

Chemicals and trace elements from sewage treatment plants in Reykjavik 2017

Discharge of pollutants (mg/l) from sewage treatment plants in Reykjavik in 2017. The average flow in Klettagardar was 1,320 l/sec, and in Ananaust it was 1,110 l/sec. Calculations are based on results of chemical and trace element analysis from treated sewage samples, collected four times a year for nitrogen and phosphorus analysis, but twice a year for trace element analysis.

	MAR mg/l	JUN mg/l	SEP mg/l	DEC mg/l	AVERAGE mg/l
Klettagardar					
Total nitrogen (N)	5.2	15.5	17.3	8.8	11.7
Total phosphorus (P)	1.5	2.2	2.9	1.3	2.0
Arsenic (As)	<0.05*		<0.05*		Below the detection limit
Cadmium (Cd)	<0.001*		<0.001*		Below the detection limit
Chromium (Cr)	<0.005*		<0.005*		Below the detection limit
Copper (Cu)	<0.005*		<0.005*		Below the detection limit
Mercury (Hg)	<0.0005*		<0.0005*		Below the detection limit
Nickel (Ni)	<0.005*		<0.005*		Below the detection limit
Lead (Pb)	<0.005*		<0.005*		Below the detection limit
Zink (Zn)	0.0200		0.050		0.035
Ananaust					
Total nitrogen (N)	8.3	15.6	18.9	10.9	13.4
Total phosphorus (P)	2.1	3.1	3.6	2	2.7
Arsenic (As)	<0.050*		<0.050*		Below the detection limit
Cadmium (Cd)	<0.0010*		<0.0010*		Below the detection limit
Chromium (Cr)	<0.0050*		<0.0050*		Below the detection limit
Copper (Cu)	<0.0050*		0.010		Below or near the detection limit
Mercury (Hg)	<0.00050*		<0.00050*		Below the detection limit
Nickel (Ni)	<0.0050*		<0.0050*		Below the detection limit
Lead (Pb)	<0.0050*		<0.0050*		Below the detection limit
Zink (Zn)	0.0400		0.040		0.040

* Below detection limits

- When both samples collected are below the detection limits, the column "mean value" states "below the detection limit".

- When one of two samples is below the detection limits the column and the other sample is just over the detection limit, mean value is not calculated. In the column "mean value" states "below on near the detection limit".