

10084 was the generic number assigned to the <1mm sieve fraction of the Bulk Sample fines (ALSRC #1003). These samples were removed from the container and split in the Bio-Prep Lab. Subsamples of 10084 were not physically re-examined. This sample originally weighed 3830 gm.

PRISTINE SAMPLES: (All BP-SSPL)

7	5.10 gm	Fines
36	10.90 gm	Fines
95	5.04 gm	Fines
137	1.85 gm	Fines
159	232.7 gm	Fines
160	19.89 gm	Fines
162	4.77 gm	Fines
163	22.25 gm	Fines
164	60.60 gm	Fines
165	652.8 gm	Fines
168	.06 gm	Fines
169	1.23 gm	Fines
246	.15 gm	Fines

RETURNED SAMPLES:

24	6.773 gm	Fines	
27	10.581 gm	Fines	
43	9.31 gm	Fines	
70	8.113 gm	Fines	
83	5.012 gm	Fines	
93	8.386 gm	Fines	627 17.928 gm Fines
94	10.436 gm	Fines	628 12.663 gm Fines
135	6.77 gm	Fines	789 8.555 gm Fines
149	10.01 gm	Fines	798 6.418 gm Fines
152	9.772 gm	Fines	851 14.423 gm Fines
155	10.622 gm	Fines	908 14.102 gm Fines
157	10.00 gm	Fines	993 6.218 gm Fines
158	10.037 gm	Fines	995 10.139 gm Fines
161	28.578 gm	Fines	999 8.309 gm Fines
170	10.081 gm	Fines	1050 6.572 gm Fines
244	8.553 gm	Fines	1225 8.00 gm Fines
532	6.646 gm	Fines	1226 7.00 gm Fines
534	7.072 gm	Fines	1467 6.435 gm Fines

CHEMICAL ANALYSES

<u>Element</u>	<u>Number of Analyses</u>	<u>Mean</u>	<u>Units</u>	<u>Range</u>
SiO ₂	27	42.55	PCT	6.70
Al ₂ O ₃	28	13.47	PCT	12.44
TiO ₂	29	7.71	PCT	6.18
FeO	33	15.16	PCT	15.66
MnO	32	.208	PCT	.103
MgO	28	7.98	PCT	1.33
CaO	25	11.99	PCT	2.52
Na ₂ O	29	.445	PCT	.183
K ₂ O	65	.147	PCT	.111
P ₂ O ₅	12	.140	PCT	.271
H	1	1.20	CC/G	0
Li	12	11.31	PPM	9.0
Rb	43	3.17	PPM	5.60
Cs	11	.187	PPM	.104
Be	5	2.10	PPM	2.9
Sr	40	168.72	PPM	130.0
Ba	41	183.29	PPM	280.0
Sc	16	64.00	PPM	34.0
V	9	63.78	PPM	72.0
Cr ₂ O ₃	27	.316	PCT	.561
Co	19	29.66	PPM	26.0
Ni	20	199.57	PPM	251.42
Cu	11	11.74	PPM	25.10
Zn	11	24.92	PPM	22.5
Y	9	109.78	PPM	93.0
Zr	15	324.62	PPM	187.0
Nb	5	22.28	PPM	15.0
Mo	3	.683	PPM	.650

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CHEMICAL ANALYSES

<u>Element</u>	<u>Number of Analyses</u>	<u>Mean</u>	<u>Units</u>	<u>Range</u>
Ru	1	6	PPM	0
Rh	1	1	PPM	0
Pd	3	.021	PPM	.030
Ag	5	.056	PPM	.126
Cd	6	.347	PPM	1.56
Ta	11	1.57	PPM	1.7
W	3	.823	PPM	1.78
Hf	15	9.96	PPM	5.30
Re	6	6.30	PPB	11.0
Os	4	.043	PPM	.134
Ir	5	.008	PPM	.003
Au	9	.009	PPM	.039
Hg	6	.002	PPM	.005
La	17	18.37	PPM	22.8
Ce	16	49.85	PPM	40.5
Pr	8	7.82	PPM	15.0
Nd	12	42.63	PPM	30.0
Sm	18	12.28	PPM	9.6
Eu	19	1.88	PPM	1.67
Gd	10	16.10	PPM	7.70
Tb	15	3.32	PPM	6.80
Dy	15	19.76	PPM	13.3
Ho	11	5.73	PPM	7.8
Er	8	14.38	PPM	23.5
Tm	6	1.53	PPM	.7
Yb	18	10.83	PPM	14.1
Lu	17	1.72	PPM	2.4
Th	16	2.36	PPM	2.7
U	18	.608	PPM	.77
B	5	3.51	PPM	6.97

CHEMICAL ANALYSES

<u>Element</u>	<u>Number of Analyses</u>	<u>Mean</u>	<u>Units</u>	<u>Range</u>
Ga	11	4.95	PPM	4.70
In	8	.902	PPM	1.05
Tl	3	.003	PPM	.003
C	2	140.5	PPM	17.0
Ge	6	.731	PPM	1.01
Pb	5	2.91	PPM	4.61
Sn	1	.7	PPM	0
N	1	110.0	PPM	0
As	5	.067	PPM	.07
Sb	4	.018	PPM	.058
Bi	2	.002	PPM	.0004
O	7	41.59	PCT	3.100
S	7	.110	PCT	.090
Se	7	.376	PPM	.66
Te	3	.486	PPM	1.393
F	6	271.00	PPM	826.0
Cl	7	35.70	PPM	72.3
Br	8	.240	PPM	.532
I	4	.399	PPM	.680

Analysts: Agrell et al., (1970); Frondel et al., (1970); Haramura et al., (1970); Compston et al., (1970); Ehmman & Morgan, (1970); Engel & Engel, (IW/U); Goles et al., (1970); Maxwell et al., (1970); Morrison et al., (1970); Rose et al., (1970); Smales et al., (1970); Wakita et al., (1970); Wanke et al., (1970); Mason et al., (1971); Kim et al., (1971); Bouchet et al., (1971); Vobecky et al., (1971); Ehmman & Morgan, (1972); Willis et al., (1972); Hubbard et al., (1972); LSPET, (1973); Begemann et al., (1970); Ganapathy et al., (1970); Shedlovsky et al., (1970); Rhodes et al., (1975); Boynton et al., (1975); Turekian & Kharkar, (1970); Kharkar & Turekian, (1971); Haskin et al., (1970); Gast et al., (1970); Gopalan et al., (1970); Murthy et al., (1970); Perkins et al., (1970); Philpotts & Schnetzler, (1970); Tera et al., (1970); Travesi, et al., (1971); Basford, (1974); Murthy et al., (1973); Evensen et al., (1973); Annell & Helz, (1970); Reed & Jovanovic, (1970); Reed & Jovanovic, (1971); Smales et al., (1971); Cliff et al., (1971); Papanastassiou et al., (1970); Laul et al., (1970).

Morgan et al., (1972); Goles, (1971); Chyi & Ehmann, (1973); Lovering & Butterfield, (1970); Lovering & Hughes, (1971); Wasson & Baedecker, (1970); Reed et al., (1970); Hess et al., (1971); Abdel-Rassoul et al., (1971); Fields et al., (1970); Silver, (1970); Wrigley & Quaide, (1970); Crozaz et al., (1970); Turkevich et al., (1971); Wrigley, (1971); Eugster, (1971); Epstein & Taylor, (1970); Kaplan et al., (1970); Kohman et al., (1970); Wanke et al., (1972).

Age References: Armstrong and Alsmiller,(1971); Marti et al., (1970); Perkins,(1970); Basford,(1974); Gopalan,(1970); Silver,(1970); Tatsumoto, (1970); Huey et al., (1971).