

Table 12.--Radiochemical analyses of waters in northwestern Alaska  
Radiochemical analytical results in micromicrocuries per liter

TEI-753

Number on map (fig. 13)	Source	Location	Date of Collection	Discharge (cfs)	Temperature (°F)	Alpha activity	Beta activity	Radium (Ra)	Uranium (U)	Strontium-89 (Sr)	Strontium-90 (Sr)	Cesium-137 (Cs)
1	East Fork Ipevik River.....	50 miles ENE Point Hope, Alaska. (Approx. 68°33'N 164°54'W).....	Sept. 7, 1959	a 200	38	< 1.3 as of Oct. 1	4.8 ± 1.3 as of Sept. 24	< 0.1	0.4 ± 0.1	< 1	< 0.5	< 14
2	Kukpuk River.....	16 miles ENE of Point Hope, Alaska. (Approx. 68°24'N 166°12'W).....	Aug. 29, 1959	3,000	47	< .9 as of Sept. 25	9.9 ± 1.0 as of Sept. 24	< .5	0.3 ± 0.1	< 1	< .5	< 11
3	Ipevik River.....	½ mile upstream from confluence with Kukpuk River near Point Hope, Alaska. (Approx. 68°20'N 165°42'W).....	Sept. 1, 1959	a 1,600	46	< .3 as of Oct. 1	7.5 ± 1.1 as of Sept. 24	0.1 ± 0.1	0.2 ± 0.1	< 1	0.5 ± 0.5	< 13
4	Chukchi Sea.....	2 miles south of Point Hope, Alaska. (Approx. 68°20'N 166°50'W).....	Sept. 2, 1959	--	49	< 130 as of Sept. 25	390 ± 170 as of Sept. 23	0.4 ± 0.1	3.2 ± 0.3	< 1	< .5	.....
5	Ahgahyoukuk Creek.....	22 miles SE of Point Hope, Alaska. (Approx. 68°13'N 166°02'W).....	Aug. 25, 1959	a 5	50	< .3 as of Sept. 24	4.7 ± 1.3 as of Sept. 24	< .1	0.4 ± 0.1	< 1	0.5 ± 0.5	< 23
6	Pond (West).....	Control pond, 6½ miles north of Chariot site, Alaska. (Approx. 68°12'N 165°44'W).....	Aug. 4, 1959	--	51	< .2 as of Sept. 24	29 ± 4 as of Sept. 23	< .5	< .1	< 1	< .5	.....
7	Pond (East).....	Control pond, 6½ miles north of Chariot site, Alaska. (Approx. 68°12'N 165°41'W).....	Aug. 4, 1959	--	48	< .5 as of Sept. 24	18 ± 3 as of Sept. 23	0.4 ± 0.1	< .1	< 1	0.5 ± 0.5	< 20
8	Kukpuk River.....	15 miles NE of Chariot site, Alaska. (Approx. 68°13'N 165°22'W).....	Sept. 1, 1959	a 1,000 to 1,200	47	< 1.0 as of Sept. 24	6.6 ± 1.0 as of Sept. 24	0.9 ± 0.1	0.3 ± 0.1	< 1	< .5	< 14
9	Ogotoruk Creek.....	At Chariot site, 1.2 miles upstream from mouth and 7 miles SE of Cape Thompson, Alaska. (Approx. 68°07'N 165°45'W).....	Aug. 6, 1959	5	45	< .3 as of Sept. 24	4.8 ± 1.0 as of Sept. 23	< .5	< .1	< 1	< .5	< 20
9	..... do .....	..... do .....	Aug. 28, 1959	144	42	< .3 as of Sept. 24	5.4 ± 0.8 as of Sept. 24	< .1	< .1	< 1	< .5	< 45
10	Lagoon at mouth of Ogotoruk Creek.....	At Chariot site, 7 miles SE of Cape Thompson, Alaska. (Approx. 68°06'N 165°45'W).....	Aug. 20, 1959	--	50	0.5 ± 0.4 as of Sept. 29	6.2 ± 1.0 as of Sept. 23	< .5	0.1 ± 0.1	< 1	< .5	.....
10	..... do .....	..... do .....	Aug. 29, 1959	--	43	< .4 as of Sept. 24	5.3 ± 0.8 as of Sept. 24	< .2	0.1 ± 0.1	< 1	< .5	< 50
11	Chukchi Sea.....	½ mile offshore from Chariot site and 125 miles NW of Kotzebue, Alaska. (Approx. 68°06'N 165°45'W).....	Aug. 24, 1959	--	49	161 as of Oct. 1	210 ± 170 as of Sept. 18	0.2 ± 0.1	4.2 ± 0.4	< 1	< .5	< 12
12	Kisimulowk Creek.....	½ mile upstream from mouth and 11 miles NW of Cape Seppings, Alaska. (Approx. 68°04'N 165°30'W).....	Aug. 15, 1959	--	59	0.4 ± 0.3 as of Sept. 29	6.0 ± 1.0 as of Sept. 23	< .5	< .1	< 1	< .5	.....
13	Covreruk Springs.....	9 miles SE of Cape Seppings, Alaska. (Approx. 63°53'N 164°53'W).....	Aug. 15, 1959	30								
13	..... do .....	..... do .....	Sept. 9, 1959	22.7	39	8.0 ± 8.0 as of Sept. 24	< 10 as of Sept. 24	0.2 ± 0.1	0.5 ± 0.1	< 1	0.5 ± 0.5	< 17
14	Noatak River <sup>b</sup> .....	At confluence with Kelly River, 75 miles north of Kotzebue, Alaska. (Approx. 67°55'N 162°25'W).....	Sept. 9, 1959	a 2,000	39	< 1.0 as of Sept. 25	1.5 ± 1.0 as of Sept. 26	0.1 ± 0.1	0.4 ± 0.1	< 1	< .5	< 10
15	Walik River.....	15 miles NE of Kivalina, Alaska. (Approx. 67°45'N 164°26'W).....	Aug. 7, 1959	a 330	49	< 1.1 as of Sept. 24	2.7 ± 0.4 as of Sept. 23	0.1 ± 0.1	0.4 ± 0.1	< 1	< .5	.....

<sup>a</sup> Estimated.

<sup>b</sup> Probably represents water principally from Kelly River.

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