

DEPARTMENT OF THE INTERIOR

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Tables showing analyses of semiquantitative spectrometry and atomic-absorption spectrophotometry of rock samples collected in the Ugashik, Bristol Bay, and western part of the Karluk quadrangles, Alaska

by

Frederic H. Wilson<sup>1</sup>, and Richard M. O'Leary<sup>2</sup>

Open file Report 87-419

To accompany MF-1539C, Maps and tables showing data and analyses of semiquantitative emission spectrometry and atomic-absorption spectrophotometry of rock samples, Ugashik, Bristol Bay, and part of Karluk quadrangles, Alaska.

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

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### Introduction

The accompanying tables list chemical analyses of 337 rock samples that were collected in 1979, 1980, and 1981 in conjunction with geologic mapping in the Ugashik, Bristol Bay, and part of Karluk quadrangles. This work was conducted under the auspices of the Alaska Mineral Resource Assessment Program (AMRAP). This report is to accompany Wilson and O'Leary (1986) which inadvertently is missing most of the data tables listed here. Together the two reports contain the complete data from all samples collected for the Ugashik AMRAP.

Sample data is coded by sample type and source, by rock type and name, the outcrop form, and the 1:63,360 quadrangle from which the sample was collected. They are also coded to indicate whether the sample is "background" or "mineralized", and whether the collection is for a primary, resample, replicate analysis, or is a collection for reanalysis. The sample coding is described in Wilson and O'Leary (1986).

Samples were collected by the following investigators, with their respective two letter identifying code shown in parentheses: W.H. Allaway (AY), James E. Case (CE), D.P. Cox (CX), Robert L. Detterman (DT), John W. Miller (JM), James R. Riehle (RJ), T.G. Theodore (MK), Nora B. Shew (SH), Frederic H. Wilson (WS), and M. Elizabeth Yount (YB). These identifying codes are used in Wilson and O'Leary (1986) and in Table 1 herein.

### Analytical methodology

The samples were analyzed with a DC-arc emission spectrograph using a six-step, semiquantitative method described by Grimes and Maranzino (1968). In addition, atomic absorption spectrophotometry was used to determine copper, lead, gold, silver, and zinc. Instrumental mercury and specific ion fluorine analyses were also

performed on some samples. Analysts were: R.M. O'Leary, D. Risoli, A. Grunsky, J. Hurrell, D.M. Hopkins, G.W. Day, and Stephen Sutley.

The semiquantitative emission spectrographic analyses have values reported in six steps per order of magnitude. These steps are the approximate midpoints of the class intervals shown below:

Reported value	Class interval
1.0	0.83 --- 1.2
1.5	1.2 --- 1.8
2.0	1.8 --- 2.6
3.0	2.6 --- 3.8
5.0	3.8 --- 5.6
7.0	5.6 --- 8.3

Matooka and Grimes (1976) evaluated the precision of semiquantitative emission spectrographic analyses; repeatability of a determination within plus and minus one and two reported values is approximately 83 and 96 percent respectively. Analyses done by AA are not reported on a six step scale; the quantitative values reflect both the higher precision and lower determination limits of this method.

#### References cited

- Grimes, D.J., and Maranzino, A.P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6p.
- Matooka, J.M., and Grimes, D.J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analysis: U.S. Geological Survey Circular 738, 25 p.
- Wilson, F.H., and O'Leary, R.M., 1986, Maps and tables showing data and analyses of semiquantitative emission spectrometry and atomic-absorption spectrophotometry of rock samples, Ugashik, Bristol Bay, and part of Karluk quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1539C, 3 sheets, scale 1:250,000.

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be
79MK16	57 3 19	157 12 53	2.0	.20	<.05	.070	<10	N	N	N	N	700	<1.0
79MK17	57 3 16	157 12 50	3.0	.20	<.05	.070	<10	<.5	N	N	N	500	<1.0
79MK18	57 3 16	157 12 44	10.0	3.00	1.50	.700	300	<.5	N	N	N	300	N
79MK19	57 3 37	157 13 23	2.0	1.00	1.00	.700	100	<.5	N	N	N	150	N
79MK20	57 3 37	157 13 26	1.0	.15	.20	.070	<10	<.5	N	N	N	700	N
79MK21	57 3 38	157 13 26	.5	.15	.05	.070	<10	N	N	N	N	700	<1.0
79MK22	57 3 38	157 13 20	5.0	1.50	.30	.300	150	.5	N	N	N	500	<1.0
79MK23	57 3 39	157 13 14	3.0	2.00	<.05	.500	70	<.5	N	N	N	700	1.0
79MK25	57 3 46	157 12 50	10.0	2.00	1.50	.500	300	N	N	N	N	700	<1.0
79MK26	57 3 55	157 12 45	10.0	3.00	2.00	1.000	500	N	N	N	N	500	<1.0
79MK27	57 3 55	157 12 45	10.0	3.00	3.00	.700	3,000	N	N	N	N	700	<1.0
79MK28	57 4 07	157 12 18	15.0	5.00	2.00	>1.000	300	1.0	N	N	N	300	<1.0
79MK30	57 4 12	157 12 07	15.0	3.00	2.00	>1.000	200	N	N	N	N	300	<1.0
79MK31	57 4 13	157 11 57	10.0	2.00	1.00	.700	500	.5	N	N	N	200	<1.0
79MK32	57 4 13	157 11 57	10.0	2.00	3.00	.300	300	N	N	N	N	200	<1.0
79MK33	57 4 14	157 11 51	15.0	.70	.07	.500	150	N	N	N	N	100	<1.0
79MK34	57 4 15	157 11 45	3.0	2.00	.50	.700	150	.7	N	N	N	700	<1.0
79MK35	57 4 04	157 11 52	2.0	.20	<.05	.070	<10	<.5	N	N	N	500	1.0
79MK36	57 3 53	157 12 11	1.0	.20	<.05	.050	<10	.5	N	N	N	1,000	1.0
79MK37	57 3 40	157 12 39	7.0	3.00	2.00	.700	500	N	N	N	N	300	<1.0
79MK24	57 3 46	157 12 50	10.0	2.00	1.50	.500	300	<.5	N	N	N	700	<1.0
79MK24	57 3 46	157 12 50	10.0	2.00	1.00	.700	500	N	N	N	N	700	<1.0
79MK29	57 4 11	157 12 11	15.0	3.00	2.00	1.000	1,000	N	N	N	N	700	<1.0
79MK29	57 4 11	157 12 11	10.0	3.00	2.00	.700	700	N	N	N	N	500	<1.0
79CE65A	57 16 20	156 43 10	3.0	1.00	1.50	.500	1,000	N	N	N	N	500	1.0
79CE082A	57 2 29	157 2 42	3.0	7.00	1.50	.200	3,000	N	200	N	N	30	<1.0
79DT083	57 3 48	157 10 50	3.0	1.50	1.00	.700	3,000	N	N	N	N	300	<1.0
79DT091A	57 3 9	157 0 19	5.0	2.00	3.00	1.000	500	N	N	N	100	200	1.5
79WS011B	57 3 54	157 1 3	3.0	1.00	.15	.500	700	N	N	N	70	300	1.0
79DT131	57 41 25	156 21 41	10.0	3.00	3.00	>1.000	1,000	N	N	N	20	500	<1.0
79DT099	57 3 42	156 53 32	10.0	1.50	.70	.700	700	N	N	N	20	500	1.0
79DT091B	57 3 9	157 0 19	5.0	2.00	2.00	.700	700	N	N	N	30	500	1.0
79WS503	57 0 33	157 3 23	5.0	2.00	1.00	.500	700	N	N	N	20	300	1.0
79CE089A	57 11 16	156 49 1	3.0	1.50	1.50	.300	700	N	N	N	300	300	<1.0
79WS11A	57 3 54	157 1 3	7.0	2.00	.30	1.000	1,000	N	N	N	50	500	1.0
79CE086A	57 17 16	157 16 5	10.0	5.00	5.00	>1.000	1,000	N	N	N	<10	100	<1.0
79CE085A	57 17 49	157 18 12	10.0	2.00	3.00	>1.000	700	N	N	N	N	200	1.0
79CE075B	57 2 31	157 13 22	10.0	2.00	1.00	.700	1,000	N	N	N	30	500	1.0
79WS011C	57 3 54	157 1 3	5.0	2.00	2.00	.500	700	N	N	N	N	300	<1.0
79DT077	57 0 2	157 49 40	15.0	3.00	3.00	1.000	1,500	N	N	N	<10	500	1.0
79CE072A	57 1 8	157 11 3	5.0	2.00	2.00	.500	1,000	N	N	N	15	300	1.0
79DT100	57 4 20	156 53 10	10.0	.70	<.05	.500	200	.5	N	N	70	200	1.0
79CE077	57 1 53	157 5 57	10.0	2.00	.10	.300	1,000	N	N	N	30	150	1.0
79WS008	57 3 30	157 13 53	>20.0	<.02	<.05	.015	30	<.5	N	N	<10	N	<1.0
79DT099A	57 4 5	156 53 30	10.0	2.00	.70	.700	700	N	N	N	N	300	1.0

Sample No.	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
79MK16	N	N	5	<10	20	<20	N	<20	5	N	N	<5	15
79MK17	N	N	<5	10	10	20	N	<20	5	N	N	<5	15
79MK18	<10	N	15	100	300	N	N	N	50	<10	N	20	N
79MK19	N	N	5	20	100	N	N	N	20	<10	N	<5	N
79MK20	N	N	N	<10	50	<20	5	N	7	10	N	N	N
79MK21	N	N	N	<10	5	<20	50	N	5	N	N	N	N
79MK22	N	N	5	20	1,500	N	20	N	20	20	N	5	15
79MK23	N	N	<5	50	30	20	10	N	10	N	N	5	N
79MK25	N	N	10	50	150	N	N	N	30	10	N	10	N
79MK26	N	N	7	70	700	<20	15	N	50	<10	N	15	N
79MK27	N	N	15	20	15	<20	N	N	20	<10	N	10	N
79MK28	N	N	10	50	2,000	50	<5	N	20	<10	N	15	N
79MK30	N	N	10	100	200	N	N	N	50	<10	N	20	N
79MK31	N	N	7	20	500	N	N	N	20	10	N	7	N
79MK32	N	N	7	15	200	N	N	N	30	<10	N	10	N
79MK33	N	N	N	15	10	N	N	N	10	N	N	10	N
79MK34	N	N	5	20	1,000	20	N	N	15	<10	N	10	N
79MK35	N	N	N	<10	15	N	N	N	5	<10	N	N	N
79MK36	N	N	N	<10	<5	<20	N	N	7	10	N	N	N
79MK37	N	N	7	70	150	<20	N	N	50	<10	N	15	N
79MK24	N	N	10	50	50	30	N	N	30	15	N	15	N
79MK24	N	N	10	50	50	20	N	N	30	10	N	15	N
79MK29	N	N	7	150	100	N	N	N	70	<10	N	30	N
79MK29	N	N	7	100	50	N	N	N	70	<10	N	20	N
79CE65A	N	N	7	30	30	N	N	N	20	10	N	7	N
79CE082A	N	N	<5	15	10	N	N	N	5	<10	N	5	N
79DT083	N	N	7	30	20	N	N	N	20	<10	N	15	N
79DT091A	N	N	10	100	100	N	5	N	30	10	N	20	N
79MS011B	N	N	5	100	15	N	5	<20	20	20	N	15	N
79DT131	N	N	15	70	100	N	N	N	50	10	N	20	N
79DT099	N	N	10	15	5	N	N	N	7	10	N	15	N
79DT091B	N	N	10	20	20	N	N	N	30	10	N	15	N
79MS503	N	N	10	20	15	N	N	N	30	<10	N	15	N
79CE089A	N	N	7	30	15	N	N	N	20	<10	N	10	N
79MS11A	N	N	30	300	150	N	N	N	200	15	N	20	N
79CE086A	N	N	50	100	30	N	N	N	100	<10	N	30	N
79CE085A	N	N	30	300	20	N	N	N	200	10	N	20	N
79GE075B	N	N	15	50	50	N	N	N	50	20	N	15	N
79MS011C	N	N	15	30	10	N	N	N	30	10	N	15	N
79DT077	N	N	20	15	150	N	N	N	15	10	N	20	N
79CE072A	N	N	10	15	15	N	N	N	7	<10	N	15	N
79DT100	N	N	5	50	100	N	N	N	15	10	N	15	N
79CE077	N	N	30	100	150	N	N	N	100	<10	N	15	N
79MS008	N	N	5	<10	500	N	150	N	70	<10	N	N	N
79DT099A	N	N	15	15	15	N	N	N	10	15	N	15	N

Sample No.	Si	V	W	Y	Zn	Zr	Th	AA-Au	INST-HG	AA-Cu	AA-Pb	AA-Zn	AA-Ag
79MK16	<100	70	N	20	N	30	N	N	<.02	15	<5	10	---
79MK17	<100	10	N	30	N	30	N	N	<.02	5	<5	5	---
79MK18	700	500	N	30	N	70	N	N	<.02	170	10	20	---
79MK19	500	200	N	N	N	20	N	<.05	.02	800	5	20	---
79MK20	150	20	N	30	N	20	N	N	<.02	40	<5	<5	---
79MK21	<100	50	N	20	N	30	N	N	<.02	5	<5	<5	---
79MK22	100	150	N	N	N	20	N	N	.02	1,400	15	25	---
79MK23	N	100	N	10	N	50	N	N	<.02	35	<5	5	---
79MK25	300	200	N	10	N	30	N	N	<.02	95	5	50	---
79MK26	500	300	N	20	N	70	N	N	<.02	600	10	40	---
79MK27	700	300	N	10	<200	50	N	N	.02	35	10	120	---
79MK28	700	700	N	30	N	70	N	N	.02	300	10	45	---
79MK30	700	700	N	30	N	30	N	N	.02	120	10	35	---
79MK31	200	200	N	<10	N	30	N	N	<.02	260	10	50	---
79MK32	700	150	N	10	N	100	N	N	<.02	120	10	55	---
79MK33	N	100	N	N	N	70	N	N	.02	10	5	15	---
79MK34	200	200	N	<10	N	100	N	N	<.02	100	5	40	---
79MK35	N	N	N	20	N	30	N	N	<.02	15	10	5	---
79MK36	N	N	N	30	N	50	N	N	.02	<5	5	<5	---
79MK37	500	200	N	20	N	50	N	N	.02	140	10	35	---
79MK24	700	200	N	30	N	70	N	N	.02	50	5	40	---
79MK24	500	300	N	20	N	100	N	N	.02	50	5	40	---
79MK29	300	500	N	30	N	50	N	N	<.02	50	10	55	---
79MK29	300	300	N	30	N	50	N	N	<.02	50	10	50	---
79CE65A	1,000	100	N	N	N	10	N	N	---	25	10	35	---
79CE082A	300	70	N	<10	N	20	N	N	---	15	35	60	---
79DT083	200	200	N	10	500	50	N	N	---	25	10	420	---
79DT091A	500	300	N	20	N	70	N	<.05	---	85	25	60	---
79MS011B	1,000	150	N	20	N	50	N	N	---	35	30	35	---
79DT131	300	300	N	15	N	30	N	N	---	65	20	90	---
79DT099	700	200	N	15	N	150	N	N	---	10	15	65	---
79DT091B	1,000	200	N	10	N	100	N	N	---	25	15	50	---
79MS503	1,000	200	N	10	N	150	N	N	---	30	15	40	---
79CE089A	200	100	N	10	N	20	N	N	---	10	10	15	---
79MS11A	200	300	N	20	<200	150	N	N	---	110	10	30	---
79CE086A	700	500	N	20	<200	70	N	N	---	40	20	40	---
79CE085A	700	300	N	30	N	100	N	N	---	30	10	55	---
79CE075B	700	150	N	15	<200	50	N	N	---	65	25	110	---
79MS011C	1,000	150	N	10	N	70	N	N	---	25	20	40	---
79DT077	1,000	300	N	30	<200	100	N	N	---	120	25	70	---
79CE072A	500	150	N	10	N	70	N	N	---	5	10	<5	---
79DT100	<100	100	N	<10	N	150	N	N	---	65	20	30	---
79CE077	<100	150	N	10	N	100	N	N	---	140	25	110	---
79MS008	N	20	N	N	N	N	N	1.50	---	440	20	55	---
79DT099A	700	200	N	20	N	100	N	N	---	20	20	60	---

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
79MK16	--	11	37	37	37	37	37	37	37	37	37
79MK17	--	11	37	37	37	37	37	37	37	37	37
79MK18	--	11	37	37	37	37	37	37	37	37	37
79MK19	--	11	37	37	37	37	37	37	37	37	37
79MK20	--	11	37	37	37	37	37	37	37	37	37
79MK21	<100	11	37	37	37	37	37	37	37	37	37
79MK22	200	11	37	37	37	37	37	37	37	37	37
79MK23	<100	11	37	37	37	37	37	37	37	37	37
79MK25	--	11	37	37	37	37	37	37	37	37	37
79MK26	100	11	37	37	37	37	37	37	37	37	37
79MK27	--	11	37	37	37	37	37	37	37	37	37
79MK28	--	11	37	37	37	37	37	37	37	37	37
79MK30	--	11	37	37	37	37	37	37	37	37	37
79MK31	--	11	37	37	37	37	37	37	37	37	37
79MK32	--	11	37	37	37	37	37	37	37	37	37
79MK33	--	11	37	37	37	37	37	37	37	37	37
79MK34	--	11	37	37	37	37	37	37	37	37	37
79MK35	--	11	37	37	37	37	37	37	37	37	37
79MK36	--	11	37	37	37	37	37	37	37	37	37
79MK37	--	11	37	37	37	37	37	37	37	37	37
79MK24	--	11	37	37	37	37	37	37	37	37	37
79MK24	--	11	37	37	37	37	37	37	37	37	37
79MK29	--	11	37	37	37	37	37	37	37	37	37
79MK29	--	11	37	37	37	37	37	37	37	37	37
79CE65A	--	11	11	11	12	12	3	11	11	11	11
79CE082A	--	11	11	11	35	11	4	11	14	17	36
79DT083	--	11	11	11	12	11	4	11	12	11	13
79DT091A	--	11	11	11	12	11	4	11	11	11	13
79MS011B	--	11	12	11	12	11	4	11	14	37	36
79DT131	--	11	12	11	12	13	2	11	11	11	15
79DT099	--	11	11	11	14	11	3	11	11	11	22
79DT091B	--	11	11	11	14	11	4	11	12	15	22
79MS503	--	11	11	11	14	11	4	12	11	14	22
79CE089A	--	11	11	11	12	11	3	11	11	11	11
79MS11A	--	11	11	11	12	11	4	11	12	11	15
79CE086A	--	11	11	11	14	12	4	11	11	15	20
79CE085A	--	11	11	11	14	12	4	11	11	16	20
79CE075B	--	11	11	11	12	11	4	11	11	11	15
79MS011C	--	11	11	11	14	11	4	11	11	12	22
79DT077	--	11	11	11	14	11	6	11	12	15	13
79CE072A	--	11	11	11	14	11	4	11	11	16	36
79DT100	--	11	11	11	14	11	3	11	13	16	22
79CE077	--	11	11	11	12	11	4	11	11	11	15
79MS008	100	11	11	11	12	11	4	11	14	12	13
79DT099A	--	11	11	11	14	11	3	11	12	14	22

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be
79CE040	57 14 23	157 2 35	2.0	1.00	.05	.200	1,500	1.5	N	N	20	500	<1.0
79CE045B	57 2 18	157 14 34	10.0	2.00	1.50	.500	1,000	<.5	N	N	50	1,000	1.0
79CE045C	57 2 15	157 14 48	5.0	1.50	1.00	.300	700	N	N	N	30	700	<1.0
79CE047A	57 2 9	157 15 11	3.0	1.00	.07	.200	700	N	N	N	70	500	1.0
79CE048	57 2 12	157 15 26	7.0	3.00	1.50	.500	1,000	N	N	N	50	1,000	1.0
79CE050A	57 2 37	157 7 4	3.0	3.00	1.00	.500	500	N	N	N	15	700	1.0
79CE050B	57 2 37	157 7 4	2.0	2.0	1.50	.300	300	N	N	N	50	150	1.0
79CE052A	57 2 3	157 7 41	3.0	.30	1.00	.500	500	N	N	N	100	200	1.5
79CE055A	57 0 46	157 8 42	5.0	1.50	2.00	.300	700	N	N	N	30	1,000	1.0
79CE057	57 2 33	157 19 11	1.0	.15	.05	.300	30	N	N	N	50	70	1.0
79CE059B	57 2 34	157 19 37	.5	.10	.15	.070	500	N	N	N	100	300	2.0
79CE060A	57 1 30	157 19 52	5.0	1.50	1.00	.700	700	N	N	N	10	1,000	1.0
79YB045	57 3 18	157 24 28	3.0	.70	1.00	1.000	1,000	<.5	N	N	50	1,000	1.5
79YB046A	57 3 23	157 24 15	10.0	2.00	2.00	.700	1,000	N	N	N	20	200	1.0
79YB049A	57 0 29	157 21 17	2.0	.70	5.00	.200	2,000	N	N	N	30	500	<1.0
79YB049B	57 0 29	157 21 17	5.0	1.50	.20	.500	700	<.5	N	N	50	1,000	1.5
79YB052	57 0 48	157 22 19	5.0	2.00	1.00	.500	1,000	N	N	N	20	1,000	1.0
79DT045A	57 3 7	157 15 24	5.0	1.00	.50	.300	1,500	.5	N	N	20	500	1.0
79DT045B	57 3 7	157 15 24	15.0	.70	3.00	.200	3,000	1.0	N	N	15	200	<1.0
79DT045D	57 2 56	157 15 30	10.0	5.00	5.00	1.000	1,000	N	N	N	10	300	1.0
79DT045E	57 3 0	157 16 5	1.5	.07	.15	.050	700	<.5	N	N	30	1,500	1.5
79DT048	57 4 0	157 8 20	5.0	3.00	2.00	.700	1,000	N	N	N	70	700	<1.0
79DT049A	57 3 45	157 8 45	3.0	1.50	1.00	.300	500	.5	N	N	70	700	1.0
79DT050	57 1 38	157 5 58	5.0	2.00	2.00	.500	700	N	N	N	20	500	<1.0
79DT054	57 2 15	157 24 15	10.0	3.00	3.00	1.000	2,000	N	N	N	10	300	<1.0
79DT049B	57 3 45	157 8 45	3.0	1.00	1.50	.500	300	N	N	N	50	1,000	1.0
79DT045F	57 3 0	157 16 5	1.5	.15	.70	.070	2,000	N	N	N	50	700	2.0
79CE051A	57 2 20	157 7 37	3.0	2.00	1.50	.500	1,000	N	N	N	50	700	1.0
79DT066A	57 17 40	156 42 12	5.0	1.00	1.50	.700	700	N	N	N	20	500	1.0
79DT067A	57 17 8	156 41 29	5.0	2.00	5.00	.700	1,000	N	N	N	20	500	1.0
79MK1	57 3 17	157 14 23	15.0	5.00	1.50	1.000	500	<.5	N	N	N	150	<1.0
79MK2	57 3 15	157 14 24	20.0	2.00	.15	.500	300	.7	N	N	<10	300	<1.0
79MK3	57 2 59	157 14 25	10.0	.07	<.05	1.00	10	N	N	N	N	150	N
79MK4	57 2 59	157 14 25	10.0	.15	<.05	.300	<10	.5	N	N	N	300	N
79MK5	57 2 54	157 14 31	15.0	3.00	2.00	1.000	500	N	N	N	N	500	<1.0
79MK6	57 2 51	157 14 31	.5	.20	.50	.100	10	N	N	N	N	200	<1.0
79MK7	57 2 53	157 14 29	10.0	3.00	.50	.700	500	N	N	N	N	300	<1.0
79MK8	57 2 51	157 14 23	10.0	.03	<.05	.700	<10	N	N	N	30	N	<1.0
79MK9	57 2 51	157 14 23	15.0	.05	<.05	.500	<10	N	N	N	20	70	<1.0
79MK10	57 2 38	157 14 5	10.0	2.00	.70	.500	300	N	N	N	50	300	<1.0
79MK11	57 2 59	157 14 0	1.5	.15	.07	.070	<10	N	N	N	N	1,000	<1.0
79MK12	57 3 5	157 13 33	1.5	.15	.05	.070	<10	N	N	N	N	1,000	<1.0
79MK13	57 3 9	157 13 30	2.0	.20	<.05	.070	<10	N	N	N	N	700	1.0
79MK14	57 3 10	157 13 14	2.0	.15	<.05	.100	<10	N	N	N	N	300	<1.0
79MK15	57 3 21	157 12 55	1.0	.20	.10	.100	<10	N	N	N	N	1,000	<1.0



Sample No.	B1	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
79CE040	N	N	5	20	50	N	N	N	10	70	N	15	N
79CE045B	N	N	20	150	150	30	7	N	100	<10	N	50	N
79CE045C	N	N	10	50	30	<20	N	N	50	15	N	30	N
79CE047A	N	N	7	30	10	N	N	N	30	N	N	15	N
79CE048	N	N	20	100	100	<20	N	<20	100	10	N	50	N
79CE050A	N	N	15	50	20	<20	N	<20	50	10	N	30	N
79CE050B	N	N	10	20	15	<20	N	N	30	<10	N	20	N
79CE052A	N	N	10	50	30	<20	N	N	70	<10	N	20	N
79CE055A	N	N	10	70	5	<20	N	N	70	10	N	20	N
79CE057	N	N	5	70	15	N	N	<20	30	N	N	20	N
79CE059B	N	N	N	<10	N	N	N	<20	5	<10	N	5	N
79CE060A	N	N	15	70	30	<20	N	N	30	15	N	50	N
79YB045	N	N	N	50	30	N	N	N	5	30	N	50	N
79YB046A	N	N	20	30	7	30	N	<20	30	15	N	50	N
79YB049A	N	N	.7	70	20	N	N	N	50	<10	N	20	N
79YB049B	N	N	20	150	150	20	N	N	100	20	N	30	N
79YB052	N	N	20	100	50	<20	N	N	70	10	N	30	N
79DT045A	N	N	10	50	100	N	N	N	30	10	N	20	N
79DT045B	N	N	10	70	300	N	N	N	20	30	N	15	<10
79DT045D	N	N	70	300	100	<20	N	N	300	<10	N	50	N
79DT045E	N	N	N	<10	10	<20	N	<20	5	30	N	5	N
79DT048	N	N	50	200	100	<20	N	N	150	N	N	50	N
79DT049A	N	N	15	100	100	N	N	N	100	15	N	30	N
79DT050	N	N	15	20	30	N	<5	N	20	10	N	30	N
79DT054	N	N	20	50	<5	N	N	N	20	<10	N	70	N
79DT049B	N	N	5	10	15	N	N	<20	10	<10	N	20	N
79DT045F	N	N	N	N	30	N	5	<20	10	20	N	5	N
79GE051A	N	N	30	70	30	N	N	N	50	<10	N	20	N
79DT066A	N	N	15	50	30	N	N	N	30	<10	N	20	N
79DT067A	N	N	20	20	100	N	<5	N	20	<10	N	50	N
79MK1	N	N	15	100	500	N	N	N	70	<10	N	20	N
79MK2	N	N	150	70	3,000	N	5	N	300	N	N	15	N
79MK3	N	N	N	15	20	N	10	N	7	N	N	5	N
79MK4	N	N	N	20	10	N	20	N	5	N	N	7	<10
79MK5	N	N	10	100	100	N	15	N	70	<10	N	15	N
79MK6	N	N	N	<10	<5	20	30	N	5	N	N	N	N
79MK7	N	N	10	70	150	N	100	N	50	N	N	15	15
79MK8	N	N	150	50	5	N	150	N	30	N	N	N	N
79MK9	N	N	10	30	15	N	1,500	N	20	15	N	<5	N
79MK10	N	N	5	50	70	N	<5	N	20	N	N	15	20
79MK11	N	N	N	<10	10	N	200	<20	5	N	N	N	<10
79MK12	N	N	<5	<10	15	<20	1,000	<20	5	20	N	N	N
79MK13	N	N	<5	<10	7	<20	5	<20	<5	N	N	N	<10
79MK14	N	N	N	<10	20	N	N	<20	5	N	N	N	15
79MK15	N	N	N	<10	15	<20	N	N	5	15	N	N	N

Sample No.	St	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Ag
79CE040	N	150	N	10	200	70	N	N	---	65	140	190	---
79CE045B	500	500	N	70	N	100	N	N	---	50	20	45	---
79CE045C	200	300	N	20	<200	100	N	N	---	30	35	85	---
79CE047A	<100	100	N	15	<200	70	N	N	---	10	10	50	---
79CE048	1,000	300	N	30	<200	100	N	N	---	55	20	85	---
79CE050A	1,000	200	N	20	N	150	N	N	---	20	15	50	---
79CE050B	200	150	N	20	<200	150	N	N	---	25	15	45	---
79CE052A	300	200	N	20	<200	100	N	N	---	35	15	60	---
79CE055A	700	300	N	20	<200	100	N	N	---	10	20	60	---
79CE057	N	100	N	<10	<200	70	N	N	---	55	15	95	---
79CE059B	100	15	N	20	<200	50	N	N	---	<5	15	10	---
79CE060A	500	300	N	50	<200	100	N	N	---	30	25	100	---
79YB045	700	300	N	20	<200	150	N	N	---	25	35	20	---
79YB046A	150	300	N	50	<200	150	N	N	---	10	30	40	---
79YB049A	300	200	N	30	<200	70	N	N	---	25	25	40	---
79YB049B	200	500	N	20	<200	150	N	N	---	100	35	110	---
79YB052	500	300	N	30	N	150	N	N	---	40	20	55	---
79DT045A	150	150	N	10	200	70	N	N	---	45	20	150	---
79DT045B	100	100	N	10	500	50	N	N	---	160	55	180	---
79DT045D	700	500	N	50	700	150	N	N	---	50	30	400	---
79DT045E	<100	N	N	15	1,000	50	N	N	---	15	35	700	---
79DT048	1,500	300	N	30	N	100	N	N	---	45	20	60	---
79DT049A	300	300	N	30	<200	70	N	N	---	65	25	120	---
79DT050	500	300	N	20	<200	100	N	N	---	10	10	5	---
79DT054	200	700	N	70	200	150	N	N	---	5	15	95	---
79DT049B	200	200	N	30	N	100	N	N	---	10	10	10	---
79DT045F	100	<10	N	20	2,000	50	N	N	---	30	30	1,200	---
79CE051A	1,500	300	N	20	N	150	N	N	---	30	15	35	---
79DT066A	500	300	N	20	<200	50	N	N	---	25	15	60	---
79DT067A	300	500	N	50	N	100	N	N	---	45	15	15	---
79MK1	300	500	N	30	N	50	N	N	<.02	180	10	25	---
79MK2	<100	200	N	20	N	50	N	N	.70	2,600	10	20	---
79MK3	N	150	N	N	N	<10	N	N	.28	5	<5	<5	---
79MK4	N	150	N	N	N	20	N	N	.10	15	<5	<5	---
79MK5	700	500	N	20	N	50	N	N	<.02	40	5	40	---
79MK6	200	20	N	20	N	50	N	N	<.02	<5	<5	5	---
79MK7	150	300	N	20	N	70	N	N	.02	95	5	35	---
79MK8	N	50	N	N	N	50	N	N	.50	5	<5	5	---
79MK9	<100	70	N	N	N	50	N	N	.55	10	10	5	---
79MK10	100	200	N	20	N	70	N	N	.02	40	5	30	---
79MK11	100	20	N	20	N	30	N	N	.12	10	<5	<5	---
79MK12	150	30	N	15	N	30	N	N	.14	20	10	10	---
79MK13	N	<10	N	15	N	30	N	N	.06	5	<5	<5	---
79MK14	N	50	N	10	N	50	N	N	<.02	25	<5	<5	---
79MK15	<100	15	N	30	N	30	N	N	.02	15	10	5	---

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
79CE040	---	11	11	11	14	11	4	11	14	15	36
79CE045B	---	11	11	11	12	11	4	11	11	11	14
79CE045C	---	11	11	11	12	11	4	11	11	11	13
79CE047A	---	11	11	11	12	11	4	11	11	11	13
79CE048	---	11	11	11	12	11	4	11	11	11	15
79CE050A	---	11	11	11	14	11	4	11	12	14	36
79CE050B	---	11	11	11	14	11	4	11	13	14	36
79CE052A	---	11	11	11	14	11	4	11	13	14	22
79CE055A	---	11	11	11	14	11	4	11	12	15	22
79CE057	---	11	11	11	12	11	4	11	11	11	14
79CE059B	---	11	11	11	14	11	4	11	12	15	36
79CE060A	---	11	11	11	12	11	4	11	11	11	14
79YB045	---	11	11	11	13	11	5	11	14	37	37
79YB046A	---	11	11	11	14	11	5	11	14	15	37
79YB049A	---	11	11	11	12	11	5	11	11	11	13
79YB049B	---	11	11	11	12	11	5	11	11	11	14
79YB052	---	11	11	11	12	11	5	11	11	11	13
79DT045A	---	11	11	11	14	11	4	11	12	12	37
79DT045B	---	11	11	11	12	11	4	11	11	11	37
79DT045D	---	11	11	11	14	11	4	11	12	15	37
79DT045E	---	11	11	11	14	11	4	11	12	15	37
79DT048	---	11	11	11	14	11	4	11	12	15	22
79DT049A	---	11	11	11	12	11	4	11	12	12	37
79DT050	---	11	11	11	14	11	4	11	11	16	37
79DT054	---	11	11	11	14	11	5	11	12	15	37
79DT049B	---	11	11	11	12	11	4	11	12	11	37
79DT045F	---	11	11	11	14	11	4	11	12	15	37
79CE051A	---	11	11	11	14	11	4	11	11	14	22
79DT066A	---	11	11	11	12	12	3	11	11	11	13
79DT067A	---	11	11	11	14	12	3	11	12	15	37
79MK1	---	11	37	37	37	37	37	37	37	37	37
79MK2	---	11	37	37	37	37	37	37	37	37	37
79MK3	<100	11	37	37	37	37	37	37	37	37	37
79MK4	100	11	37	37	37	37	37	37	37	37	37
79MK5	300	11	37	37	37	37	37	37	37	37	37
79MK6	200	11	37	37	37	37	37	37	37	37	37
79MK7	600	11	37	37	37	37	37	37	37	37	37
79MK8	400	11	37	37	37	37	37	37	37	37	37
79MK9	<100	11	37	37	37	37	37	37	37	37	37
79MK10	---	11	37	37	37	37	37	37	37	37	37
79MK11	100	11	37	37	37	37	37	37	37	37	37
79MK12	<100	11	37	37	37	37	37	37	37	37	37
79MK13	---	11	37	37	37	37	37	37	37	37	37
79MK14	---	11	37	37	37	37	37	37	37	37	37
79MK15	---	11	37	37	37	37	37	37	37	37	37

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be
79YB001A	57 6 17	157 25 25	5.0	1.00	2.00	.300	1,000	N	N	N	10	1,500	1.0
79YB003A	57 6 43	157 24 45	1.5	.20	2.00	.200	150	N	N	N	N	5,000	2.0
79YB005	57 7 48	157 24 37	5.0	2.00	1.50	.700	1,000	N	N	N	<10	700	1.0
79YB006C	57 8 16	157 28 59	5.0	1.50	1.50	.500	700	N	N	N	<10	1,000	1.0
79DT001	57 7 38	157 14 20	5.0	3.00	1.00	1.000	500	N	N	N	20	700	1.0
79DT002	57 8 10	157 14 30	5.0	1.00	1.50	.700	300	N	N	N	10	1,000	1.0
79DT004	57 8 39	157 15 10	5.0	.70	.20	.500	1,000	N	N	N	30	1,500	1.0
79DT005	57 10 0	157 19 42	3.0	.50	.50	.500	500	N	N	N	10	1,000	1.0
79DT006	57 10 39	157 20 50	5.0	3.00	3.00	1.000	700	N	N	N	10	300	1.0
79YB008A	57 6 13	157 25 55	7.0	1.50	1.00	.700	1,000	N	N	N	<10	700	<1.0
79YB009A	57 6 13	157 26 5	.7	.15	1.50	.150	100	N	N	N	N	3,000	2.0
79DT007	57 6 53	157 36 29	5.0	5.00	3.00	1.000	1,000	N	N	N	<10	200	1.0
79DT010	57 8 12	157 38 1	5.0	5.00	3.00	1.000	700	N	N	N	<10	300	<1.0
79DT016A	57 2 12	157 38 13	10.0	2.00	3.00	>1.000	1,500	N	N	N	10	1,000	1.5
79DT016B	57 2 12	157 38 13	3.0	1.50	1.00	.300	1,000	N	N	N	<10	300	2.0
79DT017A	57 2 36	157 39 43	5.0	2.00	1.50	.500	1,000	N	N	N	10	700	1.0
79DT017B	57 2 36	157 39 43	2.0	.50	1.00	.300	500	N	N	N	N	1,500	2.0
79DT019	57 3 15	157 39 29	5.0	2.00	1.50	1.000	1,000	N	N	N	10	1,000	1.0
79YB016	57 3 45	157 31 24	10.0	3.00	2.00	1.000	1,500	N	N	N	10	500	<1.0
79YB018	57 3 31	157 31 28	5.0	2.00	.70	.300	700	<.5	N	N	15	700	1.0
79DT020	57 13 9	156 58 51	3.0	1.50	2.00	.200	1,500	N	N	N	N	700	1.0
79DT024	57 12 2	156 58 30	3.0	1.50	10.00	.200	2,000	N	N	N	70	500	1.0
79DT029	57 12 0	156 58 50	3.0	2.00	2.00	.500	1,500	N	N	N	30	500	1.0
79YB031B	57 13 45	157 4 32	2.0	1.50	1.00	.200	700	N	N	N	20	500	1.0
79YB031C	57 13 47	157 4 34	3.0	1.50	2.00	.300	500	N	N	N	<10	300	1.0
79YB035	57 14 43	157 4 58	5.0	1.50	2.00	.300	500	N	N	N	10	300	<1.0
79YB040	57 15 17	157 1 41	2.0	1.00	1.50	.150	500	N	N	N	15	500	1.0
79CE004B	57 3 50	157 21 59	3.0	1.50	.20	.500	700	N	N	N	10	300	<1.0
79CE007	57 5 48	157 21 50	3.0	1.00	.50	.300	500	N	N	N	20	500	<1.0
79CE009A	57 9 12	157 31 7	5.0	3.00	3.00	.500	700	N	N	N	<10	300	1.0
79CE012A	57 9 8	157 32 50	5.0	3.00	2.00	.700	500	N	N	N	<10	200	<1.0
79CE017A	57 5 12	157 42 45	3.0	2.00	2.00	.500	500	N	N	N	<10	200	1.0
79CE018A	57 5 21	157 43 1	3.0	2.00	2.00	.300	500	N	N	N	<10	150	<1.0
79CE020A	57 5 57	157 43 4	5.0	2.00	3.00	.300	700	N	N	N	<10	100	<1.0
79CE021A	57 6 17	157 43 2	1.5	.20	.50	.100	200	N	N	N	10	300	<1.0
79CE022A	57 2 1	157 35 32	5.0	.50	1.00	1.000	700	N	N	N	<10	200	<1.0
79CE022B	57 2 2	157 35 30	3.0	1.50	1.00	.200	700	N	N	N	<10	500	<1.0
79CE022D	57 2 7	157 35 24	3.0	1.00	5.00	.200	>5,000	N	N	N	<10	200	<1.0
79CE020F	52 2 7	157 35 13	3.0	1.50	1.00	.500	1,000	N	N	N	<10	200	<1.0
79CE023	57 7 45	157 6 17	1.5	.15	1.50	.200	1,000	N	N	N	50	100	<1.0
79CE023C	57 7 44	157 6 7	3.0	.70	.70	.300	300	N	N	N	70	300	1.0
79CE026B	57 7 54	157 5 38	3.0	1.50	.30	.300	700	N	N	N	20	500	<1.0
79CE033A	57 8 53	157 3 20	5.0	1.50	2.00	.300	700	N	N	N	10	300	<1.0
79CE037	57 16 3	157 10 8	5.0	2.00	2.00	.500	1,000	N	N	N	<10	200	<1.0
79CE040A	57 14 26	157 2 39	2.0	1.00	1.50	.200	1,500	.7	N	N	10	700	1.0

Sample No.	B1	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
79YB001A	N	N	10	20	50	<20	N	N	10	<10	N	30	N
79YB003A	N	N	5	<10	7	30	N	N	10	20	N	10	N
79YB005	N	N	20	30	50	N	N	N	20	15	N	50	N
79YB006C	N	N	10	30	30	<20	10	N	20	10	N	50	N
79DT001	N	N	20	30	100	20	N	<20	50	<10	N	50	N
79DT002	N	N	10	50	50	<20	N	N	30	10	N	30	N
79DT004	N	N	15	50	20	<20	10	N	70	10	N	20	N
79DT005	N	N	7	20	10	N	N	N	15	<10	N	30	N
79DT006	N	N	20	100	70	<20	N	<20	70	<10	N	50	N
79YB008A	N	N	20	50	30	N	N	N	30	15	N	50	N
79YB009A	N	N	N	<10	5	20	N	N	5	10	N	10	N
79DT007	N	N	30	200	100	N	N	<20	200	10	N	50	N
79DT010	N	N	50	200	50	N	N	N	150	<10	N	50	N
79DT016A	N	N	30	20	100	30	N	N	15	<10	N	70	N
79DT016B	N	N	10	10	7	N	N	N	15	15	N	20	N
79DT017A	N	N	20	100	50	N	N	N	30	10	N	30	N
79DT017B	N	N	5	<10	<5	20	N	N	5	15	N	10	N
79DT019	N	N	15	30	100	20	N	<20	10	15	N	30	N
79YB016	N	N	20	50	20	30	N	N	20	15	N	50	N
79YB018	N	N	7	20	15	20	N	<20	10	20	N	20	N
79DT020	N	N	10	70	7	N	<5	N	30	<10	N	20	N
79DT024	N	N	15	100	50	N	10	N	50	10	N	30	N
79DT029	N	N	15	150	20	20	N	N	100	10	N	30	N
79YB031B	N	N	10	150	30	N	N	N	70	10	N	20	N
79YB031C	N	N	10	50	150	N	N	N	20	N	N	30	N
79YB035	N	N	7	150	50	N	<5	N	100	<10	N	20	N
79YB040	N	N	7	30	30	N	<5	N	30	<10	N	15	N
79CE004B	N	N	15	20	20	N	N	N	20	15	N	30	N
79CE007	N	N	5	20	15	N	N	N	15	15	N	30	N
79CE009A	N	N	20	200	100	N	N	N	200	<10	N	30	N
79CE012A	N	N	30	150	100	N	N	N	150	<10	N	50	N
79CE017A	N	N	20	150	70	N	N	<20	200	N	N	30	N
79CE018A	N	N	15	100	30	N	N	N	50	N	N	30	N
79CE020A	N	N	20	100	20	N	N	N	150	N	N	50	N
79CE021A	N	N	5	<10	7	N	N	N	15	N	N	10	N
79CE022A	N	N	7	20	150	<20	N	N	20	<10	N	70	N
79CE022B	N	N	7	30	15	N	N	N	20	10	N	20	N
79CE022D	N	N	5	20	7	50	N	N	15	<10	N	30	N
79CE020F	N	N	7	20	10	N	N	N	10	<10	N	30	N
79CE023	N	N	5	20	10	N	N	N	20	N	N	15	N
79CE023C	N	N	7	70	30	<20	N	N	70	15	N	20	N
79CE026B	N	N	10	30	50	N	N	N	70	<10	N	20	N
79CE033A	N	N	15	15	15	N	N	N	15	<10	N	30	N
79CE037	N	N	20	100	50	N	N	N	50	10	N	50	N
79CE040A	N	N	10	50	50	N	N	N	20	<10	N	20	N

Sample No.	Str	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Ag
79YB001A	700	300	N	30	<200	100	N	N	---	50	30	75	---
79YB003A	1,000	70	N	70	<200	200	N	N	---	5	35	45	---
79YB005	200	300	N	50	N	150	N	N	---	25	20	90	---
79YB006C	500	300	N	50	<200	200	N	N	---	25	10	60	---
79DT001	500	500	N	30	N	150	N	N	---	45	25	75	---
79DT002	500	300	N	30	<200	100	N	N	---	35	20	100	---
79DT004	100	200	N	50	<200	100	N	N	---	20	20	90	---
79DT005	200	150	N	30	N	100	N	N	---	15	20	75	---
79DT006	1,000	300	N	30	N	100	N	N	---	40	15	45	---
79YB008A	300	300	N	50	N	100	N	N	---	20	20	95	---
79YB009A	1,000	50	N	50	N	150	N	N	---	5	35	45	---
79DT007	700	300	N	50	<200	150	N	N	---	50	15	50	---
79DT010	700	500	N	30	N	100	N	N	---	50	20	45	---
79DT016A	500	500	N	70	<200	150	N	N	---	60	30	70	---
79DT016B	150	100	N	30	<200	150	N	N	---	5	20	45	---
79DT017A	200	300	N	30	<200	70	N	N	---	35	20	20	---
79DT017B	700	50	N	50	<200	150	N	N	---	5	25	50	---
79DT019	500	300	N	70	<200	150	N	N	---	60	25	100	---
79YB016	300	500	N	100	<200	150	N	N	---	10	25	90	---
79YB018	200	150	N	70	N	200	N	N	---	15	20	60	---
79DT020	500	200	N	20	<200	100	N	N	---	10	20	45	---
79DT024	500	200	N	50	<200	100	N	N	---	30	30	60	---
79DT029	200	200	N	50	<200	200	N	N	---	10	15	30	---
79YB031B	200	200	N	15	500	70	N	N	---	30	25	400	---
79YB031C	700	500	N	20	<200	70	N	N	---	100	15	65	---
79YB035	500	300	N	15	<200	100	N	N	---	40	20	45	---
79YB040	500	200	N	15	<200	100	N	N	---	55	25	85	---
79CE004B	200	300	N	20	<200	100	N	N	---	30	30	100	---
79CE007	200	300	N	15	N	100	N	N	---	20	15	35	---
79CE009A	700	300	N	20	<200	70	N	N	---	30	20	35	---
79CE012A	500	500	N	30	<200	100	N	N	---	55	20	50	---
79CE017A	700	300	N	20	<200	100	N	N	---	30	15	35	---
79CE018A	500	200	N	20	<200	70	N	N	---	45	20	35	---
79CE020A	300	300	N	20	<200	70	N	N	---	70	20	40	---
79CE021A	200	50	N	<10	N	70	N	N	---	15	10	35	---
79CE022A	500	500	N	50	200	100	N	N	---	250	25	120	---
79CE022B	200	300	N	30	N	70	N	N	---	25	25	70	---
79CE022D	200	200	N	50	N	50	N	N	---	15	35	65	---
79CE020F	300	300	N	20	<200	100	N	N	---	15	25	70	---
79CE023	100	100	N	10	N	20	N	N	---	20	15	50	---
79CE023C	100	200	N	30	<200	100	N	N	---	55	30	120	---
79CE026B	100	200	N	20	<200	50	N	N	---	60	25	85	---
79CE033A	500	300	N	30	<200	100	N	N	---	15	15	15	---
79CE037	500	500	N	30	<200	70	N	N	---	55	30	40	---
79CE040A	700	200	N	20	500	50	N	N	---	55	15	360	---

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
79YB001A	---	11	11	11	12	11	5	11	11	11	13
79YB003A	---	11	11	11	14	11	5	11	13	11	36
79YB005	---	11	11	11	12	11	5	11	12	11	36
79YB006C	200	11	11	11	14	11	5	11	14	15	37
79DT001	---	11	11	11	14	11	4	11	37	37	37
79DT002	---	11	11	11	12	11	4	11	11	11	37
79DT004	200	11	11	11	12	11	4	11	11	11	37
79DT005	---	11	11	11	12	11	4	11	11	11	37
79DT006	---	11	11	11	13	11	5	11	13	15	37
79YB008A	---	11	11	11	12	11	5	11	11	11	11
79YB009A	---	11	11	11	14	11	5	11	13	11	37
79DT007	---	11	11	11	14	11	5	11	11	16	20
79DT010	---	11	11	11	14	11	5	11	11	16	20
79DT016A	---	11	11	11	14	11	5	11	11	15	37
79DT016B	---	11	11	11	12	11	5	11	12	11	37
79DT017A	---	11	11	11	14	11	5	11	11	15	37
79DT017B	---	11	11	11	12	11	5	11	12	11	37
79DT019	---	11	11	11	14	11	5	11	11	14	37
79YB016	---	11	11	11	12	11	5	11	12	12	13
79YB018	---	11	11	11	12	11	5	11	12	12	14
79DT020	---	11	11	11	14	11	3	11	11	14	37
79DT024	200	11	11	11	12	11	3	11	11	12	13
79DT029	---	11	11	11	12	11	3	11	11	11	37
79YB031B	---	11	11	11	14	11	4	11	14	15	22
79YB031C	---	11	11	11	14	11	4	11	14	15	22
79YB035	---	11	11	11	14	11	4	11	14	14	37
79YB040	---	11	11	11	14	12	4	11	14	15	37
79CE004B	---	11	11	11	12	11	5	11	11	11	11
79CE007	---	11	11	11	12	11	5	11	13	11	15
79CE009A	---	11	11	11	14	11	5	11	11	15	20
79CE012A	---	11	11	11	14	11	5	11	11	16	20
79CE017A	---	11	11	11	14	11	6	11	11	16	20
79CE018A	---	11	11	11	14	11	6	11	11	16	20
79CE020A	---	11	11	11	14	11	6	11	11	16	20
79CE021A	---	11	11	11	14	11	6	11	14	16	31
79CE022A	---	11	11	11	14	11	5	11	12	15	20
79CE022B	---	11	11	11	12	11	5	11	11	11	13
79CE022D	---	11	11	11	12	11	5	11	11	11	11
79CE020F	---	11	11	11	12	11	5	11	12	11	16
79CE023	---	11	11	11	12	11	4	11	11	11	11
79CE023C	---	11	11	11	12	11	4	11	11	11	14
79CE026B	---	11	11	11	12	11	4	11	11	11	11
79CE033A	---	11	11	11	14	11	4	11	12	16	23
79CE037	---	11	11	11	14	12	4	11	12	15	20
79CE040A	---	11	11	11	14	11	4	11	11	15	36

Sample No.	LATITUDE (N.)	LONGITUDE (W.)	Fe	Mg	Ca	Tl	Mn	Ag	As	Au	B	Ba	Be
79CE073A	57 1 53	157 13 55	10.0	3.00	3.00	.700	1,000	N	N	N	15	200	<1.0
79DT084	57 3 39	157 10 41	7.0	3.00	1.50	.700	1,500	N	N	N	10	300	1.0
79MS007	57 0 55	157 24 6	10.0	2.00	.50	.300	500	N	N	N	50	700	1.5
79CE079	57 1 25	157 6 1	5.0	.50	<.05	.700	200	N	N	N	70	300	<1.0
79MS009	57 0 48	157 7 47	10.0	1.00	2.00	.700	300	N	N	N	<10	300	<1.0
79DT103	57 5 58	156 48 40	7.0	2.00	2.00	.700	500	N	N	N	N	200	1.0
79DT103A	57 4 41	156 48 41	10.0	2.00	1.50	.500	700	N	N	N	N	500	1.0
79CE094A	57 5 45	156 53 17	10.0	3.00	3.00	.700	700	N	N	N	N	300	1.0
79DT113	57 36 19	156 41 55	15.0	3.00	5.00	>1.000	1,000	N	N	N	10	200	<1.0
79DT128	57 31 56	156 46 40	15.0	2.00	3.00	1.000	1,000	N	N	N	30	200	<1.0
79DT129	57 32 20	156 46 30	15.0	3.00	1.50	>1.000	1,000	N	N	N	20	150	<1.0
79YB053A	57 16 30	156 45 35	3.0	.70	1.00	.300	500	N	N	N	N	300	1.0
79YB065	57 6 42	156 52 10	10.0	3.00	1.00	.700	700	N	N	N	50	300	<1.0
79YB066	57 5 59	156 53 53	10.0	1.50	.15	.500	200	N	N	N	100	500	1.5
79YB067	57 5 38	156 50 49	10.0	2.00	5.00	1.000	700	N	N	N	20	500	1.0
79YB069	57 4 14	156 45 15	3.0	.70	1.00	.700	700	N	N	N	N	100	1.0
79DT143C	57 10 0	156 56 43	10.0	2.00	1.50	.500	500	N	N	N	20	300	1.0
80DT166A	57 45 50	155 18 50	3.0	3.00	.70	.150	300	<.5	N	N	20	300	<1.0
80DT167A	57 45 38	155 18 50	3.0	1.50	2.00	.100	500	7.0	N	N	30	1,000	<1.0
80DT168A	57 45 25	155 17 10	1.5	.30	2.00	.070	200	1.0	N	N	30	300	1.0
80CE108	57 41 51	155 37 28	3.0	2.00	1.50	.300	500	N	N	N	20	300	1.0
80CE109	57 41 18	155 36 35	3.0	1.50	1.50	.300	500	N	N	N	15	500	1.0
80CE113	57 46 6	155 36 55	2.0	2.00	2.00	.300	300	<.5	N	N	20	500	<1.0
80CE114	57 45 0	155 36 40	3.0	3.00	1.00	.500	500	N	N	N	30	700	1.0
80CE114A	57 45 0	155 36 40	2.0	.50	1.50	.150	300	<.5	N	N	20	500	1.0
80CE115A	57 45 22	155 37 0	7.0	2.00	1.50	.700	500	<.5	N	N	15	500	<1.0
80CE117A	57 47 8	155 32 21	1.5	.50	.70	.100	300	<.5	N	N	20	1,500	1.0
80CE118	57 47 13	155 32 54	1.0	.20	10.00	.070	150	N	N	N	10	N	N
80CE122	57 26 55	156 3 5	2.0	.50	1.00	.200	200	<.5	N	N	150	200	<1.0
80CE127	57 29 28	156 3 1	1.5	.30	1.00	.100	300	<.5	N	N	20	1,000	1.0
80DT185	57 28 19	156 4 51	2.0	1.00	1.50	.150	1,000	<.5	N	N	30	1,500	<1.0
80DT187	57 28 28	156 4 50	2.0	1.00	1.00	.200	1,000	N	N	N	20	1,000	<1.0
80DT189	57 28 29	156 5 30	7.0	2.00	3.00	.500	1,000	<.5	N	N	10	500	<1.0
80DT192	57 29 23	156 6 43	5.0	2.00	2.00	.500	1,000	<.5	N	N	300	700	<1.0
80AY16	57 26 46	156 2 47	3.0	1.50	3.00	.300	1,000	N	N	N	15	300	<1.0
80AY16A	57 26 48	156 2 52	5.0	1.00	2.00	.100	300	.7	N	N	50	300	<1.0
80AY18	57 27 0	156 2 53	7.0	3.00	3.00	.300	1,500	N	N	N	50	200	<1.0
80AY19	57 27 22	156 2 10	7.0	2.00	3.00	.300	1,000	<.5	N	N	15	300	<1.0
80AY22	57 29 33	156 3 11	1.5	.30	.10	.100	200	<.5	N	N	30	500	<1.0
80AY24	57 34 7	156 6 11	1.5	.30	2.00	.100	200	N	N	N	300	700	1.0
80AY25	57 34 17	156 5 41	3.0	2.00	3.00	.300	700	N	N	N	15	300	<1.0
80AY30A	57 18 50	156 20 10	3.0	1.50	1.50	.200	700	N	N	N	30	500	<1.0
80AY34	57 19 16	156 21 52	2.0	1.50	1.00	.200	500	<.5	N	N	50	700	<1.0
80AY37	57 25 38	156 34 37	1.5	.70	1.00	.100	500	N	N	N	20	700	1.0
80AY38	57 25 40	156 33 18	2.0	.70	1.00	.150	700	N	N	N	20	500	<1.0



Sample No.	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
79CE073A	N	N	20	20	30	N	N	N	15	10	N	30	N
79DT084	N	N	15	50	50	N	N	N	30	<10	N	20	N
79MS007	N	N	5	15	30	N	N	N	5	<10	N	10	N
79CE079	N	N	5	150	10	N	N	N	30	70	N	15	N
79MS009	N	N	10	10	10	N	N	N	5	N	N	20	N
79DT103	N	N	10	50	20	N	N	N	20	<10	N	15	N
79DT103A	N	N	15	50	30	N	N	N	20	10	N	15	N
79CE094A	N	N	15	100	20	<20	N	N	50	10	N	15	N
79DT113	N	N	20	30	15	N	N	N	30	10	N	30	N
79DT128	N	N	10	50	15	N	N	N	20	10	N	20	N
79DT129	N	N	50	150	20	N	N	N	50	10	N	20	N
79YB053A	N	N	5	20	7	N	N	N	20	<10	N	5	N
79YB065	N	N	20	100	70	N	N	N	50	10	N	20	N
79YB066	N	N	15	100	30	20	N	N	200	15	N	20	N
79YB067	N	N	15	30	10	<20	N	N	30	10	N	15	N
79YB069	N	N	<5	<10	5	N	N	N	5	10	N	10	N
79DT143C	N	N	7	70	30	N	N	N	30	10	N	15	N
80DT166A	N	N	30	30	50	<20	N	N	10	10	N	50	N
80DT167A	N	N	20	15	30	N	N	N	7	<10	N	30	N
80DT168A	N	N	7	100	50	<20	15	N	70	<10	N	15	N
80CE108	N	N	30	100	50	<20	N	N	30	10	N	50	N
80CE109	N	N	20	50	30	20	N	N	15	10	N	30	N
80CE113	N	N	30	100	50	20	N	N	30	10	N	50	N
80CE114	N	N	30	150	70	20	N	N	50	20	N	50	N
80CE114A	N	N	10	70	30	<20	N	N	15	10	N	15	N
80CE115A	N	N	50	100	50	20	N	N	30	10	N	70	N
80CE117A	N	N	7	50	30	<20	N	N	20	10	N	15	N
80CE118	N	N	5	10	7	N	N	N	5	N	N	5	N
80CE122	N	N	5	50	30	<20	N	N	7	N	N	15	N
80CE127	N	N	5	20	30	N	N	N	30	10	N	7	N
80DT185	N	N	7	30	30	N	10	N	15	20	N	15	N
80DT187	N	N	7	50	50	<20	N	N	15	10	N	20	N
80DT189	N	N	30	300	200	<20	N	N	50	15	N	70	N
80DT192	N	N	50	300	150	30	N	N	70	15	N	70	N
80AY16	N	N	15	70	30	N	N	N	10	10	N	50	N
80AY16A	N	N	5	70	700	N	10	N	<5	20	N	20	N
80AY18	N	N	30	30	50	N	N	N	20	20	N	70	N
80AY19	N	N	30	15	70	N	N	N	15	10	N	70	N
80AY22	N	N	5	10	20	N	N	N	7	<10	N	5	N
80AY24	N	N	5	20	15	<20	N	N	5	<10	N	10	N
80AY25	N	N	5	15	70	<20	7	N	5	10	N	70	N
80AY30A	N	N	30	150	70	N	N	N	50	10	N	50	N
80AY34	N	N	20	70	50	20	N	N	30	15	N	50	N
80AY37	N	N	10	50	20	<20	N	N	30	10	N	15	N
80AY38	N	N	10	70	20	50	N	N	20	10	N	20	N

Sample No.	Sr	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Ag
79CE073A	700	300	N	20	N	70	N	N	---	25	15	25	---
79DT084	500	150	N	20	N	70	N	N	---	45	20	60	---
79WS007	200	50	N	30	N	300	N	N	---	35	20	25	---
79CE079	N	300	N	15	N	200	N	N	---	10	85	150	---
79WS009	300	300	N	15	N	50	N	N	---	15	20	45	---
79DT103	1,000	200	N	10	N	150	N	N	---	40	20	70	---
79DT103A	700	200	N	10	N	100	N	N	---	30	15	45	---
79CE094A	1,000	200	N	20	N	100	N	N	---	25	20	55	---
79DT113	700	300	N	20	<200	30	N	N	---	30	20	70	---
79DT128	500	300	N	20	<200	50	N	N	---	30	20	70	---
79DT129	300	700	N	20	<200	100	N	N	---	30	25	120	---
79YB053A	1,500	70	N	10	N	10	N	N	---	20	30	25	---
79YB065	200	300	N	20	<200	50	N	N	---	70	20	120	---
79YB066	<100	300	N	30	<200	100	N	N	---	60	35	130	---
79YB067	700	300	N	20	N	100	N	N	---	25	25	60	---
79YB069	200	100	N	30	N	150	N	N	---	5	15	40	---
79DT143C	500	300	N	20	N	50	N	N	---	45	25	65	---
80DT166A	300	300	N	30	N	70	N	N	---	30	20	70	---
80DT167A	200	300	N	15	N	50	N	N	---	20	10	35	---
80DT168A	100	150	N	20	<200	50	N	N	---	60	15	120	---
80CE108	500	200	N	30	<200	70	N	N	---	50	20	70	---
80CE109	700	200	N	30	<200	70	N	N	---	20	15	60	---
80CE113	500	200	N	30	N	70	N	N	---	35	15	60	---
80CE114	300	200	N	50	<200	100	N	N	---	45	20	85	---
80CE114A	1,000	150	N	15	N	70	N	N	---	20	10	30	---
80CE115A	500	300	N	30	<200	100	N	N	---	35	15	80	---
80CE117A	1,000	150	N	10	N	50	N	N	---	20	15	20	---
80CE118	N	70	N	N	N	50	N	N	---	<5	15	10	---
80CE122	700	150	N	N	N	70	N	N	---	25	5	15	---
80CE127	1,000	100	N	<10	N	50	N	N	---	25	15	40	---
80DT185	1,000	150	N	10	N	50	N	N	---	20	30	35	---
80DT187	700	150	N	15	<200	70	N	N	---	45	20	95	---
80DT189	300	300	N	30	<200	100	N	N	---	120	15	55	---
80DT192	300	500	N	50	<200	100	N	N	---	95	35	55	---
80AY16	500	300	N	50	N	70	N	N	---	30	10	40	---
80AY16A	500	150	N	30	N	70	N	N	---	520	15	10	---
80AY18	500	500	N	20	N	30	N	N	---	35	15	35	---
80AY19	500	300	N	30	N	50	N	N	---	55	10	45	---
80AY22	300	100	N	<10	N	70	N	N	---	15	25	55	---
80AY24	1,000	100	N	10	N	50	N	N	---	20	15	15	---
80AY25	500	500	N	50	N	100	N	N	---	40	10	15	---
80AY30A	300	200	N	30	N	100	N	N	---	90	20	75	---
80AY34	500	200	N	30	N	100	N	N	---	60	20	95	---
80AY37	700	150	N	<10	N	50	N	N	---	20	10	25	---
80AY38	700	150	N	30	N	200	N	N	---	15	10	35	---

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
79CE073A	---	11	11	11	14	11	4	11	12	16	36
79DT084	---	11	11	11	14	11	4	11	12	15	22
79MS007	---	11	12	11	13	11	5	11	14	37	2
79CE079	---	11	11	11	12	11	4	11	14	11	11
79MS009	---	11	11	11	14	11	4	11	14	16	36
79DT103	---	11	11	11	14	11	3	11	11	16	20
79DT103A	---	11	11	11	14	11	3	11	12	16	22
79CE094A	---	11	11	11	14	11	3	11	11	15	22
79DT113	---	11	11	11	12	13	3	11	11	11	13
79DT128	---	11	11	11	12	13	3	11	11	11	13
79DT129	---	11	11	11	12	13	3	11	11	11	15
79YB053A	---	11	11	11	12	12	3	11	11	11	13
79YB065	---	11	11	11	12	11	3	11	11	11	13
79YB066	---	11	11	11	12	11	3	11	11	11	13
79YB067	---	11	11	11	14	11	3	11	14	15	37
79YB069	---	11	11	11	14	11	3	11	14	15	36
79DT143C	---	11	11	11	12	11	3	11	11	11	15
80DT166A	---	11	11	11	14	14	4	11	13	15	20
80DT167A	---	11	11	11	14	14	4	11	13	15	20
80DT168A	200	11	11	11	14	14	4	11	13	16	21
80CE108	---	11	11	11	12	13	5	11	11	11	13
80CE109	---	11	11	11	12	13	5	11	11	11	12
80CE113	---	11	11	11	12	14	5	11	11	11	13
80CE114	---	11	11	11	12	14	5	11	11	11	15
80CE114A	---	11	11	11	12	14	5	11	11	11	13
80CE115A	---	11	11	11	12	14	5	11	11	11	12
80CE117A	---	11	11	11	12	14	5	11	11	11	11
80CE118	---	11	11	11	35	14	5	11	14	17	36
80CE122	---	11	11	11	14	12	1	11	11	14	24
80CE127	---	11	11	11	12	12	1	11	11	11	11
80DT185	100	11	11	11	14	12	1	11	12	14	24
80DT187	---	11	12	11	13	12	1	11	11	11	37
80DT189	---	11	12	11	14	12	1	11	11	14	24
80DT192	---	11	12	11	14	12	1	11	12	14	24
80AY16	---	11	11	11	14	12	1	11	11	14	24
80AY16A	200	11	11	11	14	12	1	11	14	14	24
80AY18	---	11	11	11	14	12	1	11	11	15	24
80AY19	---	11	11	11	14	12	1	11	11	14	24
80AY22	---	11	11	11	14	12	1	11	12	15	36
80AY24	---	11	11	11	14	13	1	11	11	14	24
80AY25	---	11	11	11	14	13	1	11	13	14	24
80AY30A	---	11	11	11	12	12	2	11	11	11	12
80AY34	---	11	11	11	12	12	2	11	11	11	15
80AY37	---	11	11	11	12	12	2	11	11	11	12
80AY38	---	11	11	11	12	12	2	11	11	11	11

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be
80AYY39	57 25 18	156 32 54	1.5	1.00	.70	.100	500	<.5	N	N	20	700	<1.0
80AYY40	57 27 7	156 32 48	1.5	.70	1.50	.150	500	N	N	N	15	700	<1.0
80AYY41	57 27 50	156 34 14	2.0	1.00	2.00	.200	700	N	N	N	15	700	<1.0
80DT211A	57 22 24	156 32 40	3.0	2.00	5.00	.300	1,500	N	N	N	30	500	<1.0
80AYY45	57 27 12	156 16 15	7.0	2.00	.70	.500	1,000	N	N	N	20	300	<1.0
80CE154	57 11 20	156 20 11	3.0	1.50	1.50	.300	1,000	N	N	N	15	300	<1.0
80CE155	57 11 20	156 20 29	5.0	1.50	1.00	.700	700	<.5	N	N	30	700	<1.0
80CE156A	57 11 27	156 21 9	3.0	1.50	10.00	.150	5,000	N	N	N	70	1,500	1.0
80CE156B	57 11 27	156 21 9	7.0	3.00	3.00	.300	1,000	N	N	N	20	700	<1.0
80AYY15	57 26 33	156 02 26	5.0	2.00	3.00	.300	1,500	N	N	N	15	200	<1.0
80CE133A	57 34 42	156 02 55	5.0	2.00	2.00	.500	1,000	N	N	N	20	500	<1.0
80CE158	57 11 42	156 21 22	7.0	.70	3.00	.500	700	.5	N	N	30	1,000	1.0
80CE159	57 11 54	156 22 18	5.0	1.50	.70	.700	300	<.5	N	N	70	700	1.0
80AYY53	57 12 38	156 23 7	5.0	2.00	3.00	.500	700	<.5	N	N	15	1,500	<1.0
80MS201	57 26 14	156 3 42	7.0	3.00	5.00	.500	700	N	N	N	10	200	N
80MS202	57 26 26	156 4 22	3.0	1.00	1.50	.300	500	<.5	N	N	10	500	<1.0
80MS203A	57 26 27	156 4 50	5.0	1.00	1.50	.500	500	<.5	N	N	10	1,000	N
80MS203B	57 26 27	156 4 50	7.0	.50	2.00	.700	700	.7	N	N	15	300	N
80AYY54	57 26 13	156 3 42	>20.0	1.50	<.05	.300	1,000	.7	1,000	N	<10	100	N
80AYY57A	57 26 2	156 5 53	7.0	2.00	2.00	.700	1,000	<.5	N	N	20	500	N
80CE160A	57 19 17	156 32 34	7.0	3.00	1.00	.700	1,000	N	N	N	20	300	N
80CE162A	57 19 44	156 32 10	10.0	.70	.20	1,000	300	N	N	N	30	70	<1.0
80MS205	57 32 32	156 5 40	5.0	1.50	2.00	.500	500	N	N	N	10	300	N
80MS206A	57 32 25	156 5 35	5.0	1.50	2.00	.500	700	N	N	N	15	500	N
80MS206B	57 32 20	156 5 31	>20.0	.50	1.00	.300	200	N	N	N	10	200	N
80MS207	57 32 16	156 5 26	7.0	2.00	3.00	.700	1,500	N	N	N	<10	300	N
80DT229	57 8 9	156 24 40	5.0	1.50	3.00	.500	1,000	N	N	N	10	700	<1.0
80DT230	57 9 3	156 21 40	3.0	.70	1.00	.500	1,000	N	N	N	15	700	<1.0
80DT232A	57 9 3	156 21 40	7.0	2.00	1.50	.500	700	N	N	N	15	200	N
80CE165	57 12 53	156 22 15	15.0	1.50	1.00	.200	700	.5	1,000	N	10	200	N
80CE139	57 18 28	156 25 43	10.0	3.00	5.00	.700	1,000	N	N	N	<10	150	N
80MS209	57 11 20	156 20 2	5.0	1.50	2.00	.500	1,500	<.5	N	N	30	700	1.0
80MS211	57 10 22	156 20 10	5.0	2.00	2.00	.500	1,000	N	N	N	10	500	<1.0
80MS212	57 10 10	156 20 35	7.0	2.00	3.00	.500	1,500	N	N	N	<10	200	N
80MS213	57 10 58	156 20 50	3.0	1.50	3.00	.300	700	<.5	N	N	10	500	<1.0
80MS214	57 10 8	156 23 44	2.0	1.50	1.50	.200	500	N	N	N	15	700	1.0
80MS215	57 9 40	156 27 1	5.0	.30	.07	.700	700	<.5	N	N	50	300	1.0
80MS216	57 10 56	156 27 54	2.0	1.50	2.00	.200	300	N	N	N	50	1,000	<1.0
80MS217B	57 11 55	156 23 30	5.0	3.00	3.00	.300	700	N	N	N	30	1,500	<1.0
80MS217C	57 11 55	156 23 30	3.0	1.00	.07	.500	300	.7	N	N	70	700	<1.0
80DT246	57 13 1	156 26 30	3.0	2.00	2.00	.500	700	<.5	N	N	30	700	<1.0
80DT248	57 13 18	156 26 19	3.0	2.00	1.00	.300	200	N	N	N	50	300	<1.0
80DT250	57 13 46	156 25 30	7.0	3.00	5.00	.500	1,000	<.5	N	N	15	200	<1.0
80DT251A	57 11 19	156 21 50	3.0	2.00	2.00	.300	1,000	N	N	N	15	300	<1.0
80DT252	57 5 58	156 21 35	7.0	3.00	3.00	.500	1,500	N	N	N	10	300	<1.0

Sample No.	B1	CD	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
80AY39	N	N	15	100	30	N	N	N	50	<10	N	20	N
80AY40	N	N	7	10	20	N	N	N	7	<10	N	15	N
80AY41	N	N	20	30	15	<20	N	<20	15	10	N	15	N
80DT211A	N	N	30	150	70	<20	N	N	50	20	N	50	N
80AY4S	N	N	30	100	70	N	N	N	30	10	N	50	N
80CE154	N	N	15	20	20	<20	N	N	7	150	N	50	30
80CE155	N	N	30	100	30	30	N	N	20	50	N	50	N
80CE156A	N	N	20	200	30	50	N	N	50	30	N	30	N
80CE156B	N	N	50	50	50	N	N	N	30	70	N	70	N
80AY15	N	N	30	50	70	N	N	N	20	10	N	50	N
80CE133A	N	N	30	200	100	20	N	N	50	20	N	50	N
80CE158	N	N	30	70	20	20	N	N	30	30	N	30	N
80CE159	N	N	20	200	50	20	N	N	50	15	N	50	N
80AY53	N	N	30	300	15	50	N	N	50	20	N	30	N
80MS201	N	N	20	150	30	N	N	N	30	10	N	50	N
80MS202	N	N	10	20	30	<20	N	N	10	<10	N	20	N
80MS203A	N	N	15	50	70	N	N	N	15	10	N	20	N
80MS203B	N	N	30	70	700	<20	N	N	30	15	N	20	N
80AY54	N	N	70	70	100	<20	<5	N	20	15	N	50	N
80AY57A	N	N	30	200	150	<20	N	N	50	20	N	50	N
80CE160A	N	N	30	70	50	<20	N	N	30	15	N	50	N
80CE162A	N	N	50	150	200	20	N	N	70	15	N	70	N
80MS205	N	N	7	10	20	N	N	N	7	<10	N	30	N
80MS206A	N	N	20	10	20	N	N	N	10	10	N	30	N
80MS206B	N	N	70	150	300	20	<5	N	50	10	N	50	N
80MS207	N	N	15	30	50	N	N	N	15	10	N	70	N
80DT229	N	N	20	50	70	30	7	N	20	15	N	30	N
80DT230	N	N	10	N	30	N	5	N	5	<10	N	20	N
80DT232A	N	N	30	30	50	N	N	N	15	<10	N	50	N
80CE165	N	N	20	50	70	30	<5	N	20	50	N	30	N
80CE139	N	N	50	500	100	N	N	N	70	N	N	70	N
80MS209	N	N	7	<10	7	N	N	N	7	<10	N	50	N
80MS211	N	N	20	50	20	N	N	N	15	10	N	50	N
80MS212	N	N	30	50	50	N	5	N	15	<10	N	50	N
80MS213	N	N	10	50	50	<20	N	N	10	10	N	50	N
80MS214	N	N	20	30	70	50	5	N	15	10	N	30	N
80MS215	N	N	30	70	50	30	N	N	50	<10	N	50	N
80MS216	N	N	7	15	15	20	N	N	5	<10	N	30	N
80MS217B	N	N	30	500	70	70	N	N	70	15	N	50	N
80MS217C	N	N	20	150	50	50	N	<20	50	30	N	30	N
80DT246	N	N	30	300	100	20	N	N	50	15	N	50	N
80DT248	N	N	30	200	100	N	N	N	70	15	N	30	N
80DT250	N	N	50	70	100	<20	N	N	30	10	N	70	N
80DT251A	N	N	30	100	70	20	N	N	30	10	N	50	N
80DT252	N	N	15	200	70	N	N	N	30	50	N	70	N

Sample No.	St	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Ag
80AY39	300	150	N	<10	N	70	N	--	--	30	10	35	--
80AY40	1,000	150	N	10	N	70	N	--	--	15	10	25	--
80AY41	700	150	N	10	<200	70	N	--	--	15	10	55	--
80DT211A	300	200	N	30	<200	70	N	--	--	85	20	70	--
80AY4S	300	300	N	30	<200	100	N	--	--	50	20	75	--
80CE154	500	200	N	50	N	100	N	--	--	15	190	90	--
80CE155	500	300	N	30	<200	150	N	--	--	30	30	80	--
80CE156A	700	200	N	50	N	70	N	--	--	30	30	90	--
80CE156B	700	500	N	30	500	50	N	--	--	50	75	380	--
80AY15	500	300	N	30	<200	70	N	--	--	100	10	85	--
80CE133A	300	200	N	30	N	10	N	--	--	65	15	60	--
80CE158	700	150	N	20	N	100	N	--	--	5	40	35	--
80CE159	300	200	N	30	<200	100	N	--	--	50	20	140	--
80AY53	2,000	200	N	15	N	100	N	--	--	10	20	40	--
80WS201	500	300	N	20	N	50	N	--	--	20	10	30	--
80WS202	200	150	N	30	N	150	N	--	--	35	10	25	--
80WS203A	700	200	N	N	N	100	N	--	--	55	15	45	--
80WS203B	700	150	N	20	N	100	N	--	--	490	15	40	--
80AY54	N	300	50	N	<200	70	N	N	--	50	30	70	--
80AY57A	300	300	N	30	<200	100	N	--	--	110	25	95	--
80CE160A	500	300	N	50	N	100	N	--	--	30	20	80	--
80CE162A	200	300	N	30	<200	150	N	--	--	110	20	100	--
80WS205	300	150	N	50	N	150	N	--	--	25	15	30	--
80WS206A	300	150	N	30	N	150	N	--	--	20	15	45	--
80WS206B	300	200	N	50	N	30	N	--	--	330	25	15	--
80WS207	500	200	N	30	N	50	N	--	--	20	10	20	--
80DT229	500	150	N	30	N	150	N	--	--	75	15	40	--
80DT230	500	100	N	30	N	100	N	--	--	10	5	30	--
80DT232A	700	200	N	30	<200	150	N	--	--	40	20	95	--
80CE165	100	100	N	50	200	50	N	.35	--	25	60	60	--
80CE139	300	300	N	50	<200	70	N	--	--	65	20	80	--
80WS209	500	100	N	50	N	100	N	--	--	5	15	60	--
80WS211	700	200	N	30	N	150	N	--	--	25	15	60	--
80WS212	500	200	N	20	N	50	N	--	--	30	15	60	--
80WS213	500	300	N	30	N	100	N	--	--	40	15	40	--
80WS214	300	200	N	50	<200	200	N	--	--	90	10	55	--
80WS215	N	200	N	50	N	200	N	--	--	30	20	60	--
80WS216	500	200	N	50	N	200	N	--	--	5	10	10	--
80WS217B	1,500	300	N	20	N	100	N	--	--	65	20	50	--
80WS217C	<100	200	N	50	<200	150	N	--	--	30	25	85	--
80DT246	500	300	N	30	<200	100	N	--	--	65	10	60	--
80DT248	500	300	N	20	N	100	N	--	--	70	15	40	--
80DT250	700	500	N	30	N	100	N	--	--	65	20	60	--
80DT251A	500	300	N	30	<200	100	N	--	--	80	25	45	--
80DT252	700	500	N	30	N	70	N	--	--	40	35	160	--

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
80AY39	--	11	11	11	12	12	2	11	11	11	11
80AY40	--	11	11	11	12	12	2	11	11	11	11
80AY41	--	11	11	11	14	12	2	11	11	11	25
80DT211A	--	11	12	11	12	12	2	11	11	11	15
80AY4S	--	11	11	11	12	12	1	11	11	11	12
80CE154	--	11	11	11	14	11	2	11	11	14	22
80CE155	--	11	11	11	12	11	2	11	11	11	11
80CE156A	--	11	11	11	12	11	2	11	11	11	36
80CE156B	--	11	11	11	14	11	2	11	14	15	36
80AY15	--	--	--	--	--	--	--	--	--	--	--
80CE133A	--	--	--	--	--	--	--	--	--	--	--
80CE158	--	11	11	11	35	11	2	11	13	15	37
80CE159	--	11	11	11	12	11	2	11	14	13	37
80AY53	--	11	11	11	14	11	2	11	12	15	37
80WS201	--	11	11	11	14	12	1	11	14	17	2
80WS202	--	11	11	11	14	12	1	11	12	14	2
80WS203A	--	11	11	11	12	12	1	11	11	11	11
80WS203B	--	11	11	11	12	12	1	11	14	11	11
80AY54	--	11	11	11	14	12	1	11	14	15	37
80AY57A	--	11	11	11	12	12	1	11	11	11	15
80CE160A	--	11	11	11	12	12	2	11	11	11	13
80CE162A	--	11	11	11	12	12	2	11	14	11	15
80WS205	--	11	11	11	14	13	1	11	11	14	24
80WS206A	--	11	11	11	12	13	1	11	12	11	22
80WS206B	--	11	11	11	12	13	1	11	14	11	15
80WS207	--	11	11	11	14	13	1	11	11	14	36
80DT229	--	11	11	11	14	11	2	11	11	14	24
80DT230	--	11	11	11	14	11	2	11	11	14	27
80DT232A	--	11	11	11	14	11	2	11	11	14	27
80CE165	--	11	11	11	35	11	2	11	14	17	36
80CE139	--	11	11	11	14	12	2	11	12	15	20
80WS209	--	11	11	11	14	11	2	11	11	15	22
80WS211	--	11	11	11	14	11	2	11	12	14	22
80WS212	--	11	11	11	14	11	2	11	14	15	25
80WS213	--	11	12	11	12	11	2	11	12	11	12
80WS214	--	11	11	11	14	11	2	11	12	14	25
80WS215	--	11	11	11	12	11	2	11	12	11	16
80WS216	--	11	11	11	14	11	2	11	12	14	25
80WS217B	--	11	11	11	14	11	2	11	12	15	22
80WS217C	--	11	11	11	12	11	2	11	11	11	14
80DT246	--	11	11	11	14	11	2	11	12	15	37
80DT248	--	11	11	11	13	11	2	11	11	11	15
80DT250	--	11	11	11	12	11	2	11	11	11	13
80DT251A	--	11	11	11	14	11	2	11	12	14	27
80DT252	--	11	11	11	14	11	2	11	11	14	27

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be
80MS217	57 11 58	156 23 26	3.0	2.00	1.50	.300	700	N	N	N	30	1,000	<1.0
80DT246A	57 13 1	156 26 30	3.0	2.00	1.50	.300	1,000	N	N	N	20	500	<1.0
80MS219	57 6 35	156 38 40	2.0	.70	1.00	.500	300	N	N	N	15	150	1.0
80MS220	57 6 41	156 37 58	1.5	1.00	1.00	.500	300	N	N	N	30	700	1.5
80MS221	57 6 34	156 37 20	3.0	2.00	1.50	.500	500	N	N	N	15	300	1.0
80MS223	57 5 23	156 39 26	7.0	3.00	3.00	.500	700	N	N	N	30	200	<1.0
80MS222	57 10 35	156 37 5	7.0	2.00	2.00	.700	2,000	N	N	N	300	700	<1.0
80MS224	57 0 35	156 28 22	.1	.02	<.05	1,000	30	.5	N	N	15	700	<1.0
80AY62	57 6 18	156 38 25	1.5	1.00	.70	.500	1,000	<.5	N	N	30	700	2.0
80AY63	57 6 23	156 38 15	2.0	1.00	.70	.500	300	N	N	N	70	300	1.0
80AY63A	57 6 27	156 38 11	1.5	1.00	1.00	.700	500	N	N	N	30	1,500	1.5
80AY63B	57 6 27	156 38 11	1.5	1.00	.70	.700	500	N	N	N	30	1,000	1.0
80AY64	57 6 32	156 38 4	2.0	1.50	3.00	.700	500	<.5	N	N	20	500	1.0
80AY66	57 6 30	156 37 10	2.0	1.00	.10	.700	200	<.5	N	N	30	700	1.0
80AY67	57 6 45	156 36 57	1.0	.30	.50	.300	150	<.5	N	N	150	1,500	1.0
80AY68	57 10 0	156 40 20	5.0	1.50	.30	.500	300	N	N	N	30	700	<1.0
80CE191C	57 16 7	156 28 7	1.5	1.50	.70	.500	500	N	N	N	50	1,500	<1.0
80MS227	57 3 3	156 33 43	5.0	1.50	2.00	.200	1,000	N	N	N	20	500	<1.0
80MS228	57 11 39	156 23 57	3.0	3.00	1.50	.300	700	.5	N	N	20	1,000	<1.0
80MS229	57 11 18	156 23 24	3.0	2.00	2.00	.200	500	.7	N	N	15	5,000	<1.0
80CX003	57 2 15	156 30 16	.3	.03	<.05	.500	30	<.5	N	N	15	200	<1.0
80CX004	57 2 0	156 30 25	1.0	.02	<.05	.700	70	N	N	N	15	200	<1.0
80CX005	57 1 53	156 30 9	5.0	<.02	<.05	.700	20	N	300	N	10	50	<1.0
80CX008	57 1 33	156 28 33	10.0	<.02	<.05	.500	70	.5	200	N	<10	300	<1.0
80CX010	57 1 45	156 28 40	15.0	<.02	<.05	.300	20	<.5	700	N	<10	1,000	<1.0
80AY69	57 11 49	156 24 10	2.0	1.50	2.00	.100	300	.5	N	N	20	2,000	1.0
80AY69A	57 11 49	156 24 10	2.0	1.00	.05	.300	200	.5	N	N	50	700	1.0
80AY70	57 11 40	156 23 59	5.0	2.00	2.00	.200	500	1.5	N	N	20	300	1.0
80DT263	57 25 18	157 0 50	3.0	2.00	3.00	.700	500	<.5	N	N	20	500	1.0
80CE192A	57 25 53	156 52 49	5.0	3.00	3.00	1,000	700	N	N	N	15	150	<1.0
80CE197A	57 26 45	156 56 20	2.0	1.00	1.00	.150	300	<.5	N	N	15	500	<1.0
80CX14	57 14 26	157 4 41	2.0	1.50	3.00	.150	200	N	N	N	15	300	1.0
80MS230	57 13 45	157 4 33	2.0	2.00	2.00	.150	300	<.5	N	N	10	700	<1.0
80MS231	57 13 50	157 4 30	3.0	1.50	1.00	.200	500	1.5	N	N	10	500	<1.0
80MS232	57 13 52	157 4 45	2.0	1.50	1.50	.100	500	N	N	N	15	1,000	<1.0
80MS232B	57 13 52	157 4 45	2.0	1.00	1.00	.300	200	1.0	N	N	20	500	1.0
80MS233	57 14 10	157 5 0	3.0	3.00	5.00	.500	700	.5	N	N	10	500	1.0
80MS234	57 14 22	157 5 6	5.0	2.00	5.00	.700	1,000	N	N	N	15	300	<1.0
80MS235	57 14 33	157 4 55	3.0	2.00	1.50	.200	200	N	N	N	15	1,000	1.0
80MS236	57 14 36	157 4 51	2.0	1.50	3.00	.150	300	<.5	N	N	15	1,500	<1.0
80CE198A	57 23 20	156 26 20	2.0	1.00	3.00	.300	200	.5	N	N	15	1,000	1.0
80AY75	57 32 23	156 16 15	1.5	.50	.70	.070	300	N	N	N	20	700	<1.0
80AY76	57 31 47	156 15 33	5.0	3.00	5.00	.300	300	N	N	N	<10	500	<1.0
80DT271	57 14 45	156 42 35	3.0	1.50	3.00	.300	300	N	N	N	30	500	<1.0
80CX26	57 36 47	155 54 46	2.0	1.00	1.00	.150	200	N	N	N	15	300	1.0



Sample No.	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
80MS217	N	N	30	150	50	20	N	N	30	15	N	30	N
80DT246A	N	N	30	150	50	N	N	N	50	20	N	50	N
80MS219	N	N	5	20	7	30	10	<20	5	10	N	50	N
80MS220	N	N	7	30	7	50	N	<20	7	30	N	20	N
80MS221	N	N	15	70	5	N	N	<20	15	10	N	30	N
80MS223	N	N	50	500	30	N	N	N	100	10	N	70	N
80MS222	N	N	30	150	70	20	N	<20	50	30	N	70	N
80MS224	N	N	5	10	5	N	10	<20	7	<10	N	7	N
80AY62	N	N	5	<10	5	50	7	<20	<5	10	N	30	N
80AY63	N	N	10	20	10	<20	N	<20	5	10	N	50	N
80AY63A	N	N	7	50	7	50	N	<20	10	<10	N	50	N
80AY63B	N	N	7	70	10	50	N	N	10	10	N	30	N
80AY64	N	N	20	150	30	50	N	N	30	15	N	50	N
80AY66	N	N	30	200	30	N	N	N	30	10	N	70	N
80AY67	N	N	5	30	<5	50	N	<20	10	<10	N	15	N
80AY68	N	N	10	100	50	N	N	N	20	10	N	50	N
80CE191C	N	N	20	70	30	<20	N	N	30	15	N	15	N
80MS227	N	N	30	70	50	20	N	N	20	10	N	50	N
80MS228	N	N	30	300	100	30	N	N	50	15	N	50	N
80MS229	<10	N	30	300	30	70	N	N	30	50	N	20	N
80CX003	N	N	5	30	7	N	10	N	7	<10	N	5	N
80CX004	N	N	5	50	20	N	10	N	10	20	N	10	N
80CX005	15	N	5	30	50	N	100	N	5	15	N	10	15
80CX008	N	N	100	70	300	N	10	N	70	50	N	15	N
80CX010	N	N	50	150	70	20	N	N	100	70	100	20	N
80AY69	N	N	10	150	10	30	N	N	30	20	N	15	N
80AY69A	N	N	7	200	30	50	N	<20	50	10	N	50	N
80AY70	N	N	50	300	200	50	N	N	70	10	N	30	N
80DT263	N	N	30	150	100	20	N	N	30	20	N	70	N
80CE192A	N	N	50	300	50	<20	N	N	70	N	N	70	N
80CE197A	N	N	20	150	30	N	N	N	50	10	N	20	N
80CX14	N	N	20	200	300	30	N	N	50	<10	N	30	N
80MS230	N	N	30	150	20	N	N	N	30	70	N	30	N
80MS231	N	N	20	200	700	30	30	N	50	20	N	50	N
80MS232	N	N	20	200	10	50	N	N	50	20	N	20	N
80MS232B	N	N	15	70	30	70	N	N	20	30	N	30	N
80MS233	N	N	30	100	50	70	N	N	50	10	N	50	N
80MS234	N	N	30	100	20	20	N	N	30	20	N	70	N
80MS235	N	N	7	200	15	30	N	<20	30	10	N	30	N
80MS236	N	N	20	150	30	30	N	N	20	15	N	30	N
80CE198A	N	N	20	10	150	50	N	<20	10	20	N	15	N
80AY75	N	N	7	70	20	N	N	N	20	<10	N	15	N
80AY76	N	N	30	150	70	50	N	N	30	10	N	50	N
80DT271	N	N	30	30	50	20	N	N	10	20	N	70	N
80CX26	N	N	7	50	30	20	N	N	10	10	N	20	N

Sample No.	St	V	W	Y	Zn	Zr	Th	AA-Au	INST-HG	AA-Cu	AA-Pb	AA-Zn	AA-Ag
80MS217	1,000	300	N	15	N	100	N	---	---	45	15	45	---
80DT246A	500	300	N	30	N	70	N	---	---	50	15	85	---
80MS219	500	150	N	70	N	200	N	---	---	<5	20	15	---
80MS220	500	150	N	30	N	200	N	---	---	5	25	25	---
80MS221	700	200	N	20	N	150	N	---	---	<5	15	50	---
80MS223	300	300	N	50	N	70	N	---	---	30	15	5	---
80MS222	500	300	N	30	N	100	N	---	---	45	25	130	---
80MS224	N	20	N	N	N	30	N	---	---	<5	10	<5	---
80AY62	500	100	N	100	N	200	N	---	---	<5	20	25	---
80AY63	300	150	N	50	N	200	N	---	---	10	20	20	---
80AY63A	700	150	N	50	N	15	N	---	---	5	15	25	---
80AY63B	300	150	N	50	N	150	N	---	---	5	15	35	---
80AY64	1,000	200	N	30	N	150	N	---	---	20	20	35	---
80AY66	200	300	N	50	N	100	N	---	---	25	10	20	---
80AY67	500	100	N	50	N	150	N	---	---	<5	15	10	---
80AY68	200	300	N	30	N	100	N	---	---	40	20	70	---
80CE191C	1,000	200	N	20	N	70	N	---	---	35	20	70	---
80MS227	500	200	N	30	N	70	N	---	---	50	20	35	---
80MS228	1,000	300	N	20	N	100	N	---	---	110	20	40	---
80MS229	1,500	150	N	20	N	70	N	N	---	15	30	45	---
80CX003	150	50	N	N	N	100	N	N	---	5	15	<5	<.05
80CX004	200	70	N	N	N	150	N	N	---	15	5	10	<.05
80CX005	N	30	N	N	N	200	N	N	---	60	30	<5	<.05
80CX008	N	20	N	N	N	200	N	N	---	140	55	10	.10
80CX010	<100	20	N	10	N	100	N	N	---	60	80	10	<.05
80AY69	1,500	70	N	10	N	70	N	---	---	50	15	75	---
80AY69A	N	100	N	30	N	100	N	---	---	30	20	80	---
80AY70	1,000	100	<50	15	N	70	N	N	---	160	20	50	---
80DT263	700	100	N	50	N	100	N	---	---	60	15	25	---
80CE192A	300	150	N	30	N	70	N	---	---	35	20	170	---
80CE197A	200	70	N	20	N	50	N	---	---	30	15	30	---
80CX14	700	70	N	30	N	70	N	---	---	240	10	10	---
80MS230	700	100	N	20	N	70	N	---	---	15	45	75	---
80MS231	500	100	N	20	N	70	N	---	---	250	25	90	---
80MS232	700	70	N	20	N	70	N	---	---	5	15	25	---
80MS232B	700	70	N	30	N	100	N	---	---	15	20	25	---
80MS233	2,000	150	N	20	N	100	N	---	---	60	20	50	---
80MS234	700	150	N	30	N	70	N	---	---	15	20	65	---
80MS235	500	100	N	20	N	70	N	---	---	15	20	55	---
80MS236	1,000	100	N	20	N	50	N	---	---	20	10	20	---
80CE198A	700	70	N	30	N	70	N	---	---	150	20	180	---
80AY75	500	50	N	10	N	70	N	---	---	25	15	30	---
80AY76	1,000	150	N	20	N	70	N	---	---	90	20	65	---
80DT271	500	100	N	30	N	70	N	---	---	25	15	30	---
80CX26	300	70	N	15	N	70	N	---	---	25	15	35	---

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
80MS217	---	11	11	11	14	11	2	11	12	14	22
80DT246A	---	11	11	11	14	11	2	11	12	15	37
80MS219	200	11	11	11	12	11	2	11	14	37	37
80MS220	---	11	11	11	14	11	2	11	12	15	36
80MS221	---	11	11	11	14	11	2	11	14	15	37
80MS223	---	11	11	11	12	11	2	11	11	11	14
80MS222	---	11	11	11	14	11	2	11	14	11	14
80MS224	<100	11	11	11	14	11	2	11	11	37	37
80AY62	---	11	11	11	14	11	2	11	14	16	37
80AY63	---	11	11	11	14	11	2	11	12	16	37
80AY63A	---	11	11	11	14	11	2	11	14	16	37
80AY63B	---	11	11	11	14	11	2	11	14	16	37
80AY64	---	11	11	11	14	11	2	11	12	16	37
80AY66	---	11	11	11	14	11	2	11	13	15	37
80AY67	---	11	11	11	14	11	2	11	12	16	37
80AY68	---	11	11	11	12	11	2	11	11	15	37
80CE191C	---	11	11	11	12	12	2	11	11	11	11
80MS227	---	11	11	11	14	11	2	12	12	14	24
80MS228	---	11	11	12	14	11	2	11	12	14	22
80MS229	---	11	11	11	14	11	2	11	12	15	22
80CX003	300	11	12	11	14	11	2	37	37	37	37
80CX004	1,000	11	12	11	14	11	2	37	37	37	37
80CX005	200	11	12	11	14	11	2	37	37	37	37
80CX008	100	11	12	11	14	11	2	37	37	37	37
80CX010	---	11	12	11	14	11	2	37	37	37	37
80AY69	---	11	11	11	14	11	2	11	12	15	36
80AY69A	---	11	11	11	12	11	2	11	11	11	15
80AY70	---	11	11	11	14	11	2	11	14	15	36
80DT263	---	11	11	11	14	12	4	11	11	15	36
80CE192A	---	11	11	11	14	12	3	11	12	15	36
80CE197A	---	11	11	11	12	12	3	11	11	11	15
80CX14	---	11	12	11	17	11	4	37	37	37	37
80MS230	---	11	11	11	14	11	4	11	14	14	36
80MS231	200	11	12	11	37	11	4	11	14	37	37
80MS232	---	11	11	11	14	11	4	11	13	15	22
80MS232B	---	11	11	11	14	11	4	11	12	15	22
80MS233	---	11	11	11	14	11	4	11	13	15	22
80MS234	---	11	11	11	14	11	4	11	12	15	22
80MS235	---	11	11	11	14	11	4	11	14	15	22
80MS236	---	11	11	11	14	11	4	11	12	14	36
80CE198A	---	11	11	11	14	12	2	11	12	15	22
80AY75	---	11	12	11	12	13	1	11	11	11	12
80AY76	---	11	11	11	14	13	1	11	12	15	22
80DT271	---	11	11	11	14	11	3	11	11	16	22
80CX26	---	11	12	11	12	13	6	11	14	11	14

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Tl	Mn	Ag	As	Au	B	Ba	Be
80CX36	57 42 32	155 23 11	1.5	1.00	15.00	.050	2,000	N	N	N	<10	700	N
80MS240	57 53 48	155 7 10	2.0	1.00	3.00	.070	500	N	N	N	10	300	<1.0
80MS240B	57 53 48	155 7 10	2.0	.70	.50	.100	300	N	N	N	15	500	<1.0
80MS240C	57 53 48	155 7 10	1.5	.70	.70	.070	200	N	N	N	15	500	1.0
80MS241	57 54 28	155 9 15	2.0	1.00	1.50	.100	500	N	N	N	15	300	<1.0
80MS241A	57 54 28	155 9 15	3.0	2.00	1.00	.300	500	N	N	N	20	500	<1.0
80MS243	57 53 11	155 4 8	1.5	.15	.20	.070	200	<.5	N	N	50	300	1.0
80MS243A	57 54 28	155 4 8	5.0	3.00	7.00	.150	2,000	N	N	N	15	700	<1.0
80MS244	57 45 37	155 17 28	2.0	2.00	2.00	.100	300	N	N	N	20	300	<1.0
80MS248	57 52 35	155 4 47	2.0	1.50	2.00	.100	500	N	N	N	20	200	<1.0
80MS250	57 51 35	155 8 31	3.0	1.50	3.00	.200	700	N	N	N	15	700	1.0
80CX37C	57 53 12	155 5 33	2.0	1.50	2.00	.100	300	1.0	N	N	15	300	<1.0
80CX38	57 53 18	155 5 54	3.0	1.50	2.00	.200	300	.5	N	N	10	500	1.0
80MS256	57 52 39	156 32 21	5.0	3.00	3.00	.300	700	<.5	N	N	20	700	<1.0
80YB127	57 34 13	155 50 36	3.0	1.00	1.50	.300	500	N	N	N	15	700	1.0
80CX46	57 44 49	155 42 20	3.0	1.50	1.50	.200	500	N	N	N	20	500	<1.0
80CX12B	57 14 22	157 3 47	2.0	2.00	2.00	.150	300	N	N	N	15	500	<1.0
80MS245B	57 53 6	155 4 15	3.0	1.50	1.50	.200	300	N	N	N	15	500	1.0
80CE213A	59 59 33	155 5 30	3.0	1.50	.70	.200	300	N	N	N	15	700	<1.0
81MS270	57 43 7	156 23 56	5.0	1.00	2.00	.300	2,000	N	N	N	30	1,000	2.0
81MS266	57 57 47	155 45 57	7.0	2.00	5.00	.500	1,500	N	N	N	20	300	N
81MS269	57 42 2	156 23 47	5.0	2.00	5.00	.500	1,500	N	N	N	20	700	1.0
81MS271	57 43 27	156 22 10	5.0	1.50	3.00	.300	1,500	N	N	N	30	700	1.0
81YB138	57 52 20	155 24 32	7.0	1.50	5.00	.700	1,500	N	N	N	70	700	1.0
81SH001	57 27 15	156 2 43	7.0	5.00	5.00	.500	1,500	N	N	N	20	200	N
81MS272A	57 27 31	156 2 33	7.0	2.00	2.00	.500	1,500	N	N	N	70	700	1.0
81MS272B	57 27 31	156 2 33	3.0	.70	2.00	.300	700	N	N	N	70	700	2.0
81SH002	57 42 4	156 49 15	3.0	1.00	2.00	.300	1,000	N	N	N	<10	1,000	2.0
81MS275	57 38 10	156 59 19	7.0	10.00	5.00	.700	1,500	N	N	N	10	700	N
81MS275B	57 38 10	156 59 19	7.0	10.00	5.00	.700	2,000	N	N	N	10	700	1.0
81MS279A	57 14 40	156 41 34	5.0	2.00	2.00	.500	700	N	N	N	500	700	2.0
81MS279B	57 14 40	156 41 34	7.0	10.00	20.00	.200	3,000	N	N	N	500	300	3.0
81MS279C	57 14 40	156 41 34	5.0	5.00	10.00	.500	1,000	N	N	N	1,000	200	2.0
81MS279D	57 14 40	156 41 34	5.0	10.00	20.00	.070	2,000	N	N	N	10	150	1.0
81CE259B	57 10 39	156 27 7	5.0	.50	.50	.700	1,000	N	N	N	500	1,000	3.0
81RJ26B	57 8 40	156 34 36	7.0	10.00	5.00	.500	1,500	N	N	N	70	2,000	1.0
81JM15	57 11 15	156 20 39	7.0	5.00	5.00	.700	1,500	N	N	N	70	1,000	1.0
81MS281	57 11 39	156 37 56	7.0	10.00	5.00	.500	1,500	N	N	N	20	700	1.0
81MS282	57 10 55	156 37 38	3.0	1.00	2.00	.300	1,000	N	N	N	50	2,000	2.0
81MS283	57 4 46	156 34 15	7.0	2.00	5.00	.500	1,500	N	N	N	50	1,000	2.0
81SH003	57 10 34	156 37 4	5.0	2.00	3.00	.500	700	N	N	N	50	1,000	2.0
81MS287	57 8 0	156 32 19	5.0	2.00	3.00	.300	1,000	N	N	N	50	1,000	1.0
81MS289A	57 7 35	156 24 44	10.0	10.00	5.00	.700	3,000	N	N	N	20	700	1.0
81DT318	57 31 18	156 11 40	10.0	5.00	5.00	.700	2,000	N	N	N	20	700	1.0
81DT328	57 9 20	157 30 40	7.0	1.00	.30	.700	1,000	1.0	N	N	70	1,000	1.0

Sample No.	B1	Cd	Co	Cr	Cu	La	Mo	Nb	NI	Pb	Sb	Sc	Sn
80CX36	N	N	10	20	10	N	N	N	10	N	N	10	N
80WS240	N	N	20	15	15	N	N	N	15	10	N	15	N
80WS240B	N	N	20	70	50	<20	20	N	20	<10	N	20	N
80WS240C	N	N	7	30	30	N	15	N	10	<10	N	10	N
80WS241	N	N	10	15	7	N	N	N	10	10	N	15	N
80WS241A	N	N	30	200	50	30	N	N	50	10	N	50	N
80WS243	N	N	5	10	15	20	N	N	7	30	N	5	N
80WS243A	N	N	20	50	30	20	N	N	20	10	N	30	N
80WS244	N	N	30	20	30	N	N	N	10	<10	N	50	N
80WS248	N	N	20	50	7	N	N	N	15	<10	N	20	N
80WS250	N	N	30	70	30	<20	N	N	20	10	N	30	N
80CK37C	N	N	15	150	500	N	<5	N	50	N	N	20	N
80CX38	N	N	20	100	300	20	30	N	30	<10	N	30	N
80WS256	N	N	30	150	50	20	N	N	50	15	N	70	N
80YB127	N	N	20	50	30	20	N	N	20	<10	N	30	N
80CK46	N	N	20	200	50	<20	N	N	30	10	N	50	N
80CX12B	N	N	15	300	100	30	N	N	50	10	N	30	N
80WS245B	N	N	20	70	70	20	N	N	30	<10	N	30	N
80CE213A	N	N	20	100	20	N	N	N	30	10	N	30	N
81WS270	N	N	10	N	5	50	N	N	5	20	N	10	N
81WS266	N	N	50	50	50	N	N	N	20	10	N	30	N
81WS269	N	N	50	70	30	N	N	N	20	10	N	20	N
81WS271	N	N	20	N	10	N	N	N	5	10	N	15	N
81YB138	N	N	50	N	100	N	N	N	5	20	N	30	N
81SH001	N	N	70	50	50	N	N	N	15	20	N	30	N
81WS272A	N	N	15	100	30	N	N	N	70	10	N	20	N
81WS272B	N	N	10	70	5	N	N	N	5	10	N	10	N
81SH002	N	N	15	10	10	N	7	N	5	10	N	7	N
81WS275	N	N	70	1,000	30	N	15	N	200	N	N	30	N
81WS275B	N	N	70	500	100	N	N	N	150	10	N	30	N
81WS279A	N	N	20	100	50	N	N	N	70	30	N	20	N
81WS279B	N	N	N	N	30	N	N	N	20	20	N	15	N
81WS279C	N	N	10	N	30	N	N	N	20	20	N	20	N
81WS279D	N	N	N	N	5	N	N	N	5	10	N	N	N
81CE259B	N	N	10	70	30	N	N	N	5	20	N	20	N
81RJ26B	N	N	50	100	50	N	N	N	30	30	N	20	N
81JM15	N	N	50	70	70	N	N	N	30	20	N	30	N
81WS281	N	N	50	200	150	100	N	N	100	10	N	30	N
81WS282	N	N	15	100	30	N	N	N	20	70	N	10	N
81WS283	N	N	15	100	50	20	N	N	50	20	N	30	N
81SH003	N	N	20	50	30	20	N	N	10	20	N	30	N
81WS287	N	N	20	50	50	20	7	N	15	30	N	20	N
81WS289A	N	N	50	150	150	20	N	N	100	N	N	30	N
81DT318	N	N	70	150	200	N	N	N	100	10	N	30	N
81DT328	N	N	10	50	50	N	N	N	10	100	N	20	N

Sample No.	Sr	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Ag
80CX36	500	30	N	15	N	N	N	---	---	10	30	5	---
80MS240	700	150	N	15	N	70	N	---	---	10	10	40	---
80MS240B	300	150	N	20	N	100	N	---	---	55	20	30	---
80MS240C	500	150	N	10	N	70	N	---	---	35	15	15	---
80MS241	700	150	N	10	N	70	N	---	---	5	15	45	---
80MS241A	500	300	N	30	N	100	N	---	---	55	20	75	---
80MS243	200	70	N	<10	N	70	N	---	---	10	45	100	---
80MS243A	700	150	N	30	N	70	N	---	---	15	25	65	---
80MS244	300	200	N	20	N	70	N	---	---	25	20	40	---
80MS248	700	200	N	10	N	70	N	---	---	15	15	60	---
80MS250	700	200	N	30	N	70	N	---	---	15	10	25	---
80CX37C	700	200	N	15	N	70	N	.10	---	350	10	20	.45
80CX38	700	200	N	30	N	100	N	---	---	220	15	45	---
80MS256	300	300	N	30	N	70	N	---	---	50	10	40	---
80YB127	500	200	N	30	N	100	N	---	---	35	15	60	---
80CX46	500	200	N	30	N	70	N	---	---	50	20	50	---
80CX12B	700	200	N	20	N	100	N	<.05	---	140	10	15	.10
80MS245B	300	200	N	30	N	100	N	---	---	65	15	80	---
80CE213A	200	200	N	20	N	100	N	---	---	20	10	50	---
81MS270	700	100	N	30	N	200	N	<.05	---	5	<5	20	---
81MS266	500	300	N	30	N	150	N	N	---	30	<5	5	---
81MS269	700	200	N	30	N	200	N	N	---	5	<5	<5	---
81MS271	700	200	N	30	N	200	N	N	---	<5	<5	<5	---
81YB138	700	300	N	50	N	200	N	N	---	80	<5	5	---
81SH001	500	300	N	20	N	20	N	N	---	50	10	10	---
81MS272A	700	200	N	30	N	200	N	N	---	35	10	20	---
81MS272B	1,000	100	N	N	N	70	N	N	---	<5	5	10	---
81SH002	1,000	100	N	20	N	200	N	N	---	<5	5	<5	---
81MS275	1,000	300	N	50	N	200	N	N	---	15	10	25	---
81MS275B	1,000	300	N	50	N	200	N	N	---	50	10	25	---
81MS279A	500	300	N	30	N	200	N	N	---	40	15	65	---
81MS279B	2,000	100	N	70	N	150	N	N	---	15	25	50	---
81MS279C	700	100	N	70	N	500	N	N	---	25	20	25	---
81MS279D	2,000	20	N	30	N	N	N	N	---	5	30	15	---
81CE259B	300	300	N	30	N	300	N	N	---	20	10	10	---
81RJ26B	2,000	300	N	30	N	300	N	N	---	40	15	20	---
81JM15	1,000	300	N	70	N	300	N	N	---	50	15	35	---
81MS281	1,500	300	N	50	N	300	N	N	---	85	15	10	---
81MS282	1,500	200	N	10	N	200	N	N	---	15	20	40	---
81MS283	500	300	N	70	N	300	N	N	---	45	10	35	---
81SH003	500	200	N	50	N	300	N	N	---	15	15	20	---
81MS287	500	200	N	50	N	300	N	N	---	50	10	20	---
81MS289A	1,000	300	N	50	N	500	N	N	---	75	10	50	---
81DT318	300	300	N	30	N	150	N	N	---	130	15	40	---
81DT328	100	200	N	30	N	300	N	N	---	50	35	130	---

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
80CX36	---	11	12	11	14	13	4	37	14	17	37
80MS240	---	11	11	11	14	14	4	12	12	14	22
80MS240B	200	11	12	11	12	14	4	11	14	11	13
80MS240C	100	11	12	11	14	14	4	11	14	37	37
80MS241	---	11	11	11	14	14	4	11	12	15	22
80MS241A	---	11	11	11	12	14	4	11	37	11	13
80MS243	---	11	11	11	14	14	4	11	14	15	37
80MS243A	---	11	12	11	12	14	4	11	14	17	37
80MS244	---	11	11	11	11	14	4	12	12	16	22
80MS248	---	11	11	11	14	14	4	11	12	15	22
80MS250	---	11	11	11	12	14	4	11	11	11	11
80CX37C	---	11	12	11	14	14	4	11	14	14	27
80CX38	200	11	12	11	13	14	4	11	14	37	18
80MS256	---	11	11	11	14	14	2	11	11	14	24
80YB127	---	11	11	11	12	13	6	11	11	12	13
80CX46	---	11	12	11	12	13	6	11	14	11	13
80CX12B	---	11	12	11	17	11	4	37	37	37	37
80MS245B	---	11	11	11	12	14	4	11	14	11	12
80CE213A	---	11	11	11	12	14	4	11	11	11	11
81MS270	---	11	11	11	14	13	2	11	12	14	36
81MS266	---	11	11	11	14	14	6	11	13	15	22
81MS269	---	11	11	11	14	13	2	11	12	15	36
81MS271	---	11	11	11	14	13	2	11	12	19	36
81YB138	---	11	11	11	14	14	5	11	11	14	36
81SH001	---	11	11	11	14	12	1	11	11	14	25
81MS272A	---	11	11	11	12	12	1	11	14	11	16
81MS272B	---	11	11	11	14	12	1	11	14	14	25
81SH002	---	11	11	11	14	13	3	11	11	14	24
81MS275	300	11	11	11	14	13	3	11	12	16	22
81MS275B	---	11	11	11	14	13	3	12	11	16	22
81MS279A	---	11	11	11	12	12	3	11	11	12	15
81MS279B	---	16	11	11	35	11	3	11	13	17	36
81MS279C	---	16	11	11	35	11	3	11	13	17	36
81MS279D	---	16	11	11	35	11	3	11	13	17	36
81CE259B	---	11	11	11	14	11	2	11	14	15	36
81RJ268	---	11	11	11	14	11	2	11	12	14	25
81JM15	---	11	11	11	14	11	2	11	12	19	22
81MS281	---	11	11	11	14	11	2	11	12	15	36
81MS282	---	11	11	11	14	11	2	11	12	15	22
81MS283	---	11	11	11	14	11	2	11	11	14	25
81SH003	---	11	11	11	14	11	2	11	14	15	36
81MS287	---	11	11	11	14	11	2	11	11	14	27
81MS289A	---	11	11	11	14	11	2	11	11	15	22
81DT318	---	11	11	11	14	13	1	11	12	11	37
81DT328	---	11	12	11	13	11	2	11	13	11	37

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be
81DT336	57 10 30	157 30 12	5.0	2.00	.70	.700	700	N	N	N	30	700	1.0
81DT337	57 10 11	157 29 40	7.0	.30	.20	.300	700	N	N	N	30	2,000	N
81DT340	57 11 0	157 31 10	10.0	1.00	2.00	.300	500	N	N	N	30	300	1.0
81YB151B	57 9 57	156 37 45	7.0	2.00	5.00	.500	1,000	N	N	N	20	2,000	2.0
81YB151C	57 9 57	156 37 45	10.0	10.00	10.00	.700	2,000	N	N	N	50	300	N
81SH7	57 10 30	156 28 10	5.0	1.50	1.50	.500	700	N	N	N	20	700	1.0
81SH8	57 2 57	156 38 9	5.0	2.00	2.00	.500	1,000	N	N	N	10	500	1.0
81SH11	57 1 46	157 2 38	5.0	3.00	2.00	.500	2,000	N	N	N	<10	100	1.0
81SH17	57 1 53	156 59 56	2.0	1.50	1.00	.200	500	N	N	N	20	500	1.0
81SH18	57 1 2	156 59 7	5.0	2.00	1.50	.500	700	<.5	N	N	20	500	1.0
81WS286	57 4 34	156 24 29	.2	.03	.05	.700	50	N	N	N	10	50	N
81WS292	57 1 45	156 34 30	5.0	2.00	2.00	.500	1,500	N	N	N	<10	500	<1.0
81WS293A	57 7 38	156 24 12	3.0	1.00	2.00	.500	1,500	N	N	N	10	700	<1.0
81WS293B	57 7 38	156 24 12	7.0	1.50	1.00	.500	1,500	N	300	N	20	700	<1.0
81WS294A	57 7 39	156 24 10	5.0	3.00	.70	.500	1,500	N	N	N	20	1,000	<1.0
81WS294B	57 7 39	156 24 10	5.0	2.00	1.50	.500	1,500	N	200	N	30	200	1.0
81WS294C	57 7 39	156 24 10	5.0	2.00	1.50	.500	1,000	N	N	N	50	500	1.0
81WS297B	57 10 53	156 25 42	1.5	2.00	1.50	.200	300	N	N	N	50	500	1.0
81WS304	57 5 40	156 40 22	5.0	2.00	1.50	.700	2,000	N	N	N	10	500	1.0
81CE267	57 17 19	156 24 32	3.0	1.50	1.00	.300	1,000	N	N	N	50	700	<1.0
81CE273A	57 11 35	156 23 32	7.0	1.50	.05	.500	1,500	.5	N	N	70	700	1.0
81DT355	57 2 45	157 58 40	5.0	.50	1.00	.700	300	<.5	N	N	50	150	1.0



Sample No.	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
81DT336	N	N	30	150	100	N	N	N	70	30	N	30	N
81DT337	N	N	10	10	30	N	70	N	5	20	N	10	N
81DT340	N	N	70	100	300	N	N	N	70	10	N	20	N
81YB151B	N	N	30	150	150	20	15	N	70	10	N	20	N
81YB151C	N	N	50	700	10	N	15	N	150	N	N	50	N
81SH7	N	N	20	20	20	N	N	N	7	<10	N	20	N
81SH8	N	N	20	30	30	20	N	N	10	100	N	20	N
81SH11	N	N	20	150	20	N	N	N	70	50	N	20	N
81SH17	N	N	15	30	15	20	5	N	30	<10	N	10	N
81SH18	N	N	20	50	20	20	N	N	30	10	N	15	N
81WS286	N	N	N	20	<5	N	7	N	N	<10	N	7	N
81WS292	N	N	20	50	100	N	7	N	20	15	N	30	N
81WS293A	N	N	7	N	<5	N	N	N	<5	10	N	20	N
81WS293B	N	N	<5	50	20	N	N	N	5	20	N	30	N
81WS294A	N	N	30	70	30	50	N	N	30	15	N	50	N
81WS294B	N	N	30	70	50	50	N	N	20	10	N	30	N
81WS294C	N	N	20	30	30	N	N	N	15	10	N	30	N
81WS297B	N	N	10	100	5	30	N	N	20	<10	N	10	N
81WS304	N	N	20	20	30	N	N	N	10	<10	N	20	N
81CE267	N	N	20	50	50	N	N	N	30	<10	N	15	N
81CE273A	N	N	<5	100	30	N	<5	N	20	30	N	15	N
81DT355	N	N	10	300	20	N	N	N	20	15	N	20	N

Sample No.	Sr	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Ag
81DT336	500	300	N	30	<200	200	N	N	---	70	15	35	---
81DT337	200	150	N	10	<200	300	N	N	---	20	20	65	---
81DT340	500	200	N	30	N	100	N	N	---	340	15	10	---
81YB151B	2,000	300	N	30	N	300	N	N	---	75	15	20	---
81YB151C	1,000	500	N	30	<200	70	N	N	---	5	15	15	---
81SH7	300	200	N	30	N	200	N	N	---	20	10	15	---
81SH8	500	200	N	50	N	200	N	.10	---	30	25	30	---
81SH11	500	200	N	20	300	150	N	<.05	---	25	35	175	---
81SH17	500	100	N	10	N	100	N	N	---	25	20	30	---
81SH18	700	200	N	15	N	100	N	N	---	20	20	45	---
81WS286	N	20	N	<10	N	300	N	N	---	<5	10	N	---
81WS292	500	200	N	20	N	200	N	N	---	70	15	40	---
81WS293A	500	150	N	30	N	150	N	N	---	<5	15	45	---
81WS293B	500	200	N	20	N	100	N	N	---	20	35	35	---
81WS294A	300	200	N	20	<200	70	N	N	---	30	30	85	---
81WS294B	300	200	N	30	N	100	N	N	---	40	35	50	---
81WS294C	300	200	N	20	N	100	N	N	---	35	25	90	---
81WS297B	1,000	100	N	<10	N	150	N	N	---	<5	10	N	---
81WS304	500	150	N	30	N	150	N	N	---	35	25	50	---
81CE267	300	150	N	20	N	100	N	N	---	65	25	50	---
81CE273A	200	150	N	20	200	150	N	<.05	---	30	50	220	---
81DT355	300	150	N	15	N	150	N	N	---	20	20	30	---

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
81DT336	---	11	12	11	14	11	2	11	12	14	37
81DT337	200	11	12	11	14	11	2	11	12	14	25
81DT340	---	11	12	11	23	11	2	11	11	19	37
81YB151B	300	11	11	11	14	11	2	11	13	15	37
81YB151C	300	11	11	11	14	11	2	11	13	15	37
81SH7	---	11	11	11	14	11	2	11	11	14	25
81SH8	---	11	11	11	14	11	2	11	11	14	27
81SH11	---	11	11	11	14	11	4	11	12	15	22
81SH17	---	11	11	11	14	11	3	11	11	19	22
81SH18	---	11	11	11	14	11	3	11	11	19	22
81WS286	---	11	11	11	35	11	2	11	11	19	36
81WS292	---	11	11	11	14	11	2	11	11	15	22
81WS293A	---	11	11	11	14	11	2	11	12	15	22
81WS293B	---	11	11	11	13	11	2	11	14	14	25
81WS294A	---	11	11	11	14	11	2	11	14	16	22
81WS294B	---	11	11	11	12	11	2	11	14	11	13
81WS294C	---	11	11	11	14	11	2	11	14	16	22
81WS297B	---	11	11	11	35	11	2	11	12	16	22
81WS304	---	11	11	11	13	11	3	11	12	11	36
81CE267	---	11	11	11	12	12	2	11	11	11	15
81CE273A	---	11	11	11	14	11	2	11	14	15	36
81DT355	---	11	11	11	14	11	3	11	12	15	22