

Hydrochemical characterization and assessment of groundwater in the Bechar-Kenadsa Coal Basin (Southwestern Algeria)

Caratterizzazione e valutazione idrochimica delle acque sotterranee nel bacino carbonifero di di Bechar-Kenadsa (Algeria sud ovest)

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Supplementary file - File supplementare

The analytical results of the 37 water samples

N°	Designation	T °C	pH	EC µS/cm	Ca ⁺² mg/L	Mg ⁺² mg/L	Na ⁺ mg/L	K ⁺ mg/L	HCO ₃ ⁻ mg/L	Cl ⁻ mg/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Mineralization mg/L	TDS mg/L	ionic balance	TH mg/L as CaCO ₃	Mg ⁺² Hazard (MH)	HCO ₃ ⁻ Hazard (BH)	Potential salinity (PS)
1	F40 INF	24.6	7.61	4320	95	229	420	9.1	70	600	1120	58	2678	2700	-0.30	1179.41	0.7068	-254	1160
2	F49	24.6	7.66	3000	120	157	296.9	4.9	244	460	650	19	1860	1890	1.79	945.49	0.5668	-33	785
3	F43	24.5	7.27	4582	190	237	358.6	5	189	1080	580	10	2841	2700	-1.22	1449.36	0.5550	-238	1370
4	F41	24.5	7.42	5590	276	247	300	2.8	192	900	900	15	2914	2910	-0.32	1705.08	0.4723	-331	1350
5	F48	24.6	7.75	1993	115	72	187.6	3.1	107	300	440	22	1229	1260	0.42	583.22	0.3850	-80	520
6	F32	24.7	7.72	7050	118	214	1009.25	9	210	1500	1000	41	4371	4200	0.27	1175.07	0.6446	-122	2000
7	F24	24.6	7.3	8600	268	464	550	8.71	217	800	2400	58	5332	5200	-0.88	2578.13	0.6339	-515	2000
8	F150	24.7	6.7	5500	346	222	500	17.25	281	800	1200	200	3410	3520	2.06	1776.85	0.3908	-287	1400
9	F17	24.5	7.3	7450	311	308	776.75	6.5	214	1180	1800	10.5	4619	4650	0.24	2043.44	0.4976	-405	2080
10	F9	24.6	7.06	3310	167	151	300	4.8	259	500	600	120	2053	2090	1.72	1038.07	0.4748	-59	800
11	F7	24.5	7.5	4940	196	186	560	8.5	281	880	980	53	3060	3100	-1.04	1254.45	0.4869	-101	1370
12	F4	24.6	7.17	6335	230	157	900	6.25	207	1400	1000	8	3925	3960	-0.12	1219.94	0.4057	-180	1900
13	F165	24.7	7.39	8840	200	242	1300	10.5	125	2000	1400	60	5481	5390	-1.09	1494.89	0.5475	-317	2700
14	F155	24.7	7.04	16990	531	408	2624	13.5	180	4400	2200	17	10534	10400	0.39	3003.86	0.4345	-759	5500
15	F153	24.5	7.55	6700	220	135	1000	26.25	137	1580	950	4	4154	4090	-0.32	1104.46	0.3803	-218	2055
16	F115	24.5	7.34	3810	272	211	235.3	3	281	462.5	980	36	2375	2400	3.26	1546.96	0.4369	-202	952.5
17	F118	24.5	7.48	5200	223	250	491.25	4.5	198	800	1250	40	3224	3280	0.65	1585.19	0.5285	-275	1425
18	F105	24.6	7.44	2270	57	82	270	5.2	64	440	400	7	1410	1380	-1.01	479.66	0.5899	-75	640
19	F122	24.6	7.64	2830	45	170	213	2.6	235	380	500	23	1755	1620	0.40	811.86	0.7907	20	630
20	F141	24.5	7.7	4330	173	124	615	3.75	165	950	700	26	2685	2700	1.30	941.92	0.4175	-132	1300
21	F128	24.6	7.18	2810	165	88	280	17	189	400	625	96	1742	1780	-1.51	773.82	0.3478	-64	712.5
22	F142	24.5	7.66	13000	165	399	2100	94	162	3250	1800	3	8060	8000	1.09	2053.65	0.7074	-402	4150
23	F101	24.5	6.78	4310	181	286	244.4	2.7	160	750	550	332	2602	2680	3.19	1628.55	0.6124	-307	1025
24	F97	24.6	7.61	7900	61	89	199	17.85	128	310	350	22	1176	1190	2.61	518.45	0.5933	-22	485
25	F86	24.7	7.43	15390	453	645	1836	12	171	2800	3200	12	9542	9200	2.36	3784.56	0.5874	-927	4400
26	F90	24.5	7.61	6270	165	219	800	17.5	195	1230	1200	9	3887	3910	-1.24	1312.91	0.5703	-189	1830
27	F94	24.5	7.2	4270	243	209	382.25	4.25	293	900	650	17	2647	2680	2.28	1466.37	0.4624	-159	1225
28	F82	24.5	7.59	4310	196	237	363.8	2.7	162	600	1050	57	2672	2680	3.20	1464.33	0.5473	-271	1125
29	F81	24.7	7.57	5420	256	242	475.4	8.75	192	720	1500	14.5	3360	3400	-1.24	1634.61	0.4859	-306	1470
30	F76	24.6	7.51	4265	115	294	300	4.1	207	500	1100	43	2644	2610	2.35	1496.80	0.7188	-202	1050
31	F65	24.5	7.61	7070	186	219	1000	11	165	1500	1200	12	4383	4300	0.61	1365.31	0.5407	-240	2100
32	F57	24.5	7.97	4268	268	168	347.6	3.9	308	600	900	20	2646	2650	1.64	1360.02	0.3853	-128	1050
33	F55	24.6	7.42	7780	915	180	408.4	4.7	226	600	2800	10	4824	5000	-0.47	3023.67	0.1644	-869	2000
34	F77	24.6	7.51	2740	106	122	250	4	159	350	600	110	1699	1700	-0.84	766.53	0.5351	-69	650
35	F59	24.6	7.52	3375	99	144	325	3.7	235	500	550	22	1848	1880	2.06	839.60	0.5926	-8	775
36	F95	24.5	7.43	3740	98	196	380	4.6	247	600	700	120	2317	2360	0.23	1051.10	0.6667	-47	950
37	F51	24.5	7.7	4353	144	129	540	3.7	168	850	1000	2	2699	2700	-6.98	890.15	0.4725	-105	1350