

**Table S1.** Data on the surveyed water wells and their coincidence with data obtained from the LithoSFR Model to produce the GWP map.

Well No.	Location		Mapped productivity class*	Actual discharge (l/sec) **	Descriptive discharge	Geologic rock formation
	Latitude	Longitude				
1	33.24139	33.25917	High	14.7	Very high	Cenomanian
2	33.24472	35.22583	Very low	0.75	Very low	Quaternary
3	33.19417	35.24361	Low	0.65	Low	Eocene
4	33.19417	35.22028	Low	1.50	Low	Eocene
5	33.25083	35.24167	Low	3.2	Low	Quaternary
6	33.26000	35.34333	Very low	7.7	Moderate	Eocene
7	33.27972	35.27944	Very low	0.70	Very low	Cenomanian
8	33.26244	35.26637	Moderate	5.9	Moderate	Cenomanian
9	33.21111	35.22056	Low	3.7	Low	Eocene
10	33.21917	35.23222	Low	1.2	Low	Eocene
11	33.26595	35.26223	Moderate	5.2	Moderate	Quaternary
12	33.24222	35.26056	Very low	2.3	Moderate	Eocene
13	33.26417	35.21667	Very low	0.68	Very low	Quaternary
14	33.14201	35.46318	Very low	0.85	Very low	Eocene
15	33.17106	35.46211	Low	3.8	Low	Eocene
16	33.23944	35.35089	High	10.8	High	Cenomanian
17	33.25881	35.46802	Moderate	7.4	Moderate	Eocene
18	33.13871	35.27448	Very high	13.6	Very high	Cenomanian
19	33.21597	35.27941	High	9.5	High	Cenomanian
20	33.15243	35.4161	Moderate	4.3	Moderate	Cenomanian
21	33.21563	35.46336	Low	8.3	High	Eocene
22	33.23012	35.43739	Low	1.5	Low	Eocene
23	33.22409	35.43565	Low	3.6	Low	Eocene
24	33.14544	35.19508	High	11.4	High	Cenomanian
25	33.19142	35.40588	Moderate	6.8	Moderate	Cenomanian
26	33.19877	35.39899	Very high	16.7	Very high	Cenomanian
27	33.20063	35.42057	Very low	0.55	Very low	Cenomanian
28	33.16463	35.33016	Very high	14.8	Very high	Cenomanian
29	33.17080	35.35291	High	9.0	High	Cenomanian
30	33.25982	35.45408	Low	2.5	Low	Eocene
31	33.21721	35.3347	High	8.2	High	Senonian
32	33.17628	35.35588	Very high	16.8	Very high	Cenomanian
33	33.24447	35.40513	Very low	0.22	Very low	Eocene
34	33.19949	35.34269	Very high	12.7	Very high	Cenomanian
35	33.27453	35.3092	Low	3.7	Low	Cenomanian
36	33.16469	35.19587	High	11.9	High	Cenomanian
37	33.16677	35.24453	Very high	16.5	Very high	Cenomanian
38	33.17547	35.25733	High	11.5	High	Cenomanian
39	33.18564	35.30686	High	13.5	Very high	Cenomanian
40	33.18734	35.30095	High	10.9	High	Cenomanian
41	33.18257	35.30176	High	11.5	High	Cenomanian
42	33.20482	35.32589	High	12.0	High	Senonian
43	33.22674	35.35284	Very high	15.3	Very high	Cenomanian
44	33.22832	35.34584	Low	2.7	Low	Eocene
45	33.22996	35.35401	Very high	15.6	Very high	Eocene
46	33.24353	35.34418	Moderate	0.95	Very low	Senonian

47	33.24609	35.33928	Moderate	7.5	Moderate	Cenomanian
48	33.24912	35.29911	Very high	6.9	Moderate	Senonian
49	33.13954	35.30854	Very high	12.8	Very high	Cenomanian
50	33.16634	35.36534	Very high	12.5	Very high	Cenomanian
51	33.15878	35.36928	Very high	12.5	Very high	Cenomanian
52	33.18946	35.35686	Very high	16.0	Very high	Cenomanian
53	33.20015	35.29312	High	10.2	High	Eocene
54	33.25709	35.39386	High	9.5	High	Senonian
55	33.26457	35.38935	High	11.3	High	Cenomanian
56	33.16785	35.29613	Very high	12.7	Very high	Cenomanian
57	33.16763	35.28223	High	10.0	High	Cenomanian
58	33.17239	35.2083	High	10.5	High	Cenomanian
59	33.16024	35.22368	High	11.7	High	Cenomanian
60	33.25383	35.41261	Low	3.5	Low	Eocene
61	33.25122	35.42956	Moderate	5.4	Moderate	Eocene
62	33.24432	35.44862	Moderate	10.6	High	Eocene
63	33.21892	35.41476	Low	2.5	Low	Cenomanian
64	33.25727	35.36676	High	9.4	High	Cenomanian

*Shaded rows represent difference between mapped productivity and the actual discharge.*

*\* Well productivity as resulted from the LithoSFR Model for producing GWP map.*

*\*\* Measured discharge from the field surveys.*