

Table 11.--Chemical composition of waters in northwestern Alaska

Analytical results in parts per million except as indicated

TEL-753

Number on map (fig. 13)	Source	Location	Date of Collection	Discharge	Silica (SiO ₂)	Alumi- num (Al)	Iron (Fe)	Man- ganese (Mn)	Zinc (Zn)	Calcium (Ca)	Mag- nesium (Mg)	Sodium (Na)	Potas- sium (K)	Bicar- bonate (HCO ₃)	Car- bonate (CO ₃)	Sul- fate (SO ₄)	Chloride (Cl)	Fluo- ride (F)	Nitrite (NO ₂)	Nitrate (NO ₃)	Ortho- phos- phate (PO ₄)	Dissolved solids (residue at 180°C)	Hardness as CaCO ₃	Specific conductance (micro- mhos at 25°C)	pH	
1	East Fork Ipevik River	50 miles SSE Point Hope, Alaska. (Approx. 68°33'N 164°54'W)	Sept. 7, 1959	a 200	0.2	0.2	0.16	0.00	0.0	45	12	9.6	0.6	157	0	51	1.0	0.1	--	0.0	0.00	212	162	348	8.0	
2	Kukpak River	16 miles ENE of Point Hope, Alaska. (Approx. 68°24'N 166°12'W)	Aug. 29, 1959	3,000	.0	.2	.49	.00	.0	30	7.5	6.6	.6	94	0	37	4.0	.1	--	.0	.00	143	106	242	7.7	
3	Ipevik River	1/4 mile upstream from confluence with Kukpak River near Point Hope, Alaska. (Approx. 68°20'N 165°42'W)	Sept. 1, 1959	a 1,600	4.3	.0	.18	.00	.0	27	5.8	6.2	.6	85	0	31	2.0	.0	--	.0	.00	129	91	212	7.7	
4	Chukchi Sea	2 miles south of Point Hope, Alaska. (Approx. 68°20'N 166°50'W)	Sept. 2, 1959	--	.0	.7	.04	.00	.0	306	936	7,660	295	120	0	1,950	13,700	2.0	0.03	.0	.15	b 27,500	4,610	38,600	7.9	
5	Angahyoukuk Creek	22 miles SE of Point Hope, Alaska. (Approx. 68°13'N 166°02'W)	Aug. 25, 1959	a 5	2.1	c .0	c .01	c .00	.0	64	7.8	2.7	.6	197	0	30	4.0	.1	--	.0	.00	212	192	365	7.8	
6	Fond (West)	Control pond, 6 1/2 miles north of Chariot site, Alaska. (Approx. 68°12'N 165°44'W)	Aug. 4, 1959	--	.0	c .4	c .43	c .00	.0	1.2	.0	4.0	.4	6	0	1.2	4.0	.1	--	.0	.00	36	3	34	5.7	
7	Fond (East)	Control pond, 6 1/2 miles north of Chariot site, Alaska. (Approx. 68°12'N 165°41'W)	Aug. 4, 1959	--	.0	c .1	c .14	c .00	.0	4.4	6.1	13	.8	17	0	46	2.0	.2	.00	.0	.00	94	36	153	6.4	
8	Kukpak River	15 miles NE of Chariot site, Alaska. (Approx. 68°13'N 165°22'W)	Sept. 1, 1959	a 1,000 to 1,200	1.9	.0	.28	.00	.0	32	9.7	5.7	.6	105	0	42	1.0	.3	--	.0	.00	166	120	260	7.7	
		At Chariot site, 1.2 miles upstream from mouth and 7 miles SE of Cape Thompson, Alaska. (Approx. 68°13'N 165°22'W)																				44	24	75	6.6	
9	do	do	Aug. 28, 1959	144	1.6	.1	.14	.00	.0	7.2	2.7	5.6	.6	19	0	20	4.0	.0	--	.0	.00	55	29			
10	Lagoon at mouth of Ogostoruk Creek	At Chariot site, 7 miles SE of Cape Thompson, Alaska. (Approx. 68°06'N 165°45'W)	Aug. 20, 1959	--	4.0	c .0	c .01	c .00	.0	7.6	3.6	14	.8	22	0	22	17	.1	--	.0	.00	81	34	147	6.9	
10	do	do	Aug. 29, 1959	--	1.4	c .0	c .06	c .00	.0	9.6	1.9	6.1	.6	22	0	21	4.0	.1	--	.0	.00	61	32	101	6.9	
11	Chukchi Sea	1/2 mile offshore from Chariot site and 125 miles NW of Kotzebue, Alaska. (Approx. 68°06'N 165°45'W)	Aug. 24, 1959	--	3.3	.8	.04	.00	.0	349	1,180	9,400	313	133	0	2,910	16,600	2.1	.00	.0	.00	d 31,700	5,720	45,000	7.9	
12	Kisimulok Creek	1/2 mile upstream from mouth and 11 miles NW of Cape Seppings, Alaska. (Approx. 68°04'N 165°30'W)	Aug. 15, 1959	--	4.3	c .1	c .04	c .00	.0	2.0	1.2	5.9	.4	12	0	7.4	4.0	.1	.00	.0	.00	31	10	46	6.4	
13	Covreruk Springs	9 miles SE of Cape Seppings, Alaska. (Approx. 67°53'N 164°53'W)	Aug. 15, 1959	30	4.5	--	c .00	c .00	--	69	48	350	17	162	0	101	660	.1	--	.0	.01	d 1,330	370	2,470	7.6	
13	do	do	Sept. 9, 1959	22.7	1.9	.0	.03	.00	.0	74	54	420	14	153	0	112	760	.1	.05	.0	.00	1,650	406	2,910	7.7	
14	Moatak River	At confluence with Kelly River, 75 miles north of Kotzebue, Alaska. (Approx. 67°55'N 162°25'W)	Sept. 9, 1959	a 2,000	2.4	.0	.06	.00	.0	39	7.3	1.2	.4	131	0	22	1.0	.1	--	.0	.00	125	127	251	7.9	
15	Walik River	15 miles NE of Kivalina, Alaska. (Approx. 67°45'N 164°26'W)	Aug. 7, 1959	a 330	3.1	.0	.04	.00	.0	44	5.6	6.0	.4	127	0	24	11	.1	--	.0	.00	163	133	283	7.8	
16	Singoalik River	1.5 miles upstream from mouth and 2 miles NW of Cape Seppings, Alaska. (Approx. 67°59'N 165°13'W)	Aug. 19, 1959	--	3.0	--	c .03	c .00	--	23	8.1	3.8	.7	91	0	17	3.0	.0	.00	.2	.00	d 104	91	191	7.7	
17	Creek flowing into SE end of Husikpok Lagoon	100 feet above mouth and 4 miles SE of Cape Seppings, Alaska. (Approx. 67°58'N 165°10'W)	Aug. 15, 1959	--	.25	2.8	--	c .02	c .01	--	45	16	3.8	.7	193	0	17	4.0	.0	.00	.1	.00	d 184	178	332	8.1
18	Rusocaruk Creek	500 feet upstream from mouth, 3 miles NW of Chariot site, and 4 miles SE of Cape Thompson, Alaska. (Approx. 68°07'N 165°51'W)	Aug. 17, 1959	--	.07	4.8	--	c .02	c .00	--	53	54	430	22	138	0	88	814	.1	.00	.9	.00	d 1,530	354	2,950	7.7

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

a Estimated

b Includes 69 ppm bromide and 3.1 ppm boron; density at 20°C 1.018.

c In solution when analyzed.

d Includes 98 ppm bromide and 3.4 ppm boron; density at 20°C 1.021.

e Probably represents water principally from Kelly River.