Table 6. X-ray data of minerals reported for the first time from the Lost River Area, Alaska.

Chrysoberyl[1]				
Peak (2θ)	Height	Å°	Peak and height, ASTM Chrysoberyl	
8.8	2	10.048		
12.4	2	7.1379		
14.0	2	6.3256		
16.0	1	5.5391		
18.8	1	4.7199	4.71	2
22.22	55	4.0006	4.01	50
26.7	10	3.3386	3.45	21
27.65	100	3.2375	3.24	100
30.4	2	2.9402		
31.7	2	2.8225	2.781	2
35.05	80	2.5601	2.563	50
38.0	7	2.3678	2.371	10
38.8	20	2.3208	2.322	35
39.9	25	2.259	2.265	45
43.4	95	2.0849	2.091	90
55.63	1	1.650	1.664	12
57.02	85	1.6150	1.619	80
68.4	4	1.3715		
68.9	15	1.363	1.373	

Euclase[2]				
Peak (2θ)	Height	Å°	Peak and height ASTM Euclase	
8.1	2	10.915		
11.07	3	7.5634		
12.38	100	7.1494	7.15	100
18.4	3	4.8216	4.54	4
22.3	10	3.9864		
23.0	15	3.8667	3.836	35
24.7	60	3.6043	3.576	14
26.9	8	3.3143	3.342	4
27.5	20	3.2433	3.219	50
30.2	2	2.9592	2.943	4
31.7	7	2.8225	2.871	4
32.13	12	2.785	2.773	35
35.2	9	2.5495	2.543	25
36.8	15	2.4422	2.444	35
37.58	5	2.3910	2.384	2
39.9	3	2.259	2.279	2
43.5	2	2.0804	2.074	10
44.23	1	2.0478	2.04	6
45.40	8	1.9976	1.991	18
50.8	15	1.7972	1.79	6
55.0	5	1.6695	1.675	10

Bertrandite[3]				
Peak (2θ)	Height	Å°	Peak and height, ASTM Bertrandite	
8.8	10.048	6		
11.7	7.5634	5	7.56	10
12.4	7.1379	8		
20.4	4.3532	100	4.385	55
22.8	3.9001	25	3.914	20
23.4	3.8015	15	3.807	100
26.9	3.3143	25		
28.3	3.1534	75	3.161	45
31.4	2.8488	5	2.85	6
31.8	2.8139	7		
35.4	2.5355	8	2.543	75
35.6	2.5218	30	2.52	40
37.25	2.4133	3	2.417	4
38.7	2.3266	1		
39.6	2.2758	15	2.283	20
41.0	2.2012	7	2.208	6
41.5	2.1759	2	2.177	4
46.0	1.9729	3	1.978	6
47.2	1.9255	15	1.917	4
55.8	1.6474	2	1.648	4
59.5	1.5535	2	1.551	6

Todorokite[4]				
Peak (2θ)	Height	Å°	Peak and height reference todorokite[6]	
9.25	100	9.5607	9.6333	100
18.65	50	4.7576	4.7958	50
26.8	20	3.3264	3.3510	60
28.4	18	3.1426	3.0789	3
37.8	5	2.3799	2.3799	10
42.5	3	2.127	2.1317	5

Diaspore[5]				
Peak (2θ)	Height	Å°	Peak and height, reference diaspore[7]	
18.8	20	4.7199	4.7027	100
22.25	100	4.0007	3.9689	60
27.70	18	3.2203	3.200	10
35.00	45	2.5636	2.5495	20
38.15	12	2.3589	2.3547	90
38.8	30	2.3208	2.3151	30
42.4	20	2.1317	2.1295	20
43.5	80	2.0904	2.0758	60
53.6	7	1.7098	1.7098	5
56.35[8]	15	1.6326	1.6313	10
56.4		1.6340	1.6287	
57.2	12	1.6104	1.6182	5
58.8	2	1.5703	1.5703	20
58.9		1.5679	1.5679	
62.8	10	1.4796	1.4796	10
62.85		1.4786	1.4775	
65.2	4	1.4308		
65.55		1.4240	1.4231	5
65.75		1.4201	1.4221	
68.18	10	1.3754	1.3750	7
68.22		1.3740	1.3733	
70.80	4	1.3308		
73.58	4	1.2872	1.2869	8
73.65		1.2861	1.2854	

1/ Separated from specimen 61-ASn-413, Rapid River

2/ Separated from specimen 61-ASn-413D, Rapid River

3/ Separated from specimen 62-ASn-RR-Y, Rapid River

4/ Fragment from drill core specimen, Camp Creek, near Lost River mine.

5/ From diaspore veinlet in specimen 62-ASn-TC30

6/ Reference specimen furnished by Dr. D. F. Hewett, U. S. Geological Survey, from Cuba

7/ Reference specimen furnished by Fred Hildebrand, U.S. Geological Survey, from Chester, Massachusetts

8/ Brackets signify a double peak

In figures, fourth decimal place is included only as check against interpolation from conversion tables, which are in tenths of a degree.