

Quality of Water of Polluted River stretches in Punjab for the month of September, 2023

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
1	Ropar Head-Works	1019	06.09.2023	SW 117	ZO Lab LDH	7.9	7.7	BDL	256	330	170	BDL	0.25	0.16	B
2	River Satluj D/S of Rishab- Paper Mills	1293	06.09.2023	SW 118	ZO Lab LDH	7.8	7.3	BDL	304	490	170	BDL	0.37	0.19	B
3	River Satluj U/S Buddha Nallah	1690	09.09.2023	SW 125	ZO Lab LDH	7.5	6.6	2.8	289	940	210	0.022	0.27	0.25	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.09.2023	SW 127	ZO Lab LDH	7.5	2.0	21	542	9,40,000	3,20,000	0.072	1.54	0.52	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	11.09.2023	SW 131	ZO Lab LDH /HO Lab PAT	7.6	4.8	7	383	79,000	33,000	0.035	0.74	0.26	D
6	River Satluj at D/s East Bein	1381	11.09.2023	SW 132	ZO Lab LDH /HO Lab PAT	7.5	4.3	5	374	1,10,000	33,000	0.036	0.84	0.28	D
7	River Satluj at Harike	1022	11.09.2023	SW 133	ZO Lab LDH /HO Lab PAT	7.5	5.8	2	294	2200	940	0.020	0.21	0.24	C

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	06.09.2023	SW 117	ZO Lab LDH	BDL	26	53	154	134	9	24	114	30.4	9.2	84	BDL	BDL	1.5	BDL	BDL	BDL	6.1	2.4
2	River Satluj D/S of Rishab- Paper Mills	1293	06.09.2023	SW 118	ZO Lab LDH	BDL	18	31	183	161	21	26	120	32	9.7	90	BDL	BDL	1.8	BDL	BDL	BDL	9.3	5.2
3	River Satluj U/S Buddha Nallah	1690	09.09.2023	SW 125	ZO Lab LDH	20	64	174	177	145	18	26	140	29.6	15.8	100	BDL	1.1	2.0	1.8	0.60	0.25	7.3	3.3
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.09.2023	SW 127	ZO Lab LDH	104	120	228	382	309	76	43	184	46.4	16.3	164	BDL	3.6	4.2	5.8	1.64	0.32	48	9.6
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	11.09.2023	SW 131	ZO Lab LDH	32	182	98	250	214	43	28	138	35.2	12.2	120	BDL	1.4	4.6	2.0	0.61	0.21	20	14
6	River Satluj at D/s East Bein	1381	11.09.2023	SW 132	ZO Lab LDH	24	90	102	267	223	45	35	154	43.2	11.2	136	BDL	1.8	5.0	2.2	0.88	0.22	24	5.8
7	River Satluj at Harike	1022	11.09.2023	SW 133	ZO Lab LDH	11	250	135	187	154	33	26	100	25.6	8.7	94	BDL	0.8	2.0	1.6	0.67	BDL	4.8	3.7

- 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 September, 2023
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	Free Amm. mg/l	SAR	B mg/l	Quality of water as per DBDU
1	Ghaggar at Mubarikpur Rest House	1023	5.9.2023	SW 2131	H/o Lab Patiala	7.7	6.2	8	471	21000	2600	1.83	0.29	0.37	D
2	Ghaggar at Bhankarpur	1295	5.9.2023	SW 2132	H/o Lab Patiala	7.9	3.3	11	765	22000	2700	2.02	0.53	0.51	E
3	Ghaggar at Chattbir	1698	5.9.2023	SW 2133	H/o Lab Patiala	7.9	3.2	12	724	24000	3400	1.87	0.54	0.50	E
4	Ghaggar at U/s Jharmal Nadi	1702	5.9.2023	SW 2134	H/o Lab Patiala	7.5	4.0	10	621	21000	2600	2.01	0.23	0.47	D
5	Ghaggar at D/s Jharmal Nadi	1701	5.9.2023	SW 2135	H/o Lab Patiala	7.6	3.1	11	731	24000	3400	1.97	0.24	0.52	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	5.9.2023	SW 2137	H/o Lab Patiala	7.8	3.5	10	640	22000	3200	2.01	0.41	0.48	E
7	Ghaggar at D/s Dhakanshu Nallah	1700	5.9.2023	SW 2138	H/o Lab Patiala	7.8	3.0	13	765	28000	3800	2.02	0.42	0.54	E
8	Ghaggar at Rattanheri	1473	6.9.2023	SW 2145	H/o Lab Patiala	7.7	3.3	13	781	28000	3900	2.02	0.38	0.59	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	6.9.2023	SW 2146	H/o Lab Patiala	7.8	3.2	14	745	28000	3800	1.97	0.43	0.57	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	6.9.2023	SW 2147	H/o Lab Patiala	7.6	2.6	15	815	28000	4600	2.05	0.32	0.61	E
11	Ghaggar at Khanauri	1024	6.9.2023	SW 2150	H/o Lab Patiala	7.7	2.9	15	808	28000	3900	2.05	0.38	0.68	E
12	Ghaggar at Moonak	1703	6.9.2023	SW 2152	H/o Lab Patiala	7.7	2.4	16	865	35000	4600	2.15	0.39	0.73	E
13	Ghaggar at U/s Sardulgarh	1705	11.9.2023	SW 2186	H/o Lab Patiala	7.1	6.7	9	447	21000	1700	1.37	BDL	0.31	D
14	Ghaggar at D/s Sardulgarh	1704	11.9.2023	SW 2187	H/o Lab Patiala	7.7	5.2	10	531	22000	2200	1.59	0.33	0.38	D

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	SO4 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	PO4as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ghaggar at Mubarikpur Rest House	1023	5.9.2023	SW 2131	H/o Lab Patiala	34	500	423	310	264	32	9	120	33	9	225	BDL	9.7	1.0	13.6	1.4	0.9	46	9
2	Ghaggar at Bhankarpur	1295	5.9.2023	SW 2132	H/o Lab Patiala	54	430	421	497	424	76	15	269	78	18	268	BDL	11.7	1.7	16.4	1.3	1.2	76	38
3	Ghaggar at Chattbir	1698	5.9.2023	SW 2133	H/o Lab Patiala	58	390	324	471	401	74	17	257	70	20	257	BDL	11.9	1.8	16.7	1.4	1.2	69	31
4	Ghaggar at U/s Jharmal Nadi	1702	5.9.2023	SW 2134	H/o Lab Patiala	41	300	280	406	347	52	13	186	53	13	246	BDL	11.3	1.4	15.8	1.1	1.0	63	28
5	Ghaggar at D/s Jharmal Nadi	1701	5.9.2023	SW 2135	H/o Lab Patiala	54	410	417	473	404	68	19	247	69	18	269	BDL	11.8	1.7	16.5	1.4	1.3	71	32
6	Ghaggar at U/s Dhakanshu Nallah	1699	5.9.2023	SW 2137	H/o Lab Patiala	48	230	240	417	356	56	14	193	54	14	253	BDL	11.6	1.3	16.2	1.2	1.1	64	28
7	Ghaggar at D/s Dhakanshu Nallah	1700	5.9.2023	SW 2138	H/o Lab Patiala	58	360	350	498	425	74	20	264	73	21	271	BDL	11.9	1.7	16.7	1.5	1.5	76	.35
8	Ghaggar at Rattanheri	1473	6.9.2023	SW 2145	H/o Lab Patiala	59	260	255	506	432	78	21	284	77	22	264	BDL	12.7	1.8	17.8	1.9	1.3	78	36
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	6.9.2023	SW 2146	H/o Lab Patiala	57	255	241	481	410	70	21	260	71	20	259	BDL	12.3	1.8	17.2	1.7	1.2	73	34
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	6.9.2023	SW 2147	H/o Lab Patiala	60	270	272	527	449	78	23	297	79	24	278	BDL	12.2	1.9	17.1	2.0	1.3	81	39
11	Ghaggar at Khanauri	1024	6.9.2023	SW 2150	H/o Lab Patiala	62	290	287	521	443	77	22	290	78	23	279	BDL	12.8	1.8	17.9	1.9	1.4	80	39
12	Ghaggar at Moonak	1703	6.9.2023	SW 2152	H/o Lab Patiala	61	310	301	563	481	83	25	310	81	26	299	BDL	13.1	1.6	18.3	2.1	1.7	87	43
13	Ghaggar at U/s Sardulgarh	1705	11.9.2023	SW 2186	H/o Lab Patiala	38	60	41	291	248	23	10	110	26	11	228	BDL	9.6	1.2	13.4	1.2	1.1	33	18
14	Ghaggar at D/s Sardulgarh	1704	11.9.2023	SW 2187	H/o Lab Patiala	44	70	65	347	295	39	13	153	38	14	233	BDL	10.9	1.3	15.3	1.4	1.2	45	22

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)