

Quality of Water of Polluted River stretches in Punjab for the month of May, 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	11.05.2022	SW 80	ZO Lab LDH	8.0	8.3	BDL	246	2200	780	BDL	0.16	0.19	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	11.05.2022	SW 81	ZO Lab LDH	7.8	8.2	BDL	247	2600	810	BDL	0.15	0.31	C	S
3	River Satluj U/S Buddha Nallah	1690	20.05.2022	SW 122	ZO Lab LDH	7.9	6.6	1.1	316	3100	1300	0.148	0.55	0.64	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	20.05.2022	SW 124	ZO Lab LDH	7.4	BDL	31	955	11,00,000	3,30,000	0.112	2.45	0.76	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	23.05.2022	SW 126	ZO Lab LDH	7.4	3.3	20	675	1,10,000	33,000	0.063	1.59	0.29	E	U
6	River Satluj at D/s East Bein	1381	23.05.2022	SW 127	ZO Lab LDH	7.3	2.7	22	1005	1,70,000	46,000	0.084	0.40	0.55	E	U
7	River Satluj at Harike	1022	23.05.2022	SW 128	ZO Lab LDH	7.8	5.6	3.0	295	5400	1100	0.049	0.58	0.25	D	U

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	NO3-N mg/l	TKN mg/l	PO ₄ P mg/l	F mg/l	Na mg/l	K mg/l
1	Ropar Head-Works	1019	11.05.2022	SW 80	ZO Lab LDH	BDL	7	BDL	147	128	9	8	104	26.4	9.2	95	BDL	BDL	1.4	BDL	BDL	0.17	3.8	2.7
2	River Satluj D/S of Rishab- Paper Mills	1293	11.05.2022	SW 81	ZO Lab LDH	BDL	20	12	149	130	8	6	108	27.2	9.7	101	BDL	BDL	1.5	BDL	BDL	0.19	3.7	3.1
3	River Satluj U/S Buddha Nallah	1690	20.05.2022	SW 122	ZO Lab LDH	7	37	58	192	162	16	13	122	31.2	10.7	109	BDL	3.3	2.1	4.6	0.23	0.31	14	5.5
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	20.05.2022	SW 124	ZO Lab LDH	125	110	126	557	442	120	34	192	48	17.5	230	BDL	7.5	2.1	10.2	7.2	0.32	78	15.1
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	23.05.2022	SW 126	ZO Lab LDH	84	65	74	402	302	85	27	144	36.8	12.6	182	BDL	4.2	1.8	5.8	1.21	0.28	44	8.1
6	River Satluj at D/s East Bein	1381	23.05.2022	SW 127	ZO Lab LDH	91	112	86	630	514	102	36	236	60	20.9	392	BDL	8.4	2.0	11.4	4.6	0.29	14	4.9
7	River Satluj at Harike	1022	23.05.2022	SW 128	ZO Lab LDH	15	31	46	180	153	20	14	110	28	9.7	97	BDL	1.4	1.8	1.8	0.82	0.25	14	5.7

- 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 May, 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	11/5/22	SW 139	H/o Lab Patiala	7.9	6.2	12	587	24000	3400	0.51	2.00	0.32	D	U
2	Ghaggar at Bhankarpur	1295	11/5/22	SW 140	H/o Lab Patiala	7.8	4.3	19	702	35000	6300	0.42	2.00	0.46	D	U
3	Ghaggar at Chattbir	1698	11/5/22	SW 141	H/o Lab Patiala	7.9	4.1	21	730	35000	7000	0.55	2.17	0.49	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	11/5/22	SW 142	H/o Lab Patiala	7.6	4.2	18	615	24000	3400	0.29	1.80	0.40	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	11/5/22	SW 143	H/o Lab Patiala	7.5	3.2	20	710	35000	5800	0.24	2.07	0.48	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	11/5/22	SW 145	H/o Lab Patiala	7.3	4.3	17	651	28000	3800	0.12	1.74	0.97	D	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	11/5/22	SW 146	H/o Lab Patiala	7.3	3.4	19	721	35000	6300	0.12	2.11	0.44	E	U
8	Ghaggar at Rattanheri	1473	13/5/22	SW 163	H/o Lab Patiala	8.0	3.3	18	693	35000	5800	0.61	1.91	0.47	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	13/5/22	SW 164	H/o Lab Patiala	8.2	3.4	16	672	35000	4600	0.96	1.59	0.56	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	13/5/22	SW 165	H/o Lab Patiala	7.9	3.0	20	727	35000	6300	0.51	1.95	0.54	E	U
11	Ghaggar at Khanauri	1024	13/5/22	SW 168	H/o Lab Patiala	7.4	3.2	18	691	35000	5800	0.18	1.76	0.58	E	U
12	Ghaggar at Moonak	1703	13/5/22	SW 170	H/o Lab Patiala	7.9	3.1	22	758	35000	7000	0.55	1.99	0.63	E	U
13	Ghaggar at U/s Sardulgarh	1705	17/5/22	SW 171	H/o Lab Patiala	7.8	5.5	13	568	24000	3400	0.40	1.67	0.46	D	U
14	Ghaggar at D/s Sardulgarh	1704	17/5/22	SW 172	H/o Lab Patiala	7.8	4.8	15	641	28000	4900	0.41	1.76	0.52	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	11/5/22	SW 139	H/o Lab Patiala	53	460	471	378	324	37	20	165	38	17	239	BDL	11.3	1.1	15.8	1.4	1.2	59	27
2	Ghaggar at Bhankarpur	1295	11/5/22	SW 140	H/o Lab Patiala	85	450	489	451	387	56	24	219	53	21	248	BDL	11.9	1.2	16.7	1.4	1.2	68	35
3	Ghaggar at Chattbir	1698	11/5/22	SW 141	H/o Lab Patiala	91	470	492	475	406	54	25	252	58	26	258	BDL	12.3	1.4	17.2	1.5	1.4	79	38
4	Ghaggar at U/s Jharmal Nadi	1702	11/5/22	SW 142	H/o Lab Patiala	78	430	365	392	335	39	18	196	47	19	241	BDL	11.6	1.3	16.2	1.4	1.3	58	26
5	Ghaggar at D/s Jharmal Nadi	1701	11/5/22	SW 143	H/o Lab Patiala	87	430	372	457	392	48	22	242	57	24	254	BDL	11.8	1.3	16.5	1.4	1.4	74	36
6	Ghaggar at U/s Dhakanshu Nallah	1699	11/5/22	SW 145	H/o Lab Patiala	76	290	287	419	358	46	20	217	54	20	246	BDL	12.1	1.2	16.9	1.3	1.3	59	30
7	Ghaggar at D/s Dhakanshu Nallah	1700	11/5/22	SW 146	H/o Lab Patiala	81	310	304	471	402	51	23	251	56	27	259	BDL	12.4	1.4	17.4	1.5	1.4	77	39
8	Ghaggar at Rattanheri	1473	13/5/22	SW 163	H/o Lab Patiala	79	300	319	448	382	52	22	248	58	25	246	BDL	12.2	1.3	17.1	1.3	1.4	69	35
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	13/5/22	SW 164	H/o Lab Patiala	77	270	312	426	364	50	21	238	55	24	244	BDL	12.0	1.3	16.8	1.2	1.4	56	31
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	13/5/22	SW 165	H/o Lab Patiala	83	290	323	472	402	56	26	265	60	28	253	BDL	11.4	.4	16.0	1.5	1.4	73	35
11	Ghaggar at Khanauri	1024	13/5/22	SW 168	H/o Lab Patiala	76	270	291	449	383	52	24	250	57	26	255	BDL	11.7	1.4	16.4	1.4	1.3	64	33
12	Ghaggar at Moonak	1703	13/5/22	SW 170	H/o Lab Patiala	86	280	296	492	248	57	28	277	63	29	267	BDL	12.3	1.4	17.2	1.5	1.4	76	37
13	Ghaggar at U/s Sardulgarh	1705	17/5/22	SW 171	H/o Lab Patiala	63	110	110	365	312	36	16	183	42	19	234	BDL	11.3	1.2	15.8	1.3	1.3	52	26
14	Ghaggar at D/s Sardulgarh	1704	17/5/22	SW 172	H/o Lab Patiala	72	110	129	415	353	43	22	220	50	23	247	BDL	11.8	1.3	16.5	1.4	1.3	60	30

Note. 1. BDL means Below Method Detection Limit

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3. Water Quality Index (S means Satisfactory, U means Unsatisfactory)