

	Greenland and EU criteria [i,ii] Tap water	Danish criteria [iii] From water works	Kangilinn- guit (04.A)		Kangerluar- sunguaq (06.A)	Qorlortup Qoorua (06.B)		Saarup Tassersua (06.C)
			Stream 1	Stream 2		Lake	Water- fall	
Sampling date			23-08-2006	22-08- 2006		21-08-2006		18-08- 2006
Colour	mg Pt/l		<5	1.2	1.3	None	None	None
Turbidity	FTU	(<1)	<0.3	0.13	0.20	0.74	0.29	0.21
Conductivity	mS/m	<250	(>30)	4.9	5.0	<5.0	<5.0	<5.0
Conductivity (field measurement)				...	...	15	12	12
pH		6.5-9.5	7-8.5	7.8	8.0	7	5.9	6.6
pH (field measurement)				...	...	...	6.34	7.16
NVOC (non-volatile organic carbon)	mg/l		<4	0.46	0.40	0.73	0.4	0.63
Total solids at 105°C (non evaporable residue)	mg/l		<1,500	30	24	<10	36,8	<10
TOC				.	.	0.7	0.4	0.6
Inorganic ions								
Calcium, Ca ⁺⁺	mg/l		(<200)	6.1	6.9	<1.0	<1.0	<1.0
Magnesium, Mg ⁺⁺	mg/l		<50	<1.0	<1.0	<0.5	<0.5	<0.5
Total hardness	dH		(5-30)	1.0	1.1	<0.5	<0.5	<0.5
Sodium, Na ⁺	mg/l	<200	<175	2.4	1.9	1.8	1.6	1.6
Potassium, K ⁺	mg/l		<10	0.90	<0.20	0.63	0.41	0.38
Ammonium, NH ₄ ⁺	mg/l	<0.5	<0.05	<0.006	0.012	<0.010	<0.010	<0.010
Iron, Fe	mg/l	<0.2	<0.1	<0.010	<0.010	<0.005	0.006	0.007
Manganese, Mn	mg/l	<0.05	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Hydrogen carbonate, HCO ₃ ⁻	mg/l		(>100)	29.2	29.6	6	3	5
Chloride, Cl ⁻	mg/l	<250	<250	1.6	1.1	3.5	2.5	2.7
Sulphate, SO ₄ ²⁻	mg/l	<250	<250	1.4	1.1	1.39	0.70	0.84
Nitrate, NO ₃ ⁻	mg/l	<50	<50	<0.05	<0.05	<0.010	<0.010	0.021
Nitrite, NO ₂ ⁻	mg/l		<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
Total phosphorous, P	mg/l		<0.15	<0.005	<0.005	<0.01	<0.01	<0.01
Fluoride, F ⁻	mg/l	<1.5	<1.5	0.085	0.14	0.22	<0.02	<0.02
Bromide, Br ⁻	µg/l			<5.0	<5.0	<0,1	<10	<10
Oxygen, O ₂	mg/l		>5[iv]	2.2	<2.0	1	2	<1
Aggressive carbon dioxide, CO ₂	mg/l		<2	.	.	5	5	4
Methane	mg/l		<0.01	.	.	<0.01	<0.01	<0.01
Silicic acid (Silicium**)	mg/l			2.2**	1.0**	0.57	1.2	1.2
Hydrogen sulphide	mg/l			<0.005	<0.005	<0.005	<0.005	<0.005
Metals								
Aluminium, Al	µg/l	<200	<100	7.2	7.4	7.0	8.6	5.6
Antimony, Sb	µg/l	<5	<2	<0.2	<0.2	0.032	0.031	0.093
Arsenic, As	µg/l	<5	<5	<0.03	<0.03	<0.06	<0.06	<0.06
Barium, Ba	µg/l		<700	2	16	2.7	1.8	1.8
Boron, B	µg/l	<1000	<1000	<10	<10	<50	<50	<50
Cadmium, Cd	µg/l	<5	<2	0.005	0.005	<0.03	<0.03	<0.03
Chromium, Cr	µg/l	<50	<20	0.08	0.09	<0.5	<0.5	<0.5
Copper, Cu	µg/l	<2000	<100	0.18	0.19	0.9	1.0	1.8
Cyanide, Cn	µg/l	<50	<50	<1	<1	<1	<1	<1

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			Stream 1	Stream 2			Lake	Water-fall		
Lead, Pb	µg/l	<10	<5	0.032	0.073	0.09	0.11	0.18	0.065	
Mercury, Hg	µg/l	<1	<1	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, Ni	µg/l	<20	<20	<0.030	<0.030	0.4	0.1	1.1	0.3	
Selenium, Se	µg/l	<10	<10	0.06	<0.05	<0.3	<0.3	<0.3	<0.3	<0.3
Silver, Ag	µg/l		<10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.56
Zinc, Zn	µg/l	<100	<100	0.9	1.1	3.2	3.3	4.2	2.6	
Beryllium, Be	µg/l			<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Cobalt, Co	µg/l			<0.040	<0.040	<0.1	<0.1	<0.1	<0.1	<0.1
Niobium, Nb	µg/l			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Strontium, Sr	µg/l			.	.	4.2	3.1	3.5	8.6	
Tantalum, Ta	µg/l			.	.	<0.1	<0.1	<0.1	<0.1	<0.1
Uranium, U	µg/l			0.76	0.26	0.3	<0.1	0.10	<0.1	<0.1
Vanadium, V	µg/l			<0.5	<0.5	<1	0.12	<1	<1	<1
Zirconium, Zr	µg/l			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PAH, PCB, pesticides and PCP [v]										
Sum of Benzo(b+k)fluoranthene	µg/l	<0.1	<0.1	0	0	0	0.140	0	0	0
Benzene	µg/l	<1	<1	0.056	0.18	0	0	0	0	0
Toluene	µg/l		<1	1.8	2.5	0.04	0	0	0	0.08
Ethylbenzene	µg/l		<1	0.14	0.17	0	0	0	0	0
M+p-xylene	µg/l		<1	0.64	0.64	0	0	0	0	0.04
o-xylene	µg/l		<1	0.10	0.12	0	0	0	0	0
Bacteria and spores										
Total coliforms	/100ml	0	0	.	.	10	.	97	.	-
E. coli	/100 ml	0	0	.	.	-	.	-	.	-
Colony counts 37°C	/ml	<20 [vii]	<5	.	.	1	.	20	.	-[vi]
Colony counts 22°C	/ml	<100 [vii]	<50	.	.	58	.	100	.	1
Faecal streptococcus	/100 ml	0	0	.	.	.	.	.	.	.
Clostridium perfringens	/100 ml	0	0	.	.	-	.	-	.	-
Clostridium perfringens (spores)	/100 ml	0	0	.	.	-	.	-	.	-
Pseudomonas aeruginosa	/100 ml	0 [vii]		.	.	-	.	-	.	-
Laboratory	Miljølaboratoriet, DK (2006)				Eurofins, DK (2006)			Dronning Ingrids Hospital (DIH), Nuuk (2006)		

- [i] Greenland Home Rule: Order No. 7 of 17. March 2008 on water quality and inspection of water supply plants. Criteria for water at the users' tap
- [ii] European Union: The Council directive 98/83/EC of 3 November 1998 on quality of water intended for human consumption. Criteria for water at the users' tap
- [iii] The Danish Environmental Ministry: Order no. 1449 of 21st. December 2007 on water quality and inspection of water supply plants. Criteria for water leaving treatment plant
- [iv] Oxygen content at the consumer tap should be greater than 5 mg/l, ref. [iii]
- [v] All analyses are below detection limit except mentioned
- [vi] Sample from 30-08-3006 shows 4 counts/ml
- [vii] Bottled water

Bold figures indicate that DK quality criteria for water from treatment plant are exceeded; figures in **bold and red** indicate quality criteria for water at the user tap are exceeded

- No analysis
- ... No information available
- 0 Below detection limit
- Zero
- Ad [iii] For water leaving the water works (values in parenthesis are recommended)
- Ad [ii] Some values are indicator parameters and if exceeded a risk assessment of consequences for human health should be made. For microbiological and chemical parameters (heavy metals, contaminants) the maximum values must be complied with