

# Chemical analyses of hot water in the capital area 2018

By analysing the chemical properties in wells it can be monitored how production fields react to utilization.

	Unit	Laugarnes RV-5	Ellidaár RV-23	Reykir MG-25	Reykjahlíð MG-39	Nesjavellir Heated groundwater	Hellisheidi Heated groundwater
Date		22.1.2018	17.1.2018	1.3.2018	5.2.2018	8.3.2018	8.3.2018
Sample no.		18-5019	18-5011	18-5081	18-5043	18-5102	18-5103
Water temp.	°C	127.9	89.0	90.3	92.2	80	80
Acidity	pH	9.50	9.48	9.75	9.81	8.49	7.61
pH-temp.	°C	22.3	22.7	23.1	22.4	22.7	22.8
Conductivity	µS/cm	346	200	231	193	207	93
Conduct.temp.	°C	22.3	22.3	22.4	22.3	22.3	22.3
CO <sub>2</sub>	mg/kg	15.8	26.5	24.5	24.8	40.8	23.9
H <sub>2</sub> S	mg/kg	0.53	0.00	0.76	1.28	0.41	0.20
SiO <sub>2</sub>	mg/kg	143.0	81.4	96.7	97.4	54.0	24.5
Na	mg/kg	73.5	46.8	45.4	47.8	22.2	6.4
K	mg/kg	2.97	1.10	0.91	1.03	2.87	0.86
Ca	mg/kg	3.97	3.01	2.44	1.96	9.33	5.00
Mg	mg/kg	<0.005	-	-	-	4.423	2.813
Fe	mg/kg	0.007	0.015	0.01	-	0.006	-
Al	mg/kg	0.191	0.117	0.159	0.186	0.178	-
Li	mg/kg	-	-	-	-	-	-
Cl	mg/kg	62.2	26.4	15.9	13.2	16.8	6.8
SO <sub>4</sub>	mg/kg	30.7	13.6	15.4	16.3	15.2	3.0
F	mg/kg	0.950	0.282	0.690	0.824	0.155	0.091
B	mg/kg	0.068	0.023	0.038	0.036	0.148	
Dissolved O <sub>2</sub>	µg/kg	0	-	0	0	0	0