

# Chemical analyses of hot water in the capital area in 2017

By analysing chemical properties in wells it is monitored how production fields react to utilization.

	Unit	Laugarnes	Ellidaár	Reykir	Reykjahlíð	Nesjavellir	Hellisheidi
		RV-5	RV-23	MG-25	MG-39	Heated groundwater	Heated groundwater
Date		14.2.2017	14.2.2017	6.2.2017	9.1.2017	15.3.2017	15.3.2017
Sample no.		17-5079	17-5083	17-5073	17-5009	17-5128	17-5129
Water temp.	°C	128.4	87.8	90.7	92.2	80	80
Acidity	pH	9.51	9.57	9.72	9.77	8.49	8.30
pH-temp.	°C	21.9	22.3	22.3	22.1	22.6	22.4
Conductivity	µS/cm	370	237	218	233	171	101
Conduct.temp.	°C	22.1	22.3	22.3	22.2	22.2	22.0
CO <sub>2</sub>	mg/kg	18.9	28.3	25.1	26.5	40.6	27.1
H <sub>2</sub> S	mg/kg	0.61	0.02	0.72	1.18	0.53	0.14
SiO <sub>2</sub>	mg/kg	142.1	79.7	93.6	97.2	44.8	27.5
Na	mg/kg	69.9	46.2	45.3	46.5	18.5	7.9
K	mg/kg	2.87	1.09	0.95	1.10	2.49	1.12
Ca	mg/kg	3.78	3.07	0.40	2.02	8.22	5.28
Mg	mg/kg	<0.005	0.0205	<0.005	0.0580	4.1633	3.0693
Fe	mg/kg	0.012	0.012	<0.005	0.095	0.009	<0.005
Al	mg/kg	0.19	0.122	0.158	0.301	0.107	0.012
Li	mg/kg	-	-	-	-	-	-
Cl	mg/kg	53.4	26.3	15.0	13.1	13.8	7.4
SO <sub>4</sub>	mg/kg	27.3	13.5	16.2	15.7	11.9	3.6
F	mg/kg	1.120	0.263	0.625	0.748	0.151	0.102
B	mg/kg	0.065	<0.01	0.038	0.043	0.089	<0.01
Dissolved O <sub>2</sub>	µg/kg	0	300	0	0	0	0