

Quality of Water of Polluted River stretches in Punjab for the month of September, 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	08.09.2022	SW 306	ZO Lab LDH	7.7	8.6	BDL	292	840	460	BDL	0.31	0.12	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	08.09.2022	SW 307	ZO Lab LDH	8.2	8.4	BDL	280	940	330	BDL	0.28	0.31	C	S
3	River Satluj U/S Buddha Nallah	1690	09.09.2022	SW 312	ZO Lab LDH	8.0	6.2	1.2	290	3200	1300	0.050	0.73	0.14	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.09.2022	SW 314	ZO Lab LDH	7.4	1.1	22	588	17,00,000	7,00,000	0.072	2.09	0.38	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12.09.2022	SW 316	ZO Lab LDH	7.3	1.8	10	500	8,40,000	4,60,000	0.036	2.12	0.23	E	U
6	River Satluj at D/s East Bein	1381	12.09.2022	SW 317	ZO Lab LDH	7.4	2.2	12	605	11,00,000	4,90,000	0.072	1.46	0.27	E	U
7	River Satluj at Harike	1022	12.09.2022	SW 318	ZO Lab LDH	7.8	5.8	2.0	220	4700	2000	0.035	0.28	0.32	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	08.09.2022	SW 306	ZO Lab LDH	BDL	14	22	166	142	10	7	116	31.2	9.2	92	BDL	BDL	1.6	BDL	BDL	0.24	7.6	1.7
2	River Satluj D/S of Rishab- Paper Mills	1293	08.09.2022	SW 307	ZO Lab LDH	BDL	13	20	150	132	9	8	102	28	7.8	86	BDL	BDL	1.4	BDL	BDL	0.29	6.6	2.0
3	River Satluj U/S Buddha Nallah	1690	09.09.2022	SW 312	ZO Lab LDH	7	40	55	171	145	12	10	116	32	8.7	88	BDL	1.0	1.6	1.3	0.22	0.39	18.0	5.7
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.09.2022	SW 314	ZO Lab LDH	98	90	140	355	297	75	32	172	44.8	14.6	138	BDL	3.6	1.6	4.8	1.22	0.44	63	19
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12.09.2022	SW 316	ZO Lab LDH	48	70	126	315	266	71	31	142	45.6	6.8	126	BDL	2.8	1.3	3.6	0.64	0.34	58	16
6	River Satluj at D/s East Bein	1381	12.09.2022	SW 317	ZO Lab LDH	58	75	134	364	304	62	22	150	37.6	13.6	142	BDL	3.8	1.6	4.8	0.66	0.33	41	12
7	River Satluj at Harike	1022	12.09.2022	SW 318	ZO Lab LDH	14	70	114	126	110	11	10	86	22.4	7.3	86	BDL	1.0	1.3	1.3	0.23	0.22	5.9	1.9

- 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 September, 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 µs/Cm	T.Coli MPN/ 100ml	F. Coli MPN/ 100ml	SAR	B mg/l	Quality of water as per DBDU	Water Quality Index
1	Ghaggar at Mubarikpur Rest House	1023	8/09/22	SW 605	H/o Lab Patiala	7.8	4.7	12	497	24000	3400	1.83	0.49	D	U
2	Ghaggar at Bhankarpur	1295	8/09/22	SW 606	H/o Lab Patiala	7.0	3.1	16	621	28000	3800	1.68	0.59	E	U
3	Ghaggar at Chattbir	1698	8/09/22	SW 607	H/o Lab Patiala	7.3	3.0	17	651	28000	4600	1.68	0.61	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	8/09/22	SW 608	H/o Lab Patiala	7.0	3.4	14	512	24000	3400	1.58	0.50	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	8/09/22	SW 609	H/o Lab Patiala	7.2	3.1	15	643	28000	3900	1.60	0.60	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	8/09/22	SW 611	H/o Lab Patiala	8.0	3.6	14	531	28000	3800	1.58	0.58	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	8/09/22	SW 612	H/o Lab Patiala	7.9	3.0	15	654	28000	4300	1.65	0.67	E	U
8	Ghaggar at Rattanheri	1473	9/09/22	SW 618	H/o Lab Patiala	7.6	2.8	18	710	35000	5800	1.78	0.75	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9/09/22	SW 619	H/o Lab Patiala	7.7	3.0	17	683	35000	4700	1.75	0.73	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9/09/22	SW 620	H/o Lab Patiala	7.5	2.6	19	741	35000	6300	1.84	0.81	E	U
11	Ghaggar at Khanauri	1024	9/09/22	SW 623	H/o Lab Patiala	7.9	2.9	19	748	35000	3800	1.75	0.88	E	U
12	Ghaggar at Moonak	1703	9/09/22	SW 625	H/o Lab Patiala	8.0	2.8	20	791	43000	7000	1.75	0.90	E	U
13	Ghaggar at U/s Sardulgarh	1705	The River was dry at the time of sample collection												
14	Ghaggar at D/s Sardulgarh	1704	The River was dry at the time of sample collection												

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1	Ghaggar at Mubarikpur Rest House	1023	8/09/22	SW 605	H/o Lab Patiala	56	460	431	324	277	34	15	136	33	13	219	BDL	11.6	1.0	16.2	1.1	1.2	49	21
2	Ghaggar at Bhankarpur	1295	8/09/22	SW 606	H/o Lab Patiala	79	410	392	404	344	53	17	218	56	19	243	BDL	12.0	1.1	16.8	1.2	1.2	57	27
3	Ghaggar at Chattbir	1698	8/09/22	SW 607	H/o Lab Patiala	82	430	415	423	360	56	20	226	59	19	249	BDL	12.4	1.1	17.4	1.3	1.2	58	29
4	Ghaggar at U/s Jharmal Nadi	1702	8/09/22	SW 608	H/o Lab Patiala	63	380	356	334	285	36	15	155	37	15	224	BDL	11.8	1.1	16.5	1.2	1.0	45	22
5	Ghaggar at D/s Jharmal Nadi	1701	8/09/22	SW 609	H/o Lab Patiala	78	390	371	417	356	55	22	225	57	20	246	BDL	12.3	1.1	17.2	1.3	1.1	55	28
6	Ghaggar at U/s Dhakanshu Nallah	1699	8/09/22	SW 611	H/o Lab Patiala	64	360	312	345	294	37	17	161	38	16	231	BDL	12.1	1.0	16.9	1.0	1.1	46	24
7	Ghaggar at D/s Dhakanshu Nallah	1700	8/09/22	SW 612	H/o Lab Patiala	76	370	334	423	360	58	23	234	59	21	242	BDL	12.5	1.2	17.5	1.2	1.2	58	28
8	Ghaggar at Rattanheri	1473	9/09/22	SW 618	H/o Lab Patiala	86	410	328	462	393	59	25	254	62	24	263	BDL	13.9	1.2	19.5	1.2	1.2	65	35
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9/09/22	SW 619	H/o Lab Patiala	84	400	322	438	394	57	23	231	56	22	259	BDL	13.7	1.2	19.2	1.2	1.1	61	32
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9/09/22	SW 620	H/o Lab Patiala	91	415	343	480	409	61	27	267	64	26	271	BDL	13.1	1.2	18.3	1.3	1.2	69	38
11	Ghaggar at Khanauri	1024	9/09/22	SW 623	H/o Lab Patiala	88	380	310	487	415	63	26	285	68	28	268	BDL	13.8	1.3	19.3	1.3	1.2	68	39
12	Ghaggar at Moonak	1703	9/09/22	SW 625	H/o Lab Patiala	92	400	346	513	438	69	29	311	73	31	276	BDL	14.2	1.3	19.9	1.3	1.2	71	41
13	Ghaggar at U/s Sardulgarh	1705	The River was dry at the time of sample collection																					
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