000	N	N	N	N	1,500	3	N
AV03537P	46 31 42	112 30 8	7.00	1.50	2.00	1.000	1,500	N	N	N	<20	2,000	2	N
AV03540P	46 30 57	112 32 14	15.00	1.00	2.00	2.000	1,500	N	N	N	70	1,000	2	N
AV03543P	46 31 38	112 34 34	7.00	1.50	1.50	.700	700	N	N	N	20	500	<2	N
AV03551P	46 32 49	112 35 45	5.00	1.00	1.50	.700	1,000	N	N	N	20	1,000	3	N
AV03553P	46 32 36	112 35 36	15.00	3.00	3.00	2.000	1,500	N	N	N	N	700	<2	N
AV03557P	46 34 4	112 36 2	5.00	1.50	1.50	.500	1,500	N	N	N	<20	1,000	3	N
AV03559P	46 35 0	112 36 9	2.00	.10	.70	.300	300	N	N	N	N	100	3	N
FIN161	46 52 2	112 37 48	15.00	1.00	.70	.500	700	N	N	N	200	>10,000	3	N
FIN161	46 52 2	112 37 48	15.00	.50	.70	.500	300	N	N	N	50	>10,000	3	N
GA1	46 30 30	112 57 46	30.00	.20	2.00	.700	2,000	N	N	N	20	700	<2	N
GA1	46 30 30	112 57 46	7.00	.20	3.00	1.000	2,000	N	N	150	<20	700	2	N
GA3453P	46 35 40	112 59 9	3.00	.70	1.50	.300	1,000	N	N	N	70	1,000	3	N
GA3457P	46 33 26	112 59 7	1.00	.70	1.00	.150	300	30.0	N	N	30	500	3	N
GA3459P	46 32 36	112 59 5	3.00	.70	1.50	.300	700	N	N	N	50	700	3	N
GA3464P	46 31 4	112 59 28	5.00	7.00	7.00	.500	1,500	N	N	N	N	300	<2	N
GA3470P	46 30 37	112 58 6	30.00	1.50	5.00	1.000	3,000	N	N	N	N	700	<2	N
GA3474P	46 30 31	112 55 29	15.00	.30	3.00	1.000	3,000	N	N	N	N	700	<2	N
GA3479P	46 32 6	112 54 38	10.00	.70	2.00	1.000	3,000	N	N	N	N	1,000	<2	N
GA3481P	46 32 15	112 54 48	5.00	.70	2.00	.700	2,000	N	N	N	20	700	<2	N
GA3483P	46 35 10	112 57 40	3.00	.50	1.50	.700	700	N	N	N	20	2,000	2	N
GA3485P	46 35 5	112 57 1	5.00	1.00	2.00	.700	1,500	N	N	N	20	1,000	2	N
GA3491P	46 34 16	112 54 36	7.00	1.50	3.00	1.000	2,000	N	N	N	20	1,000	2	N
GA3493P	46 33 28	112 55 4	30.00	1.00	5.00	1.000	3,000	N	N	N	N	500	<2	N
GA3495P	46 31 33	112 50 16	7.00	1.00	2.00	1.000	1,500	N	N	N	N	2,000	3	N
GA3499P	46 30 1	112 50 41	10.00	1.00	3.00	1.500	3,000	N	N	N	N	3,000	<2	N
GA3501P	46 30 29	112 48 39	15.00	1.00	3.00	.700	3,000	N	N	N	N	1,000	<2	N
GA3503P	46 30 14	112 47 42	10.00	2.00	1.00	.700	1,500	N	N	N	100	3,000	2	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 2.PAN-CONCENTRATE SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2°CUSMAP QUADRANGLE, MONTANA(continued)

SAMPLE	S-CD	S-CO	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
AV01059P	N	200	500	150	50	N	N	200	70	N	15	N	<200	1,000	100	70
AV01059P	N	200	100	150	50	50	N	200	150	N	15	N	N	100	500	300
AV01060P	N	N	N	<5	<20	N	N	<5	<10	N	N	N	N	<10	N	N
AV01060P	N	<10	N	<10	70	N	<50	10	70	N	15	N	N	100	N	30
AV01068	N	50	1,000	50	<50	<10	N	100	20	N	10	N	N	2,000	150	30
AV01068	N	20	300	70	300	200	<50	50	70	N	10	N	<200	700	500	300
AV03507P	N	<10	50	10	50	N	N	20	30	N	<10	N	300	100	N	30
AV03509P	N	<10	50	<10	70	N	N	10	<20	N	<10	N	300	150	N	30
AV03511P	N	10	200	<10	50	N	N	15	20	N	15	N	200	150	N	20
AV03513P	N	15	200	50	300	N	<50	30	30	N	20	N	500	500	N	70
AV03516P	N	10	200	10	300	20	50	30	20	N	10	N	<200	150	<100	70
AV03518P	N	10	150	20	100	N	N	30	20	N	<10	N	<200	100	N	50
AV03524P	N	10	20	<10	200	N	<50	10	20	N	<10	N	N	30	N	50
AV03527P	N	20	100	50	70	<10	N	20	150	N	10	N	500	300	N	50
AV03528P	N	15	100	20	100	N	N	30	30	N	10	N	500	150	N	50
AV03530P	N	15	70	30	70	<10	<50	15	50	N	10	N	500	150	N	50
AV03533P	N	10	30	10	70	N	<50	10	30	N	<10	N	200	50	N	30
AV03535P	N	10	100	20	70	N	N	20	70	N	<10	N	N	150	N	30
AV03537P	N	15	100	100	70	<10	N	50	50	N	10	N	1,000	300	N	30
AV03540P	N	20	150	70	50	N	<50	70	70	N	15	N	500	700	N	50
AV03543P	N	15	200	30	50	N	<50	70	30	N	10	N	300	200	N	20
AV03551P	N	15	50	15	70	N	<50	30	30	N	10	N	200	150	N	50
AV03553P	N	20	1,000	50	70	N	<50	100	30	N	30	N	N	700	N	70
AV03557P	N	15	200	30	70	N	N	70	20	N	10	N	200	200	N	50
AV03559P	N	N	30	<10	1,500	N	N	<10	50	N	N	N	N	50	N	150
FIN161	N	100	200	200	50	<10	N	150	300	N	10	20	700	300	200	50
FIN161	N	100	70	150	100	<10	<50	70	100	N	10	N	500	150	700	50
GA1	N	10	70	50	1,000	N	<50	10	100	N	10	N	300	500	N	100
GA1	N	<10	20	30	2,000	N	<50	10	150	N	<10	N	700	100	N	200
GA3453P	N	<10	30	10	50	N	N	20	50	N	<10	N	300	100	N	20
GA3457P	N	N	30	<10	50	N	N	10	<20	N	N	N	200	50	N	<20
GA3459P	N	<10	100	<10	50	N	N	15	<20	N	<10	N	200	70	N	20
GA3464P	N	15	1,000	15	<50	N	N	100	20	N	20	N	200	200	N	20
GA3470P	N	15	300	50	300	N	N	30	20	N	10	N	<200	500	N	50
GA3474P	N	N	30	15	1,000	N	<50	10	20	N	10	N	200	300	N	100
GA3479P	N	10	150	15	1,500	N	<50	15	20	N	<10	N	200	200	N	150
GA3481P	N	10	50	<10	150	N	N	20	30	N	<10	N	200	150	N	50
GA3483P	N	N	50	<10	70	N	N	15	20	N	<10	N	300	70	N	50
GA3485P	N	N	200	<10	300	N	<50	10	70	N	<10	N	300	100	N	50
GA3491P	N	10	200	15	100	N	N	20	20	N	10	N	500	300	N	50
GA3493P	N	<10	100	50	300	N	N	20	30	N	10	N	200	500	N	70
GA3495P	N	<10	100	15	200	N	N	20	<20	N	10	N	200	200	N	300
GA3499P	N	10	150	20	700	N	<50	15	100	N	<10	N	200	300	N	100
GA3501P	N	10	100	20	500	N	N	15	<20	N	<10	N	200	300	N	70
GA3503P	N	15	200	70	50	N	N	70	20	N	10	N	<200	500	N	30

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 2.PAN-CONCENTRATE SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2°CUSMAP QUADRANGLE, MONTANA(continued)

SAMPLE	S-ZN	S-ZR	S-TH	AA-AU
AV01059P	N	700	N	--
AV01059P	N	700	N	--
AV01060P	N	10	N	<.05
AV01060P	N	500	N	--
AV01068	N	2,000	N	--
AV01068	N	>2,000	<200	--
AV03507P	N	700	N	<.05
AV03509P	N	300	N	<.05
AV03511P	N	200	N	<.05
AV03513P	N	300	N	<.05
AV03516P	N	700	N	<.05
AV03518P	N	150	N	<.05
AV03524P	N	500	N	<.05
AV03527P	N	500	N	.29
AV03528P	N	300	N	<.05
AV03530P	N	300	N	.51
AV03533P	N	300	N	<.05
AV03535P	N	200	N	<.05
AV03537P	N	200	N	<.05
AV03540P	N	1,000	N	<.05
AV03543P	N	300	N	<.05
AV03551P	N	300	N	<.05
AV03553P	N	700	N	<.05
AV03557P	N	200	N	<.05
AV03559P	N	1,000	N	<.05
FIN161	N	2,000	N	--
FIN161	N	>2,000	N	--
GA1	N	1,000	N	--
GA1	N	300	<200	--
GA3453P	N	500	N	<.05
GA3457P	N	500	N	<.05
GA3459P	N	500	N	.80
GA3464P	N	200	N	.17
GA3470P	N	500	N	15.00
GA3474P	N	1,000	N	50.00
GA3479P	N	1,000	<200	1.10
GA3481P	N	500	N	1.90
GA3483P	N	700	N	<.05
GA3485P	N	2,000	N	<.05
GA3491P	N	700	N	.34
GA3493P	N	700	N	41.00
GA3495P	N	1,000	N	.10
GA3499P	N	1,000	N	.23
GA3501P	N	700	N	2.40
GA3503P	N	300	N	.06

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 2.PAN-CONCENTRATE SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2°CUSMAP QUADRANGLE, MONTANA(continued)

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
GA3503P	46 30 13	112 47 37	7.00	1.50	3.00	.700	1,000	N	N	N	<20	700	<2	N
GA5741P	46 43 20	112 53 17	3.00	1.50	.70	.500	3,000	N	N	N	50	3,000	3	N
GA5743P	46 43 15	112 53 17	5.00	1.00	2.00	.700	500	N	N	N	N	5,000	<2	N
GA5745P	46 43 15	112 53 17	5.00	1.50	2.00	.700	2,000	N	N	N	N	3,000	2	N
GA5747P	46 44 29	112 50 46	3.00	.70	1.50	.500	1,000	N	N	N	N	3,000	2	N
GA5749P	46 41 44	112 51 42	7.00	2.00	3.00	1.000	1,500	N	N	N	<20	2,000	2	N
GA6633P	46 37 45	112 50 26	3.00	.70	.30	.300	300	N	N	N	50	500	<2	N
GA6635P	46 35 10	112 50 47	5.00	1.50	1.00	.500	700	N	N	N	70	1,000	3	N
GA6637P	46 35 8	112 50 41	5.00	1.50	2.00	.500	1,000	N	N	N	50	3,000	2	N
GA6639P	46 34 7	112 51 52	3.00	1.50	3.00	.500	1,000	N	N	N	N	10,000	<2	N
GA6641P	46 33 22	112 49 52	10.00	1.00	1.00	.300	700	N	N	N	20	1,000	3	N
GA6643P	46 32 6	112 45 38	5.00	1.50	1.00	.500	700	N	N	N	50	700	3	N
GA8858P	46 43 35	112 47 49	7.00	1.50	1.50	.700	1,000	N	N	N	20	2,000	3	N
GA8860P	46 43 28	112 47 57	3.00	1.50	2.00	1.000	700	N	N	N	30	3,000	<2	N
GA8862P	46 43 27	112 47 43	2.00	1.50	3.00	.700	700	N	N	N	N	3,000	2	N
GA8920P	46 44 16	112 59 29	7.00	1.50	.30	.500	2,000	N	N	N	300	1,000	3	N
GA8922P	46 44 16	112 59 3	3.00	.70	2.00	.500	2,000	N	N	N	N	3,000	3	N
GA8924P	46 44 8	112 58 59	5.00	.70	2.00	.500	3,000	N	N	N	N	3,000	3	N
HLM6613P	46 50 38	112 53 50	30.00	2.00	3.00	1.000	3,000	N	N	N	N	2,000	N	N
HLM6615P	46 49 29	112 53 0	5.00	1.00	.70	.700	700	N	N	N	200	2,000	2	N
HLM6617P	46 49 32	112 53 36	5.00	.50	.70	.700	700	N	N	N	70	1,500	2	N
HLM6619P	46 49 34	112 54 2	1.50	.30	.70	.300	150	N	N	N	70	2,000	3	N
HLM6622P	46 50 50	112 58 28	3.00	.70	2.00	1.000	1,000	N	N	N	20	1,500	2	N
HLM6624P	46 50 20	112 57 3	3.00	.70	2.00	.700	700	N	N	N	20	7,000	2	N
HLM6628P	46 47 20	112 59 19	5.00	1.00	.50	.700	1,000	N	N	N	150	7,000	3	N
HLM6630P	46 47 20	112 59 13	3.00	.70	.70	.500	700	N	N	N	150	3,000	3	N
M00184	46 58 6	112 45 25	10.00	1.50	3.00	1.000	700	7.0	<500	N	<20	500	<2	30
M00184P	46 58 6	112 45 25	30.00	1.00	.30	.700	1,000	3.0	1,000	N	20	700	<2	N
M00188P	46 58 39	112 46 54	2.00	.50	3.00	.300	500	1.0	N	N	20	1,500	1	N
M00188P	46 58 39	112 46 54	5.00	.70	10.00	>2.000	700	5.0	500	N	20	300	2	N
M00189P	46 58 42	112 45 48	1.50	1.00	3.00	.200	500	N	N	N	70	1,000	2	N
M00189P	46 58 42	112 45 48	5.00	1.50	10.00	>2.000	700	N	N	N	20	700	<2	N
NLK5739P	46 46 38	112 49 13	3.00	1.50	2.00	.700	500	N	N	N	N	3,000	2	N
NLK8903P	46 46 52	112 47 47	5.00	1.00	2.00	1.000	500	N	N	N	20	3,000	2	N
NLK8905P	46 46 40	112 47 53	3.00	.50	1.00	.500	1,000	N	N	N	N	2,000	3	N
NLK8907P	46 46 43	112 47 59	3.00	1.50	2.00	.700	1,000	N	N	N	N	3,000	<2	N
NLK8909P	46 48 23	112 50 30	3.00	.70	.30	.500	1,000	N	N	N	200	1,000	3	N
NLK8911P	46 48 22	112 50 20	3.00	1.00	1.00	.700	1,000	N	N	N	100	2,000	2	N
NLK8914P	46 48 51	112 51 19	3.00	.30	.20	.500	200	N	N	N	100	1,500	2	N
NLK8916P	46 46 32	112 46 3	1.50	.30	1.50	.500	300	N	N	N	N	3,000	2	N
NLK8918P	46 46 12	112 45 26	1.50	.70	2.00	.700	1,500	N	N	N	N	2,000	2	N
NVM1010	46 51 28	112 30 26	7.00	.70	.15	.100	700	700.0	1,500	100	20	300	<2	N
NVM1010	46 51 28	112 30 26	7.00	.70	.15	.150	700	500.0	1,000	300	20	300	<2	N
NVM1011	46 51 23	112 30 12	2.00	.07	.10	.030	1,000	200.0	N	N	<20	150	<2	N
NVM1011	46 51 23	112 30 12	1.50	.07	.15	.050	700	150.0	N	20	<20	50	<2	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 2.PAN-CONCENTRATE SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2°CUSMAP QUADRANGLE, MONTANA(continued)

SAMPLE	S-CD	S-CO	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
GA3503P	N	15	150	150	300	N	N	20	20	N	10	N	300	300	N	50
GA5741P	N	15	100	20	70	N	N	30	50	N	10	N	700	70	N	20
GA5743P	N	30	200	30	70	N	N	70	70	N	10	N	1,500	300	N	50
GA5745P	N	20	150	30	100	N	N	70	70	N	10	N	1,500	100	N	<20
GA5747P	N	10	100	<10	100	N	N	30	50	N	<10	N	1,500	50	N	N
GA5749P	N	15	200	50	70	N	N	70	50	N	10	N	1,000	100	N	20
GA6633P	N	10	100	20	50	N	N	20	30	N	<10	N	N	150	N	30
GA6635P	N	15	100	50	70	N	N	30	50	N	10	N	N	100	N	50
GA6637P	N	15	100	50	70	N	N	30	50	N	10	N	N	100	N	50
GA6639P	N	10	150	30	70	N	N	30	30	N	10	N	700	150	N	30
GA6641P	N	10	70	20	<50	N	N	50	50	N	<10	N	<200	150	N	30
GA6643P	N	15	150	30	70	N	N	30	50	N	10	N	<200	150	N	30
GA8858P	N	10	200	20	70	N	N	70	50	N	10	N	700	200	N	<20
GA8860P	N	10	100	15	150	N	N	20	30	N	10	N	1,500	70	N	<20
GA8862P	N	10	70	<10	70	N	N	15	30	N	<10	N	3,000	70	N	<20
GA8920P	N	15	150	50	70	N	N	70	200	N	10	N	<200	200	N	20
GA8922P	N	15	70	15	100	N	N	50	70	N	<10	N	1,500	100	N	N
GA8924P	N	15	100	15	100	N	N	70	70	N	<10	N	2,000	100	N	<20
HLM6613P	N	70	1,500	200	<50	N	N	150	100	N	15	N	<200	1,500	N	50
HLM6615P	N	10	150	10	70	N	<50	15	50	N	<10	N	300	150	N	150
HLM6617P	N	<10	300	<10	150	N	N	10	30	N	<10	N	200	150	N	50
HLM6619P	N	N	30	<10	70	N	N	10	30	N	<10	N	200	50	N	30
HLM6622P	N	N	100	<10	500	N	<50	10	30	N	<10	N	300	150	N	70
HLM6624P	N	10	70	10	500	N	N	10	20	N	<10	N	500	150	N	70
HLM6628P	N	15	150	30	70	N	N	50	30	N	10	N	<200	150	N	50
HLM6630P	N	10	100	10	50	N	N	20	50	N	<10	N	300	70	N	30
M00184	N	20	100	700	1,500	200	<50	30	2,000	500	10	N	<200	300	<100	100
M00184P	N	100	200	200	50	20	N	70	300	<200	10	N	<200	1,000	N	50
M00188P	N	10	10	70	20	<5	N	7	70	N	5	N	300	70	N	15
M00188P	N	15	20	200	700	N	70	10	700	N	<10	N	300	300	200	200
M00189P	N	10	15	20	30	N	<20	10	50	N	5	N	100	50	N	20
M00189P	N	15	<20	20	700	15	70	N	100	N	<10	<20	N	300	700	500
NLK5739P	N	10	100	10	<50	N	N	30	30	N	<10	N	1,500	70	N	N
NLK8903P	N	10	700	10	100	N	<50	50	30	N	<10	N	2,000	100	N	50
NLK8905P	N	10	50	10	50	N	N	30	50	N	<10	N	1,000	70	N	<20
NLK8907P	N	15	300	15	50	N	N	70	30	N	10	N	2,000	100	N	<20
NLK8909P	N	10	50	<10	50	N	N	30	30	N	<10	N	200	70	N	20
NLK8911P	N	15	100	10	70	N	N	50	30	N	<10	N	700	70	N	30
NLK8914P	N	<10	200	<10	50	N	N	<10	20	N	10	30	N	50	N	30
NLK8916P	N	N	70	10	70	N	N	10	70	N	<10	N	1,000	20	N	20
NLK8918P	N	N	50	<10	70	N	N	15	50	N	N	N	1,000	30	N	<20
NVM1010	N	20	30	500	<50	20	N	20	500	200	10	N	N	70	N	<20
NVM1010	N	15	50	300	50	20	N	15	500	200	10	N	N	100	N	<20
NVM1011	N	10	20	200	<50	20	N	15	300	N	N	N	N	30	N	N
NVM1011	N	<10	<20	150	<50	<10	N	<10	300	N	<10	N	N	30	N	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 2.PAN-CONCENTRATE SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2° CUSMAP QUADRANGLE, MONTANA(continued)

SAMPLE	S-ZN	S-ZR	S-TH	AA-AU
GA3503P	N	300	N	<.05
GA5741P	N	300	N	<.05
GA5743P	N	300	N	<.05
GA5745P	N	300	N	<.05
GA5747P	N	200	N	<.05
GA5749P	N	300	N	<.05
GA6633P	N	300	N	<.05
GA6635P	N	300	N	<.05
GA6637P	N	500	N	.07
GA6639P	N	300	N	<.05
GA6641P	N	150	N	<.05
GA6643P	N	200	N	<.05
GA8858P	N	300	N	<.05
GA8860P	N	2,000	N	<.05
GA8862P	N	70	N	<.05
GA8920P	N	N	N	<.05
GA8922P	N	300	N	<.05
GA8924P	N	300	N	<.05
HLM6613P	N	700	N	<.05
HLM6615P	N	>2,000	N	.15
HLM6617P	N	>2,000	N	<.05
HLM6619P	N	>2,000	N	<.05
HLM6622P	N	700	N	.09
HLM6624P	N	1,500	N	.27
HLM6628P	N	700	N	<.05
HLM6630P	N	300	N	<.05
M00184	N	700	N	--
M00184P	N	300	N	--
M00188P	N	100	N	.06
M00188P	N	2,000	N	--
M00189P	N	100	N	.14
M00189P	N	>2,000	N	--
NLK5739P	N	100	N	<.05
NLK8903P	N	>2,000	N	N
NLK8905P	N	300	N	N
NLK8907P	N	700	N	N
NLK8909P	N	700	N	N
NLK8911P	N	100	N	N
NLK8914P	N	>2,000	N	N
NLK8916P	N	1,000	N	N
NLK8918P	N	300	N	N
NVM1010	N	50	N	--
NVM1010	N	50	N	--
NVM1011	<500	50	N	--
NVM1011	N	150	<200	--

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 2.PAN-CONCENTRATE SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2°CUSMAP QUADRANGLE, MONTANA(continued)

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
ROC6873P	46 30 12	112 55 20	20.00	.20	2.00	1.000	2,000	N	N	N	N	300	N	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 2.PAN-CONCENTRATE SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2°CUSMAP QUADRANGLE, MONTANA(continued)

SAMPLE	S-CD	S-CO	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
ROC6873P	N	<10	70	10	1,500	N	<50	<10	20	N	<10	N	<200	300	N	150

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 2.PAN-CONCENTRATE SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°x2°CUSMAP QUADRANGLE, MONTANA(continued)

SAMPLE	S-ZN	S-ZR	S-TH	AA-AU
ROC6873P	N	1,500	N	1.15

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3. STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE, MONTANA (continued)

SAMPLE	S-CO	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
AV03508S	7	50	30	30	N	N	20	50	N	10	N	200	100	N	30	N	500
AV03510S	7	70	30	50	N	N	15	30	N	10	N	500	100	N	30	N	150
AV03512S	7	70	20	30	N	<20	10	30	N	10	N	300	100	N	20	N	200
AV03514S	10	70	50	50	N	<20	15	30	N	15	N	700	150	N	30	N	150
AV03517S	10	100	50	30	N	<20	30	50	N	7	N	200	100	N	30	N	150
AV03519S	10	500	50	50	N	<20	30	50	N	10	N	500	150	N	20	N	150
AV03525S	<5	10	7	70	N	20	5	50	N	5	N	<100	20	N	50	N	150
AV03526S	<5	10	20	70	N	20	5	70	N	7	N	100	20	N	70	N	150
AV03529S	10	70	30	50	N	<20	20	50	N	10	N	300	100	N	30	N	200
AV03531S	5	30	30	70	N	<20	7	30	N	7	N	300	70	N	30	N	200
AV03532S	<5	20	30	70	N	20	10	50	N	7	N	100	50	N	50	N	150
AV03534S	5	20	30	70	N	20	10	50	N	7	N	200	50	N	50	N	200
AV03536S	10	50	50	50	N	<20	20	50	N	10	N	200	100	N	30	<200	150
AV03538S	10	100	100	50	N	<20	50	50	N	15	N	500	200	N	20	N	200
AV03541S	7	50	30	50	N	<20	15	30	N	7	N	200	100	N	20	200	200
AV03543S	10	100	70	30	<5	<20	70	30	N	15	N	200	150	N	20	N	150
AV03544S	10	150	50	50	N	<20	70	50	N	15	N	300	150	N	30	N	200
AV03545S	15	150	50	30	N	N	70	30	N	15	N	300	150	N	20	N	200
AV03546S	20	700	50	20	N	<20	100	30	N	15	N	200	150	N	20	N	150
AV03547S	10	150	50	150	N	20	50	30	N	10	N	200	100	N	30	N	300
AV03548S	15	150	30	50	N	<20	50	20	N	15	N	200	200	N	20	N	200
AV03549S	15	700	50	30	N	<20	70	30	N	10	N	300	150	N	20	N	150
AV03550S	10	150	50	30	N	<20	50	30	N	10	70	300	150	N	20	N	150
AV03552S	7	20	30	50	5	<20	15	50	N	7	N	300	100	N	30	N	200
AV03554S	15	200	30	30	<5	<20	70	20	N	15	N	300	150	N	20	N	150
AV03555S	15	150	70	30	N	<20	70	50	N	15	N	300	150	N	30	N	200
AV03556S	10	70	100	30	N	<20	30	50	N	10	N	300	70	N	20	N	150
AV03558S	10	150	30	30	<5	<20	30	30	N	10	N	300	100	N	70	N	150
AV03560S	5	15	30	30	<5	30	10	50	N	5	10	150	30	N	100	N	150
BUN3127S	7	30	150	30	<5	<20	10	50	N	7	N	300	70	N	30	N	150
FIN162S	15	70	30	30	N	<20	30	30	N	7	N	<100	50	N	20	N	200
GA3127S	10	70	30	30	N	<20	30	30	N	10	N	200	150	N	20	N	150
GA3129S	10	70	30	30	N	<20	30	20	N	10	N	200	150	N	20	N	200
GA3131S	10	70	30	30	N	<20	30	20	N	10	N	150	150	N	20	N	300
GA3132S	7	50	30	30	N	N	15	30	N	5	N	200	70	N	20	N	200
GA3134S	7	70	30	50	N	N	50	30	N	7	N	500	70	N	20	N	150
GA3136S	15	100	30	50	N	<20	70	30	N	10	N	500	100	N	30	N	200
GA3453S	10	50	30	70	N	N	20	30	N	10	N	300	150	N	30	N	300
GA3454S	10	70	30	50	N	<20	30	50	N	10	N	300	150	N	20	N	300
GA3456S	7	30	30	30	N	N	15	30	N	7	N	300	70	N	30	N	150
GA3458S	7	50	20	30	N	N	15	20	N	7	N	300	70	N	20	N	200
GA3460S	7	30	20	50	N	N	15	20	N	7	N	300	70	N	30	N	200
GA3461S	15	500	20	30	N	N	100	30	N	15	N	500	100	N	20	N	200
GA3463S	7	70	20	50	5	N	15	30	N	10	N	500	100	N	30	N	300
GA3465S	15	500	30	30	N	N	100	20	N	20	N	300	150	N	20	N	150

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3.STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE,MONTANA (continued)

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
AV03508S	46 31 47	112 43 37	3.0	1.5	2.0	.50	700	N	N	N	70	700	2.0	N	N
AV03510S	46 32 6	112 41 7	3.0	1.5	2.0	.50	500	N	N	N	30	700	1.0	N	N
AV03512S	46 32 53	112 40 31	2.0	2.0	3.0	.70	700	N	N	N	50	700	1.5	N	N
AV03514S	46 32 25	112 37 21	5.0	2.0	3.0	.70	1,500	<.5	N	N	50	1,000	2.0	N	N
AV03517S	46 34 10	112 39 37	3.0	1.0	.7	.30	1,000	N	N	N	70	700	5.0	N	N
AV03519S	46 35 8	112 39 35	3.0	1.0	1.0	.50	1,000	N	N	N	20	1,000	2.0	N	N
AV03525S	46 34 0	112 30 52	1.5	.3	.5	.15	300	N	N	N	20	300	7.0	N	N
AV03526S	46 34 0	112 31 7	1.5	.3	.7	.20	500	N	N	N	30	200	7.0	N	N
AV03529S	46 34 47	112 33 29	3.0	1.0	1.5	.50	700	N	N	N	20	700	2.0	N	N
AV03531S	46 34 47	112 33 33	2.0	.5	.7	.30	700	<.5	N	N	30	500	2.0	N	N
AV03532S	46 33 29	112 31 46	2.0	.5	.7	.20	700	N	N	N	30	300	7.0	N	N
AV03534S	46 32 45	112 32 24	2.0	.5	.7	.20	1,000	N	N	N	30	300	7.0	N	N
AV03536S	46 31 32	112 31 51	3.0	1.0	1.5	.30	2,000	N	N	N	50	700	3.0	N	N
AV03538S	46 31 42	112 30 8	5.0	1.5	2.0	.70	1,000	N	N	N	50	700	2.0	N	N
AV03541S	46 30 57	112 32 14	2.0	.7	1.0	.50	1,500	.7	N	N	70	500	2.0	N	N
AV03543S	46 31 38	112 34 34	3.0	1.0	1.0	.50	500	N	N	N	70	500	2.0	N	N
AV03544S	46 31 38	112 34 34	5.0	1.5	1.5	.70	1,000	N	N	N	50	700	2.0	N	N
AV03545S	46 31 13	112 35 9	5.0	1.5	1.5	.50	1,500	N	N	N	15	500	1.5	N	N
AV03546S	46 31 11	112 35 6	5.0	2.0	1.5	.50	1,000	N	N	N	20	500	1.5	N	N
AV03547S	46 31 7	112 34 13	5.0	1.5	1.5	.70	1,500	N	N	N	30	500	1.5	N	N
AV03548S	46 30 43	112 34 10	7.0	1.5	1.5	.70	1,500	N	N	N	70	700	1.5	N	N
AV03549S	46 30 41	112 34 16	5.0	2.0	1.5	.30	1,500	N	N	N	20	700	1.5	N	N
AV03550S	46 30 37	112 34 24	5.0	1.5	1.0	.50	1,500	N	N	N	20	700	2.0	N	N
AV03552S	46 32 49	112 35 45	3.0	.7	1.5	.50	2,000	N	N	N	20	1,000	2.0	N	N
AV03554S	46 32 36	112 35 36	5.0	1.5	1.5	.70	1,500	N	N	N	20	700	1.5	N	N
AV03555S	46 34 47	112 35 20	5.0	1.5	1.0	.70	1,000	N	N	N	30	1,000	2.0	N	N
AV03556S	46 34 35	112 35 23	5.0	1.0	1.0	.30	1,000	N	N	N	30	700	2.0	N	N
AV03558S	46 34 4	112 36 2	3.0	1.0	1.0	.30	1,500	N	N	N	30	700	3.0	N	N
AV03560S	46 35 0	112 36 9	2.0	.5	1.0	.15	1,000	N	N	N	70	300	7.0	N	N
BUN3127S	46 40 51	112 58 2	3.0	.7	1.5	.30	1,000	1.0	N	N	30	300	10.0	N	N
FIN162S	46 52 4	112 37 46	3.0	.7	.7	.30	700	N	N	N	70	1,000	2.0	N	N
GA3127S	46 41 12	112 56 48	3.0	1.0	1.5	.50	700	N	N	N	100	500	1.5	N	N
GA3129S	46 39 58	112 58 12	3.0	1.5	7.0	.30	700	N	N	N	70	500	1.5	N	N
GA3131S	46 40 55	112 58 4	5.0	1.0	.7	.50	500	N	N	N	150	1,500	1.5	N	N
GA3132S	46 41 27	112 58 45	1.5	.3	1.0	.30	700	N	N	N	70	500	2.0	N	N
GA3134S	46 42 31	112 59 41	3.0	2.0	5.0	.30	700	N	N	N	50	700	2.0	N	N
GA3136S	46 42 29	112 59 46	3.0	1.5	3.0	.50	1,500	N	N	N	70	1,500	3.0	N	N
GA3453S	46 35 40	112 59 9	3.0	1.0	15.0	.70	1,000	N	N	N	70	1,000	2.0	N	N
GA3454S	46 35 40	112 59 9	3.0	1.5	15.0	.50	1,000	N	N	N	70	1,000	1.5	N	N
GA3456S	46 34 14	112 58 30	3.0	1.0	2.0	.50	1,000	N	N	N	70	700	2.0	N	N
GA3458S	46 33 26	112 59 7	3.0	1.0	.7	.30	700	N	N	N	70	700	1.5	N	N
GA3460S	46 32 36	112 59 5	2.0	1.0	1.5	.30	1,000	N	N	N	70	700	2.0	N	N
GA3461S	46 31 49	112 58 50	5.0	3.0	3.0	.30	1,500	N	N	N	50	1,000	2.0	N	N
GA3463S	46 34 50	112 56 13	5.0	1.5	3.0	.50	700	N	N	N	50	700	2.0	N	N
GA3465S	46 31 4	112 59 28	5.0	3.0	3.0	.50	1,000	N	N	N	50	700	1.5	N	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3. STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE, MONTANA (continued)

SAMPLE	S-TH	AA-CU	AA-PB	AA-ZN	AA-AG	AA-CD	AA-BI	AA-SB
AV03508S	N	21	19	24	.07	.59	<1	<1
AV03510S	N	14	13	20	.05	.37	2	1
AV03512S	N	9	13	20	<.05	.33	1	<1
AV03514S	N	18	11	22	<.05	.25	<1	1
AV03517S	N	28	18	37	<.05	.62	2	1
AV03519S	N	24	15	33	<.05	.45	<1	<1
AV03525S	N	6	8	12	.08	.19	1	1
AV03526S	N	17	26	34	.11	.70	2	1
AV03529S	N	19	20	32	.07	.68	2	1
AV03531S	--	14	11	18	.12	.35	<1	1
AV03532S	N	31	24	57	.18	.96	1	6
AV03534S	N	21	15	32	.11	.56	2	1
AV03536S	N	42	20	59	.26	.82	1	2
AV03538S	N	33	6	18	.09	.57	1	<1
AV03541S	N	25	14	42	.36	.56	1	2
AV03543S	N	69	22	39	.26	.56	1	1
AV03544S	N	32	21	35	.05	.83	1	1
AV03545S	N	37	16	67	.14	.74	1	<1
AV03546S	N	40	19	60	.12	.69	2	<1
AV03547S	N	25	18	32	.07	.68	2	<1
AV03548S	N	19	12	41	.14	.48	2	<1
AV03549S	--	39	10	39	.07	.40	<1	<1
AV03550S	N	36	15	76	.10	.60	1	<1
AV03552S	N	23	13	36	.09	.45	1	<1
AV03554S	N	18	6	33	<.05	.25	<1	<1
AV03555S	N	27	19	28	.05	.55	1	<1
AV03556S	N	58	35	79	.13	1.80	1	<1
AV03558S	N	18	9	30	<.05	.15	1	<1
AV03560S	N	23	19	44	.07	.55	1	<1
BUN3127S	N	--	--	--	--	--	--	--
FIN162S	N	45	18	28	.31	.30	1	2
GA3127S	N	17	13	27	.13	.65	1	N
GA3129S	N	15	8	29	.10	.55	<1	N
GA3131S	N	6	7	16	<.05	.40	<1	N
GA3132S	N	18	18	44	.11	.55	1	N
GA3134S	N	18	15	35	.12	.60	1	N
GA3136S	N	12	13	37	.07	.55	1	N
GA3453S	N	10	11	9	.09	.45	<1	N
GA3454S	N	12	14	13	.06	.45	1	N
GA3456S	N	16	12	16	.06	.55	1	N
GA3458S	N	7	7	13	<.05	.30	1	N
GA3460S	N	6	5	<1	<.05	.35	<1	N
GA3461S	N	5	8	16	<.05	.30	1	N
GA3463S	N	3	5	4	<.05	.15	1	N
GA3465S	N	7	9	17	.13	.35	<1	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3. STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE, MONTANA (continued)

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
GA3467S	46 31 2	112 59 12	3.0	2.0	3.0	.30	1,000	N	N	N	30	1,000	2.0	N	N
GA3469S	46 30 42	112 57 51	5.0	1.0	1.5	.30	1,000	N	N	N	50	1,000	2.0	N	N
GA3471S	46 30 37	112 58 6	3.0	1.0	1.5	.50	1,000	N	N	N	70	700	2.0	N	N
GA3473S	46 30 3	112 58 6	7.0	1.5	2.0	.50	1,000	N	N	N	70	700	2.0	N	N
GA3475S	46 30 31	112 55 29	1.5	1.0	7.0	.15	700	N	N	N	50	500	2.0	N	N
GA3477S	46 30 1	112 54 26	5.0	.7	2.0	.30	700	N	N	N	15	1,000	1.5	N	N
GA3480S	46 32 6	112 54 38	2.0	1.0	2.0	.50	700	N	N	N	30	700	2.0	N	N
GA3482S	46 32 15	112 54 48	3.0	1.0	1.5	.50	1,500	N	N	N	50	700	2.0	N	N
GA3484S	46 35 10	112 57 40	3.0	1.0	3.0	.50	1,500	N	N	N	70	500	2.0	N	N
GA3486S	46 35 5	112 57 1	2.0	1.0	2.0	.50	500	N	N	N	50	1,000	2.0	N	N
GA3492S	46 34 16	112 54 36	5.0	2.0	5.0	.70	700	N	N	N	70	700	2.0	N	N
GA3494S	46 33 28	112 55 4	5.0	1.5	1.5	.70	1,000	N	N	N	50	700	2.0	N	N
GA3496S	46 31 33	112 50 16	3.0	1.5	2.0	.50	1,500	<.5	N	N	70	1,000	2.0	N	N
GA3497S	46 31 9	112 49 7	7.0	1.0	2.0	.30	1,000	N	N	N	50	1,000	2.0	N	N
GA3498S	46 30 11	112 51 0	3.0	2.0	2.0	.30	1,000	N	N	N	70	700	1.5	N	N
GA3500S	46 30 1	112 50 41	3.0	1.5	2.0	.30	3,000	N	N	N	70	1,000	2.0	N	N
GA3502S	46 30 29	112 48 39	7.0	1.5	2.0	.50	1,000	N	N	N	50	1,000	1.5	N	N
GA3504S	46 30 13	112 47 37	3.0	1.0	3.0	.70	700	N	N	N	70	700	2.0	N	N
GA5630S	46 36 41	112 58 41	2.0	1.5	2.0	.30	700	N	N	N	15	300	1.5	N	N
GA5632S	46 36 41	112 58 35	3.0	1.5	3.0	.50	700	N	N	N	50	500	2.0	N	N
GA5634S	46 36 32	112 56 40	1.5	.7	1.0	.20	300	N	N	N	70	300	2.0	N	N
GA5636S	46 37 1	112 56 47	3.0	2.0	2.0	.70	700	N	N	N	15	700	1.5	N	N
GA5638S	46 40 57	112 58 56	3.0	.7	2.0	.50	500	N	N	N	70	1,000	3.0	N	N
GA5640S	46 39 51	112 57 41	3.0	1.5	2.0	.50	500	N	N	N	100	700	2.0	N	N
GA5642S	46 39 32	112 58 8	3.0	1.5	1.5	.50	700	N	N	N	70	700	2.0	N	N
GA5644S	46 42 17	112 55 6	3.0	1.0	1.5	.50	1,000	N	N	N	30	1,000	1.5	N	N
GA5646S	46 42 34	112 54 55	2.0	.7	1.0	.30	700	N	N	N	100	1,000	3.0	N	N
GA5648S	46 42 34	112 55 19	3.0	1.5	3.0	.50	500	N	N	N	N	1,500	1.5	N	N
GA5650S	46 42 56	112 55 14	5.0	1.0	3.0	.50	700	N	N	N	N	1,500	1.5	N	N
GA5652S	46 43 56	112 55 55	3.0	.7	1.0	.50	1,000	N	N	N	70	1,500	2.0	N	N
GA5654S	46 43 52	112 55 52	3.0	.7	1.5	.50	1,500	N	N	N	50	1,500	3.0	N	N
GA5656S	46 44 39	112 56 9	2.0	1.0	1.5	.30	1,000	N	N	N	10	1,500	3.0	N	N
GA5671S	46 34 14	112 50 11	3.0	1.0	10.0	.30	1,500	N	N	N	20	1,000	1.5	N	N
GA5673S	46 34 18	112 49 7	3.0	1.0	7.0	.30	700	N	N	N	30	500	2.0	N	N
GA5675S	46 40 24	112 47 40	3.0	.7	1.5	.20	1,500	N	N	N	20	1,000	7.0	N	N
GA5677S	46 41 8	112 47 39	2.0	.5	1.5	.30	1,000	N	N	N	10	1,500	2.0	N	N
GA5678S	46 40 21	112 47 35	5.0	.7	1.5	.50	5,000	N	N	N	20	1,500	7.0	N	N
GA5680S	46 41 8	112 47 55	3.0	.7	1.5	.50	2,000	N	N	N	10	1,500	5.0	N	N
GA5682S	46 41 8	112 47 55	3.0	.7	1.0	.30	1,500	N	N	N	10	1,500	3.0	N	N
GA5684S	46 40 19	112 47 22	3.0	.7	1.5	.50	1,500	N	N	N	<10	1,500	2.0	N	N
GA5686S	46 40 10	112 47 20	3.0	.7	1.5	.30	2,000	N	N	N	10	1,500	5.0	N	N
GA5688S	46 39 55	112 46 10	2.0	.7	1.5	.30	1,500	N	N	N	<10	1,500	2.0	N	N
GA5690S	46 39 35	112 46 18	2.0	.7	1.0	.30	1,500	N	N	N	<10	1,500	2.0	N	N
GA5692S	46 39 8	112 46 10	3.0	.7	1.0	.50	2,000	N	N	N	100	500	3.0	N	N
GA5695S	46 39 6	112 45 43	3.0	.5	1.5	.50	1,500	N	N	N	30	500	7.0	N	N

CHAPTER D

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3. STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE, MONTANA (continued)

SAMPLE	S-CO	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
GA3467S	10	150	30	70	N	N	50	30	N	15	N	500	150	N	20	N	150
GA3469S	10	100	30	70	N	N	30	30	N	15	N	300	150	N	30	N	200
GA3471S	10	70	50	50	N	N	30	30	N	10	N	300	100	N	30	N	200
GA3473S	10	70	30	70	N	<20	30	30	N	10	N	300	150	N	50	N	300
GA3475S	5	20	30	30	N	N	10	30	N	10	N	300	50	N	20	N	100
GA3477S	70	70	20	30	N	<20	15	20	N	5	N	500	100	N	20	N	200
GA3480S	70	50	30	50	N	N	15	30	N	7	N	500	100	N	50	N	300
GA3482S	70	50	30	30	5	N	15	30	N	7	N	500	100	N	30	N	200
GA3484S	7	70	50	30	7	N	20	50	N	10	N	300	100	N	30	N	200
GA3486S	7	50	20	70	N	N	10	30	N	7	15	500	70	N	30	N	300
GA3492S	10	70	30	50	N	N	20	30	N	10	N	500	150	N	30	N	300
GA3494S	10	50	50	700	N	<20	15	50	N	15	N	300	100	N	70	N	300
GA3496S	10	70	30	50	N	N	15	30	N	7	N	300	100	N	20	N	500
GA3497S	7	50	30	30	N	N	15	50	N	7	N	500	100	N	30	N	150
GA3498S	10	50	30	30	N	N	15	30	N	7	N	300	100	N	20	N	150
GA3500S	10	70	50	30	<5	N	20	50	N	7	N	300	100	N	20	N	200
GA3502S	10	70	30	500	N	70	20	30	N	7	N	500	150	N	200	N	300
GA3504S	10	70	70	30	N	<20	20	30	N	10	N	300	150	N	20	N	200
GA5630S	10	100	30	30	N	N	70	30	N	10	N	300	70	N	15	N	100
GA5632S	10	100	30	50	N	<20	50	30	N	10	N	300	100	N	20	N	150
GA5634S	5	20	30	30	N	N	10	30	N	5	N	200	70	N	15	<200	100
GA5636S	10	200	30	30	N	N	70	20	N	10	N	500	150	N	20	N	150
GA5638S	10	70	30	50	N	<20	30	20	N	7	N	300	70	N	20	N	150
GA5640S	10	70	30	50	N	<20	30	30	N	10	N	150	150	N	30	N	200
GA5642S	10	100	30	30	N	<20	50	30	N	10	10	200	100	N	20	N	200
GA5644S	10	100	30	50	N	<20	50	30	N	7	N	700	70	N	15	N	150
GA5646S	7	70	20	30	N	<20	30	20	N	5	N	300	7	N	20	N	200
GA5648S	10	150	30	50	N	<20	70	30	N	7	N	1,000	100	N	15	N	100
GA5650S	10	70	30	70	N	N	50	30	N	7	N	1,500	100	N	15	200	150
GA5652S	10	100	30	70	N	<20	30	50	N	10	N	500	100	N	20	N	200
GA5654S	10	100	30	70	N	<20	70	30	N	10	N	500	100	N	20	N	200
GA5656S	7	70	30	50	N	N	50	30	N	5	N	500	50	N	15	N	100
GA5671S	10	70	30	30	N	N	20	30	N	7	N	500	70	N	30	N	150
GA5673S	7	70	30	50	N	N	20	30	N	7	N	300	100	N	70	N	200
GA5675S	10	30	30	50	N	N	20	20	N	7	N	300	50	N	50	N	150
GA5677S	7	30	20	50	N	N	15	30	N	5	N	700	30	N	30	N	200
GA5678S	10	30	30	70	N	N	50	30	N	7	N	500	70	N	30	N	200
GA5680S	10	50	20	70	N	<20	20	30	N	7	N	700	50	N	30	N	300
GA5682S	7	50	20	70	N	N	15	30	N	5	N	700	50	N	20	N	150
GA5684S	10	30	20	50	N	N	20	30	N	5	N	700	70	N	20	N	150
GA5686S	10	50	30	50	N	N	50	20	N	7	N	500	70	N	20	N	150
GA5688S	10	70	30	50	N	N	30	30	N	5	N	1,000	50	N	20	N	150
GA5690S	10	50	20	50	N	N	50	30	N	5	N	500	50	N	10	N	150
GA5692S	7	50	30	30	N	N	20	30	N	5	N	100	70	N	20	N	150
GA5695S	10	50	50	50	N	<20	20	30	N	7	N	100	100	N	30	N	200

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3. STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE, MONTANA (continued)

SAMPLE	S-TH	AA-CU	AA-PB	AA-ZN	AA-AG	AA-CD	AA-BI	AA-SB
GA3467S	N	9	8	16	.06	.40	1	N
GA3469S	N	11	12	15	.05	.50	<1	N
GA3471S	N	10	11	22	<.05	.40	1	N
GA3473S	N	7	12	12	.07	.40	<1	N
GA3475S	N	11	9	10	<.05	.40	1	N
GA3477S	N	6	7	12	<.05	.35	1	N
GA3480S	N	14	12	14	.08	.35	2	N
GA3482S	N	18	15	23	.05	.65	2	N
GA3484S	N	24	16	38	<.05	.70	2	N
GA3486S	N	5	7	9	.17	.15	<1	N
GA3492S	N	11	9	12	.07	.30	1	N
GA3494S	N	26	19	34	<.05	.80	1	N
GA3496S	N	10	10	17	.06	.40	1	N
GA3497S	N	16	27	35	.05	.45	1	N
GA3498S	N	19	12	18	<.05	.50	1	N
GA3500S	N	36	22	42	.16	1.05	2	N
GA3502S	N	8	7	15	<.05	.25	3	N
GA3504S	N	34	16	33	.06	.65	1	1
GA5630S	N	14	12	26	.06	.30	<1	N
GA5632S	N	20	16	26	.08	.40	<1	N
GA5634S	N	18	20	66	.13	.55	1	N
GA5636S	N	8	10	19	<.05	.20	<1	N
GA5638S	N	12	15	53	.06	.40	<1	N
GA5640S	N	16	15	40	.15	1.00	<1	1
GA5642S	N	16	19	46	.09	.85	1	N
GA5644S	N	7	13	35	.05	1.70	<1	N
GA5646S	N	8	11	19	.10	.50	<1	N
GA5648S	N	10	9	26	.13	.30	<1	N
GA5650S	N	6	7	15	.07	.30	<1	N
GA5652S	N	12	19	22	.07	.50	<1	1
GA5654S	N	12	12	23	.11	.40	<1	1
GA5656S	N	11	13	15	.18	.30	<1	N
GA5671S	N	17	12	13	.07	.40	1	1
GA5673S	N	15	16	36	.10	.85	<1	5
GA5675S	N	21	23	35	.51	1.05	<1	2
GA5677S	N	7	10	12	.11	.70	<1	N
GA5678S	N	15	16	31	.30	.75	<1	1
GA5680S	N	7	12	12	.16	.30	<1	N
GA5682S	N	7	12	12	.15	.35	<1	N
GA5684S	N	8	12	15	.11	.35	<1	N
GA5686S	N	18	17	29	.30	.65	<1	N
GA5688S	N	10	12	23	.10	.35	<1	N
GA5690S	N	8	11	20	.07	.35	<1	N
GA5692S	N	14	20	56	.10	1.00	<1	4
GA5695S	N	45	36	123	.18	2.05	2	3

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3.STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE,MONTANA (continued)

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
GA5697S	46 38 54	112 45 33	2.0	.7	3.0	.30	1,500	N	N	N	50	700	7.0	N	N
GA5699S	46 37 15	112 45 44	1.5	.3	2.0	.15	1,000	.5	N	N	30	200	3.0	<10	N
GA5716S	46 38 34	112 55 8	2.0	1.5	1.5	.20	700	N	N	N	30	500	2.0	N	N
GA5718S	46 39 0	112 55 3	3.0	1.5	1.5	.30	500	N	N	N	30	300	2.0	N	N
GA5720S	46 39 42	112 54 44	2.0	1.0	.7	.30	300	N	N	N	50	500	2.0	N	N
GA5722S	46 35 38	112 55 39	1.5	1.0	5.0	.20	500	N	N	N	50	300	2.0	N	N
GA5724S	46 35 59	112 53 56	1.5	1.0	3.0	.20	500	N	N	N	50	300	1.5	N	N
GA5726S	46 37 5	112 53 20	1.5	1.0	2.0	.20	300	N	N	N	70	500	2.0	N	N
GA5728S	46 37 50	112 53 15	2.0	.7	.5	.30	500	N	N	N	70	500	2.0	N	N
GA5730S	46 40 2	112 53 34	1.5	.7	1.5	.30	300	N	N	N	30	500	1.5	N	N
GA5732S	46 41 13	112 53 54	3.0	1.0	.7	.50	700	N	N	N	70	500	1.5	N	N
GA5734S	46 40 8	112 51 53	5.0	.7	.7	.50	1,000	N	N	N	100	700	2.0	N	N
GA5736S	46 40 18	112 51 59	1.0	.3	20.0	.07	300	N	N	N	10	150	1.0	N	N
GA5742S	46 43 20	112 53 17	3.0	1.5	1.5	.50	1,000	N	N	N	70	2,000	3.0	N	N
GA5744S	46 43 15	112 53 17	5.0	1.5	2.0	.50	1,500	N	N	N	20	1,500	2.0	N	N
GA5746S	46 43 15	112 53 17	3.0	1.0	2.0	.50	1,000	N	N	N	20	1,500	2.0	N	N
GA5748S	46 44 29	112 50 46	3.0	1.0	1.5	.70	500	N	N	N	15	2,000	2.0	N	N
GA5750S	46 41 44	112 51 42	5.0	2.0	2.0	.70	700	N	N	N	20	2,000	1.5	N	N
GA6601S	46 36 9	112 46 54	2.0	1.0	3.0	.20	700	1.0	N	N	50	1,000	2.0	N	N
GA6603S	46 35 52	112 47 25	3.0	.7	1.0	.50	700	<.5	N	N	100	700	3.0	N	N
GA6605S	46 35 31	112 47 58	3.0	.7	1.0	.30	700	N	N	N	70	500	2.0	N	N
GA6607S	46 35 35	112 48 1	1.5	.5	.7	.20	700	N	N	N	30	500	3.0	N	N
GA6609S	46 34 32	112 48 18	2.0	.7	.7	.30	500	N	N	N	70	300	2.0	N	N
GA6611S	46 33 32	112 49 47	3.0	1.0	3.0	.20	1,000	N	N	N	70	300	2.0	N	N
GA6634S	46 37 45	112 50 26	3.0	1.0	1.5	.50	700	N	N	N	70	700	2.0	N	N
GA6636S	46 35 10	112 50 47	2.0	1.0	1.5	.30	700	<.5	N	N	70	700	2.0	N	N
GA6638S	46 35 8	112 50 41	3.0	1.5	3.0	.50	1,000	N	N	N	70	500	2.0	N	N
GA6640S	46 34 7	112 51 52	3.0	1.5	2.0	.50	500	N	N	N	50	1,500	1.5	N	N
GA6642S	46 33 22	112 49 52	3.0	2.0	7.0	.50	1,000	<.5	N	N	70	700	2.0	N	N
GA6644S	46 32 6	112 45 38	2.0	1.0	3.0	.30	700	N	N	N	70	700	2.0	N	N
GA6645S	46 31 44	112 47 4	3.0	1.0	.5	.50	1,000	<.5	N	N	70	500	1.5	N	N
GA6646S	46 31 35	112 47 45	2.0	1.5	3.0	.30	1,000	N	N	N	70	300	2.0	N	N
GA8857S	46 43 35	112 47 49	5.0	1.0	1.5	.50	700	N	N	N	70	1,500	3.0	N	N
GA8859S	46 43 28	112 47 57	3.0	1.0	1.5	.30	700	N	N	N	N	1,500	2.0	N	N
GA8861S	46 43 27	112 47 43	2.0	.7	1.5	.30	700	N	N	N	10	1,500	5.0	N	N
GA8919S	46 44 16	112 59 29	5.0	1.5	1.5	.50	1,500	N	N	N	150	1,000	2.0	N	N
GA8921S	46 44 16	112 59 3	3.0	.5	1.5	.50	700	N	N	N	10	2,000	1.5	N	N
GA8923S	46 44 8	112 58 59	3.0	.7	2.0	.50	3,000	N	N	N	10	1,500	3.0	N	N
HLM5658S	46 45 35	112 56 28	2.0	1.0	3.0	.30	700	N	N	N	50	1,000	5.0	N	N
HLM5660S	46 46 30	112 56 40	3.0	1.5	1.5	.50	700	N	N	N	200	700	2.0	N	N
HLM5662S	46 46 23	112 54 36	2.0	.7	.3	.50	300	N	N	N	150	1,000	3.0	N	N
HLM5663S	46 46 39	112 55 45	3.0	.7	.7	.50	2,000	N	N	N	50	700	1.5	N	N
HLM5665S	46 47 36	112 56 42	3.0	.7	.5	.30	1,500	N	N	N	100	1,500	3.0	N	N
HLM5667S	46 48 17	112 56 27	3.0	7.0	.7	.30	1,000	N	N	N	100	1,500	3.0	N	N
HLM5669S	46 49 27	112 55 46	5.0	1.5	3.0	.50	700	N	N	N	30	2,000	1.5	N	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3. STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE, MONTANA (continued)

SAMPLE	S-CO	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
GA5697S	5	50	50	30	N	N	15	50	N	7	N	100	70	N	30	N	150
GA5699S	5	50	70	30	N	N	15	50	N	5	N	<100	50	N	20	N	100
GA5716S	7	100	30	30	N	<20	30	30	N	7	N	200	70	N	20	N	100
GA5718S	7	150	20	30	N	<20	30	20	N	7	N	150	100	N	20	N	200
GA5720S	7	50	15	30	N	<20	15	15	N	5	N	100	70	N	20	N	200
GA5722S	5	30	20	30	N	N	15	20	N	<5	N	150	70	N	20	N	150
GA5724S	5	30	20	30	N	N	15	30	N	5	N	150	70	N	15	N	150
GA5726S	7	50	30	30	N	N	15	30	N	5	N	150	70	N	20	N	150
GA5728S	7	70	15	20	N	<20	15	20	N	5	N	100	100	N	20	N	300
GA5730S	5	30	15	30	N	N	15	20	N	5	N	100	70	N	15	N	150
GA5732S	7	70	30	20	N	N	30	20	N	7	N	100	150	N	20	N	150
GA5734S	10	70	30	30	N	N	50	20	N	10	N	100	150	N	20	N	200
GA5736S	N	30	10	<20	N	N	5	15	N	<5	N	200	20	N	10	N	30
GA5742S	10	100	20	50	N	N	30	30	N	7	N	500	70	N	30	N	300
GA5744S	10	150	30	70	N	N	70	30	N	7	N	700	70	N	20	N	300
GA5746S	10	150	30	70	N	<20	70	30	N	7	N	700	70	N	20	N	300
GA5748S	10	150	20	70	N	<20	50	50	N	7	N	1,000	100	N	15	N	300
GA5750S	15	150	50	70	N	<20	70	30	N	10	N	1,000	100	N	20	N	200
GA6601S	7	30	30	30	N	N	15	20	N	5	N	100	70	N	20	N	150
GA6603S	10	70	50	50	N	<20	30	30	N	10	N	100	100	N	30	N	200
GA6605S	10	70	30	20	N	N	30	30	N	7	N	150	100	N	20	N	100
GA6607S	<5	20	30	30	N	N	5	50	N	5	N	200	50	N	20	N	150
GA6609S	7	50	20	30	N	<20	20	30	N	5	N	150	70	N	20	N	150
GA6611S	7	70	30	30	N	N	20	30	N	7	N	300	70	N	20	N	150
GA6634S	10	70	50	50	N	<20	50	30	N	10	N	200	150	N	30	N	500
GA6636S	7	70	50	50	N	<20	20	50	N	7	N	<100	100	N	20	N	200
GA6638S	7	50	50	50	N	<20	20	50	N	7	N	150	100	N	20	N	300
GA6640S	7	70	50	30	N	N	20	50	N	7	N	300	100	N	20	N	200
GA6642S	10	70	30	50	N	<20	20	30	N	7	N	300	100	N	20	N	200
GA6644S	5	70	30	50	N	<20	15	50	N	7	N	150	70	N	20	N	200
GA6645S	7	50	100	50	N	N	20	70	N	7	N	150	100	N	30	N	300
GA6646S	7	50	20	50	N	N	15	30	N	5	N	200	70	N	20	N	300
GA8857S	15	100	30	70	N	N	70	30	N	10	N	700	100	N	30	N	150
GA8859S	10	70	15	50	N	N	30	20	N	7	N	700	70	N	15	N	150
GA8861S	7	20	20	50	N	N	15	20	N	5	N	1,000	70	N	20	N	100
GA8919S	10	50	30	50	N	N	30	100	N	10	N	200	100	N	30	N	300
GA8921S	7	100	30	70	N	<20	30	30	N	10	N	700	70	N	20	N	200
GA8923S	15	100	30	70	N	<20	70	30	N	10	N	500	100	N	30	N	200
HLM5658S	7	50	30	50	N	<20	30	30	N	7	N	300	70	N	20	N	150
HLM5660S	10	70	20	70	N	<20	50	30	N	7	N	200	100	N	30	N	200
HLM5662S	7	100	20	50	N	<20	30	20	N	5	N	100	50	N	50	N	500
HLM5663S	10	50	20	30	N	<20	30	30	N	5	N	150	70	N	15	N	200
HLM5665S	7	50	30	30	N	<20	20	20	N	7	N	100	70	N	30	N	200
HLM5667S	10	70	30	50	N	<20	30	30	N	7	N	200	70	N	30	N	200
HLM5669S	15	100	30	70	N	<20	70	30	N	7	N	700	100	N	20	N	150

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3.STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE,MONTANA (continued)

SAMPLE	S-TH	AA-CU	AA-PB	AA-ZN	AA-AG	AA-CD	AA-BI	AA-SB
GA5697S	N	77	51	150	.34	2.15	4	7
GA5699S	N	112	70	200	.38	2.30	5	7
GA5716S	N	12	10	20	.08	.30	<1	N
GA5718S	N	6	10	21	.09	.20	<1	N
GA5720S	N	3	9	18	.05	1.70	<1	N
GA5722S	N	14	17	20	.12	.60	<1	N
GA5724S	N	13	16	17	.12	.55	<1	N
GA5726S	N	29	25	65	.24	.85	1	N
GA5728S	N	6	13	24	.06	.25	<1	N
GA5730S	N	5	10	23	.06	.40	<1	N
GA5732S	N	6	8	18	.06	.30	<1	N
GA5734S	N	16	15	36	.16	.65	<1	N
GA5736S	N	6	7	19	.13	.50	<1	N
GA5742S	N	9	12	20	<.05	.40	<1	1
GA5744S	N	14	13	34	<.05	.55	<1	1
GA5746S	N	14	14	37	<.05	.55	<1	1
GA5748S	N	3	7	2	<.05	.05	<1	N
GA5750S	N	11	13	30	.25	.35	<1	1
GA6601S	N	11	10	16	.07	.40	1	1
GA6603S	N	32	15	64	.22	.90	1	1
GA6605S	N	22	16	49	.14	.55	1	1
GA6607S	N	20	21	46	.14	.70	1	1
GA6609S	N	22	20	35	.13	.60	1	N
GA6611S	N	32	17	42	.15	.85	1	1
GA6634S	N	26	15	43	<.05	.85	1	1
GA6636S	N	36	26	30	<.05	1.00	2	1
GA6638S	N	25	21	18	<.05	.80	1	1
GA6640S	N	37	20	<1	<.05	.85	<1	N
GA6642S	N	22	19	<1	.05	.75	<1	1
GA6644S	N	27	27	49	.07	.85	<1	N
GA6645S	N	75	46	<1	.28	2.35	1	1
GA6646S	N	16	15	<1	<.05	.65	<1	N
GA8857S	N	10	24	14	.23	.30	<1	1
GA8859S	N	8	21	13	.15	.40	<1	1
GA8861S	N	12	25	9	.25	.50	<1	1
GA8919S	N	17	62	4	<.05	.60	<1	22
GA8921S	N	13	8	<1	<.05	.25	<1	N
GA8923S	N	12	7	<1	.05	.30	<1	N
HLM5658S	N	19	23	43	.20	.75	1	1
HLM5660S	N	8	11	11	<.05	.20	<1	1
HLM5662S	N	5	5	5	<.05	.15	<1	1
HLM5663S	N	4	13	20	<.05	.25	<1	1
HLM5665S	N	13	9	20	.09	.25	<1	1
HLM5667S	N	13	10	15	.05	.30	<1	1
HLM5669S	N	15	13	14	.18	.35	<1	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3.STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE,MONTANA (continued)

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
HLM6614S	46 50 38	112 53 50	7.0	3.0	3.0	.70	1,000	N	N	N	30	700	1.5	N	N
HLM6616S	46 49 29	112 53 0	1.5	.5	.7	.20	500	N	N	N	50	1,000	1.5	N	N
HLM6618S	46 49 32	112 53 36	5.0	1.0	.7	.50	1,000	N	N	N	70	1,000	2.0	N	N
HLM6620S	46 49 34	112 54 2	2.0	.5	1.5	.30	300	N	N	N	50	1,500	2.0	N	N
HLM6621S	46 52 20	112 59 28	.3	.2	3.0	.05	150	N	N	N	50	300	1.5	N	N
HLM6623S	46 50 50	112 58 28	1.5	.5	1.5	.50	500	N	N	N	70	700	1.5	N	N
HLM6625S	46 50 20	112 57 3	1.5	1.5	2.0	.30	700	N	N	N	50	1,000	1.5	N	N
HLM6626S	46 49 3	112 59 9	3.0	1.5	7.0	.70	1,000	N	N	N	30	1,500	1.5	N	N
HLM6627S	46 49 1	112 59 21	3.0	1.5	10.0	.30	1,000	N	N	N	50	1,000	2.0	N	N
HLM6629S	46 47 20	112 59 19	3.0	1.5	1.0	.50	1,000	N	N	N	150	1,500	3.0	N	N
HLM6631S	46 47 20	112 59 13	3.0	1.0	1.0	.50	1,000	N	N	N	70	1,500	3.0	N	N
HLM8925S	46 45 33	112 59 49	3.0	1.0	1.5	.50	1,000	N	N	N	70	1,500	2.0	N	N
NLK5740S	46 46 38	112 49 13	3.0	1.5	2.0	.70	500	N	N	N	15	2,000	1.5	N	N
NLK8902S	46 46 52	112 47 47	5.0	1.5	3.0	1.00	1,000	N	N	N	<10	2,000	1.5	N	N
NLK8904S	46 46 40	112 47 53	3.0	1.0	1.5	.70	1,000	N	N	N	20	1,500	2.0	N	N
NLK8906S	46 46 43	112 47 59	5.0	2.0	2.0	.70	1,500	N	N	N	N	2,000	2.0	N	N
NLK8908S	46 45 14	112 47 22	5.0	3.0	2.0	.70	1,500	N	N	N	<10	3,000	2.0	N	N
NLK8910S	46 48 23	112 50 30	3.0	1.0	1.0	.30	1,500	N	N	N	100	1,500	5.0	N	N
NLK8912S	46 48 22	112 50 20	3.0	1.0	1.0	.50	1,000	N	N	N	30	1,500	2.0	N	N
NLK8913S	46 48 51	112 51 19	2.0	.7	.5	.30	1,000	N	N	N	100	1,000	3.0	N	N
NLK8915S	46 46 32	112 46 3	3.0	.7	1.5	.30	1,500	N	N	N	30	1,500	3.0	N	N
NLK8917S	46 46 12	112 45 26	3.0	1.0	1.5	.50	3,000	N	N	N	20	1,500	2.0	N	N
RGA6872S	46 30 12	112 55 20	5.0	1.0	1.5	.50	1,000	N	N	N	70	700	2.0	N	N

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3.STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE,MONTANA (continued)

SAMPLE	S-CO	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
HLM6614S	10	150	70	50	N	<20	50	30	N	10	N	500	200	N	30	N	150
HLM6616S	<5	20	7	30	N	<20	10	30	N	5	N	500	30	N	20	N	200
HLM6618S	10	70	50	50	N	<20	30	30	N	10	N	200	70	N	30	N	300
HLM6620S	7	50	15	30	N	<20	15	30	N	5	N	700	50	N	30	N	300
HLM6621S	N	10	20	20	N	N	5	30	N	<5	N	300	30	N	<10	N	30
HLM6623S	7	20	10	50	N	N	7	30	N	5	N	500	50	N	20	N	200
HLM6625S	5	20	20	20	N	N	7	30	N	<5	N	300	50	N	20	N	200
HLM6626S	15	70	20	50	N	<20	30	30	N	10	N	1,000	100	N	30	N	300
HLM6627S	10	50	30	50	N	<20	20	50	N	10	N	1,000	70	N	20	N	150
HLM6629S	10	100	30	70	N	<20	50	30	N	10	N	300	100	N	30	N	300
HLM6631S	10	70	30	70	N	<20	30	50	N	10	N	300	70	N	20	N	200
HLM8925S	15	100	30	70	N	<20	70	30	N	10	N	300	100	N	20	N	300
NLK5740S	10	150	20	70	N	<20	70	30	N	7	N	1,000	100	N	15	N	300
NLK8902S	10	150	30	30	N	<20	50	30	N	7	N	1,500	150	N	10	N	700
NLK8904S	10	70	30	70	N	<20	50	50	N	7	N	700	100	N	20	N	300
NLK8906S	15	150	30	100	N	N	70	50	N	10	N	1,000	150	N	20	N	300
NLK8908S	15	200	30	70	N	<20	100	30	N	10	N	1,500	150	N	15	N	200
NLK8910S	10	70	50	50	N	<20	30	50	N	10	N	300	100	N	30	N	300
NLK8912S	10	100	30	70	N	<20	70	30	N	10	N	700	100	N	20	N	300
NLK8913S	7	70	20	30	N	<20	20	30	N	7	N	200	70	N	30	N	200
NLK8915S	10	70	30	70	N	<20	30	30	N	7	N	700	100	N	30	N	300
NLK8917S	10	100	30	70	N	<20	50	30	N	10	N	700	100	N	20	N	200
RGA6872S	7	50	50	150	N	<20	15	50	N	10	N	300	100	N	50	N	300

CHAPTER D

LATITUDE 46°30'-47°00' LONGITUDE 112°30'-113°00'

TABLE 3.STREAM-SEDIMENT SAMPLE LOCALITY AND ANALYSES IN THE BUTTE 1°X2° CUSMAP QUADRANGLE,MONTANA (continued)

SAMPLE	S-TH	AA-CU	AA-PB	AA-ZN	AA-AG	AA-CD	AA-BI	AA-SB
HLM6614S	N	26	18	16	.70	.45	1	N
HLM6616S	N	4	5	25	1.89	.10	<1	N
HLM6618S	N	12	12	12	1.42	.15	<1	1
HLM6620S	N	28	28	20	6.68	.55	<1	N
HLM6621S	N	7	6	3	1.44	.20	1	N
HLM6623S	N	5	4	5	2.02	.15	<1	N
HLM6625S	N	14	9	8	1.01	.35	1	1
HLM6626S	N	13	7	17	1.62	.25	1	1
HLM6627S	N	12	10	9	1.21	.40	1	1
HLM6629S	N	18	8	14	.60	.15	1	N
HLM6631S	N	12	8	13	.74	.25	1	1
HLM8925S	N	14	13	2	<.05	.25	<1	N
NLK5740S	N	9	9	41	<.05	.20	<1	N
NLK8902S	N	5	4	22	.05	.24	<1	<1
NLK8904S	N	14	9	30	.15	.22	1	1
NLK8906S	N	10	7	28	.11	.42	<1	1
NLK8908S	N	8	6	25	.08	.13	<1	2
NLK8910S	N	16	12	25	.15	.41	<1	2
NLK8912S	N	8	5	19	.08	.16	1	2
NLK8913S	N	8	7	13	.05	.36	<1	<1
NLK8915S	N	13	9	21	.09	.36	<1	2
NLK8917S	N	15	10	45	.20	.80	<1	2
RGA6872S	N	21	20	25	.18	.50	1	N