Stockholm Vatten och Avfall
Kvalitet och kontroll VA
Tel. 08-522 120 00
kund@svoa.se

Datum 2026-03-30

Drinking Water Quality at Norsborg Waterworks, 2025

Parameter		Unit	Raw water *mean* (1)	Drinking water *mean*(1)	Limit value(2)
Microbiological parameters					
Actinomycetes		cfu/100 ml	12	< 1	100(3)
Cultivable microorganisms, 3 days		cfu/ml	267	1	No abnormal change (4, 3)
Slow-growing bacteria, 7 days		cfu/ml	95	1	No abnormal change(5, 3)
Presumptive *Clostridium perfringens*		cfu/100 ml	1	< 1	Detected (3)
Intestinal enterococci		cfu/100 ml	1	< 1	Detected
E. coli		cfu/100 ml	1	< 1	Detected
Coliform bacteria		cfu/100 ml	165	< 1	Detected
Microscopic fungi		/100 ml	94	1	100(3)
Chemical parameters					
Alkalinity	HCO_3	mg/l	49	53	-
Acrylamide	C_3H_5NO	µg/l	< 0.050	< 0.050	0.1(3)
Aluminium	Al	µg/l	110	23	200(3)
Ammonia	NH_4^+	mg/l	0.017	0.074	0.50(3)
Antimony	Sb	µg/l	0.11	0.11	10(3)
Arsenic	As	µg/l	0.52	0.35	5.0(3)
Benzene	C_6H_6	µg/l	< 0.20	< 0.20	1.0(3)
Benzo(a)pyrene	$C_{20}H_{12}$	µg/l	< 0.0030	< 0.0030	0.010(3)
Bisphenol A	$C_{15}H_{16}O_2$	µg/l	< 0.0050	< 0.0050	2.5(3)
Lead	Pb	µg/l	0.10	1.8	5.0(3)
Boron	B	mg/l	0.019	0.017	1.5(3)
Bromate	BrO_3^-	µg/l	< 2.0	< 2.0	10(3)
Cyanide	CN^-	µg/l	< 0.50	0.57	50(3)
1,2-dichloroethane	$C_2H_4Cl_2$	µg/l	< 1.0	< 1.0	3.0(3)
Epichlorohydrin	C_3H_5ClO	µg/l	< 0.05	< 0.05	0.10(3)
Fluoride	F^-	mg/l	0.27	< 0.20	1.5(3)
Colour	Pt	mg/Pt/l	28	5.5	15
Halogenated acetic acids (HAA)		µg/l	< 1.75	< 1.75	60(3)
Iron	Fe	µg/l	54	1.0	100
Cadmium	Cd	µg/l	< 0.0040	0.0092	0.50(3)
Potassium	K	mg/l	2.4	2.4	-
Calcium	Ca	mg/l	17	24	100(3)
Chlorine, Total active		mg/l	-	0.25	0.40(6)
Chlorate	ClO_3	mg/l	< 0.00500	0.028	0.70(3)
Chloride	Cl^-	mg/l	13	13	250(3)
Chlorite	ClO_2^-	mg/l	< 0.020	< 0.020	0.70(3)
Conductivity		µS/cm	180	230	2500(3)
Copper	Cu	mg/l	0.0020	0.0016	2.0(3)
Chromium	Cr	µg/l	0.15	0.17	25(3)
Mercury	Hg	µg/l	< 0.1	< 0.1	1.0(3)
Odor, field and laboratory		Ingen		Ingen	Tydlig(3)
Magnesium	Mg	mg/l	4.2	4.2	30(3)
Manganese	Mn	µg/l	19	0.16	50(3)
Microcystin-LR (during bloom)	$C_{49}H_{74}N_{10}O_{12}$	µg/l	< 0.30	< 0.30	1.0(3)
Sodium	Na	mg/l	11	11	200(3)

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Nickel	Ni	µg/l	2.0	1.8	20(3)
Nitrate	NO_3^-	mg/l	0.74	0.88	50(3)
Nitrite	NO_2^-	mg/l	0.0083	< 0.0070	0.10
PFAS 4		ng/l	2.5	2.5	4.0(3)
PFAS 21		ng/l	7.8	8.3	100(3)
pH		pH-units	7.6	8.3	10.5
Sum of polyaromatic hydrocarbons (PAH)		µg/l	< 0.0090	< 0.0090	0.10(3)
Selenium	Se	µg/l	< 0.50	< 0.50	20(3)
Sulfate	SO_4^{2-}	mg/l	23	42	250(3)
Total hardness		°dH	3.3	4.4	-
Tetrachloroethene and trichloroethene	C_2Cl_4/C_2HCl_3	µg/l	< 2.0	< 2.0	10(3)
Total organic carbon (TOC)		mg/l	9.0	4.1	No abnormal change(3.7)
Sum of trihalomethanes (THM)		µg/l	< 4.0	< 4.0	100(3)
Turbidity		FNU	1.7	0.05	0.5(3)
Water temperature		°C	9.5	9.4	-
Vinyl chloride	C_2H_3Cl	µg/l	< 0.50	< 0.50	0.50(3)
Pesticides, total		µg/l	< LOQ(8)	< LOQ(8)	0.50(3)
Aldrin	$C_{12}H_8Cl_6$	µg/l	< 0.03	< 0.03	0.030(3)
Dieldrin	$C_{12}H_8Cl_6O$	µg/l	< 0.03	< 0.03	0.030(3)
Heptachlor	$C_{10}H_5Cl_7$	µg/l	< 0.03	< 0.03	0.030(3)
Heptachlor epoxide	$C_{10}H_5Cl_7O$	µg/l	< 0.03	< 0.03	0.030(3)
Pesticides, individual		µg/l	< LOQ(8)	< LOQ(8)	0.10(3)

1) The reported results represent annual mean values for the specified parameters for the year 2025. The symbol “<” denotes “less than”.
2) Applicable limit values in the Swedish National Food Agency’s Drinking Water Regulations (LIVSFS 2022:12) for treated drinking water.
3) No limit value for treated drinking water is specified in LIVSFS 2022:12; the stated limit value applies to drinking water at the point of use.
4) The limit value defined by Stockholm Water and Waste for “no abnormal change” is 100 cfu/ml.
5) The limit value defined by Stockholm Water and Waste for “no abnormal change” is 550 cfu/ml.
6) During the warmer part of the year, monochloramine is dosed to achieve a chlorine residual of 0.3 mg/l Cl_2 in treated drinking water leaving the treatment works. During the colder part of the year, the dosage is reduced to achieve a total active chlorine concentration of 0.2 mg/l Cl_2.
7) The limit value defined by Stockholm Water and Waste for “no abnormal change” is 5.5 mg/l.
8) Results below the limit of quantification (LOQ) are reported as < LOQ.