

Quality of Water of Polluted River stretches in Punjab for the month of August, 2022

Satluj : Roop Nagar to Harike Bridge : Priority I

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	pH	DO mg/l	BOD mg/l	Cond μ s/Cm	T.Coli MPN/100ml	F. Coli MPN/100ml	Free Amm. mg/l	SAR	B mg/l	Quality of water as per DBU	Water Quality Index
1	Ropar Head-Works	1019	09.08.2022	SW 234	ZO Lab LDH	7.8	7.7	BDL	238	790	330	BDL	0.24	0.25	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	09.08.2022	SW 235	ZO Lab LDH	7.7	7.3	BDL	254	840	460	BDL	0.28	0.29	C	S
3	River Satluj U/S Buddha Nallah	1690	10.08.2022	SW 237	ZO Lab LDH	7.4	6.8	1.2	334	1100	460	0.013	0.83	0.41	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	10.08.2022	SW 239	ZO Lab LDH	7.2	2.0	16	620	28,00,000	9,40,000	0.062	2.25	0.47	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	16.08.2022	SW 262	ZO Lab LDH	7.4	2.8	9	850	5,40,000	1,40,000	0.133	3.37	0.28	E	U
6	River Satluj at D/s East Bein	1381	16.08.2022	SW 263	ZO Lab LDH	7.3	2.6	12	867	7,00,000	2,60,000	0.106	3.15	0.36	E	U
7	River Satluj at Harike	1022	16.08.2022	SW 264	ZO Lab LDH	7.4	7.1	1.4	274	4600	1700	0.015	0.70	0.25	C	S

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	COD mg/l	Turb NTU	TSS mg/l	TDS mg/l	FDS mg/l	Cl mg/l	SO ₄ mg/l	TH mg/l	Ca mg/l	Mg mg/l	T.Alkn mg/l	P.Alkn mg/l	AmnN mg/l	NO ₃ -N mg/l	TKN mg/l	PO ₄ as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ropar Head-Works	1019	09.08.2022	SW 234	ZO Lab LDH	BDL	27	46	138	118	8	6	122	32.8	9.7	76	BDL	BDL	1.5	BDL	BDL	0.17	6.2	3.8
2	River Satluj D/S of Rishab- Paper Mills	1293	09.08.2022	SW 235	ZO Lab LDH	BDL	32	55	140	120	7	7	120	32	9.7	64	BDL	BDL	1.7	BDL	BDL	0.19	7	3.6
3	River Satluj U/S Buddha Nallah	1690	10.08.2022	SW 237	ZO Lab LDH	8	75	112	203	172	17	12	134	37.6	9.7	100	BDL	0.9	2.0	1.3	0.31	0.31	22	6.6
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	10.08.2022	SW 239	ZO Lab LDH	70	80	142	389	312	80	33	168	44	14.1	166	BDL	6.2	2.2	8.6	2.32	0.32	67	18
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	16.08.2022	SW 262	ZO Lab LDH	54	60	106	572	465	143	36	198	59.2	12.2	230	BDL	8.9	1.9	12.3	2.62	0.28	109	36
6	River Satluj at D/s East Bein	1381	16.08.2022	SW 263	ZO Lab LDH	60	45	83	562	456	130	42	202	60.8	12.2	248	BDL	10.6	1.7	14.8	3.02	0.29	103	29
7	River Satluj at Harike	1022	16.08.2022	SW 264	ZO Lab LDH	10	90	124	169	136	20	12	110	29.6	8.7	104	BDL	1.0	1.5	1.3	0.42	0.25	17	5.6

- Note. 1. BDL means Below Method Detection Limit**
2. DBU means Designated Best Use (Class-A,B,C,D & E)
3. Water Quality Index (S means Satisfactory, U means Unsatisfactory)
4. U/s means Upstream , D/s means Downstream

Quality of Water of Polluted River stretches in Punjab for the month of August, 2022
Ghaggar: Mubarkpur to Sardulgarh: Priority I

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	pH	DO mg/l	BOD mg/l	Cond μ s/Cm	T.Coli MPN/ 100ml	F. Coli MPN/ 100ml	Free Amm. mg/l	SAR	B mg/l	Quality of water as per DBDU	Water Quality Index
1	Ghaggar at Mubarikpur Rest House	1023	03/08/22	SW 503	H/o Lab Patiala	7.6	5.2	10	456	21000	2700	0.28	1.64	0.41	D	U
2	Ghaggar at Bhankarpur	1295	03/08/22	SW 504	H/o Lab Patiala	7.7	4.3	14	571	24000	3400	0.35	1.56	0.53	D	U
3	Ghaggar at Chattbir	1698	03/08/22	SW 505	H/o Lab Patiala	7.5	4.0	15	604	28000	3900	0.24	1.59	0.46	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	03/08/22	SW 506	H/o Lab Patiala	7.4	4.3	11	493	24000	3300	0.18	1.57	0.50	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	03/08/22	SW 507	H/o Lab Patiala	7.4	3.2	12	596	28000	3800	0.18	1.50	0.52	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	03/08/22	SW 509	H/o Lab Patiala	7.5	4.2	12	521	28000	3200	0.25	1.61	0.59	D	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	03/08/22	SW 510	H/o Lab Patiala	7.6	3.8	14	593	28000	3900	0.32	1.60	0.72	E	U
8	Ghaggar at Rattanheri	1473	08/08/22	SW 517	H/o Lab Patiala	7.4	3.6	14	624	28000	3900	0.19	1.69	0.69	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	08/08/22	SW 518	H/o Lab Patiala	7.4	3.9	13	597	28000	3800	0.19	1.63	0.78	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	08/08/22	SW 519	H/o Lab Patiala	7.6	3.4	16	653	35000	4600	0.31	1.72	0.80	E	U
11	Ghaggar at Khanauri	1024	08/08/22	SW 522	H/o Lab Patiala	7.5	3.1	15	683	28000	4000	0.26	1.73	0.72	E	U
12	Ghaggar at Moonak	1703	08/08/22	SW 524	H/o Lab Patiala	7.7	2.8	17	724	35000	4900	0.40	1.71	0.82	E	U
13	Ghaggar at U/s Sardulgarh	1705	10/08/22	SW 525	H/o Lab Patiala	7.3	5.1	10	478	24000	2700	0.11	1.52	0.53	D	U
14	Ghaggar at D/s Sardulgarh	1704	10/08/22	SW 526	H/o Lab Patiala	7.4	4.7	12	541	28000	3400	0.17	1.56	0.58	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	03/08/22	SW 503	H/o Lab Patiala	46	490	458	295	252	31	13	118	29	11	202	BDL	11.2	0.8	15.7	1.0	1.1	41	17
2	Ghaggar at Bhankarpur	1295	03/08/22	SW 504	H/o Lab Patiala	69	440	463	368	314	47	16	186	48	16	227	BDL	11.8	1.0	16.5	1.2	1.2	49	23
3	Ghaggar at Chattbir	1698	03/08/22	SW 505	H/o Lab Patiala	71	410	468	388	331	49	18	203	53	17	234	BDL	12.2	1.1	17.1	1.2	1.2	52	25
4	Ghaggar at U/s Jharmal Nadi	1702	03/08/22	SW 506	H/o Lab Patiala	57	400	327	315	269	32	14	136	33	13	217	BDL	12.1	1.1	16.9	1.2	1.1	42	18
5	Ghaggar at D/s Jharmal Nadi	1701	03/08/22	SW 507	H/o Lab Patiala	62	415	369	383	329	46	15	180	47	15	229	BDL	12.3	1.1	17.2	1.2	1.2	46	20
6	Ghaggar at U/s Dhakanshu Nallah	1699	03/08/22	SW 509	H/o Lab Patiala	60	410	312	337	289	35	16	148	36	14	224	BDL	12.4	1.2	17.4	1.1	1.2	45	22
7	Ghaggar at D/s Dhakanshu Nallah	1700	03/08/22	SW 510	H/o Lab Patiala	66	425	349	387	330	50	19	193	49	17	233	BDL	12.8	1.2	17.9	1.2	1.3	51	27
8	Ghaggar at Rattanheri	1473	08/08/22	SW 517	H/o Lab Patiala	69	430	355	401	342	52	19	201	54	16	237	BDL	12.9	1.2	18.1	1.2	1.2	55	28
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	08/08/22	SW 518	H/o Lab Patiala	68	430	346	387	329	50	17	194	51	16	235	BDL	12.6	1.2	17.6	1.1	1.2	52	26
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	08/08/22	SW 519	H/o Lab Patiala	74	440	368	424	362	56	21	236	58	19	243	BDL	12.2	1.3	17.1	1.2	1.4	59	31
11	Ghaggar at Khanauri	1024	08/08/22	SW 522	H/o Lab Patiala	72	430	362	441	375	59	24	244	61	22	245	BDL	13.1	1.3	18.3	1.3	1.3	62	33
12	Ghaggar at Moonak	1703	08/08/22	SW 524	H/o Lab Patiala	77	450	371	471	401	63	25	275	67	26	258	BDL	13.4	1.3	18.8	1.3	1.4	65	36
13	Ghaggar at U/s Sardulgarh	1705	10/08/22	SW 525	H/o Lab Patiala	52	215	162	312	266	32	12	146	35	14	215	BDL	11.0	1.1	15.4	1.1	1.2	42	21
14	Ghaggar at D/s Sardulgarh	1704	10/08/22	SW 526	H/o Lab Patiala	58	230	192	352	299	38	17	178	40	19	226	BDL	11.3	1.1	15.8	1.1	1.2	48	26

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