

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SPECTROGRAPHIC AND CHEMICAL ANALYSES OF  
GEOCHEMICAL SAMPLES FROM THE  
LAKE CLARK QUADRANGLE, ALASKA

by

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A geochemical survey was begun in the Lake Clark quadrangle, Alaska, during 1977 as part of the Alaska Mineral Resource Assessment Program (AMRAP). This report presents analytical data for samples collected during the summer of 1977 (tables 1 and 2). The geochemical sampling was done mainly in the central and western parts of the quadrangle. (See plate 1 for site locations). Additional sampling, mainly in the eastern part of the quadrangle, is to be done during the summer of 1978.

Stream-sediment samples were collected at 436 sites, and heavy-mineral concentrate samples were collected at 354 of the same sites. Two hundred and ten of the stream-sediment samples and 134 of the heavy-mineral concentrate samples were collected by the State of Alaska Division of Geological and Geophysical Surveys.

Access to sample sites was gained mainly by use of a helicopter; a few were collected by floatplane; and the sites near the perimeter of Lake Clark and Kontrashibuna Lake, by boat.

Most of the samples were taken from active mountain streams. Minus-2 mm sediment was collected for the stream-sediment samples. This material was air-dried and sieved in the laboratory through an 80-mesh (0.177 mm) screen; the finer fraction was pulverized and analyzed. Heavy-mineral concentrate samples were collected by panning the minus-2 mm stream sediment to remove most of the light-mineral fraction. The remaining light-mineral grains were removed in the laboratory by passing the samples through bromoform (specific gravity: 2.86). The heavy-mineral concentrate samples were divided into three fractions based on magnetic susceptibilities of the mineral grains. A fraction consisting chiefly of magnetite was removed with the use of a hand magnet and a Frantz<sup>1/</sup> Isodynamic magnetic separator at a setting of 0.1 ampere. Two fractions were obtained by passing the remaining sample through the Frantz separator at a setting of 0.6 amp. The fraction with less magnetic susceptibility, referred to in this report as nonmagnetic, generally contains most of the minerals of interest in geochemical exploration. A split of this fraction was pulverized with mortar and pestle and used for analysis.

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<sup>1/</sup> The use of this trade name is for descriptive purposes only and does not constitute endorsement of this product by the U.S. Geological Survey.

Stream-sediment samples and nonmagnetic heavy-mineral concentrate samples were analyzed for 30 elements by semiquantitative emission spectrography (Grimes and Marranzino, 1968). The concentrate samples were also analyzed for thorium (table 2) by the same method. Stream-sediment samples were also analyzed for copper, gold, lead, mercury, and zinc using atomic-absorption spectrometry (methods described in Ward and others, 1969) and for arsenic using a confined-spot procedure (Almond, 1953; Ward and others, 1963). Seven stream-sediment samples were analyzed for uranium by a fluorometric method (modified from Centanni and others, 1956). Six of these samples are from sites where heavy-mineral concentrate samples contained high thorium values. The results of analyses for uranium, in parts per million, are as follows:

Sample	U (ppm)	Sample	U
LC026S	1.1	LC292S	4.4
LC059S	3.8	LC296S	7.7
LC284S	3.4	LC299S	3.6
LC288S	4.0		

All of the analytical data have been entered in the U.S. Geological Survey's computerized analysis storage system (RASS).

#### REFERENCES CITED

- Almond, Hy, 1953, Field method for the determination of traces of arsenic in soils; confined-spot procedure using a modified Gutzeit apparatus: *Anal. Chemistry*, v. 25, no. 11, p. 1766.
- Centanni, F. A., Ross, A. M., and DeSesa, M. A., 1956, Fluorometric determination of uranium: *Anal. Chemistry*, v. 28, no. 11, p. 1651-1657.
- Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: *U.S. Geol. Survey Circ. 591*, 6 p.
- Ward, F. N., Lakin, H. W., Canney, F. C., and others, 1963, Analytical methods used in geochemical exploration by the U.S. Geological Survey : *U.S. Geol. Survey Bull. 1152*, 100 p.
- Ward, F. N., Nakagawa, H. M., Harms, T. F., and VanSickle, G. H., 1969, Atomic-absorption methods of analysis useful in geochemical exploration: *U.S. Geol. Survey Bull. 1289*, 45 p.

Table 1.--Semi-quantitative spectrographic and chemical analyses of minus-80 mesh fraction of stream-sediment samples from Lake Clark quadrangle, Alaska

(Sample-site numbers corresponding to sample numbers of this table are shown on the sample-site location map without the prefix "LC," the suffix "S," or leading zeros. Thus, "LC001S" is shown on the map as "1." Fe, Mg, Ca, and Ti are reported in percent; all other analyses are reported in parts per million. Symbols used: >, an undetermined amount greater than the amount shown was detected; <, an undetermined amount less than amount shown was detected; N, not detected; --, not analyzed. Spectrographic analyses by E. F. Cooley. Atomic-absorption analyses for copper, gold, lead, mercury, and zinc, confined-spot-procedure analyses for arsenic, and fluorometric analysis for uranium (7 samples) by: R. M. O'Leary, J. A. Roybal, and Carol Wilson. Lower limits of determination for elements are shown in parentheses beneath the chemical-symbol column headings on the first three pages of the table.)

sample	LATITUDE	LONGITUDE	S-FE% (.05)	S-MG% (.02)	S-CA% (.05)	S-TI% (.002)	S-MN (.10)	S-AG (.5)	S-AS (200)	S-AU (10)	S-Z (.10)	S-BI (10)	S-CD (20)
LC001S	60 27 10	154 44 12	5.0	1.0	1.0	.70	500	N	N	N	50	700	N
LC002S	60 26 21	154 44 9	5.0	1.5	1.0	.70	500	N	N	N	50	700	N
LC003S	60 26 43	154 44 7	5.0	1.5	1.0	.70	500	N	N	N	50	700	N
LC004S	60 27 25	154 43 44	5.0	1.5	1.0	.70	700	<.5	N	N	50	700	N
LC005S	60 28 53	154 42 10	5.0	1.5	1.5	.70	700	N	N	N	30	700	N
LC006S	60 28 50	154 40 59	5.0	1.5	1.5	.70	700	N	N	N	20	700	N
LC007S	60 29 14	154 39 33	10.0	1.5	1.5	.70	700	N	N	N	20	500	N
LC008S	60 29 57	154 37 46	5.0	1.5	1.5	.70	700	N	N	N	30	700	N
LC009S	60 28 22	154 42 17	5.0	1.0	1.0	.70	500	N	N	N	20	500	N
LC010S	60 28 27	154 48 30	5.0	1.5	1.0	.70	500	N	N	N	30	500	N
LC011S	60 28 41	154 47 9	5.0	1.5	1.0	.70	1,000	N	N	N	30	150	N
LC012S	60 29 6	154 48 5	10.0	2.0	3.0	.70	1,000	N	N	N	20	150	N
LC013S	60 33 10	154 48 6	5.0	1.5	1.5	.70	500	N	N	N	30	1,000	N
LC014S	60 32 17	154 39 32	7.0	1.5	1.0	.70	1,000	N	N	N	20	700	N
LC015S	60 30 51	154 37 18	5.0	1.0	1.0	.50	2,000	N	N	N	30	700	N
LC016S	60 31 13	154 32 3	3.0	1.0	1.0	.50	300	N	N	N	20	1,000	N
LC017S	60 31 22	154 27 28	3.0	.7	.7	.50	500	N	N	N	10	1,000	1.5
LC018S	60 32 0	154 30 0	5.0	1.0	1.5	.50	700	N	N	N	20	700	1.0
LC019S	60 31 47	154 42 15	5.0	1.5	1.0	.50	1,000	N	N	N	20	700	1.0
LC020S	60 21 21	154 32 36	5.0	1.5	1.5	.50	700	N	N	N	20	700	1.0
LC021S	60 23 57	154 27 59	5.0	1.5	1.0	.50	700	N	N	N	30	1,000	1.0
LC022S	60 26 12	154 33 20	5.0	1.5	1.0	.50	700	N	N	N	10	700	1.0
LC023S	60 29 11	154 26 48	5.0	1.5	1.0	.50	700	N	N	N	10	700	1.5
LC024S	60 28 12	154 31 55	10.0	2.0	2.0	.70	1,000	N	N	N	10	700	2.0
LC025S	60 29 17	154 32 29	5.0	1.0	1.0	.50	700	N	N	N	10	1,000	2.0
LC026S	60 30 15	154 39 37	5.0	1.5	1.5	.70	700	N	N	N	20	700	<1.0
LC027S	60 27 16	154 37 56	7.0	1.5	1.5	.70	1,000	N	N	N	20	700	<1.0
LC028S	60 27 31	154 38 56	7.0	1.5	1.5	.70	1,000	N	N	N	50	700	<1.0
LC029S	60 25 31	154 33 29	5.0	1.0	1.0	.50	500	N	N	N	10	700	2.0
LC030S	60 23 17	154 34 17	5.0	1.0	1.0	.50	500	N	N	N	10	700	1.5
LC031S	60 20 22	154 35 18	7.0	1.5	2.0	.70	700	N	N	N	10	300	<1.0
LC032S	60 20 30	154 35 54	2.0	1.0	1.0	.50	500	N	N	N	10	300	1.5
LC033S	60 19 9	154 38 30	10.0	1.5	1.0	1,000	1,000	N	N	N	50	700	1.0
LC034S	60 20 50	154 30 28	5.0	1.5	1.0	.70	500	N	N	N	20	500	1.0
LC035S	60 21 16	154 40 50	5.0	1.5	1.5	.50	1,000	N	N	N	50	300	<1.0
LC036S	60 19 53	154 39 26	7.0	1.5	1.0	.70	1,000	N	N	N	20	1,000	<1.0
LC037S	60 21 50	154 38 26	10.0	1.5	1.0	.70	700	N	N	N	200	700	<1.0
LC038S	60 25 31	154 42 11	7.0	2.0	1.5	.70	1,000	N	N	N	50	700	1.0
LC039S	60 24 2	154 48 46	10.0	2.0	1.0	.70	1,000	N	N	N	50	1,000	<1.0
LC040S	60 18 29	154 36 15	5.0	1.0	1.0	.50	1,000	N	N	N	100	500	1.0
LC041S	60 17 39	154 35 49	5.0	1.5	1.0	.70	1,000	N	N	N	30	700	1.0
LC042S	60 18 55	154 29 11	5.0	1.5	1.5	.70	1,000	N	N	N	15	700	1.0
LC043S	60 17 3	154 31 22	5.0	1.5	1.0	.70	1,000	N	N	N	30	700	1.0
LC044S	60 16 58	154 30 12	10.0	1.5	1.0	.70	1,000	N	N	N	20	700	<1.0
LC045S	60 15 53	154 36 1	10.0	2.0	1.5	.70	1,000	N	N	N	30	1,000	<1.0

Lake Clark stream sediments---continued

sample	S-CO (5)	S-CR (10)	S-CU (5)	S-LA (20)	S-MO (5)	S-NB (20)	S-NI (5)	S-PB (10)	S-SB (100)	S-SC (5)	S-SN (10)	S-SR (100)	S-V (10)	S-W (50)	S-Y (10)	S-ZN (200)	S-ZR (10)
LC001S	50	200	50	50	N	<20	100	30	N	20	N	200	200	N	30	<200	100
LC002S	50	500	50	50	N	<20	100	30	N	20	N	200	200	N	30	N	150
LC003S	50	200	30	50	N	<20	70	30	N	20	70	200	200	N	30	N	100
LC004S	50	100	200	50	N	<20	50	70	N	20	N	200	200	N	30	<200	100
LC005S	50	200	30	50	N	<20	50	20	N	20	150	200	200	N	20	N	100
LC006S	50	200	20	50	N	<20	50	30	N	30	N	200	200	N	20	N	200
LC007S	50	200	30	50	N	<20	50	15	N	20	N	200	200	N	30	N	100
LC008S	50	150	15	50	N	<20	30	20	N	20	N	200	200	N	20	N	300
LC009S	30	70	20	50	N	<20	30	20	N	20	N	200	200	N	20	N	100
LC010S	50	300	50	50	N	<20	100	20	N	20	N	200	200	N	20	N	100
LC011S	50	100	100	50	N	<20	70	50	N	30	N	200	200	N	30	N	100
LC012S	70	300	70	50	N	<20	100	20	N	20	N	300	300	N	30	N	70
LC013S	50	70	20	50	N	<20	50	30	N	20	N	300	150	N	20	N	100
LC014S	50	70	20	50	N	<20	50	20	N	20	N	200	300	N	30	N	300
LC015S	30	50	15	50	N	<20	30	20	N	20	N	200	150	N	20	N	150
LC016S	20	50	20	50	N	<20	20	50	N	10	N	200	150	N	50	N	300
LC017S	20	30	10	50	N	<20	10	30	N	20	N	200	100	N	50	<200	200
LC018S	20	70	50	50	N	<20	30	50	N	20	N	200	150	N	30	N	150
LC019S	50	100	30	50	N	<20	50	20	N	20	N	200	200	N	30	N	100
LC020S	50	200	20	50	<5	<20	50	50	N	20	N	300	200	N	30	N	150
LC021S	50	100	150	70	N	<20	20	100	N	20	N	200	200	N	30	<200	300
LC022S	30	50	20	70	N	<20	20	50	N	20	N	200	150	N	30	N	200
LC023S	50	50	20	50	N	<20	20	50	N	20	N	200	200	N	30	N	200
LC024S	50	100	30	50	N	<20	50	70	N	20	N	200	300	N	30	200	100
LC025S	20	50	30	50	<5	<20	15	200	N	10	20	200	200	N	50	300	700
LC026S	50	300	30	50	N	<20	50	50	N	20	N	200	200	N	30	N	150
LC027S	50	200	20	200	N	<20	50	30	N	30	N	200	300	N	30	N	300
LC028S	50	300	50	50	N	<20	70	50	N	30	N	200	200	N	30	N	300
LC029S	20	20	30	50	N	<20	15	70	N	15	N	200	100	N	50	200	200
LC030S	20	50	30	50	N	<20	15	70	N	15	N	200	100	N	30	200	300
LC031S	50	100	20	50	<5	<20	15	70	N	20	N	200	200	N	20	N	200
LC032S	10	20	20	50	N	<20	10	70	N	10	N	200	150	N	50	N	70
LC033S	50	100	20	50	N	<20	20	70	N	30	N	200	300	N	50	N	200
LC034S	50	200	20	50	N	<20	30	30	N	20	N	200	200	N	30	N	100
LC035S	30	150	20	50	N	<20	30	20	N	20	N	300	200	N	30	N	70
LC036S	50	150	20	50	N	<20	20	50	N	20	N	300	200	N	30	N	100
LC037S	50	200	50	50	N	<20	50	50	N	30	N	200	300	N	30	N	100
LC038S	50	300	20	50	N	<20	70	30	N	20	N	300	300	N	20	N	300
LC039S	70	500	70	50	N	<20	70	50	N	30	N	200	300	N	70	N	200
LC040S	20	50	10	50	N	<20	15	20	N	15	N	200	200	N	20	<200	70
LC041S	50	200	20	50	N	<20	50	30	N	20	N	200	300	N	50	<200	200
LC042S	50	200	30	50	N	<20	100	20	N	20	N	300	300	N	20	N	200
LC043S	50	200	50	50	N	<20	100	30	N	20	N	200	300	N	30	N	150
LC044S	50	200	50	50	N	<20	100	30	N	30	N	200	300	N	50	<200	150
LC045S	70	500	50	50	N	<20	70	30	N	30	N	200	300	N	50	<200	200

Lake Clark stream sediments--continued

sample	AA-AU (.05)	INST-HG (.02)	AA-CU (5)	AA-PB (5)	AA-ZN (5)	AS (10)
LC001S	N	.08	50	30	160	N
LC002S	N	.04	30	15	80	N
LC003S	N	.04	30	20	90	N
LC004S	N	.12	140	55	380	30
LC005S	N	.08	20	15	65	N
LC006S	N	.04	15	15	65	N
LC007S	N	.06	15	15	55	N
LC008S	N	.04	10	10	60	N
LC009S	N	.04	20	20	95	N
LC010S	N	.14	35	20	75	10
LC011S	N	.18	70	30	170	10
LC012S	N	.08	40	10	110	10
LC013S	N	.04	15	15	60	10
LC014S	N	.04	10	15	80	10
LC015S	N	.02	5	15	90	10
LC016S	N	.02	20	25	90	N
LC017S	N	.02	10	25	80	N
LC018S	--	.02	25	30	100	N
LC019S	N	.02	15	15	90	N
LC020S	N	.02	15	30	65	10
LC021S	N	.04	75	55	230	10
LC022S	N	.06	20	40	120	10
LC023S	N	.06	10	30	110	N
LC024S	N	.04	15	30	160	30
LC025S	N	.04	25	95	320	10
LC026S	N	.04	20	15	70	--
LC027S	N	.04	15	15	70	N
LC028S	N	.04	25	20	75	N
LC029S	N	.02	30	45	190	30
LC030S	N	.02	35	35	320	N
LC031S	N	.04	5	35	70	N
LC032S	N	.12	20	50	260	N
LC033S	N	.08	20	20	60	10
LC034S	N	.08	20	15	60	N
LC035S	N	.04	15	20	80	40
LC036S	N	.08	30	25	70	20
LC037S	N	.08	20	20	60	80
LC038S	N	.78	20	20	60	N
LC039S	N	.06	25	20	90	10
LC040S	N	.06	20	30	85	N
LC041S	N	.06	25	15	80	N
LC042S	N	.02	30	15	85	N
LC043S	N	.02	35	15	120	N
LC044S	N	.02	40	20	110	N
LC045S	N	.08	10	15	60	N



Lake Clark stream sediments--continued

sample	LATITUDE	LONGITUDE	S-FEZ	S-MGZ	S-CA%	S-TI%	S-WN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
LC046S	60 17 11	154 38 9	10.0	1.0	.7	.70	700	N	N	N	50	1,000	1.0	N	N
LC047S	60 17 22	154 41 26	7.0	1.5	2.0	.70	700	N	N	N	15	1,000	1.0	N	N
LC048S	60 16 1	154 48 6	5.0	1.0	1.0	.70	500	N	N	N	20	700	1.0	N	N
LC049S	60 17 20	154 48 24	5.0	1.0	.7	.70	1,000	N	N	N	50	700	1.0	N	N
LC050S	60 17 21	154 49 18	7.0	1.5	1.5	1.00	1,000	N	N	N	50	700	1.0	N	N
LC051S	60 26 35	154 44 57	3.0	1.0	1.0	.50	700	N	N	N	30	300	1.0	N	N
LC052S	60 29 18	154 41 20	5.0	1.5	1.5	.70	700	N	N	N	20	500	1.0	N	N
LC053S	60 31 41	154 45 2	10.0	2.0	2.0	.70	1,000	N	N	N	20	700	<1.0	N	N
LC054S	60 32 22	154 47 50	3.0	1.0	1.5	.50	2,000	N	N	N	15	700	1.0	N	N
LC055S	60 22 40	154 32 2	5.0	1.0	1.5	.70	1,000	N	N	N	30	1,000	1.0	N	N
LC056S	60 22 18	154 30 5	5.0	1.5	1.5	.50	700	N	N	N	30	700	<1.0	N	N
LC057S	60 26 16	154 28 56	5.0	1.0	1.0	.50	700	N	N	N	20	700	1.0	N	N
LC058S	60 25 33	154 37 24	5.0	1.5	1.5	.50	1,000	N	N	N	10	500	1.0	N	N
LC059S	60 22 9	154 37 0	5.0	1.0	1.0	.50	700	N	N	N	10	700	1.0	N	N
LC060S	60 18 11	154 35 3	10.0	2.0	1.5	.50	1,000	N	N	N	50	700	<1.0	N	N
LC061S	60 15 46	154 30 56	10.0	2.0	1.0	.50	1,000	N	N	N	50	700	<1.0	N	N
LC062S	60 17 21	154 37 6	5.0	1.0	.7	.50	700	N	N	N	30	700	1.0	N	N
LC063S	60 17 30	154 41 54	5.0	1.5	1.0	.70	1,000	N	N	N	30	700	1.0	N	N
LC064S	60 15 32	154 45 57	10.0	2.0	1.5	.70	1,000	N	N	N	30	1,500	<1.0	N	N
LC065S	60 17 35	154 49 32	10.0	2.0	1.5	1.00	1,000	N	N	N	70	700	<1.0	N	N
LC066S	60 17 17	154 45 34	7.0	1.5	1.5	.70	1,000	N	N	N	50	700	1.0	N	N
LC067S	60 17 39	154 43 41	3.0	.7	1.0	.50	700	N	N	N	10	700	1.0	N	N
LC068S	60 20 3	154 42 48	7.0	1.5	1.5	.50	700	N	N	N	20	500	<1.0	N	N
LC069S	60 25 42	154 54 7	7.0	1.5	1.0	.50	700	N	N	N	20	500	<1.0	N	N
LC070S	60 26 26	154 57 59	5.0	1.5	1.0	1.00	500	N	N	N	30	500	1.0	N	N
LC071S	60 24 47	154 59 26	5.0	1.0	1.0	.70	500	7.0	N	N	30	500	1.0	N	N
LC072S	50 24 42	154 55 46	5.0	1.0	1.0	1.00	500	N	N	N	30	500	1.0	N	N
LC073S	60 23 53	154 58 1	5.0	1.0	1.5	1.00	500	N	N	N	20	500	1.0	N	N
LC074S	60 23 57	155 4 9	5.0	1.5	1.0	.70	500	N	N	N	30	1,000	1.0	N	N
LC075S	60 25 33	155 3 46	5.0	1.5	1.0	.70	500	N	N	N	20	500	1.0	N	N
LC076S	60 27 5	155 2 7	7.0	1.5	1.0	.70	700	N	N	N	30	700	<1.0	N	N
LC077S	60 28 18	154 57 48	3.0	.7	1.0	.50	700	N	N	N	20	500	<1.0	N	N
LC078S	60 28 10	154 54 17	7.0	1.0	.5	.70	700	N	N	N	50	700	1.0	N	N
LC079S	60 29 18	154 52 28	7.0	1.5	1.0	.70	700	N	N	N	30	700	1.0	N	N
LC080S	60 29 35	154 50 26	5.0	1.0	1.5	.70	700	N	N	N	20	700	1.0	N	N
LC081S	60 29 43	154 56 22	5.0	1.5	1.5	.50	700	N	N	N	20	700	1.0	N	N
LC082S	60 28 56	154 59 57	5.0	1.0	1.5	.70	700	N	N	N	10	700	1.0	N	N
LC083S	60 32 30	154 51 34	10.0	1.5	1.5	.70	1,000	N	N	N	30	700	1.0	N	N
LC084S	60 34 14	154 50 35	10.0	1.5	1.5	.70	1,000	N	N	N	20	700	1.0	N	N
LC085S	60 31 44	154 55 29	5.0	1.5	1.5	.70	1,000	N	N	N	20	1,000	1.0	N	N
LC086S	60 34 47	154 56 45	10.0	1.5	1.5	.70	1,000	N	N	N	20	700	1.0	N	N
LC087S	60 32 59	155 2 3	5.0	.7	1.0	.70	1,000	N	N	N	100	500	1.5	N	N
LC088S	60 32 41	154 59 53	10.0	1.0	1.0	.70	1,000	N	N	N	100	700	1.0	N	N
LC089S	60 31 46	154 58 19	15.0	2.0	2.0	.70	1,500	N	N	N	10	700	1.0	N	N
LC090S	60 31 27	155 2 53	10.0	1.0	1.0	.70	1,500	N	N	N	100	700	1.5	N	N

Lake Clark stream sediments--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
LCC46S	50	100	20	50	<5	<20	10	50	N	20	N	200	300	N	50	N	1,000
LCC47S	50	150	20	50	N	<20	70	20	N	20	N	200	200	N	30	N	200
LCC48S	50	100	30	50	N	<20	20	30	N	20	N	200	200	N	30	N	100
LCC49S	50	150	10	50	N	<20	20	30	N	20	N	200	200	N	30	N	100
LCC50S	50	200	50	50	N	<20	50	50	N	20	N	300	300	N	50	N	150
LCC51S	20	50	20	50	N	<20	30	10	N	15	N	200	200	N	20	<200	100
LCC52S	50	150	50	50	N	<20	50	20	N	20	N	200	300	N	30	N	200
LCC53S	70	300	50	50	N	<20	70	15	N	30	N	300	500	N	30	N	300
LCC54S	20	30	10	50	N	<20	20	<10	N	15	N	300	200	N	20	N	70
LCC55S	50	100	50	100	N	<20	20	50	N	20	N	200	200	N	50	200	700
LCC56S	50	150	50	50	5	<20	30	50	N	20	N	300	200	N	30	N	200
LCC57S	20	50	15	100	N	<20	20	20	N	20	N	200	200	N	30	N	200
LCC58S	50	150	50	50	N	<20	50	50	N	20	N	300	300	N	30	N	100
LCC59S	30	50	30	50	N	<20	20	70	N	15	N	200	200	N	50	200	300
LCC60S	70	300	50	50	N	<20	70	50	N	30	N	300	300	N	30	N	200
LCC61S	70	300	70	50	N	<20	100	50	N	30	N	200	500	N	50	N	150
LCC62S	50	100	15	50	N	<20	30	20	N	20	N	200	200	N	50	<200	150
LCC63S	50	100	15	50	N	<20	50	20	N	20	N	300	300	N	30	N	200
LCC64S	70	700	70	50	N	<20	70	50	N	30	N	300	300	N	30	N	200
LCC65S	50	700	100	50	N	<20	70	30	N	30	N	200	300	N	30	N	700
LCC66S	70	300	70	50	N	<20	70	20	N	30	N	200	300	N	20	N	200
LCC67S	20	30	10	50	N	<20	20	50	N	20	N	300	200	N	20	N	100
LCC68S	50	200	100	50	N	<20	50	30	N	20	N	200	300	N	20	N	150
LCC69S	50	150	50	50	N	<20	50	15	N	20	N	200	300	N	20	N	100
LCC70S	50	150	30	50	N	<20	50	30	N	30	N	200	200	N	30	<200	150
LCC71S	50	100	20	50	N	<20	50	20	N	20	N	200	200	N	20	N	100
LCC72S	50	100	20	50	N	<20	50	50	N	20	N	200	200	N	20	<200	100
LCC73S	30	100	20	50	N	<20	30	20	N	20	N	200	200	N	20	<200	150
LCC74S	50	200	20	50	N	<20	50	30	N	20	N	300	200	N	30	N	100
LCC75S	30	200	30	50	N	<20	50	20	N	20	N	200	200	N	20	N	200
LCC76S	50	200	50	50	N	<20	50	30	N	30	N	300	200	N	20	N	200
LCC77S	20	70	20	50	N	<20	30	<10	N	20	N	200	200	N	20	N	150
LCC78S	50	150	30	50	N	<20	50	20	N	30	N	300	200	N	20	N	150
LCC79S	30	200	20	50	N	<20	50	20	N	20	N	200	200	N	20	N	150
LCC80S	30	150	20	50	N	<20	50	10	N	20	N	200	200	N	30	N	100
LCC81S	50	150	50	50	N	<20	50	30	N	20	N	500	200	N	30	N	100
LCC82S	20	100	30	50	N	<20	30	20	N	20	N	300	200	N	30	N	100
LCC83S	50	150	50	50	N	<20	70	20	N	30	N	300	200	N	30	N	100
LCC84S	30	100	20	50	N	<20	50	20	N	20	N	300	200	N	20	<200	150
LCC85S	30	150	30	50	N	<20	50	20	N	20	N	300	200	N	20	N	70
LCC86S	50	300	30	70	N	<20	70	15	N	30	50	500	300	N	50	N	700
LCC87S	30	50	15	50	N	<20	50	10	N	20	N	300	200	N	20	<200	100
LCC88S	50	150	70	50	N	<20	70	30	N	30	N	200	300	N	20	<200	100
LCC89S	70	300	50	70	N	<20	70	30	N	30	N	1,000	300	N	50	N	700
LCC90S	50	100	50	50	N	<20	70	50	N	20	20	500	200	N	30	N	200

Lake Clark stream sediments--continued

sample	AA-AU	INST-HG	AA-CU	AA-PB	AA-ZN	AS
LC046S	<.05	.10	15	35	90	30
LC047S	N	.04	20	20	75	20
LC048S	N	.32	15	20	70	10
LC049S	N	.10	10	20	80	10
LC050S	N	.72	50	40	110	120
LC051S	N	.14	30	20	90	10
LC052S	N	.04	25	15	65	N
LC053S	N	.04	30	10	70	10
LC054S	N	.02	10	10	95	40
LC055S	N	.02	25	35	200	10
LC056S	N	.06	25	30	140	20
LC057S	N	.02	15	20	90	N
LC058S	N	.02	35	35	95	60
LC059S	N	.04	30	50	260	--
LC060S	N	.02	20	30	90	10
LC061S	N	.04	25	15	100	N
LC062S	N	.12	20	35	100	60
LC063S	N	.08	15	20	70	20
LC064S	N	.06	15	20	70	10
LC065S	N	.18	35	20	70	60
LC066S	.05	.08	30	20	70	40
LC067S	N	.12	10	20	70	20
LC068S	N	.02	35	20	70	N
LC069S	N	.06	40	20	90	40
LC070S	N	.04	30	15	90	10
LC071S	N	.04	20	15	70	10
LC072S	N	.02	25	50	15	30
LC073S	N	.02	15	15	80	10
LC074S	N	.04	10	15	65	10
LC075S	N	.02	20	15	80	N
LC076S	N	.04	20	15	80	N
LC077S	N	.06	35	15	80	N
LC078S	N	.04	25	15	110	N
LC079S	N	.06	15	15	75	10
LC080S	N	.04	35	15	100	10
LC081S	N	.04	35	15	70	30
LC082S	N	.02	35	15	75	N
LC083S	N	.08	15	15	95	30
LC084S	N	.06	15	10	140	10
LC085S	.30	.06	30	15	75	10
LC086S	.30	.04	20	10	70	10
LC087S	N	.04	30	15	140	20
LC088S	N	.04	50	20	130	20
LC089S	N	.06	30	10	70	10
LC090S	N	.06	35	15	140	30

Lake Clark stream sediments--continued

sample	LATITUDE	LONGITUD	S-FEX	S-MGX	S-CAZ	S-TIZ	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
LC091S	60 32 16	155 5 25	10.0	1.5	1.0	.70	1,500	N	N	N	50	700	1.0	N	N
LC092S	60 30 51	155 7 49	10.0	1.5	1.5	.70	1,500	N	N	N	50	700	1.0	N	N
LC093S	60 29 44	155 4 20	5.0	1.0	1.0	.50	1,000	N	N	N	20	700	1.0	N	N
LC094S	60 27 44	155 5 21	5.0	1.5	1.0	.70	700	N	N	N	50	700	1.0	N	N
LC095S	60 26 45	155 9 8	5.0	.7	.7	.50	700	N	N	N	50	700	1.0	N	N
LC096S	60 25 46	155 7 2	3.0	.7	.7	.50	700	N	N	N	30	500	<1.0	N	N
LC097S	60 24 1	155 7 4	3.0	.7	.7	.70	500	N	N	N	20	500	<1.0	N	N
LC098S	60 26 47	154 52 4	3.0	1.0	.7	.50	700	N	N	N	20	1,500	1.0	N	N
LC099S	60 27 15	154 52 36	3.0	1.0	.7	.50	700	N	N	N	20	1,000	<1.0	N	N
LC100S	60 26 26	154 55 13	5.0	1.5	1.0	.70	700	N	N	N	30	1,000	<1.0	N	N
LC101S	60 25 27	154 56 56	7.0	1.0	1.0	.70	1,000	N	N	N	30	700	1.5	N	N
LC102S	60 26 18	154 58 50	5.0	1.0	.7	.50	500	N	N	N	30	500	1.0	N	N
LC103S	60 24 12	155 1 35	5.0	.7	.7	.50	500	N	N	N	30	500	1.0	N	N
LC104S	60 24 42	155 3 15	3.0	.7	.7	.70	500	N	N	N	30	700	7.0	N	N
LC105S	60 26 11	155 3 3	7.0	1.5	1.0	.70	500	N	N	N	30	500	<1.0	N	N
LC106S	60 27 44	154 59 48	5.0	1.5	.7	.70	500	N	N	N	30	500	1.0	N	N
LC107S	60 29 14	154 58 36	5.0	1.5	1.5	.70	700	N	N	N	10	700	1.5	N	N
LC108S	60 28 36	154 52 35	5.0	1.5	1.5	.50	500	N	N	N	20	500	1.0	N	N
LC109S	60 32 52	154 54 19	7.0	1.5	1.5	.70	700	N	N	N	30	700	1.0	N	N
LC110S	60 33 20	155 2 0	5.0	1.5	1.0	.50	700	N	N	N	50	700	1.0	N	N
LC111S	60 29 35	155 8 52	10.0	2.0	2.0	.50	1,000	N	N	N	15	500	1.0	N	N
LC112S	60 27 28	155 6 38	10.0	1.5	1.5	.50	1,000	N	N	N	30	1,000	1.0	N	N
LC113S	60 27 47	155 9 21	10.0	1.5	1.5	.50	700	N	N	N	30	700	1.0	N	N
LC114S	60 24 26	155 8 48	5.0	.7	1.0	.50	700	N	N	N	20	700	1.0	N	N
LC115S	60 24 43	154 51 12	10.0	1.5	1.0	.70	700	1.5	N	N	30	700	<1.0	N	N
LC116S	60 23 34	154 54 7	5.0	1.5	1.0	.50	500	N	N	N	100	700	<1.0	N	N
LC117S	60 23 7	154 54 33	5.0	1.5	1.0	.50	700	N	N	N	50	700	1.0	N	N
LC118S	60 22 50	154 57 53	5.0	1.5	1.0	.70	700	N	N	N	50	700	1.0	N	N
LC119S	60 22 22	155 1 2	5.0	1.0	1.0	.70	500	N	N	N	20	500	<1.0	N	N
LC120S	60 22 6	155 3 59	10.0	1.5	1.0	.50	500	N	N	N	30	700	<1.0	N	N
LC121S	60 21 7	155 7 45	10.0	1.5	1.0	.50	1,000	N	N	N	30	500	<1.0	N	N
LC122S	60 20 23	155 11 2	10.0	1.5	1.0	.70	1,000	N	N	N	50	700	1.0	N	N
LC123S	60 21 52	155 14 0	5.0	.7	.7	.70	500	N	N	N	20	500	1.0	N	N
LC124S	60 23 44	155 11 18	7.0	1.0	1.5	1.00	700	N	N	N	50	1,000	1.0	N	N
LC125S	60 16 46	154 36 51	5.0	1.0	1.5	.70	1,000	N	N	N	20	700	1.0	N	N
LC126S	60 16 37	154 39 42	10.0	1.5	1.0	.70	700	N	N	N	20	1,000	1.0	N	N
LC127S	60 16 0	154 40 2	3.0	1.0	1.0	.70	500	N	500	N	.30	500	1.5	N	N
LC128S	60 18 51	154 44 25	10.0	2.0	2.0	.70	700	N	N	N	20	500	<1.0	N	N
LC129S	60 18 47	154 42 5	10.0	1.5	2.0	.70	700	N	N	N	10	700	<1.0	N	N
LC130S	60 20 16	154 47 39	10.0	1.5	1.5	.70	700	N	N	N	50	500	1.0	N	N
LC131S	60 19 14	154 46 29	10.0	2.0	2.0	.70	1,000	N	N	N	50	500	<1.0	N	N
LC132S	60 21 34	154 45 55	10.0	1.5	2.0	.70	700	N	N	N	30	500	1.0	N	N
LC133S	60 21 56	154 43 59	5.0	1.5	2.0	.70	1,000	N	N	N	50	500	1.0	N	N
LC134S	60 23 39	154 49 50	10.0	1.5	1.5	.70	1,000	N	N	N	100	1,000	<1.0	N	N
LC135S	60 25 45	154 49 29	10.0	1.5	1.5	.70	700	N	N	N	50	700	<1.0	N	N

Lake Clark stream sediments--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
LC091S	50	150	50	50	N	<20	150	30	N	20	N	200	200	N	30	<200	150
LC092S	50	150	20	50	N	<20	50	30	N	30	N	500	300	N	50	N	200
LC093S	30	100	15	50	N	<20	50	20	N	20	N	700	200	N	30	N	300
LC094S	50	200	15	50	N	<20	50	20	N	30	N	500	200	N	30	N	500
LC095S	30	100	20	50	N	<20	50	20	N	20	N	300	200	N	30	N	100
LC096S	30	70	20	50	N	<20	30	15	N	20	N	300	200	N	30	N	100
LC097S	30	100	20	50	N	<20	30	15	N	20	N	200	200	N	30	N	500
LC098S	30	300	30	50	N	<20	50	15	N	20	N	200	200	N	30	N	100
LC099S	50	100	30	50	N	<20	50	15	N	20	N	200	200	N	30	N	100
LC100S	50	300	50	50	N	<20	50	20	N	20	N	200	200	N	20	N	100
LC101S	50	100	30	50	N	<20	50	30	N	30	N	200	200	N	20	N	100
LC102S	30	100	30	50	N	<20	50	20	N	30	N	200	200	N	30	N	100
LC103S	20	100	20	50	N	<20	50	10	N	20	N	200	200	N	20	N	100
LC104S	20	100	20	50	N	<20	30	20	N	20	N	200	200	N	20	N	300
LC105S	50	200	20	50	N	<20	50	20	N	30	N	200	300	N	30	N	100
LC106S	50	150	30	50	N	<20	50	20	N	30	N	200	300	N	20	N	100
LC107S	50	100	50	50	N	<20	50	50	N	20	N	1,000	300	N	30	N	150
LC108S	50	100	30	50	N	<20	30	30	N	20	N	200	200	N	20	N	100
LC109S	50	300	30	50	N	<20	50	50	N	20	N	500	200	N	30	N	200
LC110S	50	150	30	50	N	<20	50	30	N	20	N	200	200	N	20	N	100
LC111S	70	150	50	50	N	<20	50	50	N	30	N	500	300	N	50	N	100
LC112S	50	200	30	50	N	<20	50	50	N	30	N	300	300	N	30	N	150
LC113S	50	100	30	50	N	<20	30	30	N	30	N	200	300	N	30	N	200
LC114S	20	20	5	50	N	<20	20	10	N	20	N	200	150	N	30	N	150
LC115S	50	200	70	50	N	<20	50	200	N	30	N	100	200	N	30	200	150
LC116S	30	150	30	50	N	<20	50	50	N	30	N	200	200	N	30	N	150
LC117S	30	200	10	50	N	<20	30	20	N	30	N	200	200	N	30	N	500
LC118S	20	200	20	50	N	<20	30	30	N	30	N	200	200	N	30	N	500
LC119S	20	70	10	50	N	<20	20	15	N	20	N	200	150	N	30	N	300
LC120S	30	300	20	50	N	<20	50	20	N	30	N	300	200	N	30	N	100
LC121S	50	300	20	50	N	<20	30	30	N	30	N	200	300	N	30	N	700
LC122S	50	150	20	50	N	<20	30	30	N	30	N	200	300	N	50	N	500
LC123S	20	70	10	50	N	<20	20	20	N	20	N	200	150	N	30	N	300
LC124S	50	200	50	50	N	<20	50	70	N	30	N	300	200	N	50	N	300
LC125S	30	100	7	50	N	<20	20	20	N	30	N	300	200	N	50	N	300
LC126S	50	300	20	70	N	<20	70	50	N	20	N	200	200	N	50	N	300
LC127S	20	150	10	50	N	<20	30	30	N	30	N	200	200	N	50	N	150
LC128S	70	300	50	50	N	<20	100	30	N	30	N	500	200	N	30	N	200
LC129S	50	100	15	50	N	<20	20	30	N	30	N	300	200	N	30	N	100
LC130S	50	200	50	50	N	<20	50	20	N	30	N	300	300	N	30	N	100
LC131S	70	500	50	50	N	<20	100	50	N	30	N	500	200	N	30	N	100
LC132S	50	200	30	50	N	<20	30	50	N	30	N	300	300	N	20	N	70
LC133S	50	200	20	50	N	<20	30	20	N	30	N	300	200	N	20	N	300
LC134S	50	300	30	70	N	<20	30	50	N	30	50	200	300	N	50	N	500
LC135S	70	300	50	50	N	<20	50	30	N	20	N	200	300	N	50	N	200

Lake Clark stream sediments--continued

sample	AA-AU	INST-HG	AA-CU	AA-PB	AA-ZN	AS
LC091S	N	.08	25	20	110	N
LC092S	N	.04	15	10	50	N
LC093S	N	.02	20	10	70	10
LC094S	N	.04	20	10	60	N
LC095S	N	.04	35	20	100	N
LC096S	N	.02	20	15	75	N
LC097S	N	.02	15	15	70	N
LC098S	N	.04	50	15	150	80
LC099S	N	.02	30	15	110	N
LC100S	N	.06	35	20	65	10
LC101S	N	.08	20	10	70	N
LC102S	N	.08	30	10	75	N
LC103S	N	.08	25	15	65	N
LC104S	N	.08	20	10	65	N
LC105S	N	.06	25	10	80	10
LC106S	N	.08	30	15	80	N
LC107S	N	.08	55	10	90	30
LC108S	N	.06	25	15	45	N
LC109S	N	.08	20	10	65	10
LC110S	N	.04	35	15	100	20
LC111S	N	.20	40	10	45	N
LC112S	N	.08	25	10	65	20
LC113S	N	.08	35	15	75	20
LC114S	N	.04	15	10	60	20
LC115S	N	.06	35	85	320	30
LC116S	.70	.06	30	20	160	40
LC117S	N	.06	15	10	90	10
LC118S	N	.08	15	10	60	N
LC119S	N	.08	10	10	60	20
LC120S	N	.06	10	10	60	10
LC121S	N	.08	20	15	60	40
LC122S	N	.06	20	15	65	10
LC123S	N	.08	20	15	60	N
LC124S	N	.06	25	10	65	10
LC125S	N	.04	10	10	60	10
LC126S	N	.03	15	20	100	20
LC127S	N	.06	20	25	140	200
LC128S	N	.04	55	15	60	120
LC129S	N	.06	15	15	40	30
LC130S	N	.35	55	15	70	100
LC131S	N	.16	65	15	75	120
LC132S	N	.04	30	15	75	60
LC133S	N	.06	20	10	55	30
LC134S	N	.06	25	25	150	20
LC135S	--	--	55	25	140	--

Lake Clark stream sediments--continued

sample	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
LC136S	60 16 20	154 43 27	10.0	1.5	1.0	.70	700	N	N	N	20	1,000	<1.0	N	N
LC137S	60 20 45	154 52 33	5.0	1.5	1.0	.50	1,000	N	N	N	30	700	1.0	N	N
LC138S	60 22 11	154 52 59	10.0	1.5	1.0	.70	1,000	N	N	N	70	700	<1.0	N	N
LC139S	60 19 23	154 59 9	5.0	1.5	1.5	.50	700	N	N	N	20	500	<1.0	N	N
LC140S	60 18 29	155 2 59	7.0	1.5	1.0	.70	1,000	N	N	N	50	500	<1.0	N	N
LC141S	60 17 17	155 2 30	5.0	1.0	1.0	.50	700	N	N	N	20	700	<1.0	N	N
LC142S	60 14 32	154 58 49	10.0	1.0	1.0	.50	700	N	N	N	20	700	<1.0	N	N
LC143S	60 15 23	155 7 54	10.0	1.5	1.0	.70	1,000	N	N	N	30	700	<1.0	N	N
LC144S	60 15 21	155 6 48	10.0	1.5	1.5	.50	1,000	N	N	N	20	300	<1.0	N	N
LC145S	60 13 27	155 11 15	10.0	1.5	1.5	.70	1,000	N	N	N	20	700	<1.0	N	N
LC146S	60 18 32	154 54 19	10.0	1.5	1.0	.70	1,000	N	N	N	30	500	<1.0	N	N
LC147S	60 17 31	154 55 36	2.0	.3	.5	.50	500	N	N	N	20	500	1.0	N	N
LC148S	60 17 57	154 51 33	5.0	1.5	1.0	.70	700	N	N	N	50	700	1.0	N	N
LC149S	60 18 10	154 51 48	5.0	1.5	1.0	.70	700	N	N	N	20	700	1.0	N	N
LC150S	60 17 25	154 51 42	7.0	1.5	1.0	.70	700	N	N	N	30	700	1.0	N	N
LC151S	60 24 47	154 52 36	10.0	1.5	1.0	.70	700	N	N	N	50	700	1.0	N	N
LC152S	60 24 33	154 53 26	10.0	1.5	1.0	.70	1,000	N	N	N	30	700	1.0	N	N
LC153S	60 23 35	154 55 35	10.0	1.5	1.0	.70	1,000	N	300	N	50	700	1.0	N	N
LC154S	60 20 59	155 8 40	5.0	1.0	1.0	.70	700	N	N	N	30	700	1.0	N	N
LC155S	60 20 12	155 12 25	10.0	1.5	1.0	.70	1,000	N	N	N	50	1,000	1.0	N	N
LC156S	60 22 44	155 14 35	5.0	1.0	1.0	.50	700	N	N	N	30	1,000	1.0	N	N
LC157S	60 24 16	155 12 57	5.0	1.5	1.0	.50	500	N	N	N	50	1,000	1.0	N	N
LC158S	60 20 3	154 48 15	10.0	1.5	1.0	.50	1,000	N	N	N	30	500	1.0	N	N
LC159S	60 25 50	154 50 2	7.0	1.5	1.0	.50	700	N	N	N	30	700	1.0	N	N
LC160S	60 20 35	154 52 30	7.0	1.0	.7	.50	700	N	N	N	30	500	1.0	N	N
LC161S	60 19 55	154 55 35	7.0	1.5	1.5	.70	1,000	N	N	N	20	700	1.0	N	N
LC162S	60 13 0	155 10 53	10.0	1.5	1.5	.70	1,000	N	N	N	20	1,000	1.0	N	N
LC163S	60 17 39	154 56 21	15.0	1.5	2.0	.70	1,000	N	N	N	10	500	1.0	N	N
LC164S	60 16 50	154 52 27	10.0	1.5	1.0	.70	1,000	N	N	N	50	700	1.0	N	N
LC165S	60 16 14	154 53 0	10.0	1.5	1.0	.70	1,000	N	N	N	30	700	1.0	N	N
LC166S	60 12 56	155 1 28	10.0	1.5	1.0	.50	1,000	N	N	N	20	500	1.0	N	N
LC167S	60 14 27	154 55 51	10.0	1.5	1.0	.70	1,000	N	N	N	50	700	1.0	N	N
LC168S	60 13 16	155 0 0	10.0	1.5	1.0	.70	1,000	N	N	N	30	700	1.0	N	N
LC169S	60 15 14	154 58 18	10.0	1.5	1.0	.50	700	N	N	N	30	700	1.0	N	N
LC170S	60 16 0	154 57 43	5.0	1.0	1.0	.70	500	N	N	N	20	700	1.0	N	N
LC171S	60 15 35	154 52 54	10.0	1.5	1.0	1.00	700	N	N	N	30	700	1.0	N	N
LC172S	60 15 17	154 52 23	5.0	1.0	1.0	.70	700	N	N	N	20	700	1.0	N	N
LC173S	60 48 42	154 29 45	3.0	.5	1.0	.50	300	N	N	N	70	300	1.0	N	N
LC174S	60 46 46	154 27 17	5.0	1.0	1.5	.70	500	N	N	N	100	700	1.0	N	N
LC175S	60 46 27	154 27 16	3.0	1.5	1.5	.50	500	N	N	N	200	500	1.0	N	N
LC176S	60 45 47	154 27 51	3.0	1.5	1.5	.50	500	N	N	N	100	500	1.0	N	N
LC177S	60 45 57	154 30 42	3.0	1.0	1.0	.50	500	N	500	N	50	500	1.0	N	N
LC178S	60 44 4	154 31 41	2.0	1.5	1.5	.50	300	N	N	N	30	500	1.0	N	N
LC179S	60 43 33	154 32 26	3.0	1.5	2.0	.50	500	N	N	N	150	500	1.0	N	N
LC180S	60 43 0	154 32 57	3.0	1.5	1.0	.50	500	N	700	N	200	700	1.0	N	N

Lake Clark stream sediments--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
LC136S	50	200	15	50	N	<20	50	50	N	20	N	200	200	N	30	N	150
LC137S	70	200	30	50	N	<20	70	30	N	30	N	300	200	N	30	N	150
LC138S	50	500	30	200	N	<20	50	30	N	20	200	200	200	N	50	N	500
LC139S	50	100	50	50	N	<20	50	10	N	30	N	500	200	N	30	N	100
LC140S	50	200	20	50	N	<20	50	20	N	20	N	300	300	N	30	N	100
LC141S	50	200	30	50	N	<20	50	15	N	20	N	300	300	N	30	N	100
LC142S	50	300	30	50	N	<20	50	30	N	20	N	300	300	N	30	N	100
LC143S	50	500	30	50	N	<20	50	30	N	20	N	300	500	N	30	N	200
LC144S	50	1,000	50	50	N	<20	50	20	N	30	N	200	200	N	30	N	100
LC145S	50	200	50	50	N	<20	50	30	N	30	N	300	300	N	30	N	500
LC146S	50	300	30	70	N	<20	50	20	N	30	N	300	300	N	30	N	300
LC147S	<5	100	10	50	N	<20	10	N	N	15	N	200	200	N	20	N	70
LC148S	50	150	30	100	N	<20	50	30	N	20	N	200	200	N	30	N	200
LC149S	50	200	20	50	N	<20	50	30	N	20	N	200	200	N	20	N	70
LC150S	50	200	50	50	N	<20	50	20	N	20	N	200	300	N	20	N	100
LC151S	50	200	50	50	N	<20	70	50	N	20	N	200	300	N	30	N	100
LC152S	50	200	100	50	N	<20	70	50	N	30	N	200	300	N	50	N	100
LC153S	50	200	70	50	N	<20	50	100	N	30	500	200	300	N	30	500	500
LC154S	30	150	30	50	N	<20	30	30	N	20	N	200	200	N	50	N	300
LC155S	50	300	50	50	N	<20	50	30	N	30	N	200	300	N	50	N	300
LC156S	20	100	30	50	N	<20	30	50	N	20	N	300	200	N	30	N	100
LC157S	20	300	20	50	N	<20	30	50	N	20	N	200	200	N	30	N	100
LC158S	50	300	50	50	N	<20	70	50	N	20	N	300	300	N	30	N	100
LC159S	50	200	50	50	N	<20	50	30	N	30	N	200	300	N	30	N	100
LC160S	50	150	20	50	N	<20	50	20	N	20	N	200	300	N	30	N	70
LC161S	50	200	50	50	N	<20	50	20	N	20	N	500	300	N	30	N	70
LC162S	50	200	30	50	N	<20	50	20	N	30	N	300	300	N	30	N	100
LC163S	70	300	70	50	N	<20	70	10	N	50	N	500	700	N	30	N	70
LC164S	50	200	30	50	N	<20	50	30	N	30	N	200	500	N	30	N	300
LC165S	50	300	30	50	N	<20	50	30	N	30	N	200	200	N	30	N	100
LC166S	50	150	100	50	N	<20	50	20	N	30	N	300	700	N	30	N	100
LC167S	50	300	70	50	N	<20	50	30	N	30	N	200	300	N	30	N	300
LC168S	50	500	150	50	N	<20	70	30	N	30	N	300	300	N	30	N	100
LC169S	50	200	10	50	N	<20	50	20	N	20	N	300	200	N	30	N	150
LC170S	20	300	20	50	N	<20	50	20	N	20	N	200	200	N	50	N	150
LC171S	50	150	30	50	N	<20	50	30	N	20	N	200	200	N	50	N	150
LC172S	20	150	20	50	N	<20	30	20	N	20	N	200	200	N	30	N	200
LC173S	30	70	15	50	N	<20	30	<10	N	20	N	200	200	N	20	N	70
LC174S	50	150	20	70	N	<20	30	20	N	20	50	300	200	N	30	<200	500
LC175S	20	70	30	50	N	<20	30	10	N	20	20	300	200	N	20	<200	100
LC176S	50	100	20	50	N	<20	20	20	N	20	N	300	200	N	20	<200	100
LC177S	50	100	30	50	N	<20	50	15	N	20	N	200	200	N	20	<200	100
LC178S	20	100	15	50	N	<20	30	20	N	20	N	300	150	N	20	<200	70
LC179S	50	100	30	50	N	<20	30	30	N	20	N	300	300	N	20	<200	70
LC180S	50	100	70	50	N	<20	30	50	N	20	N	200	200	N	20	<200	70



Lake Clark stream sediments--continued

sample	AA-AU	INST-HG	AA-CU	AA-PB	AA-ZN	AS
LC136S	N	.08	15	20	75	20
LC137S	N	.24	35	15	75	10
LC138S	.15	.06	20	15	80	10
LC139S	N	.12	30	10	55	10
LC140S	2.00	.06	15	10	55	10
LC141S	N	.16	20	10	55	10
LC142S	N	.12	15	10	60	N
LC143S	<.05	.30	25	10	50	10
LC144S	N	.06	20	10	60	10
LC145S	N	.12	30	10	50	10
LC146S	N	.24	25	10	60	10
LC147S	--	.12	20	10	60	10
LC148S	N	.06	25	15	75	40
LC149S	--	.08	20	10	55	20
LC150S	N	.16	25	15	65	30
LC151S	N	.04	30	25	100	20
LC152S	N	.04	30	20	90	30
LC153S	N	.08	40	100	340	160
LC154S	N	.16	15	15	60	N
LC155S	N	.06	20	15	65	10
LC156S	N	.08	10	10	50	N
LC157S	N	.06	15	10	45	10
LC158S	N	.24	35	25	80	40
LC159S	N	.04	35	20	85	30
LC160S	N	.28	20	10	70	N
LC161S	N	.18	45	10	55	N
LC162S	N	.12	20	10	55	20
LC163S	N	.94	35	5	40	10
LC164S	N	.12	15	10	65	20
LC165S	N	.06	20	15	100	80
LC166S	N	.26	75	15	90	30
LC167S	N	.20	40	15	65	40
LC168S	N	.13	70	15	75	20
LC169S	N	.08	5	10	70	10
LC170S	N	.02	10	10	50	10
LC171S	N	.10	20	10	80	10
LC172S	N	.08	10	10	55	20
LC173S	N	.06	35	15	75	30
LC174S	N	.04	25	15	70	60
LC175S	N	.04	65	20	160	60
LC176S	N	.04	25	20	120	30
LC177S	N	.06	55	20	170	140
LC178S	N	.06	20	25	70	N
LC179S	N	.06	45	40	80	80
LC180S	.50	.04	120	70	130	200

Lake Clark stream sediments--continued

sample	LATITUDE	LONGITUD	S-FEZ	S-MGZ	S-CAZ	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
LC181S	60 42 33	154 33 55	5.0	1.5	1.0	.50	1,000	N	N	N	50	500	1.0	N	N
LC182S	60 42 29	154 41 48	3.0	1.5	1.0	.50	1,500	N	N	N	30	700	1.0	N	N
LC183S	60 41 22	154 29 17	5.0	1.5	2.0	.50	1,000	N	N	N	30	500	1.0	N	N
LC185S	60 38 47	154 27 59	3.0	1.5	2.0	.50	500	N	N	N	30	700	1.0	N	N
LC186S	60 38 12	154 30 5	3.0	1.5	1.5	.50	1,000	N	N	N	30	700	1.0	N	N
LC187S	60 37 27	154 37 59	3.0	1.5	1.5	.50	500	N	N	N	20	700	1.0	N	N
LC188S	60 42 56	154 19 59	3.0	1.5	1.5	.50	500	N	N	N	20	700	1.0	N	N
LC189S	60 43 14	154 35 58	3.0	1.5	1.5	.50	700	N	N	N	50	700	1.0	N	N
LC190S	60 44 16	154 21 39	5.0	1.5	2.0	.70	1,000	N	N	N	30	500	1.0	N	N
LC191S	60 47 30	154 15 47	3.0	1.5	1.5	.50	500	N	N	N	15	700	1.0	N	N
LC192S	60 46 49	154 13 14	3.0	1.5	1.5	.50	500	N	N	N	15	700	1.0	N	N
LC193S	60 45 29	154 5 7	3.0	1.5	1.5	.50	500	N	N	N	20	700	1.0	N	N
LC194S	60 50 16	154 8 4	2.0	1.0	1.0	.50	500	N	N	N	15	700	1.0	N	N
LC195S	60 50 30	154 7 20	3.0	1.0	1.0	.50	500	N	N	N	15	700	1.0	N	N
LC196S	60 51 11	154 9 53	3.0	1.5	1.0	.50	500	N	N	N	15	500	1.0	N	N
LC197S	60 51 15	154 5 40	3.0	1.5	2.0	.70	500	N	N	N	15	500	1.0	N	N
LC198S	60 51 51	154 4 40	5.0	2.0	2.0	1.00	700	N	N	N	15	700	1.0	N	N
LC199S	60 52 46	154 2 12	3.0	1.5	2.0	.70	700	N	N	N	15	700	1.0	N	N
LC200S	60 42 52	154 36 6	5.0	1.5	2.0	.70	700	N	N	N	200	700	1.0	N	N
LC201S	60 42 2	154 39 17	3.0	1.0	1.5	.70	700	N	N	N	50	700	1.0	N	N
LC202S	60 41 45	154 41 30	5.0	1.5	2.0	.70	700	N	N	N	50	700	1.0	N	N
LC203S	60 49 41	154 20 4	3.0	1.0	1.5	.70	500	N	N	N	50	500	1.0	N	N
LC204S	60 48 43	154 19 32	3.0	1.5	2.0	.70	700	N	N	N	30	700	1.0	N	N
LC205S	60 39 59	154 16 55	3.0	1.5	2.0	.50	700	N	N	N	10	700	1.0	N	N
LC206S	60 39 47	154 15 8	3.0	1.5	2.0	.50	2,000	N	N	N	10	700	1.0	N	N
LC207S	60 40 32	154 11 36	3.0	1.5	2.0	.50	700	N	N	N	10	500	1.0	N	N
LC208S	60 40 18	154 10 56	2.0	1.5	2.0	.50	1,000	N	N	N	10	500	1.0	N	N
LC209S	60 43 56	154 22 54	3.0	1.5	2.0	.50	1,000	N	N	N	30	700	1.0	N	N
LC210S	60 42 43	154 37 27	5.0	1.5	2.0	.70	700	N	N	N	50	700	1.0	N	N
LC211S	60 42 24	154 36 28	3.0	1.0	1.5	.50	1,500	N	N	N	50	1,000	1.0	N	N
LC212S	60 45 20	154 28 9	10.0	2.0	2.0	1.00	1,500	N	N	N	50	500	1.0	N	N
LC213S	60 1 24	155 30 53	3.0	1.0	1.0	.70	1,000	N	N	N	20	1,000	1.0	N	N
LC214S	60 1 2	155 38 7	5.0	1.0	1.0	.70	500	N	N	N	20	1,000	1.0	N	N
LC215S	60 0 43	155 41 35	5.0	1.5	1.5	.70	500	N	N	N	20	1,500	1.0	N	N
LC216S	60 0 56	155 52 31	5.0	1.0	1.0	.50	2,000	N	N	N	30	1,000	1.0	N	N
LC217S	60 0 23	155 57 20	5.0	1.0	1.0	.70	500	N	N	N	20	1,000	1.0	N	N
LC218S	60 5 8	155 36 50	2.0	1.0	1.0	.50	300	N	N	N	20	1,000	1.0	N	N
LC219S	60 5 8	155 30 37	2.0	1.0	1.0	.50	500	N	N	N	30	1,500	1.0	N	N
LC220S	60 5 30	155 30 8	2.0	1.0	1.0	.50	300	N	N	N	20	1,500	1.0	N	N
LC221S	60 58 42	155 16 27	2.0	1.0	1.0	.50	500	N	N	N	50	700	1.0	N	N
LC222S	60 56 57	155 13 13	7.0	1.5	1.0	.70	700	N	N	N	50	1,500	<1.0	N	N
LC223S	60 52 45	155 23 54	5.0	1.5	1.0	.70	700	N	N	N	50	1,500	1.0	N	N
LC224S	60 53 44	154 53 16	10.0	1.5	1.0	.70	1,000	N	N	N	100	1,500	<1.0	N	N
LC225S	60 34 6	155 30 42	5.0	1.0	1.0	.70	1,000	N	N	N	50	1,000	1.0	N	N
LC226S	60 31 50	155 33 34	3.0	1.0	1.0	.50	700	N	N	N	30	1,000	1.0	N	N

Lake Clark stream sediments--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
LC181S	70	150	50	50	N	<20	50	50	N	20	N	200	300	N	30	<200	70
LC182S	50	150	20	50	N	<20	30	20	N	20	N	200	200	N	20	<200	70
LC183S	70	70	30	50	N	<20	30	20	N	20	N	300	300	N	20	<200	70
LC185S	50	50	15	50	N	<20	20	15	N	20	N	300	200	N	20	<200	150
LC186S	30	50	15	50	N	<20	20	10	N	20	N	300	200	N	20	<200	70
LC187S	30	100	10	50	N	<20	20	10	N	20	N	300	200	N	20	<200	100
LC188S	30	100	10	50	N	<20	20	20	N	20	N	300	200	N	20	<200	150
LC189S	50	200	20	50	N	<20	50	20	N	20	N	300	200	N	20	<200	100
LC190S	70	150	30	50	N	<20	30	20	N	30	N	300	300	N	20	<200	100
LC191S	30	150	10	50	N	<20	20	10	N	20	N	300	150	N	20	<200	150
LC192S	50	200	20	50	N	<20	50	10	N	20	N	300	150	N	20	<200	150
LC193S	30	200	10	50	N	<20	30	10	N	20	N	300	150	N	20	<200	200
LC194S	20	100	10	50	N	<20	20	<10	N	15	N	300	150	N	20	<200	100
LC195S	30	200	15	50	N	<20	20	10	N	20	N	300	200	N	20	<200	100
LC196S	30	150	20	50	N	<20	20	<10	N	20	N	300	200	N	20	<200	200
LC197S	50	150	10	50	N	<20	20	10	N	20	N	300	200	N	100	N	500
LC198S	70	150	20	50	N	<20	20	20	N	30	N	300	200	N	50	N	300
LC199S	50	150	50	50	N	<20	30	10	N	20	N	300	200	N	20	N	150
LC200S	100	200	50	50	N	<20	70	50	N	30	N	300	200	N	30	N	100
LC201S	70	200	50	50	N	<20	50	30	N	20	N	300	200	N	30	N	100
LC202S	100	200	30	50	N	<20	50	30	N	50	N	300	200	N	30	N	150
LC203S	50	100	30	50	N	<20	30	20	N	20	N	300	200	N	20	N	100
LC204S	50	300	30	50	N	<20	50	30	N	30	N	300	200	N	30	N	200
LC205S	30	300	10	50	N	<20	20	20	N	20	N	500	200	N	20	N	100
LC206S	30	50	10	50	N	<20	20	20	N	20	N	300	150	N	20	N	100
LC207S	50	70	30	50	<5	<20	20	50	N	20	N	300	200	N	20	N	300
LC208S	50	70	10	50	N	<20	15	20	N	20	N	300	150	N	30	N	150
LC209S	70	200	20	50	N	<20	50	30	N	20	N	300	200	N	30	N	200
LC210S	100	200	50	50	N	<20	50	30	N	30	N	300	500	N	30	<200	100
LC211S	50	150	50	50	N	<20	50	20	N	20	N	300	200	N	20	<200	100
LC212S	100	300	50	50	N	<20	50	50	N	50	30	300	500	N	30	200	100
LC213S	50	150	30	50	N	<20	30	30	N	20	N	300	150	N	20	N	100
LC214S	30	150	20	50	N	<20	20	30	N	20	N	300	150	N	20	N	100
LC215S	50	300	20	50	N	<20	30	50	N	30	N	300	200	N	20	N	300
LC216S	30	200	10	50	N	<20	20	20	N	20	N	300	150	N	20	N	150
LC217S	50	300	20	50	N	<20	30	20	N	30	N	300	200	N	30	N	200
LC218S	20	100	7	50	N	<20	20	20	N	20	N	300	100	N	20	N	200
LC219S	20	500	20	50	N	<20	30	20	N	20	N	300	150	N	20	N	300
LC220S	20	200	7	50	N	<20	20	20	N	15	N	300	100	N	20	N	100
LC221S	20	200	20	50	N	<20	50	10	N	15	N	200	150	N	15	N	100
LC222S	50	300	50	50	N	<20	70	20	N	20	N	300	200	N	20	N	300
LC223S	50	300	20	50	N	<20	70	10	N	20	N	300	200	N	20	N	100
LC224S	70	300	70	50	N	<20	70	50	N	30	N	300	300	N	20	N	100
LC225S	20	200	5	50	N	<20	30	15	N	30	N	300	200	N	20	N	300
LC226S	30	100	10	50	N	<20	30	15	N	15	N	300	200	N	20	<200	100

Lake Clark stream sediments--continued

sample	AA-AU	INST-HG	AA-CU	AA-PB	AA-ZN	AS
LC181S	N	.08	65	30	160	20
LC182S	N	.08	35	20	110	20
LC183S	N	.06	30	20	120	20
LC185S	N	.10	20	15	70	10
LC186S	--	.08	30	20	130	20
LC187S	N	.04	15	15	75	10
LC188S	N	.08	20	15	70	10
LC189S	N	.04	35	25	120	40
LC190S	N	.02	30	20	100	60
LC191S	N	.04	15	15	65	N
LC192S	N	.02	30	20	80	10
LC193S	N	.06	15	15	50	10
LC194S	N	.04	20	15	55	N
LC195S	--	.04	20	15	55	10
LC196S	N	.02	15	15	50	N
LC197S	11.00	.02	15	15	60	N
LC198S	--	.02	15	15	60	N
LC199S	--	N	20	15	75	10
LC200S	N	.04	45	30	100	60
LC201S	N	.14	40	25	130	10
LC202S	N	.04	20	15	75	10
LC203S	N	.06	40	20	70	20
LC204S	N	.02	25	20	100	40
LC205S	N	.06	10	10	60	N
LC206S	N	.06	15	15	70	10
LC207S	N	.18	20	20	90	10
LC208S	N	.06	10	15	90	60
LC209S	N	.04	20	15	70	80
LC210S	.54	.02	35	20	90	10
LC211S	N	.10	45	35	120	10
LC212S	N	.04	30	40	140	N
LC213S	N	.08	30	15	70	20
LC214S	N	.04	10	10	65	N
LC215S	N	.06	10	10	40	10
LC216S	N	.04	10	10	55	40
LC217S	.10	.08	15	15	55	N
LC218S	N	.06	5	10	40	N
LC219S	N	.10	15	10	50	10
LC220S	N	.16	5	10	30	20
LC221S	N	.50	15	10	70	N
LC222S	N	.14	15	10	65	10
LC223S	N	.04	15	10	75	N
LC224S	N	.25	10	15	95	10
LC225S	N	.10	10	10	45	20
LC226S	N	.06	10	10	60	20

Lake Clark stream sediments--continued

sample	LATITUDE	LONGITUD	S-FEZ	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
LC2275	60 30 56	155 37 46	2.0	1.0	1.0	.50	500	N	N	N	50	700	1.0	N	N
LC2285	60 33 59	155 45 43	5.0	1.5	.5	.50	1,000	N	N	N	100	1,000	1.0	N	N
LC2295	60 36 57	155 45 0	3.0	1.0	.7	.50	1,000	N	N	N	50	1,000	<1.0	N	N
LC2305	60 38 21	155 42 10	3.0	1.0	.7	.50	500	N	N	N	70	1,000	1.0	N	N
LC2315	60 41 3	155 46 46	3.0	1.0	1.0	.50	300	N	N	N	50	1,000	1.0	N	N
LC2325	60 39 17	155 50 52	5.0	1.0	1.0	.50	1,000	N	N	N	70	1,000	1.0	N	N
LC2335	60 36 39	155 53 44	3.0	1.0	.7	.50	700	N	N	N	70	1,000	1.0	N	N
LC2345	60 36 11	155 52 32	3.0	1.0	.7	.50	1,000	N	N	N	100	1,000	1.0	N	N
LC2355	60 35 17	155 55 54	5.0	1.0	.7	.50	1,000	N	N	N	100	1,000	1.0	N	N
LC2365	60 33 19	155 56 11	3.0	.5	.5	.50	500	N	N	N	50	700	1.0	N	N
LC2375	60 32 57	155 53 52	3.0	.5	.7	.50	300	N	N	N	50	700	1.0	N	N
LC2385	60 31 20	155 58 8	1.0	.2	.5	.30	300	N	N	N	50	500	1.0	N	N
LC2405	60 9 35	155 10 2	5.0	.7	1.0	.50	300	N	N	N	20	700	1.0	N	N
LC2415	60 8 47	155 4 27	7.0	1.0	2.0	.50	500	N	N	N	15	500	1.0	N	N
LC2425	60 9 53	155 1 45	2.0	1.0	2.0	.70	500	N	N	N	15	500	1.0	N	N
LC2435	60 10 50	155 14 12	2.0	.7	1.0	.50	300	N	N	N	15	500	1.0	N	N
LC2445	60 11 31	155 18 2	3.0	.7	1.0	.70	300	N	N	N	15	500	1.0	N	N
LC2455	60 2 41	155 10 55	3.0	.7	1.0	1.00	500	N	N	N	20	500	1.0	N	N
LC2465	60 3 17	155 6 56	3.0	.7	1.0	.70	300	N	N	N	50	500	1.0	N	N
LC2475	60 4 35	155 55 54	3.0	.7	1.5	.70	300	N	N	N	20	500	1.0	N	N
LC2485	60 6 47	155 29 3	3.0	.7	1.0	.70	500	N	N	N	15	500	1.0	N	N
LC2495	60 7 47	155 35 48	1.0	.5	1.0	.50	300	N	N	N	20	700	1.0	N	N
LC2505	60 11 26	155 46 55	2.0	.5	1.5	.50	1,000	N	N	N	20	500	1.0	N	N
LC2515	60 9 47	155 58 58	2.0	.5	1.0	.50	700	N	N	N	20	500	1.0	N	N
LC2525	60 12 38	155 58 45	2.0	.5	1.0	.50	500	N	N	N	20	700	1.0	N	N
LC2535	60 15 2	155 58 5	2.0	.5	.7	.50	300	N	N	N	30	500	1.0	N	N
LC2545	60 17 52	155 58 24	3.0	.7	1.0	.70	500	N	N	N	30	700	1.0	N	N
LC2555	60 18 57	155 55 18	2.0	.7	1.0	.50	500	N	N	N	30	500	1.0	N	N
LC2565	60 25 50	155 59 34	2.0	.7	1.0	.50	500	N	N	N	30	700	1.0	N	N
LC2575	60 27 29	155 58 26	2.0	.7	1.0	.70	500	2.0	N	N	100	700	1.0	N	N
LC2585	60 28 15	155 57 56	2.0	.5	.7	.50	500	2.0	N	N	150	500	1.0	N	N
LC2595	60 20 21	155 57 56	3.0	.7	1.0	.50	500	N	N	N	50	500	1.0	N	N
LC2605	60 1 14	155 24 24	7.0	.7	1.0	.50	2,000	N	N	N	20	700	1.0	N	N
LC2615	60 1 54	155 15 33	7.0	1.0	1.5	.70	1,000	N	N	N	10	700	1.0	N	N
LC2625	60 1 18	154 49 59	20.0	1.5	1.0	>1.00	1,000	N	N	N	10	1,000	<1.0	N	N
LC2635	60 8 12	154 47 2	3.0	1.0	1.0	.50	500	N	N	N	10	1,000	1.0	N	N
LC2645	60 34 37	155 38 3	2.0	.7	.7	.50	300	N	N	N	50	700	1.0	N	N
LC2655	60 59 17	154 44 47	5.0	1.0	1.0	.70	700	N	N	N	30	700	1.0	N	N
LC2665	60 59 26	154 48 39	5.0	1.0	1.0	.50	500	N	N	N	30	700	1.0	N	N
LC2675	60 55 32	154 48 57	7.0	1.5	1.5	.70	1,000	N	N	N	30	700	1.0	N	N
LC2685	60 52 40	154 48 56	7.0	1.0	1.5	.50	1,000	N	N	N	30	700	1.0	N	N
LC2695	60 49 33	155 37 9	2.0	1.0	1.0	.70	300	N	N	N	30	700	1.0	N	N
LC2705	60 47 52	155 35 4	2.0	1.0	1.0	.70	300	N	N	N	30	700	1.0	N	N
LC2715	60 46 14	155 38 12	2.0	1.0	1.0	.70	500	N	N	N	30	700	1.0	N	N
LC2725	60 43 5	155 35 11	2.0	1.0	.7	.50	500	N	N	N	30	700	1.0	N	N

Lake Clark stream sediments--continued

sample	S-CC	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
LC227S	20	100	5	50	N	<20	20	15	N	15	N	300	150	N	20	N	200
LC228S	50	300	50	50	N	<20	100	20	N	30	N	200	300	N	20	<200	150
LC229S	50	200	20	50	N	<20	50	20	N	20	N	200	200	N	20	N	150
LC230S	20	150	10	50	N	<20	50	10	N	20	N	200	300	N	20	N	500
LC231S	20	150	10	50	N	<20	50	15	N	20	N	200	200	N	30	N	300
LC232S	50	300	20	50	N	<20	50	20	N	20	N	200	300	N	20	N	200
LC233S	50	200	50	50	N	<20	50	30	N	20	N	200	300	N	20	N	200
LC234S	50	500	15	500	N	<20	50	20	N	20	70	200	300	N	30	N	1,000
LC235S	70	200	30	100	N	<20	70	20	N	20	N	200	300	N	20	N	300
LC236S	30	150	20	100	N	<20	50	15	N	20	N	200	200	N	30	<200	100
LC237S	30	100	10	50	N	<20	30	15	N	15	N	200	150	N	20	<200	150
LC238S	10	50	7	50	N	<20	20	N	N	15	N	200	150	N	15	<200	100
LC240S	20	100	20	50	N	<20	30	15	N	15	N	300	150	N	20	<200	100
LC241S	30	200	20	50	N	<20	30	20	N	20	N	500	200	N	20	<200	100
LC242S	70	100	50	50	N	<20	50	10	N	30	N	500	300	N	30	N	150
LC243S	30	200	15	50	N	<20	20	10	N	15	N	300	150	N	20	N	150
LC244S	30	100	15	50	N	<20	20	10	N	15	N	300	200	N	20	200	100
LC245S	30	300	20	50	N	<20	20	50	N	20	N	500	300	N	20	500	200
LC246S	30	100	20	50	N	<20	20	20	N	20	N	500	200	N	20	<200	100
LC247S	30	200	7	50	N	<20	20	30	N	20	N	500	200	N	20	<200	100
LC248S	50	150	10	50	N	<20	30	10	N	20	N	300	200	N	20	<200	200
LC249S	15	150	15	50	N	<20	15	10	N	10	N	300	100	N	15	<200	100
LC250S	20	150	10	50	N	<20	20	<10	N	15	N	300	100	N	15	<200	70
LC251S	20	70	7	50	N	<20	20	<10	N	10	N	300	150	N	15	<200	70
LC252S	20	100	10	50	N	<20	20	10	N	15	N	300	150	N	15	N	200
LC253S	20	100	10	50	N	<20	20	10	N	15	N	300	150	N	15	N	200
LC254S	30	200	15	50	N	<20	30	10	N	20	N	300	150	N	20	N	200
LC255S	20	150	10	50	N	<20	30	10	N	15	N	300	150	N	15	N	100
LC256S	20	150	15	50	N	<20	30	20	N	15	N	300	150	N	20	N	100
LC257S	30	150	20	50	N	<20	50	20	N	20	N	300	200	N	20	<200	100
LC258S	20	100	70	100	N	<20	30	20	N	15	30	300	150	N	20	<200	150
LC259S	20	200	20	50	N	<20	30	10	N	20	N	300	150	N	20	N	150
LC260S	50	50	15	50	N	<20	20	30	N	20	N	500	200	N	30	N	200
LC261S	70	200	15	50	N	<20	50	20	N	30	N	500	200	N	30	N	200
LC262S	150	700	70	<20	N	<20	30	50	N	50	N	300	500	N	30	N	1,000
LC263S	30	150	5	50	N	<20	30	20	N	20	N	300	200	N	20	N	300
LC264S	20	100	30	50	N	<20	50	15	N	20	N	200	200	N	20	N	200
LC265S	50	200	50	50	N	<20	50	30	N	30	N	300	300	N	20	N	200
LC266S	50	200	50	50	N	<20	50	20	N	30	N	200	300	N	30	N	150
LC267S	70	200	20	50	N	<20	30	20	N	50	N	300	300	N	30	N	300
LC268S	50	200	20	50	N	<20	30	20	N	50	N	300	300	N	30	N	1,000
LC269S	20	150	10	50	N	<20	30	20	N	20	N	200	150	N	20	N	200
LC270S	20	150	10	70	N	N	30	10	N	20	N	200	150	N	20	N	300
LC271S	20	150	20	70	N	N	30	10	N	20	N	200	150	N	20	<200	300
LC272S	20	200	10	50	N	N	30	10	N	20	N	200	150	N	20	<200	150

Lake Clark stream sediments--continued

sample	AA-AU	INST-HG	AA-CU	AA-PB	AA-ZN	AS
LC227S	N	.04	10	10	45	10
LC228S	N	.10	30	15	120	20
LC229S	N	.10	20	10	95	N
LC230S	N	.06	15	10	80	N
LC231S	N	.04	10	10	45	10
LC232S	N	.06	10	10	65	10
LC233S	N	.06	20	15	70	10
LC234S	N	.08	15	15	75	10
LC235S	N	.06	25	20	100	20
LC236S	N	.04	25	15	85	20
LC237S	N	.06	15	10	70	10
LC238S	N	.12	20	15	85	10
LC240S	N	.04	25	20	60	20
LC241S	N	.10	40	25	70	20
LC242S	N	.10	65	15	55	20
LC243S	N	.08	20	15	60	20
LC244S	N	.04	35	40	160	N
LC245S	N	.10	20	50	260	20
LC246S	N	.08	20	15	60	N
LC247S	N	.06	5	25	65	10
LC248S	N	.04	20	15	70	30
LC249S	N	.04	5	10	35	N
LC250S	N	.08	10	15	75	40
LC251S	N	.02	5	10	45	30
LC252S	N	.04	10	15	40	40
LC253S	N	.04	5	15	35	10
LC254S	.20	.04	10	10	35	N
LC255S	N	.06	15	15	45	10
LC256S	N	.02	15	15	55	10
LC257S	.20	.02	25	25	140	20
LC258S	N	.04	100	50	180	40
LC259S	N	.06	40	15	75	N
LC260S	N	.10	15	15	55	10
LC261S	N	.14	15	20	90	N
LC262S	.50	.06	15	15	85	N
LC263S	N	.04	10	10	50	10
LC264S	N	.04	45	15	100	10
LC265S	N	.06	35	15	90	10
LC266S	N	.06	40	10	100	N
LC267S	N	.02	15	5	60	10
LC268S	N	.02	20	5	75	N
LC269S	N	.08	10	10	60	N
LC270S	<.05	.06	5	10	65	N
LC271S	.70	.06	15	15	85	10
LC272S	N	.10	10	10	80	N

Lake Clark stream sediments--continued

sample	LATITUDE	LONGITUD	S-FEZ	S-MGZ	S-CAZ	S-TIZ	S-MIN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
LC2735	60 43 36	155 28 9	2.0	1.0	1.0	.70	200	N	N	N	30	700	1.0	N	N
LC2745	60 44 18	155 22 23	2.0	1.0	1.0	.50	500	N	N	N	20	500	1.0	N	N
LC2755	60 17 27	153 57 42	10.0	1.5	2.0	1.00	700	N	N	N	10	500	1.0	N	N
LC2765	60 16 44	153 44 57	1.0	.3	1.0	.20	200	N	N	N	10	700	1.0	N	N
LC2775	60 16 13	153 49 9	2.0	.3	1.0	.20	700	N	N	N	10	500	1.5	N	N
LC2785	60 15 15	153 52 23	5.0	.7	1.0	.50	500	N	N	N	10	700	1.0	N	N
LC2795	60 15 41	153 34 1	7.0	1.5	1.0	.70	500	2.0	N	N	10	300	1.0	N	N
LC2805	60 16 9	153 55 42	3.0	.7	1.0	.70	500	N	N	N	10	500	1.0	N	N
LC2815	60 18 42	153 33 23	5.0	.5	1.5	.70	500	N	N	N	10	500	1.0	N	N
LC2825	60 19 6	153 34 54	3.0	1.0	1.5	.50	300	1.0	N	N	10	500	1.0	N	N
LC2835	60 18 16	153 39 2	5.0	1.0	1.5	.70	500	N	N	N	10	1,000	1.0	N	N
LC2845	60 13 0	153 42 6	10.0	.7	1.0	.50	500	N	N	N	10	300	1.0	N	N
LC2855	60 13 6	153 38 11	5.0	1.0	2.0	.50	700	N	N	N	10	500	1.0	N	N
LC2865	60 13 17	153 45 56	7.0	1.5	2.0	.70	1,000	N	N	N	30	500	1.0	N	N
LC2875	60 13 18	153 46 12	5.0	1.0	1.0	.50	700	5.0	N	N	20	500	1.0	N	N
LC2885	60 19 58	154 17 39	3.0	.7	.7	.70	700	N	N	N	10	500	2.0	N	N
LC2893	60 21 55	154 16 50	3.0	.7	1.0	.50	500	<.5	N	N	10	500	2.0	N	N
LC2905	60 22 41	154 21 15	5.0	1.0	1.0	.70	1,000	N	N	N	10	500	2.0	N	N
LC2915	60 23 49	154 24 28	5.0	1.0	1.0	.50	1,000	N	N	N	20	500	2.0	N	N
LC2925	60 24 8	154 27 10	3.0	1.0	1.5	.50	500	1.5	N	N	30	700	2.0	N	N
LC2935	60 27 46	154 26 48	3.0	1.0	1.5	.50	500	N	N	N	30	700	1.5	N	N
LC2945	60 26 40	154 21 2	2.0	.7	.7	.20	300	N	N	N	20	700	1.5	N	N
LC2955	60 24 41	154 13 4	3.0	1.0	1.0	.50	500	N	N	N	<10	700	1.5	N	N
LC2965	60 8 21	153 37 27	5.0	.5	1.5	.30	300	N	N	N	<10	500	1.0	N	N
LC2975	60 6 8	153 40 18	3.0	1.0	2.0	.50	500	N	N	N	<10	700	1.0	N	N
LC2985	60 6 56	153 40 59	3.0	1.0	2.0	.50	300	N	N	N	10	500	1.0	N	N
LC2995	60 9 51	153 46 59	3.0	1.0	2.0	.50	500	N	N	N	<10	500	1.0	N	N
LC3005	60 9 32	153 48 5	3.0	1.0	1.0	.50	500	N	N	N	15	500	1.0	N	N
LC3015	60 9 23	153 49 36	5.0	1.5	2.0	.50	1,000	N	N	N	15	500	1.0	N	N
LC3025	60 4 0	153 43 2	3.0	.5	1.5	.20	500	N	N	N	<10	700	1.0	N	N
LC3035	60 4 58	153 49 15	15.0	.7	1.5	.70	1,000	N	N	N	<10	500	<1.0	N	N
LC3045	60 7 22	153 51 2	5.0	1.5	1.5	.50	700	N	N	N	<10	500	<1.0	N	N
LC3055	60 7 55	154 25 31	3.0	1.0	1.0	.50	700	N	N	N	<10	700	1.0	N	N
LC3065	60 17 7	154 3 24	3.0	1.0	1.5	.50	700	N	N	N	10	700	1.0	N	N
LC3075	60 20 30	153 55 46	5.0	1.0	1.5	.50	700	N	N	N	10	700	1.0	N	N
LC3085	60 17 32	154 2 14	3.0	1.0	1.5	.50	500	N	N	N	10	700	1.0	N	N
LC3095	60 16 32	154 4 35	5.0	2.0	1.5	.70	1,000	N	N	N	30	300	1.0	N	N
LC3105	60 5 58	154 13 22	5.0	1.0	1.5	.50	1,000	N	N	N	<10	500	5.0	N	N
LC3115	60 4 32	154 16 9	2.0	1.0	1.5	.50	500	N	N	N	<10	300	1.0	N	N
LC3125	60 3 47	154 19 50	5.0	1.0	1.0	.70	700	N	N	N	<10	1,000	2.0	N	N
LC3135	60 4 28	154 17 26	5.0	1.0	1.0	.70	1,000	N	N	N	<10	700	1.5	N	N
LC3145	60 3 2	154 24 15	5.0	1.0	1.0	.70	700	N	N	N	<10	700	1.5	N	N
LC3155	60 2 0	154 27 11	5.0	1.0	1.5	.70	700	N	N	N	<10	500	1.0	N	N
LC3165	60 2 23	154 26 35	5.0	1.0	1.5	.70	700	N	N	N	<10	500	1.0	N	N
LC3175	60 1 29	154 31 41	3.0	1.0	1.5	.70	700	N	N	N	<10	500	1.0	N	N



Lake Clark stream sediments--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
LC273S	20	150	15	50	N	N	50	10	N	20	N	200	150	N	20	N	200
LC274S	20	100	15	50	N	N	30	20	N	15	N	200	150	N	20	N	200
LC275S	-50	500	150	50	N	N	50	20	N	30	N	300	300	N	30	<200	200
LC276S	10	N	10	50	N	N	<5	20	N	5	N	300	70	N	10	N	100
LC277S	10	N	10	50	N	N	<5	30	N	10	N	200	70	N	30	200	150
LC278S	20	50	20	50	N	N	10	70	N	20	N	200	200	N	30	<200	150
LC279S	15	50	150	50	N	N	10	30	N	30	N	500	200	N	10	<200	200
LC280S	15	30	30	50	N	N	<5	30	N	20	N	200	150	N	20	N	200
LC281S	15	30	20	50	N	N	<5	20	N	15	N	700	200	N	20	N	300
LC282S	15	30	20	50	N	N	<5	20	N	10	N	500	200	N	20	N	200
LC283S	15	30	20	50	N	N	<5	20	N	15	N	700	200	N	20	N	300
LC284S	15	150	20	50	N	N	<5	10	N	15	N	200	500	N	20	N	1,000
LC285S	15	150	10	50	N	N	<5	10	N	15	N	700	200	N	20	N	200
LC286S	50	150	100	50	N	N	30	30	N	50	N	500	300	N	30	N	200
LC287S	20	70	50	50	N	N	20	20	N	20	N	200	200	N	20	<200	100
LC288S	15	50	20	50	N	N	<5	50	N	15	N	200	150	N	30	N	700
LC289S	15	100	100	50	N	N	10	50	N	15	<10	200	150	N	20	300	100
LC290S	20	100	20	50	N	N	15	30	N	20	N	200	300	N	30	200	200
LC291S	20	50	50	50	N	N	15	50	N	20	N	200	200	N	30	200	200
LC292S	30	70	50	50	N	N	10	100	N	20	N	300	150	N	30	200	300
LC293S	50	100	50	50	N	N	20	50	N	20	N	300	200	N	20	200	300
LC294S	20	30	15	50	N	N	10	30	N	10	N	200	100	N	20	<200	200
LC295S	30	200	15	50	N	N	15	30	N	20	N	300	150	N	30	N	200
LC296S	10	100	5	50	N	N	<5	<10	N	10	N	300	200	N	20	N	500
LC297S	20	100	20	50	N	N	10	10	N	10	N	700	150	N	20	N	200
LC298S	30	50	50	50	N	N	10	10	N	15	N	300	150	N	20	N	700
LC299S	20	150	20	50	N	N	<5	10	N	15	N	300	300	N	20	N	700
LC300S	20	50	20	50	N	N	5	50	N	20	N	300	200	N	20	<200	100
LC301S	50	150	70	50	N	N	20	50	N	20	N	300	200	N	20	N	100
LC302S	10	70	10	50	N	N	<5	15	N	10	N	500	150	N	20	N	300
LC303S	50	150	30	50	N	N	10	20	N	20	N	500	500	N	30	N	700
LC304S	50	200	50	50	N	N	20	15	N	20	N	300	300	N	20	<200	100
LC305S	10	100	10	50	N	N	<5	20	N	15	N	300	300	N	20	<200	300
LC306S	20	150	20	50	N	N	30	20	N	15	N	300	200	N	20	N	100
LC307S	20	100	20	50	N	N	10	30	N	20	N	300	200	N	20	N	200
LC308S	15	100	20	50	N	N	15	50	N	15	N	300	150	N	20	N	200
LC309S	50	1,500	50	50	N	N	150	20	N	20	N	300	150	N	20	<200	150
LC310S	20	100	10	50	N	N	10	20	N	20	N	300	200	N	30	N	200
LC311S	10	50	7	50	N	N	<5	10	N	15	N	300	200	N	20	N	100
LC312S	20	70	10	50	N	N	<5	50	N	20	N	300	150	N	30	N	300
LC313S	20	300	10	50	N	N	<5	30	N	20	N	300	200	N	20	<200	200
LC314S	20	100	10	50	N	N	<5	30	N	20	N	300	200	N	20	N	300
LC315S	20	70	10	50	N	N	<5	20	N	20	N	300	200	N	20	N	300
LC316S	30	70	10	50	N	N	<5	20	N	20	N	300	200	N	20	N	200
LC317S	20	50	7	50	N	N	<5	20	N	20	N	300	150	N	20	N	200

Lake Clark stream sediments--continued

sample	AA-AU	INST-HG	AA-CU	AA-PB	AA-ZN	AS
LC273S	N	.10	15	10	70	N
LC274S	N	.04	10	10	60	N
LC275S	N	.04	180	15	75	10
LC276S	N	.10	10	10	25	N
LC277S	N	.06	15	50	150	N
LC278S	N	N	25	50	70	N
LC279S	N	N	200	20	70	N
LC280S	N	.02	35	25	55	N
LC281S	N	.02	25	10	40	N
LC282S	N	.02	20	<5	20	N
LC283S	N	.04	15	5	30	N
LC284S	N	.04	20	<5	15	N
LC285S	N	.02	15	<5	10	N
LC286S	N	.02	95	15	75	10
LC287S	N	.02	50	15	85	10
LC288S	N	N	20	35	120	60
LC289S	N	.02	110	65	850	60
LC290S	N	.04	15	30	130	40
LC291S	N	.02	25	40	220	20
LC292S	N	.04	40	75	170	N
LC293S	N	.04	35	35	100	20
LC294S	N	.04	10	25	75	10
LC295S	N	.02	10	20	90	20
LC296S	N	.02	10	N	5	N
LC297S	N	.02	20	<5	30	N
LC298S	N	.04	50	10	35	N
LC299S	N	.02	25	5	15	N
LC300S	N	.04	20	45	80	60
LC301S	N	.04	55	30	140	10
LC302S	.05	.02	10	5	20	N
LC303S	N	.02	15	5	30	N
LC304S	N	N	40	25	85	N
LC305S	N	N	10	20	55	N
LC306S	N	N	25	25	70	10
LC307S	N	N	30	15	70	10
LC308S	N	N	25	20	55	10
LC309S	N	.04	50	20	70	N
LC310S	N	.02	20	20	65	N
LC311S	N	.04	10	15	50	N
LC312S	N	.02	10	25	65	10
LC313S	N	.04	10	30	90	10
LC314S	N	.04	5	15	55	10
LC315S	N	.02	10	15	55	N
LC316S	N	.02	5	15	35	10
LC317S	N	N	5	15	40	N

Lake Clark stream sediments--continued

sample	LATITUDE	LONGITUD	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
LC318S	60 22 37	153 55 14	5.0	1.5	2.0	.70	700	N	N	N	30	300	1.0	N	N
LC319S	60 25 1	153 42 14	3.0	1.5	2.0	.50	700	N	N	N	10	500	1.0	N	N
LC320S	60 25 2	153 38 45	5.0	1.5	3.0	.70	500	N	N	N	10	300	1.0	N	N
LC321S	60 23 9	153 45 3	7.0	1.0	2.0	.70	300	N	N	N	10	500	1.0	N	N
LC322S	60 22 33	153 47 45	5.0	1.0	2.0	.70	500	N	N	N	20	500	1.0	N	N
LC323S	60 21 33	153 51 51	3.0	1.0	1.0	.70	500	N	N	N	10	700	1.0	N	N
LC324S	60 21 23	153 52 23	5.0	1.0	3.0	.70	1,000	N	N	N	10	300	1.0	N	N
LC325S	60 20 47	153 54 28	5.0	1.5	3.0	.70	500	N	N	N	30	500	1.0	N	N
LC326S	60 29 48	154 0 1	3.0	1.0	1.0	.50	700	N	N	N	10	700	1.5	N	N
LC327S	60 10 37	154 13 45	5.0	1.5	2.0	.70	700	N	N	N	10	500	1.0	N	N
LC328S	60 10 1	154 0 14	3.0	.7	1.0	.30	500	N	N	N	10	500	1.0	N	N
LC329S	60 9 30	153 58 9	2.0	.7	1.0	.30	700	N	N	N	<10	500	1.0	N	N
LC330S	60 9 6	153 53 30	2.0	.7	1.0	.30	700	N	N	N	<10	500	1.0	N	N
LC331S	60 9 12	153 53 39	1.5	.5	1.0	.30	500	N	N	N	<10	500	1.0	N	N
LC332S	60 9 39	153 54 52	2.0	.3	.7	.30	500	N	N	N	<10	500	1.0	N	N
LC333S	60 9 46	153 55 33	2.0	.7	1.5	.30	500	N	N	N	10	500	1.0	N	N
LC334S	60 10 29	153 58 10	1.0	.5	1.0	.30	500	N	N	N	<10	500	1.0	N	N
LC335S	60 10 33	153 59 3	2.0	.7	1.0	.30	500	N	N	N	<10	500	1.0	N	N
LC336S	60 11 31	154 2 0	2.0	.7	1.0	.30	500	N	N	N	<10	500	1.0	N	N
LC337S	60 11 57	154 2 47	2.0	1.0	1.0	.30	700	N	N	N	10	500	1.0	N	N
LC338S	60 12 5	154 4 37	2.0	1.0	1.0	.50	700	N	N	N	10	500	1.0	N	N
LC339S	60 11 54	154 6 29	2.0	.7	.7	.30	500	N	N	N	30	300	1.0	N	N
LC340S	60 11 13	154 6 57	3.0	1.0	1.0	.50	500	N	N	N	10	200	1.0	N	N
LC341S	60 10 20	154 11 8	3.0	1.0	1.5	.50	700	N	N	N	10	300	1.0	N	N
LC342S	60 10 37	154 10 51	3.0	1.5	1.5	.50	700	N	N	N	10	300	1.0	N	N
LC343S	60 10 53	154 2 17	5.0	1.0	1.5	.50	1,000	<.5	N	N	15	500	1.0	N	N
LC344S	60 10 20	154 2 58	10.0	1.0	1.5	.50	1,000	<.5	N	N	20	500	1.0	N	N
LC345S	60 2 11	154 11 8	2.0	.5	.7	.50	1,000	N	N	N	<10	500	1.0	N	N
LC346S	60 2 21	154 0 53	5.0	.7	1.0	.50	1,000	N	N	N	<10	500	1.0	N	N
LC347S	60 21 47	154 2 29	5.0	1.5	1.0	.50	700	N	N	N	10	1,000	1.0	N	N
LC348S	60 2 41	153 56 7	5.0	1.0	1.5	.50	1,000	N	N	N	<10	300	<1.0	N	N
LC349S	60 1 45	153 54 24	2.0	1.0	1.5	.30	700	N	N	N	<10	300	<1.0	N	N
LC350S	60 2 3	153 54 3	5.0	1.0	1.5	.50	700	N	N	N	<10	300	<1.0	N	N
LC351S	60 0 24	153 49 13	1.5	.7	2.0	.20	500	N	N	N	<10	500	1.0	N	N
LC352S	60 0 50	153 44 5	1.0	.5	2.0	.30	500	N	N	N	<10	500	1.0	N	N
LC353S	60 1 9	153 43 19	1.5	.2	1.5	.50	700	N	N	N	<10	500	1.0	N	N
LC354S	60 1 4	153 35 53	2.0	.5	1.0	.30	300	N	N	N	<10	500	1.0	N	N
LC355S	60 2 43	153 33 8	1.5	.5	1.0	.15	500	5.0	N	N	<10	500	1.0	N	N
LC356S	60 2 40	153 31 59	5.0	.5	1.0	.20	300	N	N	N	<10	500	1.0	N	N
LC357S	60 4 8	153 23 41	5.0	.7	1.5	.30	700	N	N	N	<10	500	1.0	N	N
LC500S	60 20 3	155 26 25	10.0	1.0	1.0	.30	2,000	N	N	N	20	1,000	1.0	N	N
LC501S	60 20 29	155 25 53	10.0	1.0	1.0	.30	2,000	N	N	N	30	1,000	1.0	N	N
LC502S	60 19 32	155 28 59	10.0	1.5	1.0	.30	1,500	N	N	N	50	1,000	1.0	N	N
LC503S	60 18 59	155 29 31	15.0	1.5	1.0	.30	1,500	N	N	N	30	1,000	<1.0	N	N
LC504S	60 18 35	155 33 55	10.0	1.0	1.0	.30	1,500	N	N	N	20	1,000	1.0	N	N

Lake Clark stream sediments--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
LC318S	50	300	50	50	N	<20	50	<10	N	20	N	300	200	N	30	N	150
LC319S	20	50	50	50	N	<20	10	30	N	20	N	300	200	N	20	N	100
LC320S	150	150	50	50	N	<20	20	10	N	20	N	500	300	N	20	N	200
LC321S	30	100	15	50	N	<20	10	10	N	20	N	300	300	N	20	N	300
LC322S	30	150	20	50	N	<20	20	15	N	30	N	300	300	N	30	N	200
LC323S	20	100	15	50	N	<20	5	10	N	20	N	200	200	N	30	N	200
LC324S	20	150	50	50	N	<20	10	10	N	30	N	300	300	N	20	N	300
LC325S	50	100	100	50	<5	<20	30	50	N	20	N	500	200	N	20	<200	100
LC326S	30	70	15	70	N	<20	15	30	N	20	N	300	150	N	30	N	200
LC327S	50	200	20	50	N	<20	50	20	N	20	N	300	200	N	20	N	200
LC328S	20	150	15	50	N	<20	20	10	N	20	N	200	200	N	20	N	150
LC329S	10	20	5	50	N	<20	5	10	N	20	N	200	100	N	20	N	150
LC330S	30	30	50	50	<5	<20	10	50	N	20	N	200	100	N	20	N	150
LC331S	<5	20	10	50	N	<20	<5	20	N	10	N	200	70	N	20	<200	150
LC332S	<5	20	15	50	N	<20	<5	10	N	15	N	150	70	N	30	N	150
LC333S	15	70	15	50	N	<20	10	10	N	15	N	300	100	N	20	N	150
LC334S	10	30	15	50	N	<20	5	10	N	10	N	200	70	N	20	N	100
LC335S	10	30	20	50	N	<20	10	10	N	15	N	200	100	N	20	N	100
LC336S	15	30	30	50	N	<20	10	15	N	20	N	300	150	N	20	N	100
LC337S	20	200	20	50	N	<20	20	15	N	20	N	300	150	N	20	N	70
LC338S	20	150	20	50	N	<20	20	10	N	20	N	300	100	N	20	N	70
LC339S	20	70	50	50	N	<20	20	<10	N	20	N	200	150	N	10	N	50
LC340S	50	500	70	50	N	<20	70	<10	N	30	N	200	200	N	10	N	50
LC341S	20	200	20	50	N	<20	30	<10	N	20	N	300	200	N	20	N	300
LC342S	50	300	70	50	N	<20	100	10	N	20	N	200	200	N	20	N	70
LC343S	20	150	500	50	<5	<20	30	20	N	20	N	200	200	N	20	500	70
LC344S	30	150	700	50	<5	<20	30	20	N	20	N	200	200	N	20	500	70
LC345S	<5	20	10	50	N	<20	<5	30	N	10	N	200	50	N	20	<200	200
LC346S	15	100	20	50	N	<20	20	20	N	20	N	200	200	N	20	N	150
LC347S	20	1,000	50	50	N	<20	50	20	N	20	N	200	200	N	20	N	200
LC348S	20	100	50	50	N	<20	10	10	N	20	N	300	300	N	20	N	100
LC349S	10	30	10	50	N	<20	<5	10	N	20	N	300	150	N	15	N	100
LC350S	20	50	50	50	<5	<20	10	10	N	20	N	300	200	N	20	N	100
LC351S	10	N	20	50	N	<20	5	20	N	10	N	300	70	N	15	N	100
LC352S	<5	N	15	50	N	<20	<5	15	N	10	N	500	70	N	15	N	70
LC353S	<5	N	10	50	N	<20	<5	20	N	10	N	500	100	N	20	N	150
LC354S	<5	20	70	50	10	<20	<5	20	N	7	N	500	70	N	10	N	70
LC355S	<5	70	50	50	N	<20	<5	10	N	7	N	500	50	N	10	N	70
LC356S	10	150	20	50	N	<20	10	<10	N	7	N	300	300	N	10	N	200
LC357S	15	100	20	50	N	<20	10	<10	N	15	N	500	200	N	15	N	200
LC500S	30	70	50	50	N	<20	50	20	N	15	N	200	150	N	30	N	200
LC501S	20	70	30	50	N	<20	50	20	N	15	N	200	100	N	20	N	200
LC502S	200	200	50	50	N	<20	50	20	N	20	N	200	300	N	30	N	500
LC503S	30	150	50	50	N	<20	50	20	N	20	N	200	200	N	50	N	500
LC504S	20	70	50	50	N	<20	50	20	N	15	N	200	200	N	30	N	300

Lake Clark stream sediments--continued

sample	AA-AU	INST-HG	AA-CU	AA-PB	AA-ZN	AS
LC318S	N	.04	45	20	55	N
LC319S	N	.04	50	30	65	60
LC320S	.15	.04	25	15	20	N
LC321S	N	.04	15	10	30	N
LC322S	N	.02	25	15	40	N
LC323S	N	.02	15	20	55	N
LC324S	N	.02	100	25	65	10
LC325S	N	.04	75	45	100	20
LC326S	N	.04	10	40	75	N
LC327S	N	.06	20	30	70	N
LC328S	N	.04	30	20	100	10
LC329S	N	.06	10	10	200	N
LC330S	N	.02	60	55	180	10
LC331S	N	.02	15	40	180	N
LC332S	N	.02	90	10	90	N
LC333S	N	.02	15	15	60	N
LC334S	N	.02	25	15	55	N
LC335S	N	.02	25	15	30	N
LC336S	N	.02	35	15	55	N
LC337S	N	.06	20	20	75	10
LC338S	N	.02	30	20	70	10
LC339S	.15	.06	80	20	95	20
LC340S	N	.02	110	10	55	10
LC341S	N	.06	20	10	45	10
LC342S	N	.02	65	15	70	10
LC343S	N	.04	740	25	280	20
LC344S	N	.04	1,300	35	400	40
LC345S	N	.02	10	35	130	N
LC346S	N	.04	10	20	65	N
LC347S	N	.02	25	25	70	20
LC348S	N	.02	40	10	50	N
LC349S	N	.04	5	10	20	N
LC350S	N	.06	40	10	40	N
LC351S	N	.02	25	20	70	N
LC352S	N	.02	20	10	50	N
LC353S	N	.04	10	20	70	N
LC354S	.05	.06	90	15	50	N
LC355S	N	.02	10	5	35	N
LC356S	N	.02	35	10	30	N
LC357S	N	.02	35	25	20	N
LC500S	N	--	25	15	55	20
LC501S	N	--	15	15	55	20
LC502S	N	--	20	15	45	10
LC503S	N	--	20	15	60	20
LC504S	N	--	15	15	50	N

Lake Clark stream sediments--continued

sample	LATITUDE	LONGITUD	S-FEX	S-MGX	S-CAZ	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
LC505S	60 21 23	155 28 11	10.0	1.5	1.0	.30	1,500	N	N	N	30	1,500	1.0	N	N
LC506S	60 23 50	155 34 49	15.0	1.5	1.5	.50	2,000	N	N	N	50	1,500	<1.0	N	N
LC507S	60 25 4	155 30 6	10.0	1.5	1.5	.50	3,000	N	N	N	50	1,500	1.0	N	N
LC508S	60 26 59	155 35 29	10.0	1.5	1.0	.30	1,500	N	N	N	50	1,500	1.0	N	N
LC509S	60 27 32	155 33 51	10.0	1.0	1.0	.30	1,000	N	N	N	50	1,000	1.0	N	N
LC510S	60 28 14	155 33 24	15.0	1.5	1.5	.50	2,000	N	N	N	70	1,500	1.0	N	N
LC511S	60 23 31	155 32 31	10.0	1.5	1.5	.30	1,000	N	N	N	50	1,500	1.0	N	N
LC512S	60 20 53	155 24 6	15.0	1.5	1.5	.50	2,000	N	N	N	50	1,500	<1.0	N	N
LC513S	60 24 30	155 53 53	7.0	1.0	1.0	1.00	700	N	N	N	30	1,000	<1.0	N	N
LC514S	60 23 35	155 58 9	5.0	1.0	1.0	1.00	500	N	N	N	30	700	1.0	N	N
LC515S	60 26 26	155 49 46	5.0	1.0	.7	.70	500	N	N	N	50	700	<1.0	N	N
LC516S	60 26 44	155 47 35	5.0	1.0	.7	.70	500	N	N	N	30	700	<1.0	N	N
LC517S	60 28 11	155 45 51	3.0	1.0	.7	.70	300	N	N	N	30	700	<1.0	N	N
LC518S	60 27 2	155 49 6	3.0	1.0	.7	.50	500	<.5	N	N	30	700	<1.0	N	N
LC519S	60 29 27	155 44 53	3.0	1.0	.7	.70	1,000	N	N	N	30	700	<1.0	N	N
LC520S	60 31 59	155 46 27	2.0	.5	.5	.50	300	N	N	N	30	500	<1.0	N	N
LC521S	60 30 55	155 47 38	5.0	1.0	.7	1.00	700	N	N	N	50	1,000	<1.0	N	N
LC522S	60 30 42	155 51 12	3.0	1.0	.7	.70	500	N	N	N	50	700	<1.0	N	N
LC523S	60 29 54	155 48 32	3.0	.7	.7	.70	500	N	N	N	30	700	<1.0	N	N
LC524S	60 29 14	155 52 51	5.0	1.0	.7	.70	500	N	N	N	30	700	<1.0	N	N
LC525S	60 23 25	155 45 38	3.0	.7	1.0	.70	500	N	N	N	50	500	1.0	N	N
LC526S	60 23 32	155 48 12	2.0	.7	1.0	.50	500	N	N	N	50	500	1.0	N	N
LC527S	60 22 50	155 49 58	3.0	1.0	1.0	.50	700	N	N	N	50	700	<1.0	N	N
LC528S	60 21 47	155 50 14	3.0	1.0	1.0	.50	700	N	N	N	30	700	<1.0	N	N
LC529S	60 21 19	155 50 4	3.0	1.0	.7	.50	1,000	N	N	N	50	700	<1.0	N	N
LC530S	60 20 54	155 52 19	10.0	1.0	1.0	.70	700	N	N	N	30	500	<1.0	N	N
LC531S	60 21 28	155 44 12	5.0	1.0	1.0	.70	1,000	N	N	N	30	700	<1.0	N	N
LC532S	60 48 47	155 31 9	7.0	1.0	1.0	.70	700	N	N	N	50	700	<1.0	N	N
LC533S	60 48 26	155 30 8	3.0	.7	.7	.50	1,000	N	N	N	100	500	<1.0	N	N
LC534S	60 48 47	155 25 36	3.0	1.0	.7	.50	1,000	N	N	N	30	500	<1.0	N	N
LC535S	60 48 11	155 27 57	3.0	1.0	.7	.50	700	N	N	N	30	500	<1.0	N	N
LC536S	60 47 23	155 26 5	3.0	1.0	1.0	.70	700	N	N	N	50	700	1.0	N	N
LC537S	60 46 32	155 25 13	2.0	.7	1.0	.50	500	N	N	N	30	500	1.0	N	N
LC538S	60 46 32	155 22 24	5.0	1.0	1.0	.70	500	1.0	N	N	100	700	1.0	N	N
LC539S	60 46 20	155 20 14	5.0	1.0	1.0	.70	700	N	N	N	50	700	1.0	N	N
LC540S	60 47 53	155 19 36	5.0	1.0	1.0	.70	700	N	N	N	50	700	1.0	N	N
LC541S	60 48 15	155 19 4	5.0	1.0	1.0	.70	1,000	N	N	N	50	700	1.0	N	N
LC542S	60 49 46	155 16 54	5.0	1.0	1.0	.70	700	N	N	N	30	700	1.0	N	N
LC543S	60 50 35	155 21 29	5.0	1.0	1.0	.70	1,000	N	N	N	30	700	1.0	N	N
LC544S	60 50 14	155 25 2	3.0	1.0	1.0	.50	700	N	N	N	30	700	<1.0	N	N
LC545S	60 50 3	155 33 6	5.0	1.0	1.0	.70	1,000	N	N	N	50	700	<1.0	N	N
LC546S	60 45 48	155 10 41	3.0	1.0	1.0	.50	500	N	N	N	20	700	<1.0	N	N
LC547S	60 47 40	155 14 38	2.0	1.0	1.0	.50	500	N	N	N	20	500	<1.0	N	N
LC548S	60 48 38	155 12 42	2.0	1.0	.7	.70	500	N	N	N	30	700	<1.0	N	N
LC549S	60 50 5	155 11 56	5.0	1.0	.7	.70	500	N	N	N	50	700	<1.0	N	N

Lake Clark stream sediments--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
LC505S	20	100	50	50	N	<20	70	20	N	15	N	200	200	N	30	N	200
LC506S	30	150	50	50	N	<20	70	20	N	20	N	200	200	N	50	N	300
LC507S	20	70	30	50	N	<20	50	15	N	20	N	200	300	N	50	N	700
LC508S	20	150	30	50	N	<20	50	20	N	15	N	200	150	N	30	N	700
LC509S	20	70	30	50	N	<20	50	10	N	15	N	200	150	N	20	N	300
LC510S	20	100	50	50	N	<20	50	30	N	15	N	200	200	N	30	N	500
LC511S	20	100	30	50	N	<20	50	20	N	15	N	200	150	N	20	N	300
LC512S	30	700	70	50	N	<20	70	30	N	15	N	200	200	N	30	N	700
LC513S	30	200	30	50	N	<20	50	30	N	20	N	200	200	N	30	N	500
LC514S	20	150	20	70	N	<20	50	20	N	20	N	200	150	N	30	N	300
LC515S	20	150	30	50	N	<20	50	20	N	20	N	200	150	N	30	N	100
LC516S	20	200	20	50	N	<20	50	20	N	20	N	200	150	N	30	N	200
LC517S	20	100	10	150	N	<20	30	20	N	20	N	200	150	N	50	N	300
LC518S	20	100	20	50	N	<20	50	50	N	15	N	200	150	N	30	N	100
LC519S	20	100	20	50	N	<20	50	20	N	20	N	200	150	N	30	N	300
LC520S	10	100	10	50	N	<20	30	10	N	15	N	200	100	N	20	N	70
LC521S	50	200	30	50	N	<20	50	30	N	30	N	200	200	N	50	N	500
LC522S	20	150	20	50	N	<20	50	20	N	20	N	200	200	N	30	N	200
LC523S	20	100	20	50	N	<20	50	10	N	20	N	200	200	N	30	N	300
LC524S	30	200	50	50	N	<20	50	50	N	20	N	200	150	N	30	N	150
LC525S	20	100	10	50	N	<20	20	10	N	20	N	200	150	N	30	N	700
LC526S	15	50	10	50	N	<20	20	10	N	15	N	500	150	N	30	N	100
LC527S	20	100	20	50	<5	<20	20	50	N	15	N	500	150	N	30	N	150
LC528S	20	100	20	50	N	<20	50	30	N	20	N	300	150	N	20	N	100
LC529S	20	100	20	50	N	<20	30	30	N	15	N	200	150	N	30	N	100
LC530S	50	300	50	50	N	<20	50	30	N	20	N	200	200	N	30	N	100
LC531S	20	100	15	100	N	<20	50	20	N	20	N	300	150	N	30	N	200
LC532S	30	150	50	50	N	<20	50	50	N	20	N	200	200	N	30	N	100
LC533S	30	100	50	50	N	<20	50	10	N	15	N	200	150	N	30	N	100
LC534S	30	100	20	50	N	<20	50	30	N	20	N	200	200	N	30	N	150
LC535S	30	100	20	50	N	<20	50	30	N	20	N	200	150	N	30	N	150
LC536S	30	100	20	50	N	<20	50	20	N	20	N	200	200	N	20	N	100
LC537S	20	70	20	50	N	<20	30	20	N	15	N	200	150	N	20	N	100
LC538S	30	100	50	50	N	<20	100	50	N	20	20	200	200	N	20	N	100
LC539S	30	150	20	70	N	<20	50	20	N	20	N	300	200	N	30	N	150
LC540S	50	150	30	50	N	<20	70	50	N	20	N	200	150	N	30	N	100
LC541S	50	150	30	50	N	<20	70	20	N	20	N	200	200	N	30	N	100
LC542S	50	150	20	50	N	<20	70	20	N	20	N	200	200	N	30	N	100
LC543S	30	150	15	50	N	<20	50	10	N	20	N	200	200	N	30	N	150
LC544S	30	100	20	50	N	<20	50	20	N	15	N	200	150	N	20	N	100
LC545S	50	150	20	50	N	<20	70	20	N	20	N	200	200	N	30	N	150
LC546S	30	150	10	50	N	<20	50	20	N	20	N	300	150	N	30	N	200
LC547S	20	200	20	50	N	<20	30	20	N	20	N	200	150	N	20	N	200
LC548S	20	100	10	50	N	<20	50	10	N	15	N	200	150	N	20	N	200
LC549S	30	150	20	150	N	<20	70	30	N	20	N	200	200	N	20	N	200

Lake Clark stream sediments--continued

sample	AA-AU	INST-HG	AA-CU	AA-PB	AA-ZN	AS
LC505S	N	--	20	15	55	N
LC506S	N	--	20	10	60	N
LC507S	.10	--	10	10	55	N
LC508S	N	--	10	10	50	N
LC509S	N	--	15	15	55	N
LC510S	N	--	10	15	65	N
LC511S	N	--	10	10	60	N
LC512S	N	--	15	15	75	N
LC513S	N	.08	20	15	70	10
LC514S	N	.04	15	15	60	N
LC515S	N	.10	25	20	90	20
LC516S	N	.06	15	15	65	N
LC517S	.10	.04	15	15	50	N
LC518S	.05	.06	25	35	110	30
LC519S	.10	.06	15	15	75	N
LC520S	N	.04	20	15	90	10
LC521S	N	.02	20	15	75	N
LC522S	N	.04	20	15	75	N
LC523S	N	.04	25	20	90	20
LC524S	N	.02	30	20	95	40
LC525S	.05	.04	15	15	60	20
LC526S	N	.10	25	20	85	40
LC527S	N	.20	25	30	85	60
LC528S	N	.10	15	20	95	20
LC529S	N	.10	25	20	80	N
LC530S	N	.06	30	20	75	N
LC531S	N	.06	15	15	65	N
LC532S	N	.06	30	25	90	N
LC533S	N	.22	65	20	90	120
LC534S	N	.04	20	20	85	10
LC535S	N	.04	15	15	80	20
LC536S	N	.04	15	15	80	N
LC537S	N	.20	15	20	100	N
LC538S	N	.26	50	25	180	120
LC539S	N	.12	10	10	60	10
LC540S	N	.20	25	25	120	20
LC541S	.55	.14	40	25	160	20
LC542S	N	.35	20	15	100	20
LC543S	N	.08	15	15	70	20
LC544S	N	.08	15	15	85	20
LC545S	N	.06	15	15	75	20
LC546S	N	.08	10	10	50	N
LC547S	N	.30	15	15	55	N
LC548S	N	.14	15	15	95	N
LC549S	N	.04	20	15	80	20



Lake Clark stream sediments--continued

sample	LATITUDE	LONGITUD	S-FEZ	S-MGZ	S-CAZ	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
LC550S	60 50 18	155 7 14	5.0	1.0	1.0	.70	1,000	N	N	N	20	700	<1.0	N	N
LC551S	60 52 38	155 8 7	5.0	1.0	.7	.70	700	N	N	N	50	700	<1.0	N	N
LC552S	60 53 4	155 2 59	5.0	1.0	1.0	.70	1,000	N	N	N	20	700	<1.0	N	N
LC553S	60 50 39	154 57 1	3.0	1.0	1.0	.70	500	N	N	N	20	700	<1.0	N	N
LC554S	60 47 53	155 3 17	5.0	1.0	1.0	.70	1,000	N	N	N	30	700	<1.0	N	N
LC555S	60 48 23	155 6 6	5.0	1.0	1.5	.70	1,000	N	N	N	20	700	<1.0	N	N
LC556S	60 47 3	155 7 49	5.0	1.0	1.0	.70	1,000	N	N	N	50	700	<1.0	N	N
LC557S	60 55 38	155 56 20	7.0	1.0	1.0	.70	1,000	N	N	N	50	700	<1.0	N	N
LC558S	60 53 41	155 59 13	5.0	1.0	1.5	.50	700	N	N	N	20	500	<1.0	N	N
LC559S	60 51 5	155 58 4	5.0	.1	.5	.50	500	N	N	N	30	700	<1.0	N	N
LC560S	60 50 12	155 57 30	10.0	1.0	.7	.70	700	N	N	N	30	1,000	<1.0	N	N
LC561S	60 47 11	155 58 18	5.0	1.0	.7	.50	500	N	N	N	50	700	<1.0	N	N
LC562S	60 48 1	155 56 57	5.0	1.0	.7	.70	500	N	N	N	50	700	<1.0	N	N
LC563S	60 47 49	155 51 41	10.0	1.0	.5	.70	500	N	N	N	50	700	<1.0	N	N
LC564S	60 47 43	155 47 40	7.0	1.0	.7	.70	500	N	N	N	50	700	<1.0	N	N
LC565S	60 47 27	155 41 59	7.0	1.5	.7	.70	1,500	N	N	N	50	700	<1.0	N	N
LC566S	60 49 23	155 42 35	5.0	1.0	1.0	.70	1,000	N	N	N	50	1,000	<1.0	N	N
LC567S	60 52 9	155 51 6	5.0	1.0	.7	.50	500	N	N	N	50	700	<1.0	N	N
LC568S	60 55 32	155 49 42	5.0	1.0	.7	.70	700	N	N	N	50	700	<1.0	N	N
LC569S	60 58 37	155 35 57	5.0	1.0	.7	.50	1,000	N	N	N	50	1,000	<1.0	N	N
LC570S	60 57 24	155 27 10	7.0	1.0	1.0	.70	1,000	N	N	N	30	1,000	<1.0	N	N
LC571S	60 58 58	155 24 47	5.0	1.0	1.0	.50	500	N	N	N	50	700	<1.0	N	N
LC572S	60 59 18	155 22 41	10.0	1.0	.7	.70	1,000	N	N	N	70	1,000	<1.0	N	N
LC573S	60 56 57	155 22 30	7.0	1.0	1.0	.70	1,000	N	N	N	30	700	<1.0	N	N
LC574S	60 55 32	155 25 40	5.0	1.0	.7	.70	500	N	N	N	50	700	<1.0	N	N
LC575S	60 55 14	155 31 17	7.0	1.0	1.0	.70	1,000	N	N	N	50	700	<1.0	N	N
LC576S	60 52 35	155 31 17	7.0	1.0	.7	.70	700	N	N	N	50	700	<1.0	N	N
LC577S	60 38 14	155 53 0	5.0	1.0	.7	.50	1,000	N	N	N	50	1,000	1.0	N	N
LC578S	60 43 8	155 55 59	3.0	1.0	.7	.50	500	N	N	N	50	700	1.0	N	N
LC579S	60 41 35	155 57 5	2.0	1.0	.7	.50	300	N	N	N	50	700	1.0	N	N
LC580S	60 40 0	155 51 48	5.0	1.0	1.0	.50	700	N	N	N	50	700	1.0	N	N

Lake Clark stream sediments--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
LC550S	50	150	30	50	N	<20	50	30	N	20	N	300	200	N	20	N	150
LC551S	20	200	20	50	N	<20	50	15	N	20	N	200	200	N	30	N	150
LC552S	50	150	20	50	N	<20	50	20	N	20	N	200	200	N	30	N	300
LC553S	20	100	30	50	N	<20	30	10	N	20	N	300	200	N	30	N	100
LC554S	20	100	10	50	N	<20	50	10	N	20	N	300	200	N	30	N	500
LC555S	30	100	10	50	N	<20	50	20	N	20	N	300	200	N	50	N	300
LC556S	50	200	30	50	N	<20	100	20	N	20	N	200	200	N	30	N	200
LC557S	50	200	50	50	N	<20	100	30	N	20	N	200	200	N	30	N	150
LC558S	20	100	20	50	N	<20	50	20	N	20	N	200	200	N	30	N	200
LC559S	20	150	20	50	N	<20	50	20	N	20	N	150	200	N	20	N	200
LC560S	50	300	30	50	N	<20	70	30	N	20	N	200	200	N	30	N	200
LC561S	20	150	20	50	N	<20	50	10	N	20	N	200	200	N	20	N	200
LC562S	20	150	20	50	N	<20	50	20	N	15	N	200	200	N	20	N	300
LC563S	30	200	30	50	N	<20	70	20	N	20	N	150	200	N	30	N	300
LC564S	30	200	15	50	N	<20	70	<10	N	20	N	150	200	N	30	N	300
LC565S	50	150	20	50	N	<20	70	20	N	20	N	150	200	N	30	N	300
LC566S	30	200	30	50	N	<20	50	30	N	20	N	200	200	N	30	N	300
LC567S	20	150	10	50	N	<20	30	10	N	20	N	200	200	N	20	N	200
LC568S	30	200	20	50	N	<20	50	15	N	20	N	200	200	N	50	N	500
LC569S	30	200	20	50	N	<20	50	15	N	20	N	200	200	N	30	N	300
LC570S	30	200	10	50	N	<20	50	15	N	20	N	200	200	N	50	N	300
LC571S	20	100	10	50	N	<20	30	15	N	20	N	200	200	N	30	N	500
LC572S	50	200	50	50	N	<20	100	20	N	20	N	200	300	N	50	<200	300
LC573S	30	200	5	70	N	<20	30	10	N	20	N	200	200	N	50	N	1,000
LC574S	30	200	20	50	N	<20	50	20	N	15	N	200	200	N	30	N	500
LC575S	30	150	20	50	N	<20	50	30	N	20	N	200	200	N	20	N	200
LC576S	30	150	50	50	N	<20	50	30	N	20	N	200	200	N	30	<200	200
LC577S	100	150	30	50	N	<20	70	30	N	20	N	200	200	N	30	N	300
LC578S	50	150	15	100	N	<20	70	20	N	20	N	200	200	N	30	N	300
LC579S	50	200	10	50	N	<20	50	20	N	20	N	200	200	N	20	<200	200
LC580S	50	200	20	50	N	<20	50	30	N	20	N	200	200	N	30	N	300

Lake Clark stream sediments--continued

sample	AA-AU	INST-HG	AA-CU	AA-PB	AA-ZN	AS
LC550S	N	.04	20	15	70	N
LC551S	.15	.40	15	15	75	N
LC552S	N	.06	15	15	75	N
LC553S	N	.26	35	15	85	N
LC554S	N	.10	15	15	65	10
LC555S	N	.02	10	10	50	N
LC556S	N	.06	20	15	110	N
LC557S	N	.06	25	20	85	N
LC558S	.15	.04	15	15	65	N
LC559S	N	.06	15	15	85	N
LC560S	N	.12	10	15	65	20
LC561S	N	.04	15	15	85	N
LC562S	N	.10	10	15	80	N
LC563S	N	.08	15	15	80	10
LC564S	N	.04	10	15	90	N
LC565S	N	.10	15	15	95	10
LC566S	N	.18	10	15	75	10
LC567S	N	.55	10	15	80	10
LC568S	N	.14	10	15	55	N
LC569S	N	.10	10	15	55	N
LC570S	N	.04	5	10	40	N
LC571S	N	.04	5	10	40	N
LC572S	N	.04	35	25	170	20
LC573S	N	.04	20	15	95	N
LC574S	.10	.04	5	10	40	10
LC575S	N	.08	15	20	80	N
LC576S	N	.04	35	25	250	40
LC577S	N	.04	15	15	80	20
LC578S	N	.04	10	10	75	N
LC579S	N	.12	10	10	70	10
LC580S	N	.06	10	15	60	N.

Table 2.--Semi-quantitative spectrographic analyses of the nonmagnetic fraction of heavy-mineral concentrate samples from Lake Clark quadrangle, Alaska.

(Sample-site numbers corresponding to sample numbers of this table are shown on the sample-site location map without the prefix "LC," the suffix "C3," or leading zeros. Thus, "LC001C3" is shown on the map as "1." Fe, Mg, Ca, and Ti are reported in percent; all other analyses are reported in parts per million. Symbols used: >, an undetermined amount greater than the amount shown was detected; <, an undetermined amount less than the amount shown was detected; ---, no analysis; N, not detected. Analyses by E. F. Cooley. Lower limits of determination for elements are shown in parentheses beneath the chemical-symbol column headings on the first three pages of the table.)

sample	LATITUDE	LONGITUDE	S-FEZ (.1)	S-MGX (.05)	S-CAZ (.1)	S-TIX (.005)	S-MN (20)	S-AG (1)	S-AS (500)	S-AU (20)	S-B (20)	S-BA (50)	S-BE (2)	S-BI (20)
LC001C3	60 27 10	154 44 12	1.5	.30	3.0	>1.0	500	N	N	N	50	200	<2	N
LC004C3	60 23 22	154 42 17	1.5	.30	7.0	>1.0	700	N	N	100	100	300	2	N
LC019C3	60 31 47	154 42 15	1.5	.30	7.0	>1.0	700	N	N	100	100	1,000	<2	N
LC021C3	60 23 37	154 27 59	1.5	.70	7.0	>1.0	200	N	N	20	20	200	<2	30
LC022C3	60 26 12	154 33 20	1.5	.05	.7	>1.0	200	N	N	<20	<20	100	<2	150
LC026C3	60 30 15	154 39 37	1.5	.15	10.0	>1.0	700	N	N	N	70	100	<2	N
LC029C3	60 23 31	154 33 29	2.0	1.00	5.0	>1.0	200	N	N	<20	<20	200	<2	>1,000
LC030C3	60 23 17	154 34 17	2.0	1.00	5.0	>1.0	500	N	N	N	20	100	<2	50
LC034C3	60 20 50	154 39 28	1.0	.20	1.0	>1.0	300	N	N	N	200	200	<2	<20
LC035C3	60 21 16	154 40 50	2.0	.50	7.0	>1.0	700	N	N	N	200	200	<2	<20
LC038C3	60 19 53	154 39 26	1.0	.15	1.0	>1.0	300	N	N	N	30	300	<2	N
LC039C3	60 21 51	154 37 26	1.0	.50	2.0	>1.0	200	N	N	1,500	1,500	200	<2	30
LC040C3	60 25 31	154 42 11	3.0	3.00	7.0	.5	1,000	N	N	N	150	100	<2	N
LC039C3	60 24 7	154 48 46	2.0	.50	3.0	>1.0	700	N	N	N	100	150	<2	N
LC047C3	60 15 25	154 36 15	2.0	.10	1.0	>1.0	300	N	700	N	30	500	<2	30
LC041C3	60 17 39	154 35 49	1.5	.10	15.0	>1.0	1,000	N	N	N	20	150	<2	N
LC045C3	60 15 53	154 36 1	1.0	.10	15.0	>1.0	1,000	N	N	N	20	150	<2	N
LC046C3	60 17 11	154 36 9	5.0	.07	5	>1.0	150	2,000	N	20	20	1,000	<2	20
LC047C3	60 17 22	154 41 29	3.0	.10	10.0	>1.0	500	<500	N	<20	<20	700	<2	N
LC051C3	60 26 35	154 44 57	1.5	.15	3.0	>1.0	300	N	N	<20	<20	150	<2	N
LC052C3	60 29 13	154 41 20	1.5	.50	7.0	.5	700	N	N	20	20	150	<2	N
LC053C3	60 31 41	154 45 2	1.5	.70	10.0	>1.0	700	N	N	<20	<20	1,500	<2	N
LC054C3	60 32 22	154 47 50	1.5	.30	15.0	>1.0	700	N	N	30	300	500	<2	N
LC056C3	60 22 16	154 30 5	1.5	.10	10.0	>1.0	700	<500	N	300	100	100	<2	N
LC057C3	60 26 16	154 26 56	2.0	.30	10.0	>1.0	500	<500	N	150	100	100	<2	N
LC058C3	60 35 33	154 37 24	2.0	.30	10.0	>1.0	500	N	N	N	20	150	<2	N
LC059C3	60 22 7	154 37 0	2.0	.15	7	>1.0	300	N	N	N	20	300	<2	30
LC060C3	60 13 11	154 35 3	1.5	.10	7.0	>1.0	700	N	N	150	150	200	<2	N
LC061C3	60 15 46	154 30 56	1.0	.10	10.0	>1.0	1,000	N	N	50	50	150	<2	N
LC062C3	60 17 21	154 37 6	20.0	.10	1.0	>1.0	200	2,000	N	20	20	1,000	<2	N
LC063C3	60 17 30	154 41 54	2.0	.10	5.0	>1.0	500	N	N	N	20	300	<2	N
LC064C3	60 15 32	154 45 57	2.0	.20	5.0	>1.0	500	N	N	200	200	5,000	<2	N
LC069C3	60 25 47	154 34 7	1.5	.50	7.0	>1.0	700	N	N	70	700	700	<2	N
LC070C3	60 24 47	154 59 26	2.0	.20	7.0	>1.0	500	N	N	100	100	200	<2	N
LC074C3	60 23 57	155 4 9	1.5	.50	7.0	>1.0	500	N	N	150	150	300	<2	N
LC075C3	60 25 33	155 3 46	2.0	.20	7.0	>1.0	500	N	N	100	100	200	<2	N
LC076C3	60 27 5	154 2 7	2.0	.50	7.0	1.0	500	N	N	700	700	150	<2	N
LC077C3	60 28 18	154 57 48	1.0	.20	5.0	>1.0	500	N	N	100	100	200	<2	N
LC078C3	60 23 10	154 54 17	2.0	.20	7.0	>1.0	700	100	N	300	300	500	<2	N
LC080C3	60 34 47	154 56 45	1.0	.15	1.0	>1.0	200	N	N	50	300	300	<2	N
LC087C3	60 32 59	155 2 3	3.0	.50	1.0	>1.0	700	N	N	1,000	300	300	<2	N
LC091C3	60 32 16	155 5 25	5.0	.50	1.0	>1.0	700	N	N	500	300	300	<2	N
LC093C3	60 27 44	155 4 20	1.5	.15	5.0	>1.0	500	N	N	50	150	150	<2	N
LC094C3	60 27 44	155 5 21	1.5	.15	3.0	>1.0	500	N	N	50	150	150	<2	N
LC095C3	60 26 45	155 5 8	10.0	.20	5.0	>1.0	1,000	N	N	100	700	700	<2	N

Lake Clark heavy mineral concentrates

sample	S-CD (50)	S-CO (10)	S-CR (20)	S-CU (10)	S-LA (50)	S-MO (10)	S-NB (50)	S-NI (10)	S-PB (20)	S-SB (200)	S-SC (10)	S-SN (20)	S-SR (200)	S-V (20)	S-W (100)
LC001C3	N	<10	50	<10	100	N	<50	<10	N	N	30	150	200	150	200
LC009C3	N	<10	30	10	50	N	<50	<10	N	N	20	100	200	100	N
LC019C3	N	<10	50	10	70	N	<50	<10	N	N	20	<20	300	150	N
LC021C3	N	<10	20	30	150	N	<50	<10	20	N	50	>1,000	<200	50	<100
LC022C3	N	<10	20	<10	70	N	<50	<10	500	N	50	500	<200	200	N
LC026C3	N	<10	20	30	70	N	<50	<10	20	N	20	50	<200	100	N
LC029C3	N	<10	20	30	50	N	100	<10	20	N	50	150	<200	50	N
LC030C3	N	<10	300	20	100	N	50	<10	20	N	50	200	<200	70	N
LC034C3	N	<10	300	30	50	N	100	<10	20	N	>100	30	N	300	<100
LC035C3	N	<10	200	20	50	N	100	<10	<20	N	50	30	<200	200	<100
LC036C3	N	<10	200	20	50	N	150	<10	<20	N	70	30	<200	300	100
LC037C3	N	<10	200	20	50	N	150	<10	20	N	70	30	N	300	100
LC038C3	N	20	700	10	50	N	<50	100	<20	N	50	50	<200	200	<100
LC039C3	N	<10	100	10	50	N	50	<10	<20	N	30	100	<200	150	N
LC040C3	N	20	100	15	200	N	50	20	20	N	50	50	<200	150	N
LC041C3	N	<10	70	10	200	N	50	<10	N	N	30	N	<200	100	N
LC045C3	N	<10	50	<10	150	N	<50	<10	N	N	20	N	<200	70	N
LC046C3	N	10	100	100	50	N	100	<10	70	N	100	100	N	200	<100
LC047C3	N	<10	50	20	150	N	100	<10	<20	N	50	N	300	150	<100
LC051C3	N	<10	100	20	150	N	100	<10	N	N	50	N	200	150	N
LC052C3	N	<10	150	10	50	N	<50	<10	N	N	20	N	200	70	N
LC053C3	N	<10	100	10	100	N	50	<10	N	N	20	70	500	200	N
LC054C3	N	<10	50	10	150	N	50	<10	N	N	20	50	500	150	N
LC056C3	N	<10	70	<10	200	N	<50	<10	N	N	20	200	200	100	N
LC057C3	N	<10	50	<10	200	N	50	<10	<20	N	50	>1,000	200	100	N
LC058C3	N	<10	150	<10	100	N	<50	<10	<20	N	20	200	200	100	200
LC059C3	N	<10	20	10	50	N	50	<10	50	N	20	700	<200	50	N
LC060C3	N	<10	150	10	100	N	200	<10	<20	N	50	<20	200	200	N
LC061C3	N	<10	100	<10	150	N	50	<10	<20	N	20	100	200	150	N
LC062C3	N	20	100	50	100	N	200	<10	200	N	20	20	<200	200	N
LC063C3	N	<10	100	20	100	N	200	<10	30	N	50	100	200	200	<100
LC064C3	N	<10	150	20	100	N	150	<10	50	N	50	100	200	200	<100
LC069C3	N	<10	100	20	150	N	150	<10	20	N	20	700	300	200	2,000
LC071C3	N	<10	100	10	100	N	50	<10	N	N	50	700	200	200	N
LC074C3	N	<10	100	10	100	N	150	<10	<20	N	20	500	200	150	N
LC075C3	N	<10	100	10	100	N	50	<10	20	N	50	700	200	150	N
LC076C3	N	<10	100	10	100	N	50	<10	<20	N	20	<20	200	150	N
LC077C3	N	<10	50	10	200	N	70	<10	N	N	20	N	<200	150	N
LC078C3	N	<10	70	15	150	N	50	<10	N	N	20	500	<200	200	<100
LC086C3	N	<10	100	10	100	N	50	<10	N	N	20	150	<200	150	100
LC087C3	N	<10	100	20	100	N	100	20	N	N	20	1,000	<200	150	500
LC091C3	N	<10	100	20	100	N	100	50	N	N	20	100	<200	150	N
LC093C3	N	<10	100	<10	200	N	150	<10	N	N	20	700	<200	150	N
LC094C3	N	<10	100	<10	150	N	150	<10	N	N	20	700	<200	150	N
LC095C3	N	10	150	50	100	N	50	<10	N	N	50	20	500	150	N

Lake Clark heavy mineral concentrates

sample	S-Y (20)	S-ZN (500)	S-ZR (20)	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	TH (200)
LC001C3	70	N	>1,000	--	--	--	--	--	N
LC009C3	100	N	>1,000	--	--	--	--	--	N
LC019C3	150	N	>1,000	--	--	--	--	--	N
LC021C3	500	N	>1,000	--	--	--	--	--	<200
LC022C3	1,500	N	>1,000	--	--	--	--	--	500
LC026C3	500	N	>1,000	--	--	--	--	--	N
LC029C3	700	N	>1,000	--	--	--	--	--	<200
LC030C3	700	N	>1,000	--	--	--	--	--	N
LC034C3	100	N	>1,000	--	--	--	--	--	N
LC035C3	100	N	>1,000	--	--	--	--	--	N
LC036C3	100	N	>1,000	--	--	--	--	--	N
LC037C3	100	N	>1,000	--	--	--	--	--	N
LC038C3	20	N	>1,000	--	--	--	--	--	N
LC039C3	300	N	>1,000	--	--	--	--	--	N
LC040C3	300	N	>1,000	--	--	--	--	--	N
LC041C3	500	N	>1,000	--	--	--	--	--	N
LC045C3	700	N	>1,000	--	--	--	--	--	N
LC046C3	500	N	>1,000	--	--	--	--	--	N
LC047C3	500	N	>1,000	--	--	--	--	--	N
LC051C3	70	N	>1,000	--	--	--	--	--	N
LC052C3	100	N	>1,000	--	--	--	--	--	N
LC053C3	200	N	>1,000	--	--	--	--	--	N
LC054C3	300	N	>1,000	--	--	--	--	--	N
LC056C3	500	N	>1,000	--	--	--	--	--	N
LC057C3	300	N	>1,000	--	--	--	--	--	N
LC058C3	200	N	>1,000	--	--	--	--	--	N
LC059C3	1,500	N	>1,000	--	--	--	--	--	500
LC060C3	300	N	>1,000	--	--	--	--	--	N
LC061C3	1,000	N	>1,000	--	--	--	--	--	N
LC062C3	150	N	>1,000	--	--	--	--	--	N
LC063C3	500	N	>1,000	--	--	--	--	--	N
LC064C3	500	N	>1,000	--	--	--	--	--	N
LC069C3	300	N	>1,000	--	--	--	--	--	N
LC071C3	500	N	>1,000	--	--	--	--	--	N
LC074C3	300	N	>1,000	--	--	--	--	--	N
LC075C3	700	N	>1,000	--	--	--	--	--	N
LC076C3	500	N	>1,000	--	--	--	--	--	N
LC077C3	200	N	>1,000	--	--	--	--	--	N
LC078C3	1,000	N	>1,000	--	--	--	--	--	N
LC086C3	100	N	>1,000	--	--	--	--	--	N
LC087C3	100	N	>1,000	--	--	--	--	--	N
LC091C3	100	N	>1,000	--	--	--	--	--	N
LC093C3	200	N	>1,000	--	--	--	--	--	N
LC094C3	200	N	>1,000	--	--	--	--	--	N
LC095C3	150	N	>1,000	--	--	--	--	--	N

Lake Clark heavy mineral concentrations--continued

sample	LATITUDE	LONGITUD	S-FEX	S-MGZ	S-CAZ	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
LC097C3	60 24 1	155 7 4	2.0	.50	7.0	>1.0	500	N	N	N	200	200	<2	N
LC100C3	60 26 26	154 55 13	3.0	1.00	7.0	>1.0	700	N	N	N	200	300	<2	N
LC101C3	60 25 27	154 56 56	2.0	1.50	7.0	>1.0	1,000	N	N	N	200	200	<2	N
LC102C3	60 26 16	154 58 50	2.0	.10	2.0	>1.0	200	N	N	N	20	100	<2	N
LC103C3	60 24 12	155 1 35	7.0	3.00	7.0	.7	1,000	N	N	N	200	150	<2	N
LC104C3	60 24 42	155 3 15	2.0	2.00	7.0	>1.0	700	N	N	N	200	100	<2	N
LC105C3	60 26 11	155 3 3	2.0	1.50	7.0	>1.0	700	N	N	N	50	150	<2	N
LC106C3	60 27 44	154 59 48	3.0	2.00	7.0	>1.0	700	N	N	N	150	150	<2	N
LC107C3	60 29 14	154 58 36	1.0	.10	15.0	>1.0	700	N	N	N	<20	100	<2	N
LC108C3	60 28 36	154 52 35	2.0	2.00	10.0	>1.0	700	N	N	N	20	150	<2	N
LC109C3	60 32 52	154 54 19	2.0	.50	2.0	>1.0	500	N	N	N	50	500	<2	N
LC110C3	60 33 20	155 2 0	2.0	.50	5.0	>1.0	500	N	N	N	300	500	<2	N
LC111C3	60 29 35	155 8 52	1.0	.07	15.0	.5	500	N	N	N	10	200	<2	N
LC112C3	60 27 28	155 6 38	2.0	.50	10.0	>1.0	700	N	N	N	70	200	<2	N
LC113C3	60 27 47	155 9 21	1.5	.70	7.0	>1.0	500	N	N	N	70	300	<2	N
LC114C3	60 24 26	155 8 48	3.0	1.50	10.0	>1.0	1,500	N	N	N	200	300	<2	N
LC115C3	60 24 43	154 51 12	2.0	1.50	7.0	>1.0	700	20	N	N	200	100	<2	N
LC118C3	60 22 50	154 57 53	2.0	3.00	7.0	>1.0	700	N	N	N	150	100	<2	N
LC120C3	60 22 6	155 3 59	2.0	3.00	10.0	>1.0	700	N	N	N	300	100	<2	N
LC121C3	60 21 7	155 7 45	2.0	3.00	10.0	>1.0	700	N	N	N	50	70	<2	N
LC122C3	60 20 23	155 11 2	2.0	1.50	10.0	>1.0	500	N	N	N	50	200	<2	N
LC123C3	60 21 52	155 14 0	2.0	1.00	10.0	>1.0	700	N	N	N	200	150	<2	N
LC124C3	60 23 44	155 11 18	2.0	1.00	10.0	>1.0	700	N	N	N	200	300	<2	N
LC127C3	60 16 0	154 40 2	3.0	.30	7.0	>1.0	500	N	N	N	100	1,500	<2	N
LC129C3	60 18 47	154 42 5	2.0	2.00	7.0	>1.0	500	N	N	N	20	200	<2	N
LC130C3	60 20 16	154 47 39	3.0	5.00	7.0	1.0	700	N	N	N	200	150	<2	N
LC132C3	60 21 34	154 45 55	3.0	3.00	7.0	>1.0	700	N	N	N	100	200	<2	N
LC134C3	60 23 39	154 49 50	3.0	.50	5.0	>1.0	700	N	N	N	200	200	<2	N
LC135C3	60 25 45	154 49 29	3.0	2.00	7.0	.7	1,000	N	N	N	100	200	<2	N
LC136C3	60 16 20	154 43 27	2.0	.20	5.0	>1.0	500	N	N	N	50	1,000	<2	N
LC139C3	60 19 23	154 59 9	2.0	3.00	7.0	.7	500	N	N	N	20	100	<2	N
LC141C3	60 17 17	155 2 30	3.0	3.00	7.0	1.0	700	N	N	100	50	70	<2	N
LC145C3	60 13 27	155 11 15	2.0	1.00	7.0	>1.0	700	N	N	N	70	100	<2	N
LC147C3	60 17 31	154 55 36	2.0	3.00	7.0	>1.0	700	N	N	N	50	70	<2	N
LC150C3	60 17 25	154 51 42	2.0	3.00	7.0	1.0	500	N	N	N	150	100	<2	N
LC151C3	60 24 47	154 52 36	2.0	1.50	5.0	>1.0	700	N	N	N	200	200	<2	50
LC152C3	60 24 33	154 53 26	3.0	2.00	7.0	>1.0	700	N	N	N	500	100	<2	100
LC153C3	60 23 35	154 55 35	2.0	2.00	5.0	>1.0	700	4	<500	N	300	100	<2	<20
LC154C3	60 20 59	155 8 40	2.0	2.00	7.0	>1.0	700	N	N	N	300	100	<2	N
LC155C3	60 20 12	155 12 25	2.0	2.00	7.0	>1.0	700	N	N	N	100	200	<2	N
LC156C3	60 22 44	155 14 35	2.0	1.00	10.0	>1.0	700	N	N	N	200	100	<2	N
LC158C3	60 20 3	154 48 15	2.0	3.00	7.0	>1.0	700	N	N	N	50	150	<2	N
LC159C3	60 25 50	154 50 2	3.0	3.00	7.0	1.0	700	N	N	N	100	150	<2	N
LC161C3	60 19 55	154 55 35	2.0	3.00	7.0	.7	700	N	N	N	<20	50	<2	N
LC162C3	60 13 0	155 10 53	2.0	1.00	7.0	>1.0	700	N	N	N	20	100	<2	N

Lake Clark heavy mineral concentrates--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
LC097C3	N	<10	200	10	100	N	50	<10	N	N	50	500	200	150	N
LC100C3	N	<10	300	20	150	N	50	30	N	N	20	100	200	150	N
LC101C3	N	<10	500	10	100	N	50	20	<20	N	50	700	200	200	N
LC102C3	N	<10	30	<10	70	N	50	<10	N	N	20	70	200	100	N
LC103C3	N	15	500	15	50	N	<50	50	20	N	50	50	200	200	N
LC104C3	N	<10	700	100	50	N	50	20	20	N	50	150	200	200	N
LC105C3	N	<10	500	20	50	N	<50	20	<20	N	50	150	200	200	100
LC106C3	N	<10	700	20	50	N	<50	20	<20	N	50	200	200	200	N
LC107C3	N	<10	100	20	200	N	50	10	20	N	20	50	300	150	N
LC108C3	N	<10	500	20	150	N	50	<10	10	N	20	<20	200	200	N
LC109C3	N	<10	150	20	100	N	<50	<10	10	N	15	N	200	200	N
LC110C3	N	<10	150	20	100	N	<50	<10	10	N	15	70	700	150	<100
LC111C3	N	<10	<20	10	500	N	<50	<10	<20	N	20	50	500	50	N
LC112C3	N	<10	200	20	150	N	<50	10	<20	N	20	70	500	150	N
LC113C3	N	<10	200	20	100	N	<50	<10	<20	N	30	150	300	150	<100
LC114C3	N	<10	500	15	200	N	<50	10	<20	N	50	50	200	150	N
LC115C3	N	<10	700	30	50	N	50	20	700	N	30	>1,000	<200	150	150
LC118C3	N	<10	1,000	20	50	N	<50	30	30	N	50	200	<200	150	N
LC120C3	N	<10	700	20	50	N	50	50	20	N	50	100	200	200	100
LC121C3	N	10	1,500	15	50	N	<50	50	10	N	50	150	200	150	N
LC122C3	N	<10	500	15	200	N	<50	20	20	N	50	20	200	150	N
LC123C3	N	<10	300	20	200	N	<50	<10	<20	N	50	<20	200	150	N
LC124C3	N	<10	300	20	200	N	<50	<10	<20	N	50	100	200	150	N
LC127C3	N	<10	50	20	150	N	100	<10	50	N	50	N	200	100	N
LC129C3	N	<10	700	20	100	N	50	10	30	N	70	20	200	200	N
LC130C3	N	10	1,500	30	100	N	<50	50	<20	N	70	20	200	200	500
LC132C3	N	<10	1,000	20	50	N	<50	30	10	N	70	<20	200	200	N
LC134C3	N	<10	200	10	1,000	N	<50	<10	30	N	30	>1,000	200	150	N
LC135C3	N	<10	700	15	50	N	<50	20	<20	N	20	50	<200	150	N
LC136C3	N	<10	100	15	100	N	100	<10	70	N	30	150	200	150	N
LC139C3	N	<10	700	10	50	N	<50	50	<20	N	30	20	200	100	N
LC141C3	N	<10	700	10	50	N	<50	20	10	N	20	100	300	150	N
LC145C3	N	<10	500	10	150	N	100	<10	10	N	20	150	200	150	N
LC147C3	N	<10	700	10	100	N	<50	20	10	N	50	150	<200	150	N
LC150C3	N	<10	1,000	10	50	N	<50	50	10	N	50	150	<200	150	N
LC151C3	N	<10	500	15	100	N	70	<10	50	N	30	20	<200	200	N
LC152C3	N	<10	700	15	50	N	50	20	10	N	30	500	<200	150	<100
LC153C3	N	<10	700	20	100	N	<50	20	200	N	30	>1,000	<200	150	150
LC154C3	N	<10	700	10	150	N	<50	20	30	N	30	700	200	150	<100
LC155C3	N	<10	700	10	150	N	<50	20	10	N	30	300	200	150	N
LC156C3	N	<10	300	<10	200	N	<50	<10	<20	N	30	300	200	150	N
LC158C3	N	<10	700	10	150	N	<50	20	20	N	30	50	200	150	200
LC159C3	N	<10	700	15	50	N	<50	20	50	N	30	>1,000	200	150	N
LC161C3	N	<10	1,000	10	50	N	<50	50	<20	N	30	50	300	100	N
LC162C3	N	<10	300	10	150	N	<50	<10	20	N	20	70	300	150	N



Lake Clark heavy mineral concentrates--continued

sample	S-Y	S-ZN	S-ZR	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	TH
LC097C3	500	N	>1,000	--	--	--	--	--	N
LC100C3	200	N	>1,000	--	--	--	--	--	N
LC101C3	200	N	>1,000	--	--	--	--	--	N
LC102C3	300	N	>1,000	--	--	--	--	--	N
LC103C3	50	N	>1,000	--	--	--	--	--	N
LC104C3	300	N	>1,000	--	--	--	--	--	N
LC105C3	150	N	>1,000	--	--	--	--	--	N
LC106C3	200	N	>1,000	--	--	--	--	--	N
LC107C3	700	N	>1,000	--	--	--	--	--	N
LC108C3	300	N	>1,000	--	--	--	--	--	N
LC109C3	100	N	>1,000	--	--	--	--	--	N
LC110C3	100	N	>1,000	--	--	--	--	--	N
LC111C3	300	N	>1,000	--	--	--	--	--	200
LC112C3	300	N	>1,000	--	--	--	--	--	N
LC113C3	200	N	>1,000	--	--	--	--	--	N
LC114C3	300	N	>1,000	--	--	--	--	--	N
LC115C3	200	N	>1,000	--	--	--	--	--	N
LC118C3	200	N	>1,000	--	--	--	--	--	N
LC120C3	200	N	>1,000	--	--	--	--	--	N
LC121C3	100	N	>1,000	--	--	--	--	--	N
LC122C3	200	N	>1,000	--	--	--	--	--	N
LC123C3	300	N	>1,000	--	--	--	--	--	N
LC124C3	300	N	>1,000	--	--	--	--	--	N
LC127C3	200	N	>1,000	--	--	--	--	--	N
LC129C3	150	N	>1,000	--	--	--	--	--	N
LC130C3	100	N	>1,000	--	--	--	--	--	N
LC132C3	50	N	>1,000	--	--	--	--	--	N
LC134C3	500	N	>1,000	--	--	--	--	--	N
LC135C3	70	N	700	--	--	--	--	--	N
LC136C3	200	N	>1,000	--	--	--	--	--	N
LC139C3	50	N	>1,000	--	--	--	--	--	N
LC141C3	100	N	>1,000	--	--	--	--	--	N
LC145C3	200	N	>1,000	--	--	--	--	--	N
LC147C3	150	N	>1,000	--	--	--	--	--	N
LC150C3	100	N	>1,000	--	--	--	--	--	N
LC151C3	100	N	>1,000	--	--	--	--	--	N
LC152C3	100	N	>1,000	--	--	--	--	--	N
LC153C3	100	N	>1,000	--	--	--	--	--	N
LC154C3	100	N	>1,000	--	--	--	--	--	N
LC155C3	200	N	>1,000	--	--	--	--	--	N
LC156C3	200	N	>1,000	--	--	--	--	--	N
LC158C3	150	N	>1,000	--	--	--	--	--	N
LC159C3	70	N	>1,000	--	--	--	--	--	N
LC161C3	70	N	1,000	--	--	--	--	--	N
LC162C3	200	N	>1,000	--	--	--	--	--	N

Lake Clark heavy mineral concentrates--continued

sample	LATITUDE	LONGITUDE	S-FEZ	S-MGZ	S-CAZ	S-TIZ	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
LC163C3	60 17 39	154 56 21	3.0	3.00	7.0	1.0	700	N	N	N	20	50	<2	N
LC164C3	60 16 50	154 52 27	2.0	1.50	7.0	>1.0	700	N	2,000	200	200	1,500	<2	N
LC166C3	60 12 56	155 1 28	2.0	1.00	7.0	>1.0	700	N	N	N	200	1,000	<2	N
LC167C3	60 14 27	154 55 51	2.0	.70	7.0	>1.0	700	N	N	20	100	700	<2	N
LC173C3	60 48 42	154 29 45	2.0	1.00	5.0	.5	500	N	N	70	1,000	100	<2	N
LC174C3	60 46 46	154 27 17	2.0	.70	7.0	1.0	700	N	N	N	700	100	<2	N
LC175C3	60 46 27	154 27 16	3.0	1.00	2.0	1.0	500	N	N	N	2,000	200	<2	20
LC176C3	60 45 47	154 27 51	2.0	1.00	5.0	>1.0	700	N	N	N	2,000	150	<2	N
LC177C3	60 45 57	154 30 42	5.0	1.00	5.0	>1.0	700	N	>10,000	30	700	200	<2	<20
LC178C3	60 44 4	154 31 41	2.0	3.00	10.0	1.0	1,000	N	N	N	500	200	<2	N
LC179C3	60 43 33	154 32 26	7.0	1.50	2.0	.5	700	N	N	N	>2,000	500	<2	20
LC180C3	60 43 0	154 32 57	10.0	3.00	2.0	1.0	700	20	5,000	20	>2,000	200	<2	1,000
LC181C3	60 42 33	154 33 55	2.0	1.00	5.0	1.0	500	N	N	N	1,000	200	<2	<20
LC182C3	60 42 29	154 41 48	3.0	1.00	7.0	1.0	1,000	10	N	100	700	3,000	<2	N
LC183C3	60 41 22	154 29 17	3.0	1.00	7.0	>1.0	700	N	N	<20	150	200	<2	H
LC185C3	60 38 47	154 27 59	3.0	1.00	7.0	>1.0	700	N	N	<20	150	>5,000	<2	N
LC186C3	60 38 12	154 30 5	2.0	1.00	7.0	.5	1,000	N	N	N	70	2,000	<2	N
LC187C3	60 37 27	154 37 59	3.0	2.00	10.0	>1.0	1,000	N	N	N	100	200	<2	N
LC188C3	60 42 56	154 19 59	3.0	3.00	10.0	>1.0	1,000	N	N	N	50	200	<2	N
LC189C3	60 43 14	154 35 58	2.0	1.00	7.0	1.0	1,000	N	N	N	1,000	200	<2	N
LC190C3	60 44 16	154 21 39	5.0	2.00	5.0	.5	1,000	N	5,000	N	300	700	<2	N
LC191C3	60 47 30	154 15 47	3.0	2.00	10.0	1.0	1,000	N	N	N	100	200	<2	N
LC192C3	60 46 49	154 13 14	3.0	3.00	10.0	.7	1,000	N	N	N	50	200	<2	N
LC193C3	60 45 29	154 5 7	5.0	3.00	7.0	.5	1,000	N	N	N	100	300	<2	N
LC194C3	60 50 16	154 8 4	3.0	1.00	7.0	.7	700	N	N	30	100	200	<2	N
LC195C3	60 50 30	154 7 20	3.0	1.00	7.0	.7	700	N	N	N	70	200	<2	N
LC196C3	60 51 11	154 9 53	3.0	1.50	7.0	1.0	1,000	N	N	20	20	200	<2	N
LC197C3	60 51 15	154 5 40	3.0	1.00	7.0	>1.0	1,000	N	N	N	70	150	<2	N
LC198C3	60 51 51	154 4 40	3.0	1.00	7.0	>1.0	1,000	30	N	500	50	150	<2	N
LC199C3	60 52 46	154 2 12	3.0	1.00	7.0	>1.0	1,000	N	N	<20	50	200	<2	N
LC200C3	60 42 52	154 36 6	3.0	1.50	2.0	.7	700	10	N	N	2,000	500	<2	20
LC201C3	60 42 2	154 39 17	2.0	1.00	5.0	.5	1,000	N	N	N	150	300	<2	N
LC202C3	60 41 45	154 41 30	2.0	1.00	5.0	1.0	700	N	N	N	200	500	<2	N
LC203C3	60 49 41	154 20 4	2.0	1.50	7.0	>1.0	700	50	2,000	200	1,000	300	<2	H
LC204C3	60 48 43	154 19 32	2.0	1.50	7.0	>1.0	1,000	N	700	N	150	200	<2	N
LC205C3	60 39 59	154 16 55	2.0	1.00	7.0	>1.0	700	N	N	N	70	300	<2	N
LC206C3	60 39 47	154 15 8	3.0	1.50	7.0	1.0	700	N	N	N	20	200	<2	N
LC207C3	60 40 32	154 11 36	2.0	1.00	5.0	.5	500	N	N	N	70	500	<2	N
LC208C3	60 40 18	154 10 56	2.0	1.50	5.0	.7	500	N	N	N	20	500	<2	N
LC209C3	60 43 56	154 22 54	3.0	2.00	7.0	.7	1,000	N	N	N	200	500	<2	N
LC210C3	60 42 43	154 37 27	2.0	1.00	7.0	1.0	500	N	N	N	200	200	<2	N
LC211C3	60 42 24	154 36 28	2.0	1.00	5.0	1.0	1,000	200	N	>500	200	1,500	<2	N
LC212C3	60 45 20	154 28 9	3.0	3.00	7.0	.7	1,000	50	500	200	500	500	<2	N
LC213C3	60 1 24	155 30 53	3.0	2.00	10.0	1.0	1,500	N	N	N	20	150	<2	N
LC214C3	60 1 2	155 38 7	5.0	3.00	10.0	1.0	1,000	N	N	N	50	150	<2	N

Lake Clark heavy mineral concentrates--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
LC163C3	N	<10	700	10	50	N	<50	20	<20	N	30	<20	500	150	N
LC164C3	N	<10	500	100	100	N	50	10	30	N	20	100	200	150	N
LC166C3	N	<10	200	200	100	N	<50	10	<20	N	30	<20	200	150	150
LC167C3	N	<10	200	15	100	N	<50	<10	20	N	30	<20	200	150	<100
LC173C3	N	<10	300	20	100	N	<50	20	50	N	30	>1,000	<200	100	2,000
LC174C3	N	<10	200	15	150	N	50	15	<20	N	30	1,000	200	150	3,000
LC175C3	N	<10	200	20	50	N	50	10	20	N	30	>1,000	200	200	500
LC176C3	N	<10	200	20	150	N	<50	<10	70	N	30	>1,000	200	150	200
LC177C3	N	50	300	200	100	N	50	100	20	N	30	>1,000	200	200	5,000
LC178C3	N	10	1,000	10	200	20	50	30	100	N	30	700	200	150	<100
LC179C3	N	10	200	100	50	N	<50	50	150	N	20	1,000	200	200	100
LC180C3	N	20	500	150	50	N	50	100	150	N	30	>1,000	200	500	2,000
LC181C3	N	<10	200	30	100	N	<50	20	<20	N	20	1,000	200	100	200
LC182C3	N	<10	100	10	300	N	<50	20	<20	N	30	500	300	150	N
LC183C3	N	<10	300	20	150	N	50	20	30	N	30	150	200	200	N
LC185C3	N	<10	150	10	100	N	<50	<10	<20	N	30	70	200	100	N
LC186C3	N	<10	150	10	200	N	<50	20	N	N	20	N	300	100	N
LC187C3	N	<10	700	10	200	N	<50	30	<20	N	30	700	200	150	N
LC189C3	N	10	700	10	70	N	<50	50	<20	N	30	N	200	200	N
LC189C3	N	<10	200	10	300	N	50	20	50	N	30	1,000	300	150	200
LC190C3	N	30	300	20	70	N	<50	100	20	N	20	200	200	150	300
LC191C3	N	10	500	10	100	N	50	50	50	N	20	20	300	150	N
LC192C3	N	10	700	10	300	N	<50	70	20	N	30	<20	300	200	N
LC193C3	N	10	300	10	100	N	<50	50	20	N	20	70	300	150	N
LC194C3	N	<10	200	<10	70	N	50	20	20	N	20	150	300	100	N
LC195C3	N	<10	200	10	150	N	50	20	<20	N	20	N	200	100	N
LC196C3	N	<10	500	10	200	N	50	20	<20	N	30	200	200	100	200
LC197C3	N	<10	300	300	200	N	50	20	20	N	30	500	<200	150	100
LC198C3	N	<10	300	300	300	N	50	20	20	N	30	30	<200	150	N
LC199C3	N	<10	300	300	300	N	50	20	200	N	30	50	<200	200	N
LC200C3	N	<10	200	200	200	N	<50	30	70	N	30	500	200	200	100
LC201C3	N	10	200	200	100	N	<50	30	200	N	30	N	200	150	N
LC202C3	N	<10	200	200	100	N	<50	20	<20	N	30	200	200	100	N
LC203C3	N	20	500	500	100	N	50	20	30	N	30	N	200	200	2,000
LC204C3	N	<10	500	500	200	N	<50	20	50	N	30	>1,000	200	150	<100
LC205C3	N	<10	200	200	200	N	<50	20	<20	N	30	200	200	150	N
LC206C3	N	<10	500	500	100	N	<50	20	20	N	30	N	200	150	N
LC207C3	N	<10	100	100	50	N	<50	20	<20	N	20	N	200	100	N
LC208C3	N	<10	200	200	100	N	<50	20	<20	N	20	100	200	100	N
LC209C3	N	15	500	500	300	N	<50	50	<20	N	30	200	200	150	2,000
LC210C3	N	<10	200	200	300	N	<50	20	<20	N	30	>1,000	200	100	150
LC211C3	N	<10	200	200	150	N	<50	20	<20	N	20	300	300	150	N
LC212C3	N	15	700	700	500	N	50	50	200	N	30	>1,000	200	200	5,000
LC213C3	N	10	500	10	50	N	<50	50	<20	N	30	N	300	150	N
LC214C3	N	10	700	10	100	N	<50	50	20	N	50	50	300	200	N

Lake Clark heavy mineral concentrates--continued

sample	S-Y	S-ZN	S-ZR	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	TH
LC16303	50	N	700	--	--	--	--	--	N
LC16403	150	N	>1,000	--	--	--	--	--	N
LC16603	150	N	>1,000	--	--	--	--	--	N
LC16703	150	N	>1,000	--	--	--	--	--	N
LC17303	300	N	>1,000	--	--	--	--	--	<200
LC17403	300	N	>1,000	--	--	--	--	--	N
LC17503	100	N	>1,000	--	--	--	--	--	<200
LC17603	500	N	>1,000	--	--	--	--	--	200
LC17703	300	N	>1,000	--	--	--	--	--	200
LC17803	150	N	>1,000	--	--	--	--	--	N
LC17903	50	N	>1,000	--	--	--	--	--	N
LC18003	200	N	>1,000	--	--	--	--	--	N
LC18103	200	N	>1,000	--	--	--	--	--	N
LC18203	200	N	>1,000	--	--	--	--	--	N
LC18303	200	N	>1,000	--	--	--	--	--	N
LC18503	300	N	>1,000	--	--	--	--	--	N
LC18603	70	N	>1,000	--	--	--	--	--	N
LC18703	700	N	>1,000	--	--	--	--	--	N
LC18803	500	N	>1,000	--	--	--	--	--	N
LC18903	200	N	>1,000	--	--	--	--	--	N
LC19003	100	N	>1,000	--	--	--	--	--	N
LC19103	200	N	>1,000	--	--	--	--	--	N
LC19203	200	N	>1,000	--	--	--	--	--	N
LC19303	200	N	>1,000	--	--	--	--	--	N
LC19403	500	N	>1,000	--	--	--	--	--	N
LC19503	500	N	>1,000	--	--	--	--	--	N
LC19603	1,000	N	>1,000	--	--	--	--	--	N
LC19703	1,500	N	>1,000	--	--	--	--	--	200
LC19803	1,500	N	>1,000	--	--	--	--	--	200
LC19903	1,000	N	>1,000	--	--	--	--	--	<200
LC20003	200	N	>1,000	--	--	--	--	--	N
LC20103	500	N	>1,000	--	--	--	--	--	N
LC20203	200	N	>1,000	--	--	--	--	--	N
LC20303	500	N	>1,000	--	--	--	--	--	N
LC20403	300	N	>1,000	--	--	--	--	--	N
LC20503	700	N	>1,000	--	--	--	--	--	N
LC20603	200	N	>1,000	--	--	--	--	--	N
LC20703	100	N	>1,000	--	--	--	--	--	N
LC20803	200	N	>1,000	--	--	--	--	--	N
LC20903	200	N	>1,000	--	--	--	--	--	N
LC21003	700	N	>1,000	--	--	--	--	--	N
LC21103	150	N	>1,000	--	--	--	--	--	<200
LC21203	300	N	>1,000	--	--	--	--	--	N
LC21303	100	N	>1,000	--	--	--	--	--	N
LC21403	150	N	>1,000	--	--	--	--	--	N

Lake Clark heavy mineral concentrations--continued

sample	LATITUDE	LONGITUD	S-FEZ	S-MG%	S-CAZ	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
LC215C3	60 0 43	155 41 35	2.0	3.00	10.0	1.0	1,000	N	N	N	20	100	<2	N
LC216C3	60 0 56	155 52 31	2.0	3.00	10.0	>1.0	1,000	N	N	N	20	200	<2	N
LC217C3	60 0 23	155 57 20	2.0	1.50	10.0	>1.0	1,000	N	N	N	50	100	<2	N
LC218C3	60 5 8	155 36 50	3.0	3.00	10.0	1.0	1,000	N	N	N	30	100	<2	N
LC219C3	60 5 8	155 30 37	3.0	2.00	10.0	1.0	700	N	N	N	50	150	<2	N
LC220C3	60 5 30	155 30 8	2.0	2.00	10.0	>1.0	700	N	N	N	50	200	<2	N
LC222C3	60 56 57	155 13 13	2.0	1.00	10.0	>1.0	700	N	N	N	70	200	<2	N
LC223C3	60 52 45	155 23 54	2.0	1.00	10.0	>1.0	700	N	N	N	100	300	<2	N
LC224C3	60 53 44	154 53 16	2.0	1.00	7.0	>1.0	1,000	N	N	N	50	300	<2	N
LC225C3	60 34 6	155 30 42	2.0	1.00	10.0	>1.0	700	N	N	N	200	200	<2	N
LC226C3	60 31 50	155 33 34	2.0	1.00	7.0	1.0	700	N	N	N	200	200	<2	N
LC227C3	60 30 56	155 37 46	1.0	1.00	7.0	1.0	500	N	N	N	100	100	<2	N
LC228C3	60 33 59	155 45 43	2.0	.50	7.0	1.0	700	N	N	N	200	200	<2	N
LC229C3	60 36 57	155 45 0	2.0	.70	7.0	1.0	700	N	N	20	200	200	<2	N
LC230C3	60 38 21	155 42 10	2.0	1.00	7.0	>1.0	700	N	N	N	150	200	<2	N
LC231C3	60 41 3	155 46 46	1.5	1.00	7.0	>1.0	300	N	N	N	150	200	<2	N
LC232C3	60 39 17	155 50 52	2.0	.70	7.0	>1.0	700	N	N	N	200	200	<2	N
LC233C3	60 36 39	155 53 44	3.0	.20	.2	>1.0	200	N	N	N	100	700	<2	N
LC235C3	60 35 17	155 55 54	5.0	.30	.3	>1.0	700	N	N	N	100	1,000	<2	N
LC236C3	60 33 19	155 56 11	10.0	.15	.3	1.0	1,000	N	N	N	100	700	<2	N
LC237C3	60 36 05	155 52 20	3.0	0.5	5.0	>1.0	700	N	N	N	200	200	<2	N
LC237C3	60 32 57	155 53 52	5.0	.70	2.0	>1.0	500	N	N	N	200	300	<2	N
LC238C3	60 31 20	155 58 8	5.0	.70	1.0	>1.0	700	10	N	50	1,000	500	2	N
LC240C3	60 9 35	155 10 2	5.0	2.00	7.0	1.0	700	N	N	N	50	100	<2	N
LC241C3	60 8 47	155 4 27	3.0	1.50	20.0	1.0	1,000	N	N	N	20	100	<2	N
LC242C3	60 9 53	155 1 45	2.0	1.50	7.0	1.0	1,000	N	N	N	30	50	<2	N
LC243C3	60 10 50	155 14 12	10.0	2.00	7.0	>1.0	1,500	N	N	N	50	200	<2	N
LC244C3	60 11 31	155 18 2	3.0	1.50	7.0	1.0	1,000	N	N	N	50	100	<2	<20
LC245C3	60 2 41	155 10 55	2.0	1.50	7.0	>1.0	1,000	N	N	N	50	2,000	<2	N
LC246C3	60 3 17	155 6 56	5.0	1.50	7.0	.7	1,000	N	N	N	20	300	<2	N
LC247C3	60 4 35	154 55 54	3.0	2.00	7.0	1.0	1,000	N	N	N	<20	150	<2	N
LC248C3	60 6 47	155 29 3	3.0	2.00	7.0	1.0	1,000	N	N	N	100	150	<2	N
LC247C3	60 7 47	155 35 48	3.0	3.00	7.0	1.0	1,000	N	N	N	50	100	<2	N
LC250C3	60 11 26	155 46 55	2.0	2.00	10.0	1.0	1,000	N	N	N	50	100	<2	N
LC251C3	60 9 47	155 58 58	3.0	2.00	10.0	>1.0	1,000	N	N	N	50	100	<2	N
LC252C3	60 12 38	155 58 45	3.0	2.00	10.0	>1.0	1,000	N	N	N	200	100	<2	N
LC253C3	60 15 2	155 58 5	2.0	2.00	7.0	.7	1,000	N	N	N	70	100	<2	N
LC254C3	60 17 52	155 58 24	2.0	1.00	7.0	>1.0	700	N	N	N	70	100	<2	N
LC255C3	60 18 57	155 55 18	2.0	1.50	7.0	>1.0	700	N	N	N	70	50	<2	N
LC256C3	60 25 50	155 59 34	3.0	2.00	7.0	1.0	1,000	N	N	N	200	200	<2	N
LC257C3	60 27 29	155 58 26	3.0	1.00	5.0	.5	1,000	N	N	N	1,000	300	2	100
LC253C3	60 28 15	155 57 56	3.0	1.50	1.5	.5	500	N	N	N	>2,000	200	2	200
LC259C3	60 20 21	155 57 56	5.0	3.00	7.0	.5	1,500	N	N	N	100	100	<2	N
LC260C3	60 1 14	155 24 24	2.0	2.00	10.0	>1.0	1,000	N	N	N	20	100	<2	N
LC261C3	60 1 54	155 15 33	3.0	2.00	7.0	>1.0	1,000	N	N	N	<20	150	<2	N
LC262C3	60 1 18	154 49 59	2.0	2.00	7.0	1.0	1,000	N	N	N	<20	200	<2	N

Lake Clark heavy mineral concentrates--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
LC215C3	N	10	700	10	150	N	<50	50	<20	N	30	50	300	200	N
LC216C3	N	10	700	10	150	N	<50	30	<20	N	30	N	300	150	N
LC217C3	N	<10	300	10	150	N	50	20	20	N	30	150	200	150	N
LC218C3	N	15	1,000	<10	100	N	<50	50	<20	N	50	50	200	150	N
LC219C3	N	15	700	20	100	N	<50	50	20	N	30	N	200	150	N
LC220C3	N	10	1,000	10	50	N	<50	50	20	N	30	N	300	150	N
LC222C3	N	<10	300	10	200	N	<50	20	<20	N	50	100	200	150	N
LC223C3	N	<10	200	10	300	N	50	20	<20	N	30	50	500	150	100
LC224C3	N	<10	200	10	300	N	50	20	<20	N	30	200	200	150	<100
LC225C3	N	<10	200	<10	150	N	<50	20	<20	N	20	200	300	150	N
LC226C3	N	<10	200	<10	100	N	<50	20	<20	N	30	30	300	150	N
LC227C3	N	<10	200	<10	100	N	<50	<10	<20	N	30	70	200	100	N
LC228C3	N	<10	150	<10	500	N	<50	<10	20	N	30	200	300	100	N
LC229C3	N	<10	200	<10	700	N	50	<10	<20	N	30	70	300	100	100
LC230C3	N	<10	300	10	>1,000	N	50	<10	<20	N	30	150	300	100	N
LC231C3	N	<10	300	10	500	N	<50	<10	30	N	50	70	200	100	N
LC232C3	N	<10	200	10	700	N	50	<10	30	N	50	150	500	150	N
LC233C3	N	<10	150	50	200	N	50	<10	100	N	50	150	200	150	N
LC235C3	N	10	150	100	500	N	100	<10	100	N	50	500	300	200	<100
LC236C3	N	15	100	50	>1,000	N	<50	50	30	N	20	100	200	200	N
LC234C3	N	<10	200	10	1,000	N	<50	<10	30	N	30	>1,000	200	150	N
LC237C3	N	<10	300	20	>1,000	N	50	<10	20	N	20	1,000	200	150	N
LC233C3	N	<10	150	30	300	N	<50	<10	20	N	30	>1,000	200	200	<100
LC240C3	N	<10	300	15	150	N	<50	<10	20	N	30	500	200	200	N
LC241C3	N	<10	200	15	150	N	<50	10	20	N	20	20	500	200	N
LC242C3	N	<10	150	15	150	N	<50	<10	<20	N	20	30	200	200	N
LC243C3	N	10	500	15	100	N	<50	20	20	N	20	30	300	200	N
LC244C3	N	<10	200	10	100	N	<50	<10	20	N	20	50	200	200	N
LC245C3	N	10	500	100	150	N	<50	<10	100	N	30	50	300	200	N
LC246C3	N	10	300	10	70	N	<50	20	<20	N	20	N	300	200	N
LC247C3	N	10	700	<10	70	N	<50	10	<20	N	30	<20	200	200	N
LC243C3	N	10	700	10	100	N	<50	50	<20	N	30	100	300	150	N
LC249C3	N	10	700	<10	50	N	<50	50	N	N	30	20	200	150	N
LC250C3	N	<10	700	<10	150	N	<50	30	<20	N	30	20	300	150	N
LC251C3	N	10	700	10	150	N	<50	150	<20	N	30	100	300	150	100
LC252C3	N	10	700	10	150	N	<50	30	<20	N	30	200	300	150	N
LC253C3	N	10	300	<10	50	N	<50	20	<20	N	20	20	300	150	N
LC254C3	N	10	300	10	150	N	<50	20	<20	N	30	700	200	150	N
LC255C3	N	10	500	10	100	N	<50	20	<20	N	30	200	200	150	N
LC256C3	N	10	300	10	150	N	<50	20	<20	N	30	700	500	150	N
LC257C3	N	<10	150	10	150	N	<50	20	100	N	20	1,000	200	200	<100
LC258C3	N	<10	150	100	300	N	<50	30	700	N	20	>1,000	200	200	<100
LC259C3	N	15	500	30	50	N	<50	50	20	N	30	>1,000	200	200	N
LC260C3	N	10	500	15	200	N	100	20	20	N	30	200	200	150	N
LC261C3	N	10	700	50	100	N	<50	20	<20	N	30	20	200	200	N
LC262C3	N	10	700	<10	100	N	<50	20	<20	N	30	20	200	150	N

Lake Clark heavy mineral concentrates--continued

sample	S-Y	S-ZN	S-ZR	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	TH
LC215C3	150	N	>1,000	--	--	--	--	--	N
LC216C3	100	N	>1,000	--	--	--	--	--	N
LC217C3	300	N	>1,000	--	--	--	--	--	N
LC218C3	200	N	>1,000	--	--	--	--	--	N
LC219C3	100	N	>1,000	--	--	--	--	--	N
LC220C3	150	N	>1,000	--	--	--	--	--	N
LC222C3	700	N	>1,000	--	--	--	--	--	N
LC223C3	300	N	>1,000	--	--	--	--	--	N
LC224C3	700	N	>1,000	--	--	--	--	--	N
LC225C3	300	N	>1,000	--	--	--	--	--	N
LC226C3	200	N	>1,000	--	--	--	--	--	N
LC227C3	200	N	>1,000	--	--	--	--	--	N
LC228C3	200	N	>1,000	--	--	--	--	--	N
LC229C3	500	N	>1,000	--	--	--	--	--	<200
LC230C3	700	N	>1,000	--	--	--	--	--	200
LC231C3	500	N	>1,000	--	--	--	--	--	N
LC232C3	500	N	>1,000	--	--	--	--	--	N
LC233C3	70	N	1,000	--	--	--	--	--	N
LC235C3	100	N	1,000	--	--	--	--	--	N
LC236C3	200	N	>1,000	--	--	--	--	--	<200
LC237C3	500	N	>1,000	--	--	--	--	--	N
LC238C3	200	N	>1,000	--	--	--	--	--	N
LC239C3	150	N	>1,000	--	--	--	--	--	N
LC240C3	100	N	>1,000	--	--	--	--	--	N
LC241C3	100	N	>1,000	--	--	--	--	--	N
LC242C3	150	N	>1,000	--	--	--	--	--	N
LC243C3	100	N	>1,000	--	--	--	--	--	N
LC244C3	70	N	>1,000	--	--	--	--	--	N
LC245C3	150	500	>1,000	--	--	--	--	--	N
LC246C3	50	N	1,000	--	--	--	--	--	N
LC247C3	70	N	>1,000	--	--	--	--	--	N
LC248C3	100	N	>1,000	--	--	--	--	--	N
LC249C3	100	N	>1,000	--	--	--	--	--	N
LC250C3	200	N	>1,000	--	--	--	--	--	N
LC251C3	150	N	>1,000	--	--	--	--	--	N
LC252C3	150	N	>1,000	--	--	--	--	--	N
LC253C3	70	N	>1,000	--	--	--	--	--	N
LC254C3	200	N	>1,000	--	--	--	--	--	N
LC255C3	150	N	>1,000	--	--	--	--	--	N
LC256C3	150	N	>1,000	--	--	--	--	--	N
LC257C3	50	N	>1,000	--	--	--	--	--	N
LC258C3	50	N	>1,000	--	--	--	--	--	N
LC259C3	50	N	>1,000	--	--	--	--	--	N
LC260C3	150	N	>1,000	--	--	--	--	--	N
LC261C3	150	N	>1,000	--	--	--	--	--	N
LC262C3	150	N	>1,000	--	--	--	--	--	N

Lake Clark heavy mineral concentrations--continued

sample	LATITUDE	LONGITUD	S-FEX	S-MGX	S-CAZ	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
LC263C3	60 3 12	154 47 2	2.0	2.00	7.0	1.0	1,000	N	N	N	<20	150	<2	N
LC264C3	60 34 37	155 38 3	2.0	1.00	7.0	1.0	1,500	N	N	N	150	300	<2	N
LC265C3	60 59 17	154 44 47	2.0	.70	7.0	.5	700	10	N	N	50	300	<2	N
LC266C3	60 59 26	154 48 39	10.0	3.00	5.0	.5	1,500	N	N	N	20	200	<2	N
LC267C3	60 55 32	154 48 57	3.0	2.00	10.0	.7	1,000	N	N	N	50	300	<2	N
LC268C3	60 52 40	154 48 56	2.0	.70	7.0	.7	700	N	N	N	50	200	<2	N
LC269C3	60 49 33	155 37 9	2.0	.70	5.0	>1.0	700	N	N	N	300	300	<2	N
LC270C3	60 47 52	155 35 4	2.0	.50	5.0	>1.0	700	N	N	N	200	300	<2	N
LC271C3	60 46 14	155 38 12	2.0	.50	7.0	>1.0	700	N	N	N	150	300	<2	N
LC272C3	60 43 5	155 35 11	2.0	.50	5.0	>1.0	1,000	N	N	<20	200	500	<2	N
LC273C3	60 43 38	155 28 9	2.0	.50	5.0	>1.0	500	N	N	N	200	300	<2	N
LC274C3	60 44 18	155 22 23	2.0	.50	5.0	>1.0	700	N	N	N	100	200	<2	N
LC275C3	60 17 27	153 57 42	2.0	.50	5.0	.7	700	20	N	N	20	500	<2	N
LC276C3	60 16 44	153 44 57	2.0	.10	5.0	>1.0	500	N	N	N	30	1,500	<2	N
LC277C3	60 16 13	153 49 9	2.0	.20	3.0	>1.0	1,000	N	N	N	20	5,000	<2	N
LC278C3	60 15 15	153 52 23	3.0	.15	7.0	1.0	700	5	N	N	150	1,500	<2	N
LC279C3	60 15 41	153 34 1	5.0	.50	5.0	>1.0	700	10	N	N	<20	1,500	<2	200
LC280C3	60 16 9	153 55 42	.7	.05	3.0	>1.0	100	N	N	N	<20	200	<2	N
LC281C3	60 18 42	153 33 23	2.0	.07	10.0	>1.0	700	20	N	N	<20	500	<2	N
LC282C3	60 19 6	153 34 54	2.0	.05	10.0	>1.0	700	N	N	N	<20	200	<2	<20
LC283C3	60 18 16	153 39 2	5.0	.05	7.0	>1.0	500	N	N	N	<20	200	<2	N
LC284C3	60 13 0	153 42 6	2.0	<.05	10.0	>1.0	500	N	N	N	<20	700	<2	50
LC285C3	60 13 6	153 38 11	1.0	<.05	10.0	>1.0	500	N	N	N	<20	100	<2	N
LC286C3	60 13 17	153 45 56	1.5	.10	10.0	>1.0	700	N	N	N	50	500	<2	N
LC287C3	60 13 18	153 48 12	5.0	.10	5.0	>1.0	500	N	500	N	<20	5,000	<2	100
LC288C3	60 19 58	154 17 39	2.0	.10	10.0	>1.0	500	N	>10,000	N	<20	100	<2	50
LC289C3	60 21 55	154 16 50	10.0	.20	5.0	>1.0	200	30	>10,000	N	20	300	<2	70
LC290C3	60 22 41	154 21 15	1.5	.10	15.0	>1.0	200	N	N	N	<20	100	<2	N
LC291C3	60 23 49	154 24 28	2.0	.10	2.0	>1.0	300	50	1,500	N	20	200	<2	50
LC292C3	60 24 8	154 27 10	1.5	.07	.7	>1.0	150	N	N	N	20	200	<2	N
LC293C3	60 27 46	154 26 48	1.5	.10	5.0	>1.0	150	15	N	N	50	300	<2	30
LC294C3	60 26 40	154 21 2	.5	.05	15.0	>1.0	100	N	N	N	<20	50	<2	N
LC295C3	60 24 41	154 13 4	1.0	.10	5.0	>1.0	200	N	N	N	<20	200	2	N
LC296C3	60 8 21	153 37 27	1.0	<.05	10.0	>1.0	500	N	N	N	<20	50	<2	N
LC297C3	60 6 8	153 40 18	.5	<.05	10.0	>1.0	700	N	N	N	<20	<50	<2	N
LC298C3	60 6 56	153 40 59	.7	.10	7.0	>1.0	300	N	N	N	<20	1,500	<2	N
LC299C3	60 9 51	153 46 59	1.0	.10	7.0	>1.0	300	N	N	N	<20	200	<2	N
LC300C3	60 9 32	153 48 5	3.0	.20	5.0	>1.0	1,000	N	N	N	20	1,000	<2	N
LC301C3	60 9 23	153 49 36	2.0	.50	5.0	>1.0	700	N	N	N	<20	200	<2	N
LC302C3	60 4 0	153 43 2	.5	.05	7.0	>1.0	1,000	N	N	N	<20	<50	<2	N
LC303C3	60 4 58	153 49 15	1.0	<.05	10.0	>1.0	1,000	N	N	N	<20	<50	<2	N
LC304C3	60 7 22	153 51 2	2.0	1.00	7.0	1.0	700	N	N	N	<20	200	<2	N
LC305C3	60 7 55	154 25 31	5.0	2.00	10.0	>1.0	1,000	N	N	N	20	500	<2	N
LC306C3	60 17 7	154 3 24	.7	1.00	5.0	.7	1,000	N	N	N	20	200	<2	N
LC307C3	60 20 30	153 55 46	2.0	.20	5.0	1.0	1,000	N	N	N	20	500	<2	20



Lake Clark heavy mineral concentrates--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
LC263C3	N	10	700	<10	100	N	<50	30	<20	N	30	<20	200	150	N
LC264C3	N	<10	200	50	200	N	<50	20	<20	N	30	30	500	150	N
LC265C3	N	<10	150	10	50	N	<50	<10	<20	N	20	>1,000	300	70	200
LC266C3	N	20	200	50	50	N	<50	50	20	N	30	500	200	200	N
LC267C3	N	10	500	10	200	N	<50	30	<20	N	30	N	500	200	150
LC268C3	N	<10	150	10	200	N	<50	20	<20	N	30	N	200	150	200
LC269C3	N	<10	100	<10	500	N	<50	<10	20	N	20	50	500	150	N
LC270C3	N	<10	150	<10	1,000	N	<50	<10	20	N	30	50	500	150	N
LC271C3	N	<10	200	<10	>1,000	<10	50	<10	20	N	30	300	500	150	100
LC272C3	N	<10	200	<10	>1,000	N	50	<10	20	N	30	50	500	150	N
LC273C3	N	<10	150	<10	500	N	<50	<10	<20	N	20	30	300	100	N
LC274C3	N	<10	150	<10	200	N	50	<10	<20	N	20	70	200	100	N
LC275C3	N	<10	<20	200	100	<10	<50	<10	50	N	10	<20	200	70	N
LC276C3	N	15	<20	50	200	1,000	50	<10	50	N	20	30	200	200	150
LC277C3	N	<10	<20	150	300	150	100	<10	500	N	100	50	200	50	<100
LC278C3	N	<10	<20	150	150	150	<50	<10	700	N	20	<20	300	150	100
LC279C3	N	20	300	200	50	20	50	<10	30	N	100	100	200	500	500
LC280C3	N	<10	<20	<10	50	1,500	50	<10	1,000	N	30	<20	N	70	N
LC281C3	N	10	<20	100	200	<10	150	<10	70	N	30	50	200	200	<100
LC282C3	N	30	<20	100	200	<10	100	<10	70	N	30	30	200	200	<100
LC283C3	N	30	<20	20	200	N	50	<10	<20	N	30	<20	200	150	N
LC284C3	N	<10	<20	50	500	N	50	<10	<20	N	30	30	200	150	100
LC285C3	N	<10	<20	<10	300	N	<50	<10	<20	N	30	N	300	50	N
LC286C3	N	15	<20	50	300	N	50	<10	30	N	30	30	200	200	N
LC287C3	N	10	<20	30	50	N	<50	<10	700	N	30	30	200	100	150
LC288C3	N	10	<20	30	300	50	<50	<10	700	N	50	>1,000	<200	100	150
LC289C3	N	50	<20	700	70	200	50	<10	2,000	500	30	>1,000	N	50	500
LC290C3	N	<10	20	10	50	N	150	<10	70	N	30	200	N	70	N
LC291C3	N	<10	<20	10	50	200	100	<10	700	N	50	>1,000	200	50	N
LC292C3	N	<10	50	<10	200	N	100	<10	50	N	20	500	200	30	N
LC293C3	N	<10	50	<10	200	20	50	<10	100	N	20	20	200	70	200
LC294C3	N	<10	<20	<10	100	N	50	<10	<20	N	20	N	200	50	N
LC295C3	N	<10	<20	<10	200	N	100	<10	<20	N	20	20	200	70	N
LC296C3	N	<10	<20	<10	700	N	<50	<10	<20	N	20	<20	200	100	N
LC297C3	N	<10	<20	<10	300	N	100	<10	<20	N	20	N	200	100	N
LC298C3	N	10	20	150	300	N	50	<10	<20	N	20	50	200	100	N
LC299C3	N	<10	<20	20	200	N	50	<10	<20	N	20	50	200	100	100
LC300C3	N	<10	<20	20	50	N	<50	<10	20	N	20	N	200	100	N
LC301C3	N	<10	20	10	50	100	<50	<10	300	N	20	N	200	150	N
LC302C3	N	<10	<20	20	300	N	<50	<10	N	N	10	50	<200	70	N
LC303C3	N	<10	<20	30	300	N	100	<10	N	N	20	20	<200	200	N
LC304C3	N	<10	20	50	50	N	<50	<10	<20	N	20	N	200	150	N
LC305C3	N	<10	150	20	200	<10	50	<10	70	N	20	20	200	200	N
LC306C3	N	<10	20	<10	70	N	<50	<10	<20	N	10	N	200	50	N
LC307C3	N	<10	<20	<10	100	N	<50	<10	50	N	20	N	200	100	N

Lake Clark heavy mineral concentrates--continued

sample	S-Y	S-ZN	S-ZR	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	TH
LC263C3	100	N	700	--	--	--	--	--	N
LC264C3	300	N	>1,000	--	--	--	--	--	N
LC265C3	100	N	>1,000	--	--	--	--	--	N
LC266C3	100	N	>1,000	--	--	--	--	--	N
LC267C3	200	N	>1,000	--	--	--	--	--	N
LC268C3	200	N	>1,000	--	--	--	--	--	N
LC269C3	150	N	>1,000	--	--	--	--	--	N
LC270C3	200	N	>1,000	--	--	--	--	--	N
LC271C3	200	N	>1,000	--	--	--	--	--	N
LC272C3	200	N	>1,000	--	--	--	--	--	N
LC273C3	200	N	>1,000	--	--	--	--	--	N
LC274C3	300	N	>1,000	--	--	--	--	--	N
LC275C3	100	N	>1,000	--	--	--	--	--	N
LC276C3	200	N	>1,000	--	--	--	--	--	N
LC277C3	700	N	>1,000	--	--	--	--	--	N
LC278C3	150	500	>1,000	--	--	--	--	--	N
LC279C3	200	N	>1,000	--	--	--	--	--	N
LC280C3	150	N	>1,000	--	--	--	--	--	N
LC281C3	700	N	>1,000	--	--	--	--	--	N
LC282C3	500	N	>1,000	--	--	--	--	--	N
LC283C3	200	N	>1,000	--	--	--	--	--	N
LC284C3	500	N	>1,000	--	--	--	--	--	300
LC285C3	200	N	>1,000	--	--	--	--	--	N
LC286C3	300	N	>1,000	--	--	--	--	--	N
LC287C3	200	700	>1,000	--	--	--	--	--	N
LC289C3	1,000	N	>1,000	--	--	--	--	--	500
LC289C3	200	1,000	>1,000	--	--	--	--	--	N
LC290C3	200	N	>1,000	--	--	--	--	--	N
LC291C3	200	N	>1,000	--	--	--	--	--	N
LC292C3	700	N	>1,000	--	--	--	--	--	500
LC293C3	200	N	>1,000	--	--	--	--	--	N
LC294C3	100	N	>1,000	--	--	--	--	--	N
LC295C3	150	N	>1,000	--	--	--	--	--	N
LC296C3	700	N	>1,000	--	--	--	--	--	2000
LC297C3	300	N	>1,000	--	--	--	--	--	<200
LC298C3	500	N	>1,000	--	--	--	--	--	200
LC299C3	500	N	>1,000	--	--	--	--	--	500
LC300C3	50	N	>1,000	--	--	--	--	--	N
LC301C3	50	N	>1,000	--	--	--	--	--	N
LC302C3	700	N	>1,000	--	--	--	--	--	N
LC303C3	700	N	>1,000	--	--	--	--	--	N
LC304C3	50	N	1,000	--	--	--	--	--	N
LC305C3	200	N	>1,000	--	--	--	--	--	N
LC306C3	50	N	>1,000	--	--	--	--	--	N
LC307C3	100	N	>1,000	--	--	--	--	--	N

sample	LATITUDE	LONGITUD	S-FEX	S-MGX	S-CAZ	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
LC308C3	60 17 32	154 2 14	1.5	1.00	5.0	>1.0	700	N	N	N	50	200	<2	N
LC309C3	60 16 32	154 4 35	2.0	5.00	7.0	.7	1,500	N	N	N	150	200	<2	N
LC310C3	60 5 58	154 13 22	2.0	.70	7.0	>1.0	1,000	N	N	N	<20	3,000	<2	N
LC311C3	60 4 32	154 16 9	1.0	.15	5.0	>1.0	500	N	N	N	<20	200	<2	N
LC312C3	60 3 47	154 19 50	2.0	1.00	7.0	>1.0	1,000	N	N	N	<20	200	<2	N
LC313C3	60 4 28	154 17 26	5.0	1.00	7.0	>1.0	1,000	N	N	N	<20	5,000	<2	N
LC314C3	60 3 2	154 24 15	3.0	.50	10.0	>1.0	1,000	N	N	N	<20	200	<2	N
LC315C3	60 2 0	154 27 11	1.5	.15	7.0	>1.0	700	N	N	N	<20	150	<2	N
LC316C3	60 2 23	154 26 35	1.5	.20	5.0	>1.0	700	N	N	N	<20	300	<2	N
LC317C3	60 1 29	154 31 41	2.0	.50	7.0	>1.0	1,000	N	N	N	30	150	<2	20
LC318C3	60 22 37	153 55 14	2.0	2.00	5.0	.7	700	N	N	N	100	500	<2	N
LC319C3	60 25 1	153 42 14	3.0	.50	10.0	>1.0	700	N	N	N	50	500	<2	N
LC320C3	60 25 2	153 38 45	3.0	.50	10.0	>1.0	1,000	<1	N	N	30	150	<2	30
LC321C3	60 23 9	153 45 3	3.0	.30	7.0	>1.0	700	N	N	N	30	700	<2	N
LC322C3	60 22 33	153 47 45	2.0	.20	10.0	>1.0	700	N	N	N	700	2,000	<2	30
LC323C3	60 21 33	153 51 51	2.0	.20	7.0	>1.0	700	N	N	N	50	700	<2	N
LC324C3	60 21 23	153 52 23	3.0	.30	10.0	.7	700	N	N	N	100	100	<2	N
LC325C3	60 20 47	153 54 28	5.0	1.00	10.0	.7	1,500	N	N	N	50	500	<2	N
LC326C3	60 29 48	154 0 1	5.0	3.00	7.0	.5	1,000	N	N	N	<20	200	<2	N
LC327C3	60 10 37	154 13 45	2.0	3.00	7.0	.3	1,000	N	N	N	20	100	<2	N
LC328C3	60 10 1	154 0 14	3.0	2.00	7.0	.7	1,000	N	N	N	20	1,000	<2	N
LC329C3	60 9 30	153 58 9	15.0	.50	5.0	>1.0	1,500	10	N	N	20	200	<2	20
LC330C3	60 9 6	153 53 30	5.0	.50	10.0	>1.0	1,500	N	N	N	<20	200	5	N
LC331C3	60 9 12	153 53 39	10.0	1.00	7.0	>1.0	1,500	15	N	N	20	1,500	<2	50
LC332C3	60 9 39	153 54 52	5.0	.30	7.0	>1.0	1,500	N	N	N	<20	1,500	<2	N
LC333C3	60 9 46	153 55 33	3.0	.30	7.0	>1.0	1,000	N	N	N	20	200	<2	N
LC334C3	60 10 29	153 58 10	5.0	.50	7.0	>1.0	1,000	N	N	N	<20	300	<2	N
LC335C3	60 10 33	153 59 3	5.0	1.00	7.0	>1.0	1,000	N	N	N	<20	200	<2	N
LC336C3	60 11 31	154 2 0	5.0	.50	7.0	>1.0	1,000	N	N	N	<20	1,000	<2	N
LC337C3	60 11 57	154 2 47	3.0	1.50	7.0	1.0	1,000	N	N	N	30	300	<2	N
LC338C3	60 12 5	154 4 37	5.0	3.00	7.0	1.0	1,000	N	N	N	100	3,000	<2	N
LC339C3	60 11 54	154 6 29	5.0	1.00	7.0	1.0	1,000	<1	1,000	N	100	>5,000	<2	N
LC340C3	60 11 13	154 6 57	3.0	1.00	7.0	.5	700	N	N	N	50	500	<2	N
LC341C3	60 10 20	154 11 8	2.0	.70	7.0	>1.0	700	N	N	N	20	200	<2	N
LC342C3	60 10 37	154 10 51	3.0	1.00	7.0	.5	700	N	N	N	30	200	<2	N
LC343C3	60 10 53	154 2 17	5.0	3.00	10.0	.5	1,000	N	N	N	70	2,000	<2	N
LC344C3	60 10 20	154 2 58	20.0	.50	3.0	>1.0	500	50	N	20	20	>5,000	<2	200
LC345C3	60 2 11	154 11 8	3.0	.30	7.0	>1.0	2,000	<1	N	N	<20	500	<2	N
LC346C3	60 2 21	154 0 53	2.0	.50	7.0	>1.0	1,500	N	N	N	<20	300	<2	N
LC347C3	60 21 47	154 2 29	20.0	1.00	5.0	1.0	500	10	N	N	50	>5,000	<2	200
LC348C3	60 2 41	153 56 7	3.0	.50	10.0	>1.0	700	N	N	N	<20	200	<2	N
LC349C3	60 1 45	153 54 24	1.5	.10	7.0	>1.0	700	N	N	N	<20	50	<2	N
LC350C3	60 2 3	153 54 3	1.5	.10	7.0	>1.0	700	N	N	N	<20	50	<2	N
LC351C3	60 0 24	153 49 13	2.0	.20	7.0	>1.0	1,500	N	N	N	<20	100	<2	N
LC352C3	60 C 50	153 44 5	1.0	.05	7.0	>1.0	1,500	N	N	N	<20	<50	<2	N

Lake Clark heavy mineral concentrates--continued

sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-Pa	S-SB	S-SC	S-SN	S-SR	S-V	S-W
LC308C3	N	<10	50	15	100	N	<50	<10	50	N	20	N	200	100	N
LC309C3	N	15	200	50	100	N	50	200	<20	N	20	N	300	100	N
LC310C3	N	<10	50	<10	150	N	50	<10	20	N	20	<20	200	150	N
LC311C3	N	<10	20	<10	150	N	50	<10	<20	N	20	N	300	100	N
LC312C3	N	<10	200	<10	100	N	100	<10	50	N	20	20	<200	100	<100
LC313C3	N	<10	300	15	150	N	100	<10	70	N	30	20	200	150	<100
LC314C3	N	<10	100	10	200	N	100	<10	50	N	20	20	200	150	N
LC315C3	N	<10	<20	10	200	N	<50	<10	30	N	30	<20	200	150	N
LC316C3	N	<10	20	10	150	N	50	<10	20	N	30	N	300	150	N
LC317C3	N	<10	100	10	200	N	50	<10	20	N	30	20	200	200	N
LC318C3	N	20	200	50	70	N	50	100	<20	N	20	N	<200	150	N
LC319C3	N	100	20	20	300	N	50	20	70	N	30	70	200	200	200
LC320C3	N	10	50	50	700	N	<50	<10	150	N	30	N	300	200	200
LC321C3	N	100	20	20	500	N	<50	<10	70	N	30	50	200	200	100
LC322C3	N	10	<20	<10	300	N	<50	<10	70	N	30	N	300	200	200
LC323C3	N	10	<20	<10	300	N	50	<10	50	N	30	100	200	100	200
LC324C3	N	10	<20	<10	150	N	<50	<10	20	N	30	N	200	200	N
LC325C3	N	10	20	20	70	N	<50	<10	200	N	30	N	500	200	N
LC326C3	N	10	300	10	100	30	<50	20	100	N	50	N	200	200	N
LC327C3	N	<10	150	<10	50	N	<50	20	20	N	20	N	200	100	N
LC328C3	N	15	150	50	50	15	<50	20	100	N	20	N	300	150	N
LC329C3	N	50	50	200	70	20	<50	20	500	N	50	<20	300	200	150
LC330C3	N	<10	70	20	100	N	50	<10	50	N	50	50	300	200	N
LC331C3	N	<10	50	20	100	200	<50	<10	500	N	50	50	500	200	100
LC332C3	N	<10	20	20	150	10	50	<10	70	N	20	50	200	150	150
LC333C3	N	<10	<20	<10	100	<10	50	<10	70	N	20	N	500	150	N
LC334C3	N	10	20	20	100	<10	<50	<10	70	N	20	20	300	200	N
LC335C3	N	20	20	30	100	<10	<50	<10	70	N	30	N	300	200	N
LC336C3	N	<10	20	150	100	15	<50	<10	70	N	30	N	500	200	N
LC337C3	N	10	200	20	100	N	<50	30	30	N	20	N	300	150	N
LC338C3	N	10	300	20	100	N	<50	30	20	N	20	N	300	150	N
LC339C3	N	20	200	500	150	N	<50	50	50	N	20	N	1,000	150	N
LC340C3	N	15	200	500	50	<10	<50	20	<20	N	10	N	300	150	1,000
LC341C3	N	<10	150	20	150	N	<50	<10	20	N	20	N	200	150	N
LC342C3	N	<10	150	20	50	N	<50	20	<20	N	15	N	300	150	N
LC343C3	N	15	200	1,000	50	N	<50	20	70	N	20	N	200	100	N
LC344C3	N	50	200	150	100	20	50	30	500	N	20	N	300	100	100
LC345C3	N	<10	<20	50	200	N	100	<10	200	N	30	70	300	100	N
LC346C3	N	<10	200	50	300	20	100	<10	30	N	30	50	300	200	N
LC347C3	N	70	200	200	100	20	<50	50	700	N	20	N	500	100	100
LC348C3	N	20	<20	150	300	20	100	<10	20	N	30	50	300	300	N
LC349C3	N	<10	<20	30	300	<10	50	<10	20	N	20	<20	200	200	N
LC350C3	N	<10	<20	100	500	20	100	<10	<20	N	20	20	200	200	N
LC351C3	N	<10	<20	50	300	15	100	<10	20	N	20	20	500	200	N
LC352C3	N	<10	<20	150	500	10	100	<10	<20	N	20	30	200	200	N

Lake Clark heavy mineral concentrates--continued

sample	S-Y	S-ZN	S-ZR	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	TH
LC308C3	150	N	>1,000	--	--	--	--	--	N
LC309C3	100	N	700	--	--	--	--	--	N
LC310C3	500	N	>1,000	--	--	--	--	--	N
LC311C3	100	N	>1,000	--	--	--	--	--	N
LC312C3	500	N	>1,000	--	--	--	--	--	N
LC313C3	300	N	>1,000	--	--	--	--	--	N
LC314C3	700	N	>1,000	--	--	--	--	--	N
LC315C3	300	N	>1,000	--	--	--	--	--	N
LC316C3	200	N	>1,000	--	--	--	--	--	N
LC317C3	500	N	>1,000	--	--	--	--	--	N
LC318C3	50	N	500	--	--	--	--	--	N
LC319C3	700	N	>1,000	--	--	--	--	--	N
LC320C3	100	N	>1,000	--	--	--	--	--	N
LC321C3	700	N	>1,000	--	--	--	--	--	N
LC322C3	300	N	>1,000	--	--	--	--	--	N
LC323C3	700	N	>1,000	--	--	--	--	--	N
LC324C3	200	N	>1,000	--	--	--	--	--	N
LC325C3	70	N	700	--	--	--	--	--	N
LC326C3	50	N	>1,000	--	--	--	--	--	N
LC327C3	50	N	>1,000	--	--	--	--	--	N
LC328C3	70	N	>1,000	--	--	--	--	--	N
LC329C3	200	500	1,000	--	--	--	--	--	N
LC330C3	700	N	>1,000	--	--	--	--	--	N
LC331C3	500	N	>1,000	--	--	--	--	--	N
LC332C3	500	N	>1,000	--	--	--	--	--	N
LC333C3	100	N	>1,000	--	--	--	--	--	N
LC334C3	200	N	>1,000	--	--	--	--	--	N
LC335C3	200	N	>1,000	--	--	--	--	--	N
LC336C3	150	N	>1,000	--	--	--	--	--	N
LC337C3	70	N	>1,000	--	--	--	--	--	N
LC338C3	70	N	1,000	--	--	--	--	--	N
LC339C3	150	<500	>1,000	--	--	--	--	--	N
LC340C3	20	N	500	--	--	--	--	--	N
LC341C3	200	N	>1,000	--	--	--	--	--	N
LC342C3	50	N	500	--	--	--	--	--	N
LC343C3	50	N	500	--	--	--	--	--	N
LC344C3	150	N	>1,000	--	--	--	--	--	N
LC345C3	700	N	>1,000	--	--	--	--	--	N
LC346C3	700	N	>1,000	--	--	--	--	--	N
LC347C3	100	700	>1,000	--	--	--	--	--	N
LC348C3	500	N	>1,000	--	--	--	--	--	N
LC349C3	700	N	>1,000	--	--	--	--	--	N
LC350C3	700	N	>1,000	--	--	--	--	--	N
LC351C3	500	N	>1,000	--	--	--	--	--	N
LC352C3	1,000	N	700	--	--	--	--	--	N

Lake Clark heavy mineral concentrates--continued

sample	LATITUDE	LONGITUD	S-FEX	S-MGX	S-CAZ	S-TIX	S-MN	S-AG	S-CAS	S-AU	S-B	S-BA	S-BE	S-BI
LC353C3	60 1 9	153 43 19	1.0	.05	7.0	>1.0	1,500	N	N	N	<20	100	<2	N
LC354C3	60 1 4	153 35 53	15.0	.05	5.0	>1.0	1,000	5	N	N	20	3,000	<2	N
LC355C3	60 2 43	153 33 8	1.0	.30	7.0	>1.0	1,500	N	N	N	100	100	<2	N
LC356C3	60 2 40	153 31 59	5.0	.20	5.0	>1.0	200	N	N	N	200	100	<2	N
LC357C3	60 4 8	153 23 41	2.0	.10	7.0	>1.0	1,000	N	N	N	<20	50	<2	N
LC500C3	60 20 3	155 26 25	2.0	1.50	5.0	>1.0	1,000	N	N	N	200	100	<2	N
LC501C3	60 20 29	155 25 53	2.0	2.00	7.0	>1.0	1,000	N	N	N	200	100	<2	N
LC502C3	60 19 32	155 28 59	3.0	2.00	7.0	>1.0	1,000	N	N	N	150	100	<2	N
LC503C3	60 18 59	155 29 31	2.0	2.00	7.0	>1.0	1,000	N	N	N	150	100	<2	N
LC504C3	60 18 35	155 33 55	3.0	2.00	7.0	1.0	1,000	N	N	N	200	100	<2	N
LC505C3	60 21 23	155 28 11	2.0	1.50	5.0	1.0	700	N	N	N	150	200	<2	N
LC506C3	60 23 50	155 34 49	10.0	3.00	5.0	1.0	2,000	N	N	N	150	200	<2	N
LC507C3	60 25 4	155 30 6	2.0	2.00	5.0	1.0	1,000	N	N	N	150	200	<2	N
LC508C3	60 26 59	155 35 29	2.0	2.00	7.0	>1.0	1,000	N	N	N	200	200	<2	N
LC509C3	60 27 32	155 33 51	7.0	3.00	7.0	1.0	1,000	N	N	N	200	200	<2	N
LC510C3	60 28 14	155 33 24	2.0	2.00	5.0	1.0	700	N	N	N	200	200	<2	N
LC511C3	60 23 31	155 32 31	2.0	2.00	7.0	>1.0	700	N	N	N	150	200	<2	N
LC512C3	60 20 53	155 24 6	3.0	3.00	7.0	>1.0	1,000	N	N	N	150	150	<2	N
LC513C3	60 24 30	155 53 53	1.5	.10	2.0	>1.0	200	N	N	N	100	200	<2	N
LC514C3	60 23 35	155 58 9	1.5	.10	2.0	>1.0	200	N	N	N	70	200	<2	N
LC515C3	60 26 26	155 49 46	1.5	.10	2.0	>1.0	200	N	N	N	30	200	<2	N
LC516C3	60 26 44	155 47 35	2.0	2.00	7.0	>1.0	700	N	N	N	150	150	<2	N
LC517C3	60 28 11	155 45 51	2.0	.20	2.0	1.0	300	N	N	N	100	150	<2	N
LC518C3	60 27 2	155 49 6	2.0	.50	7.0	1.0	700	N	N	N	100	500	<2	N
LC519C3	60 29 27	155 44 53	2.0	.20	3.0	>1.0	500	N	N	N	100	200	<2	N
LC520C3	60 31 59	155 46 27	2.0	1.00	7.0	1.0	1,000	N	N	N	200	500	<2	N
LC521C3	60 30 55	155 47 38	2.0	1.00	7.0	>1.0	700	N	N	N	150	200	<2	N
LC522C3	60 30 42	155 51 12	2.0	.20	3.0	>1.0	500	N	N	N	150	300	<2	N
LC523C3	60 29 54	155 48 32	2.0	1.50	7.0	>1.0	700	N	N	N	200	300	<2	N
LC524C3	60 29 14	155 52 51	2.0	.70	3.0	>1.0	500	N	N	N	100	100	<2	N
LC525C3	60 23 25	155 45 38	2.0	.30	.2	.3	200	N	N	N	100	1,000	1	N
LC526C3	60 23 32	155 48 12	1.5	.10	5.0	>1.0	300	N	N	N	15	200	<2	N
LC527C3	60 22 50	155 49 58	2.0	.15	5.0	>1.0	500	N	N	N	50	200	<2	N
LC528C3	60 21 47	155 50 14	2.0	.10	2.0	>1.0	500	N	N	N	30	700	<2	N
LC529C3	60 21 19	155 50 4	3.0	.70	3.0	>1.0	500	N	N	N	200	100	<2	N
LC530C3	60 20 54	155 52 19	2.0	.70	5.0	>1.0	500	N	N	N	150	200	<2	N
LC531C3	60 21 28	155 44 12	2.0	.70	5.0	>1.0	500	N	N	N	150	150	<2	N
LC532C3	60 48 47	155 31 9	1.5	.15	1.0	>1.0	200	N	N	N	20	150	<2	N
LC533C3	60 48 26	155 30 8	1.5	.20	3.0	>1.0	500	N	N	N	1,000	300	<2	N
LC535C3	60 48 11	155 27 57	1.5	.10	2.0	>1.0	200	N	N	N	100	300	<2	N
LC536C3	60 47 23	155 26 5	1.0	.10	2.0	>1.0	200	N	N	N	20	200	<2	N
LC537C3	60 46 32	155 25 13	1.0	.20	2.0	>1.0	200	N	N	N	50	200	<2	N
LC538C3	60 46 32	155 22 24	1.0	.10	1.0	>1.0	100	50	N	N	300	200	<2	N
LC539C3	60 46 20	155 20 14	1.0	.10	3.0	>1.0	200	N	N	N	50	200	<2	N
LC540C3	60 47 53	155 19 36	1.0	.10	1.0	>1.0	200	N	N	N	20	100	<2	N

Lake Clark heavy mineral concentrates--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
LC333C3	N	<10	<20	50	300	N	150	<10	20	N	20	70	<200	200	N
LC334C3	N	100	<20	1,000	200	200	150	<10	100	N	20	50	200	200	N
LC335C3	N	10	70	200	300	N	150	<10	50	N	20	70	200	200	N
LC336C3	N	100	50	700	300	50	<50	<10	50	N	30	50	200	200	100
LC337C3	N	20	<20	300	500	N	50	<10	<20	N	30	30	<200	150	N
LC500C3	N	<10	500	10	100	N	<50	20	<20	N	30	150	200	150	N
LC501C3	N	<10	700	10	100	N	<50	20	20	N	30	150	200	150	N
LC502C3	N	10	700	10	100	N	<50	30	<20	N	30	150	200	200	N
LC503C3	N	10	500	10	200	N	<50	20	<20	N	30	N	200	200	100
LC504C3	N	10	500	10	100	N	<50	20	<20	N	30	N	300	200	N
LC505C3	N	<10	300	10	50	N	<50	20	<20	N	30	70	500	150	N
LC506C3	N	20	500	10	200	N	<50	30	<20	N	20	N	300	200	N
LC507C3	N	10	500	10	200	N	<50	20	<20	N	30	>1,000	200	200	N
LC508C3	N	10	700	10	100	N	<50	20	20	N	30	700	200	200	N
LC509C3	N	15	1,000	20	150	N	<50	50	20	N	30	700	300	200	N
LC510C3	N	<10	500	10	50	N	<50	20	<20	N	30	500	200	200	N
LC511C3	N	<10	500	10	100	N	<50	20	<20	N	30	500	200	200	N
LC512C3	N	15	700	10	100	N	<50	50	<20	N	30	100	200	200	N
LC513C3	N	<10	50	10	100	N	<50	<10	N	N	50	700	<200	100	N
LC514C3	N	<10	50	10	100	N	<50	<10	N	N	20	>1,000	<200	100	N
LC515C3	N	<10	20	10	100	N	<50	<10	N	N	20	>1,000	<200	100	N
LC516C3	N	<10	500	10	200	N	<50	20	<20	N	30	1,000	200	200	N
LC517C3	N	<10	100	10	100	N	<50	<10	N	N	20	500	200	1,000	N
LC518C3	N	<10	200	15	150	N	<50	20	100	N	20	500	300	200	100
LC519C3	N	<10	100	10	100	N	<50	<10	N	N	20	500	200	1,000	N
LC520C3	N	<10	300	20	>1,000	N	<50	20	<20	N	20	500	300	200	N
LC521C3	N	<10	300	20	>1,000	N	<50	20	<20	N	20	150	200	150	N
LC522C3	N	<10	200	15	1,000	N	50	<10	N	N	20	300	150	1,000	N
LC523C3	N	<10	500	15	200	N	<50	10	<20	N	20	300	200	200	N
LC524C3	N	<10	200	10	150	N	<50	<10	N	N	20	1,000	150	1,000	N
LC525C3	N	<10	70	15	100	N	<50	<10	N	N	10	100	N	1,000	N
LC526C3	N	<10	20	10	150	N	100	<10	N	N	10	700	500	1,000	N
LC527C3	N	<10	50	10	150	N	150	<10	N	N	10	200	500	1,000	N
LC528C3	N	<10	20	10	100	N	<50	<10	N	N	20	>1,000	300	1,000	N
LC529C3	N	<10	150	20	100	N	<50	<10	<20	N	10	>1,000	200	1,000	N
LC530C3	N	<10	200	10	200	N	<50	<10	N	N	10	>1,000	200	1,000	N
LC531C3	N	<10	300	10	150	N	100	<10	N	N	20	700	200	1,000	100
LC532C3	N	<10	100	10	200	N	<50	<10	N	N	30	>1,000	200	1,000	200
LC533C3	N	<10	100	10	100	N	50	<10	N	N	20	200	200	1,000	200
LC534C3	N	<10	100	10	100	N	<50	<10	N	N	20	700	200	1,000	1,000
LC535C3	N	<10	100	10	100	N	<50	<10	N	N	20	700	200	1,000	1,000
LC536C3	N	<10	100	10	150	N	50	<10	N	N	100	>1,000	300	1,000	150
LC537C3	N	<10	100	15	100	N	50	<10	20	N	100	>1,000	200	1,000	N
LC538C3	N	<10	100	100	200	N	70	<10	50	N	100	>1,000	200	1,000	100
LC539C3	N	<10	100	10	100	N	<50	<10	N	N	30	300	200	1,000	N
LC540C3	N	<10	50	10	50	N	50	<10	<20	N	50	>1,000	200	100	<100

Lake Clark heavy mineral concentrates--continued

sample	S-Y	S-ZN	S-ZR	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	TH
LC3533C3	1,000	N	500	--	--	--	--	--	N
LC3544C3	500	700	>1,000	--	--	--	--	--	N
LC3555C3	1,000	N	>1,000	--	--	--	--	--	N
LC3566C3	700	N	>1,000	--	--	--	--	--	N
LC3577C3	700	N	>1,000	--	--	--	--	--	N
LC5000C3	100	N	>1,000	--	--	--	--	--	N
LC5011C3	200	N	>1,000	--	--	--	--	--	N
LC5022C3	100	N	>1,000	--	--	--	--	--	N
LC5033C3	100	N	>1,000	--	--	--	--	--	N
LC5044C3	100	N	>1,000	--	--	--	--	--	N
LC5055C3	50	N	>1,000	--	--	--	--	--	N
LC5066C3	50	N	500	--	--	--	--	--	N
LC5077C3	200	N	>1,000	--	--	--	--	--	N
LC5088C3	200	N	>1,000	--	--	--	--	--	N
LC5099C3	200	N	>1,000	--	--	--	--	--	N
LC5100C3	150	N	>1,000	--	--	--	--	--	N
LC5111C3	200	N	>1,000	--	--	--	--	--	N
LC5122C3	100	N	>1,000	--	--	--	--	--	N
LC5133C3	500	N	>1,000	--	--	--	--	--	N
LC5144C3	500	N	>1,000	--	--	--	--	--	N
LC5155C3	200	N	>1,000	--	--	--	--	--	N
LC5166C3	500	N	>1,000	--	--	--	--	--	N
LC5177C3	200	N	>1,000	--	--	--	--	--	N
LC5188C3	100	N	>1,000	--	--	--	--	--	N
LC5199C3	200	N	>1,000	--	--	--	--	--	N
LC5200C3	500	N	>1,000	--	--	--	--	--	N
LC5211C3	500	N	>1,000	--	--	--	--	--	N
LC5222C3	300	N	>1,000	--	--	--	--	--	N
LC5233C3	300	N	>1,000	--	--	--	--	--	N
LC5244C3	100	N	>1,000	--	--	--	--	--	N
LC5255C3	20	N	1,000	--	--	--	--	--	N
LC5266C3	300	N	>1,000	--	--	--	--	--	N
LC5277C3	300	N	>1,000	--	--	--	--	--	N
LC5288C3	150	N	>1,000	--	--	--	--	--	N
LC5299C3	150	N	>1,000	--	--	--	--	--	N
LC5300C3	150	N	>1,000	--	--	--	--	--	N
LC5311C3	150	N	>1,000	--	--	--	--	--	N
LC5322C3	150	N	>1,000	--	--	--	--	--	N
LC5333C3	100	N	>1,000	--	--	--	--	--	N
LC5344C3	200	N	>1,000	--	--	--	--	--	N
LC5355C3	200	N	>1,000	--	--	--	--	--	N
LC5366C3	200	N	>1,000	--	--	--	--	--	N
LC5377C3	200	N	>1,000	--	--	--	--	--	N
LC5388C3	200	N	>1,000	--	--	--	--	--	N
LC5399C3	200	N	>1,000	--	--	--	--	--	N
LC5400C3	70	N	>1,000	--	--	--	--	--	N



Lake Clark heavy mineral concentrates--continued

sample	LATITUDE	LONGITUDE	S-FEX	S-MGZ	S-CAZ	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
LC541C3	60 48 15	155 19 4	1.0	.10	1.0	>1.0	200	N	N	N	50	100	N	N
LC542C3	60 49 46	155 16 54	1.0	.10	1.5	>1.0	200	N	N	N	30	300	N	N
LC543C3	60 50 35	155 21 29	1.5	.10	1.5	>1.0	200	N	N	N	20	300	N	N
LC544C3	60 50 14	155 25 2	1.0	.10	2.0	>1.0	200	N	N	N	50	200	N	N
LC545C3	60 50 3	155 33 6	1.0	.10	3.0	>1.0	200	N	N	N	30	300	N	N
LC546C3	60 45 48	155 10 41	1.5	.10	5.0	>1.0	200	N	N	N	20	300	N	N
LC547C3	60 47 40	155 14 38	1.5	.10	5.0	>1.0	200	N	N	N	20	200	N	N
LC548C3	60 48 38	155 12 42	1.0	.15	7.0	>1.0	200	N	N	N	20	200	N	N
LC549C3	60 50 5	155 11 56	1.0	.10	.7	>1.0	200	20	N	500	20	300	N	N
LC550C3	60 50 18	155 7 14	1.0	.10	2.0	>1.0	200	N	N	N	20	150	N	N
LC551C3	60 52 36	155 8 7	1.0	.10	2.0	>1.0	200	N	N	N	50	1,500	N	N
LC552C3	60 53 4	155 2 59	1.5	.20	3.0	>1.0	500	N	N	N	50	500	N	N
LC553C3	60 50 39	154 57 1	1.5	.20	3.0	>1.0	500	N	N	N	50	700	N	N
LC554C3	60 47 53	155 3 17	3.0	1.50	7.0	.7	1,000	N	N	N	50	300	N	N
LC555C3	60 48 23	155 6 6	5.0	1.50	7.0	1.0	1,000	N	N	N	50	300	N	N
LC556C3	60 47 3	155 7 49	1.5	.10	5.0	>1.0	300	N	N	N	20	200	N	N
LC557C3	60 55 38	155 56 20	1.0	.10	2.0	>1.0	200	N	N	N	50	200	N	N
LC558C3	60 53 41	155 59 13	1.0	.10	1.0	>1.0	200	N	N	N	200	200	N	N
LC559C3	60 51 5	155 58 4	1.0	.15	2.0	>1.0	200	N	N	N	100	200	N	N
LC560C3	60 50 12	155 57 30	1.5	.10	1.0	>1.0	200	N	N	N	50	300	N	N
LC561C3	60 47 11	155 58 18	1.0	.10	2.0	>1.0	100	N	N	N	20	200	N	N
LC562C3	60 48 1	155 56 57	1.0	.10	2.0	>1.0	150	N	N	N	20	200	N	N
LC563C3	60 47 49	155 51 41	1.5	.10	3.0	>1.0	150	N	N	N	50	200	N	N
LC564C3	60 47 43	155 47 40	1.5	.15	2.0	>1.0	150	N	N	N	50	200	N	N
LC565C3	60 47 27	155 41 59	1.5	.10	2.0	>1.0	500	N	N	N	50	500	N	N
LC567C3	60 52 9	155 51 6	1.5	.10	3.0	>1.0	200	N	N	N	20	200	N	N
LC568C3	60 55 32	155 49 42	1.5	.20	2.0	>1.0	300	N	N	N	100	300	N	N
LC569C3	60 58 37	155 35 57	1.5	.10	1.5	>1.0	200	N	N	N	100	300	N	N
LC570C3	60 57 24	155 27 10	1.5	.20	3.0	>1.0	300	N	N	N	50	150	N	N
LC571C3	60 58 58	155 24 47	1.5	.20	5.0	>1.0	300	N	N	N	50	200	N	N
LC572C3	60 59 18	155 22 41	1.0	.20	1.5	>1.0	200	N	N	N	30	500	N	N
LC573C3	60 56 57	155 22 30	1.5	.10	1.0	>1.0	150	10	N	50	30	200	N	N
LC574C3	60 55 32	155 25 40	1.0	.10	1.0	>1.0	150	N	N	N	30	300	N	N
LC575C3	60 55 14	155 31 17	1.0	.10	1.0	>1.0	150	N	N	N	20	300	N	N
LC576C3	60 52 35	155 31 17	1.5	.15	2.0	>1.0	150	N	N	N	70	200	N	N
LC577C3	60 38 14	155 53 0	3.0	.70	5.0	>1.0	700	N	N	N	150	1,000	<2	N
LC578C3	60 43 8	155 55 59	1.5	.70	5.0	>1.0	700	N	N	N	200	200	<2	N
LC579C3	60 41 35	155 57 5	2.0	.70	3.0	>1.0	700	N	N	N	200	500	<2	N
LC580C3	60 40 0	155 51 48	3.0	.70	2.0	1.0	700	N	N	N	150	500	<2	N

Lake Clark heavy mineral concentrates--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
LC541C3	N	<10	50	20	50	N	50	<10	<20	N	50	>1,000	150	100	150
LC542C3	N	<10	50	<10	50	N	<50	<10	N	N	20	>1,000	200	100	N
LC543C3	N	<10	50	<10	50	N	<50	<10	N	N	20	300	200	100	500
LC544C3	N	<10	50	<10	50	N	50	<10	N	N	20	100	200	100	N
LC545C3	N	<10	50	<10	200	N	50	<10	N	N	20	100	200	100	N
LC546C3	N	<10	50	<10	100	N	<50	<10	N	N	30	50	200	100	N
LC547C3	N	<10	20	<10	100	N	<50	<10	N	N	20	20	200	100	N
LC548C3	N	<10	20	<10	200	N	<50	<10	<20	N	20	20	500	100	N
LC549C3	N	<10	50	10	200	N	<50	<10	N	N	20	200	200	100	<100
LC550C3	N	<10	50	10	100	N	<50	<10	N	N	20	200	200	100	<100
LC551C3	N	<10	50	<10	150	N	<50	<10	N	N	20	150	1,000	100	<100
LC552C3	N	<10	50	<10	100	N	<50	<10	N	N	20	150	300	100	N
LC553C3	N	<10	100	<10	100	N	<50	<10	N	N	20	150	300	100	<100
LC554C3	N	<10	200	15	70	N	<50	70	N	N	20	50	300	150	<100
LC555C3	N	<10	200	15	150	N	<50	70	20	N	50	100	300	150	N
LC556C3	N	<10	20	<10	100	N	<50	<10	N	N	20	100	200	100	N
LC557C3	N	<10	50	<10	100	N	<50	<10	N	N	20	300	200	100	N
LC558C3	N	<10	70	<10	100	N	<50	<10	N	N	20	>1,000	100	100	N
LC559C3	N	<10	100	<10	150	N	<50	<10	N	N	20	200	200	100	N
LC560C3	N	<10	50	<10	100	N	<50	<10	N	N	20	150	200	100	N
LC561C3	N	<10	50	<10	150	N	<50	<10	N	N	20	<20	200	100	500
LC562C3	N	<10	50	10	200	N	<50	<10	N	N	20	>1,000	200	100	N
LC563C3	N	<10	50	<10	100	N	<50	<10	N	N	20	20	300	100	N
LC564C3	N	<10	50	10	200	N	50	<10	N	N	20	30	200	100	100
LC565C3	N	<10	50	<10	50	N	<50	<10	N	N	20	N	300	100	N
LC567C3	N	<10	50	10	100	N	<50	<10	N	N	20	100	200	100	N
LC568C3	N	<10	70	<10	100	N	<50	<10	N	N	20	200	200	100	N
LC569C3	N	<10	50	<10	50	N	<50	<10	N	N	30	30	200	100	N
LC570C3	N	<10	50	<10	150	N	<50	<10	N	N	30	20	200	100	N
LC571C3	N	<10	100	10	150	N	<50	<10	N	N	30	20	200	100	N
LC572C3	N	<10	100	70	100	N	100	<10	N	N	70	20	200	100	<100
LC573C3	N	<10	20	<10	70	N	<50	<10	N	N	50	150	150	100	N
LC574C3	N	<10	30	<10	70	N	<50	<10	N	N	20	300	200	100	N
LC575C3	N	<10	50	<10	70	N	<50	<10	N	N	20	50	200	100	N
LC576C3	N	<10	50	<10	70	N	<50	<10	N	N	20	>1,000	200	100	N
LC577C3	N	<10	200	20	500	N	<50	20	50	N	20	N	500	150	N
LC578C3	N	<10	200	10	>1,000	N	<50	10	20	N	20	1,000	300	100	N
LC579C3	N	<10	150	10	>1,000	N	<50	10	20	N	20	700	200	100	<100
LC580C3	N	15	100	20	>1,000	N	<50	30	50	N	10	N	200	150	N

Lake Clark heavy mineral concentrates--continued

sample	S-Y	S-ZN	S-ZR	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	TH
LC541C3	100	N	>1,000	--	--	--	--	--	N
LC542C3	150	N	>1,000	--	--	--	--	--	N
LC543C3	150	N	>1,000	--	--	--	--	--	N
LC544C3	150	N	>1,000	--	--	--	--	--	N
LC545C3	150	N	>1,000	--	--	--	--	--	N
LC546C3	200	N	>1,000	--	--	--	--	--	N
LC547C3	200	N	>1,000	--	--	--	--	--	N
LC548C3	200	N	>1,000	--	--	--	--	--	N
LC549C3	200	N	>1,000	--	--	--	--	--	N
LC550C3	200	N	>1,000	--	--	--	--	--	N
LC551C3	200	N	>1,000	--	--	--	--	--	N
LC552C3	200	N	>1,000	--	--	--	--	--	N
LC553C3	200	N	>1,000	--	--	--	--	--	N
LC554C3	100	N	>1,000	--	--	--	--	--	N
LC555C3	200	N	>1,000	--	--	--	--	--	N
LC556C3	300	N	>1,000	--	--	--	--	--	N
LC557C3	200	N	>1,000	--	--	--	--	--	N
LC558C3	150	N	>1,000	--	--	--	--	--	N
LC559C3	200	N	>1,000	--	--	--	--	--	N
LC560C3	150	N	>1,000	--	--	--	--	--	N
LC561C3	150	N	>1,000	--	--	--	--	--	N
LC562C3	150	N	>1,000	--	--	--	--	--	N
LC563C3	200	N	>1,000	--	--	--	--	--	N
LC564C3	200	N	>1,000	--	--	--	--	--	N
LC565C3	100	N	>1,000	--	--	--	--	--	N
LC567C3	200	N	>1,000	--	--	--	--	--	N
LC568C3	200	N	>1,000	--	--	--	--	--	N
LC569C3	150	N	>1,000	--	--	--	--	--	N
LC570C3	300	N	>1,000	--	--	--	--	--	N
LC571C3	300	N	>1,000	--	--	--	--	--	N
LC572C3	200	N	>1,000	--	--	--	--	--	N
LC573C3	300	N	>1,000	--	--	--	--	--	N
LC574C3	100	N	>1,000	--	--	--	--	--	N
LC575C3	100	N	>1,000	--	--	--	--	--	N
LC576C3	200	N	>1,000	--	--	--	--	--	N
LC577C3	150	N	>1,000	--	--	--	--	--	N
LC578C3	500	N	>1,000	--	--	--	--	--	N
LC579C3	200	N	>1,000	--	--	--	--	--	N
LC580C3	100	N	>1,000	--	--	--	--	--	N