

DRINKING WATER QUALITY - DISTRICT KARACHI RURAL AREAS

Sr. No	Sample code	Village	Union Council	Tehsil	Location	Source	Depth (ft)	Table Depth (ft)	EC µs/cm	pH	6.5-8.5	Turbidity NTU	Color	Taste	Odor	TDS	Alk m.mol/l	HCO ₃ mg/l	CO ₃ mg/l	Cl mg/l	SO ₄ mg/l	Ca mg/l	Mg mg/l	Hardness	Na mg/l	K mg/l	NO ₃ mg/l	PO ₄ mg/l	F mg/l	Fe mg/l	As ppb	Pb ppb	Total Coliform	E.Coli	Safe/ Unsafe	Permissible Limits (PSCCL)				
																																				NGVS	6.5-8.5	5.0	C.Less	Un-Obj
1	KAR-R-1	Sain Dad Brohi	Mori Sangal		Masjid				1240	8.3	4.0	C.Less	Un-Obj	Un-Obj	794	1	36	6	209	278	40	24	400	192	5	0.07	0.04	0.12	0.05	0.00	0.10			+ve	-ve	Safe				
2	KAR-R-2	Sain Dad Brohi	Mori Sangal	Gaddap	Home Abdul Khaliq Mohalla				1210	8.0	8.0	C.Less	Un-Obj	Un-Obj	774	2	52	0	202	266	40	23	390	188	4	0.02	0.02	0.14	0.04	0.00	0.07			+ve	-ve	Unsafe				
3	KAR-R-3	Sain Dad Brohi	Mori Sangal	Gaddap	Jamia masjid				1310	8.0	2.0	C.Less	Un-Obj	Un-Obj	838	2	46	0	244	262	44	23	410	205	8	BDL	0.03	0.24	0.11	0.24	0.09			+ve	+ve	Unsafe				
4	KAR-R-4	Sain Dad Brohi	Mori Sangal	Gaddap	M. Essa Brohi Mohalla	W. Supply			1310	8.0	12.0	C.Less	Un-Obj	Un-Obj	838	2	46	0	241	266	40	24	400	208	7	BDL	0.05	0.58	0.28	0.13	0.09			+ve	+ve	Unsafe				
5	KAR-R-5	Sain Dad Brohi	Mori Sangal	Gaddap	Essa Brohi Mohalla Well	Well	80		785	7.8	6.0	Muddy	Un-Obj	Un-Obj	502	4	122	0	46	171	28	30	390	90	5	1.49	0.04	0.64	0.09	0.46	0.22			+ve	+ve	Unsafe				
6	KAR-R-6	Naik Muhammad Brohi	Sangal-5	Gaddap	Madina Masjid Gousia	T. Well	80		3020	8.6	0.0	C.Less	Object	Un-Obj	1933	6	165	8	564	552	20	29	340	614	10	3.35	0.06	0.58	0.08	2.31	0.11			+ve	+ve	Unsafe				
7	KAR-R-7	Naik Muhammad Brohi	Sangal-5	Gaddap	Hotel Muhammad Bux				790	8.3	3.0	C.Less	Un-Obj	Un-Obj	506	1	39	6	142	156	22	10	190	137	5	0.44	0.05	0.24	0.12	0.00	0.08			-ve	-ve	Safe				
8	KAR-R-8	Naik Muhammad Brohi	Sangal-5	Gaddap	Home Dost Muhammad Brohi	Dam			1215	8.0	7.0	C.Less	Un-Obj	Un-Obj	778	1	43	0	209	266	42	22	390	188	5	BDL	0.09	0.24	0.21	0.12	0.07			+ve	+ve	Unsafe				
9	KAR-R-9	Naik Muhammad Brohi	Sangal-5	Gaddap	Home Khan Muhammad Brohi	Dam			1252	8.1	1.0	C.Less	Un-Obj	Un-Obj	801	2	46	0	216	272	20	24	395	196	5	0.16	0.05	0.56	0.09	0.22	0.06			+ve	+ve	Unsafe				
10	KAR-R-10	Naik Muhammad Brohi	Sangal-5	Gaddap	Main Tank	T. Well			3230	8.3	1.0	C.Less	Object	Un-Obj	2067	5	158	6	613	590	18	31	350	660	8	3.29	0.05	0.54	0.21	1.67	0.04			+ve	-ve	Unsafe				
11	KAR-R-11	Mai Gahari	Mahghoper-8	Gaddap	Jamia masjid	T. Well			3040	7.9	4.0	C.Less	Object	Un-Obj	1946	3	82	0	557	641	64	58	800	514	6	1.57	0.04	0.75	0.11	0.94	0.05			+ve	-ve	Unsafe				
12	KAR-R-12	Mai Gahari	Mahghoper-8	Gaddap	Home Murad Ali Khan				2720	7.8	8.0	C.Less	Object	Un-Obj	1741	3	82	0	464	612	52	49	660	471	10	1.14	0.05	0.56	0.27	0.64	0.11			+ve	-ve	Unsafe				
13	KAR-R-13	Mai Gahari	Mahghoper-8	Gaddap	Hotel Abdul Kazzaq				3296	8.1	5.0	C.Less	Object	Un-Obj	2109	2	52	0	578	759	38	27	410	202	6	0.11	0.06	0.87	0.33	1.81	0.23			+ve	+ve	Unsafe				
14	KAR-R-14	Mai Gahari	Mahghoper-8	Gaddap	Dargah Mai Gahari				3080	7.5	2.0	C.Less	Object	Un-Obj	1971	3	88	0	555	655	74	56	830	515	10	1.56	0.06	0.18	0.08	2.14	0.46			+ve	+ve	Unsafe				
15	KAR-R-15	Mai Gahari	Mahghoper-8	Gaddap	Main Tank Dargah				3090	7.7	9.0	C.Less	Object	Un-Obj	1977	3	82	0	560	660	80	55	850	513	9	1.65	0.08	0.65	0.04	2.62	0.08			+ve	+ve	Unsafe				
16	KAR-R-16	Haji Dildar	Mahghoper-8	Gaddap	Torrents				6860	7.3	2.0	C.Less	Object	Un-Obj	4459	2	70	0	2092	420	128	129	1700	1184	12	0.16	0.06	0.06	0.23	3.15	0.09			-ve	-ve	Unsafe				
17	KAR-R-17	Haji Dildar	Mahghoper-8	Gaddap	Hashim House	Dam			1251	7.7	3.0	C.Less	Un-Obj	Un-Obj	800	2	46	0	202	291	40	24	400	195	4	0.34	0.06	0.58	0.23	0.10	0.08			+ve	+ve	Unsafe				
18	KAR-R-18	Haji Dildar	Mahghoper-8	Gaddap	Jamia Masjid Bhitai	Dam			1223	8.1	2.0	C.Less	Un-Obj	Un-Obj	783	2	49	0	213	260	42	27	430	182	3	0.27	0.08	0.65	0.11	0.92	0.08			+ve	+ve	Unsafe				
19	KAR-R-19	Haji Dildar	Mahghoper-8	Gaddap	Abdul Rahim Home				1130	7.8	8.0	C.Less	Un-Obj	Un-Obj	723	2	73	0	213	197	44	30	470	150	5	BDL	0.02	0.07	0.32	1.22	0.05			+ve	+ve	Unsafe				
20	KAR-R-20	Haji Dildar	Mahghoper-8	Gaddap	Doda Khan House	Well	60		7670	7.0	5.0	C.Less	Object	Un-Obj	4985	2	64	0	2411	367	128	162	1970	1301	13	0.04	0.08	0.07	0.21	1.73	0.11			+ve	+ve	Unsafe				
21	KAR-R-21	Wali Muhammad	Bin Qasim-5	Bin Qasim	Bagir Muhammad Mohalla	T. Well	140		1880	7.4	0.0	C.Less	Un-Obj	Un-Obj	1203	1	36	0	390	345	60	64	830	239	10	2.83	0.04	0.15	0.11	0.68	0.11			+ve	+ve	Unsafe				
22	KAR-R-22	Wali Muhammad	Bin Qasim-5	Bin Qasim	Talbari Para	W. Supply			376	7.8	5.0	C.Less	Un-Obj	Un-Obj	240	1	36	0	71	56	28	4	170	46	4	0.08	0.01	0.45	0.02	0.00	0.22			-ve	-ve	Safe				
23	KAR-R-23	Wali Muhammad	Bin Qasim-5	Bin Qasim	Hotel Wali Main Car Stop	W. Supply			385	8.0	15.0	C.Less	Un-Obj	Un-Obj	246	1	36	0	35	108	24	5	165	49	5	0.12	0.06	0.86	0.05	0.00	0.08			+ve	-ve	Unsafe				
24	KAR-R-24	Wali Muhammad	Bin Qasim-5	Bin Qasim	Ola Jamia Masjid	W. Supply			385	8.0	25.0	C.Less	Un-Obj	Un-Obj	246	1	36	0	53	84	24	7	180	46	5	0.12	0.03	0.78	0.05	0.00	0.12			+ve	-ve	Unsafe				
25	KAR-R-25	Wali Muhammad	Bin Qasim-7	Bin Qasim	VIP Nawaz Hotel	W. Supply			379	7.8	12.0	C.Less	Un-Obj	Un-Obj	255	2	46	0	53	74	22	10	190	43	4	0.43	0.03	0.48	0.09	0.00	0.32			+ve	+ve	Unsafe				
26	KAR-R-26	Yousif Goth	Landhi-5	Landhi	Haji Lal Marri Home	W. Supply			452	7.8	8.0	C.Less	Un-Obj	Un-Obj	289	4	67	0	71	68	24	10	200	57	6	BDL	0.08	0.45	0.02	0.00	0.09			+ve	+ve	Unsafe				
27	KAR-R-27	Yousif Goth	Landhi-5	Landhi	Madrasatul Quroon Shah Latif Town	H. Pump	115		7870	7.2	0.0	C.Less	Object	Un-Obj	5115	1	33	0	1889	1208	90	211	2190	1304	10	3.04	0.06	0.45	0.13	0.46	0.06			+ve	+ve	Unsafe				
28	KAR-R-28	Yousif Goth	Landhi-5	Landhi	Qaderi Bismillah Hotel	W. Supply			388	7.8	5.0	C.Less	Un-Obj	Un-Obj	248	1	43	0	35	85	24	11	210	40	4	BDL	0.08	0.58	0.21	0.00	0.32			-ve	-ve	Safe				
29	KAR-R-29	Yousif Goth	Landhi-5	Landhi	Hotel Ghulam Haider Shah	W. Supply			405	7.7	22.0	C.Less	Un-Obj	Un-Obj	259	1	33	0	53	96	26	8	200	46	5	BDL	0.07	0.56	0.08	0.00	0.11			+ve	+ve	Unsafe				
30	KAR-R-30	Yousif Goth	Landhi-5	Landhi	Imdad Kalhero Otaq	W. Supply			373	7.7	9.0	C.Less	Un-Obj	Un-Obj	239	1	36	0	35	102	22	8	190	41	4	BDL	0.08	10.56	0.07	0.00	0.11			-ve	-ve	Unsafe				
31	KAR-R-31	Halo Salar	Bin Qasim	Bin Qasim	Main Tube Well	T. Well			2660	7.1	0.0	C.Less	Un-Obj	Un-Obj	1702	4	122	0	337	725	52	75	880	408	7	BDL	0.01	0.85	0.05	0.00	0.09			-ve	-ve	Unsafe				
32	KAR-R-32	Halo Salar	Bin Qasim	Bin Qasim	Well	Well	70		2300	7.3	2.0	C.Less	Un-Obj	Un-Obj	1472	4	104	0	425	446	48	70	820	339	6	2.91	0.05	0.65	0.07	1.21	0.08			+ve	+ve	Unsafe				
33	KAR-R-33	Halo Salar	Bin Qasim	Bin Qasim	Haji Pir Home	T. Well	500		2400	7.4	1.0	C.Less	Un-Obj	Un-Obj	1536	4	104	0	461	446	48	67	790	368	8	1.81	0.05	0.78	0.04	1.68	0.11			+ve	+ve	Unsafe				
34	KAR-R-34	Halo Salar	Bin Qasim	Bin Qasim	Jamia Masjid	T. Well			2540	7.5	0.0	C.Less	Un-Obj	Un-Obj	1625	4	116	0	461	504	40	73	800	398	7	2.23	0.06	0.56	0.08	2.11	0.11			-ve	-ve	Unsafe				
35	KAR-R-35	Halo Salar	Bin Qasim	Bin Qasim	Tube Well Adam Khan Otaq	T. Well	500		1899	7.2	0.0	C.Less	Un-Obj																											

Sr. No	Sample code	Village	Union Council	Tehsil	Location	Source	Depth (ft)	Water Table Depth (ft)	EC µS/cm	pH	Turbidity NTU	Color	Taste	Odor	TDS	Alk m.mol/l	HCO ₃ mg/l	CO ₃ mg/l	Cl mg/l	SO ₄ mg/l	Ca mg/l	Mg mg/l	Hardness	Na mg/l	K mg/l	NO ₃ mg/l	PO ₄ mg/l	F mg/l	Fe mg/l	As ppb	Pb ppb	Total Coliform	E.Coli	Safe/Unsafe
						Permissible Limits (PSC/CI)			NGVS	6.5-8.5	5.0	C.Less	Un-Obj	Un-Obj	1000	NGVS	NGVS	NGVS	500	500	NGVS	NGVS	300	200	NGVS	10.00	NGVS	1.50	0.30	30.00	30.00			
51	KAR-R-51	Khair Muhammad Khaskhali	Darsano Chhano	Gaddap	Noorani Masjid	T. Well	400		4980	7.5	2.0	C.Less	Object	Un-Obj	3273	2	73	0	1504	432	136	166	2050	771	11	BOL	0.02	0.45	0.21	4.72	0.11	+ve	+ve	Unsafe
52	KAR-R-52	Khair Muhammad Khaskhali	Darsano Chhano	Gaddap	Master Nawaz Home	H. Pump	300		1467	7.6	0.0	C.Less	Un-Obj	Un-Obj	939	4	122	0	255	263	50	18	400	244	5	0.09	0.01	0.65	0.21	7.27	0.20	+ve	+ve	Unsafe
53	KAR-R-53	Khair Muhammad Khaskhali	Darsano Chhano	Gaddap	M. Juman T. Well	T. Well	400		2620	7.6	4.0	C.Less	Un-Obj	Un-Obj	1676	3	97	0	627	331	76	67	930	387	8	1.49	0.03	0.56	0.10	3.23	0.09	+ve	+ve	Unsafe
54	KAR-R-54	Khair Muhammad Khaskhali	Darsano Chhano	Gaddap	Hand Pump	H. Pump	200		3370	7.2	0.0	C.Less	Object	Un-Obj	2190	3	91	0	815	442	88	68	1000	657	11	3.52	0.02	0.36	0.12	6.29	0.09	-ve	-ve	Unsafe
55	KAR-R-55	Khair Muhammad Khaskhali	Darsano Chhano	Gaddap	T. Well Murad Ali TO	T. Well	400		2440	7.3	0.0	C.Less	Un-Obj	Un-Obj	1563	3	97	0	567	326	72	67	910	350	8	BOL	0.01	0.35	0.13	7.92	0.05	-ve	-ve	Unsafe
56	KAR-R-56	Umer Jamot	Kathor	Gaddap	Main Water Supply Tank	T. Well	450		1443	7.6	2.0	C.Less	Un-Obj	Un-Obj	923	3	82	0	301	220	66	30	580	197	4	4.20	0.05	0.45	0.12	2.11	0.11	+ve	+ve	Unsafe
57	KAR-R-57	Umer Jamot	Kathor	Gaddap	Rahmani Masjid	T. Well			1380	7.8	0.0	C.Less	Un-Obj	Un-Obj	883	2	61	0	266	254	42	35	500	201	6	4.25	0.05	0.56	0.05	1.67	0.08	+ve	+ve	Unsafe
58	KAR-R-58	Umer Jamot	Kathor	Gaddap	Usman Jamot Home	T. Well			1383	7.8	1.0	C.Less	Un-Obj	Un-Obj	885	3	79	0	337	145	50	34	530	195	5	3.85	0.01	0.78	0.11	0.79	0.08	+ve	+ve	Unsafe
59	KAR-R-59	Umer Jamot	Kathor	Gaddap	Soomra Jakho Mohala	T. Well			1445	7.6	0.0	C.Less	Un-Obj	Un-Obj	925	3	79	0	301	223	48	34	520	211	5	3.82	0.05	0.52	0.11	3.67	0.11	+ve	+ve	Unsafe
60	KAR-R-60	Umer Jamot	Kathor	Gaddap	Haji Shahdad Home	T. Well			1395	7.9	3.0	C.Less	Un-Obj	Un-Obj	893	3	76	0	250	250	42	40	540	195	5	4.34	0.04	0.25	0.03	1.01	0.11	-ve	-ve	Safe
61	KAR-R-61	Lashkari	Maripur	Kiamari	Mustafa Home				4800	7.7	8.0	C.Less	Object	Un-Obj	3120	2	73	0	1241	566	80	97	1200	826	10	1.71	0.06	0.52	0.04	3.02	0.21	+ve	+ve	Unsafe
62	KAR-R-62	Lashkari	Maripur	Kiamari	Lashkari Underground Tank				830	7.9	28.0	C.Less	Un-Obj	Object	531	1	40	0	120	143	30	100	310	100	4	0.04	0.05	0.83	0.11	0.16	0.21	+ve	+ve	Unsafe
63	KAR-R-63	Lashkari	Maripur	Kiamari	Ajaz Tank				360	7.9	19.0	C.Less	Object	Object	1958	2	58	0	833	295	56	69	850	506	10	3.22	0.06	0.56	0.11	0.37	0.16	+ve	+ve	Unsafe
64	KAR-R-64	Lashkari	Maripur	Kiamari	Sharyar Home				4170	7.7	12.0	C.Less	Object	Un-Obj	2710	4	113	0	496	1241	44	69	790	775	10	0.72	0.06	0.42	0.08	0.41	0.09	+ve	+ve	Unsafe
65	KAR-R-65	Lashkari	Maripur	Kiamari	Masjid Saif				5190	7.4	5.0	C.Less	Object	Object	3373	4	110	0	461	1779	54	126	1310	890	10	1.04	0.15	0.56	0.06	0.21	0.08	+ve	+ve	Unsafe
66	KAR-R-66	Haji Ali Murad	Darsano Chhano	Maler	Tohid Masjid	T. Well	400		2040	7.4	8.0	C.Less	Un-Obj	Un-Obj	1305	3	88	0	400	315	68	38	650	317	10	2.32	0.02	0.75	0.08	0.82	0.11	+ve	-ve	Unsafe
67	KAR-R-67	Haji Ali Murad	Darsano Chhano	Maler	Haji Ghani Well	Well	100		3980	7.3	15.0	C.Less	Object	Un-Obj	2587	2	70	0	1088	382	120	85	1300	614	10	3.76	0.05	0.78	0.05	1.28	0.06	+ve	+ve	Unsafe
68	KAR-R-68	Haji Ali Murad	Darsano Chhano	Maler	Haji Rasool Bux Home	Well	100		3810	7.2	12.0	C.Less	Object	Un-Obj	2476	3	76	0	9063	329	126	89	1360	561	8	3.69	0.06	0.56	0.04	3.41	0.11	+ve	+ve	Unsafe
69	KAR-R-69	Haji Ali Murad	Darsano Chhano	Maler	Abdul Majid Home	H. Pump	200		2970	7.2	0.0	C.Less	Un-Obj	Un-Obj	1930	4	110	0	870	293	74	91	1070	485	9	3.08	0.06	0.56	0.11	2.71	0.08	+ve	-ve	Unsafe
70	KAR-R-70	Haji Ali Murad	Darsano Chhano	Maler	Hussaini Makrani House	H. Pump	200		3090	7.2	0.0	C.Less	Object	Un-Obj	2008	4	107	0	895	335	68	93	1110	463	10	4.16	0.06	0.25	0.11	6.27	0.09	-ve	-ve	Unsafe
71	KAR-R-71	Khan Muhammad Baloch	Gagar-7	Bin Qasim	Govt. Boys Primary School				933	7.8	95.0	Muddy	Un-Obj	Un-Obj	597	3	88	0	127	205	28	14	260	154	4	0.80	0.09	0.25	0.08	2.72	0.11	+ve	+ve	Unsafe
72	KAR-R-72	Khan Muhammad Baloch	Gagar-7	Bin Qasim	Muhammad House	W. Supply			433	8.0	110.0	Muddy	Un-Obj	Un-Obj	277	1	43	0	64	88	22	12	210	50	3	1.37	0.08	0.35	0.21	0.11	0.11	+ve	+ve	Unsafe
73	KAR-R-73	Khan Muhammad Baloch	Gagar-7	Bin Qasim	Khan Muhammad House	W. Supply			409	8.2	145.0	Muddy	Un-Obj	Un-Obj	262	2	46	0	64	74	22	12	210	45	4	0.89	0.08	0.35	0.08	0.00	0.09	+ve	+ve	Unsafe
74	KAR-R-74	Khan Muhammad Baloch	Gagar-7	Bin Qasim	Rajab Home	W. Supply			440	8.2	120.0	Muddy	Un-Obj	Un-Obj	218	2	49	0	71	77	22	13	220	49	5	0.97	0.04	0.30	0.05	0.22	0.23	+ve	+ve	Unsafe
75	KAR-R-75	Khan Muhammad Baloch	Gagar-7	Bin Qasim	Punhoo House	W. Supply			409	8.0	20.0	C.Less	Un-Obj	Un-Obj	262	1	43	0	60	81	20	11	210	45	5	0.31	0.05	0.45	0.04	0.00	0.07	+ve	+ve	Unsafe

%ages of Sample beyond permissible limit
 No. of Sample beyond permissible limit out of 75

1.33	34.67	56.00	61.33	32.00	62.67	0.00	1.33	2.67	0.00	0.00	76.00	66.67	94.67								
1	26	42	46	24	47	0	1	2	0	0	57	50	71								
Min.	60	218	1	33	0	35	54	18	4	165	40	3	0.02	0.00	0.05	0.02	0.00	0.04			
Average	263	1613	3	82	1	666	438	55	63	783	392	7	1.76	0.06	0.64	0.11	1.35	0.12			
Max.	500	9270	8.6	145.0	6025	6	165	8	9063	4269	136	321	3290	1471	16	4.34	0.47	10.56	0.33	7.92	0.46