

Quality of Water of Polluted River stretches in Punjab for the month of July, 2019

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	9/7/19	SW 802	ZO Lab Ldh	8.2	8.5	<1	272	350	130	0.096	0.25	0.14	B	S
2	River Satluj D/s of Rishab- Paper Mills	1293	9/7/19	SW 803	ZO Lab Ldh	8.01	8.0	<1	280	490	130	0.078	0.34	0.18	B	S
3	River Satluj U/S Buddha Nallah	1690	10/7/19	SW 812	ZO Lab Ldh	7.42	8.0	<1	295	1100	490	0.021	0.25	0.22	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	10/7/19	SW 814	ZO Lab Ldh	7.24	5.1	9.0	590	140000	70000	0.080	0.45	0.31	D	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12/7/19	SW 827	ZO Lab Ldh	7.3	5.6	3.4	382	46000	23000	0.028	0.35	0.42	D	U
6	River Satluj at D/s East Bein	1381	12/7/19	SW 830	ZO Lab Jal.	7.7	4.8	3.6	501	22000	9400	0.075	0.31	0.38	D	U
7	River Satluj at Harike	1022	Sample not collected													

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	9/7/19	SW 802	ZO Lab Ldh	<5	17.2	16	165	154	20	14	114	27.2	11.1	112	BDL	1.2	1.1	2.2	0.3	0.32	6.1	5.2
2	River Satluj D/S of Rishab- Paper Mills	1293	9/7/19	SW 803	ZO Lab Ldh	<5	17.8	18	170	168	20	15	116	28	11.1	114	BDL	1.2	1.1	2.4	0.3	0.35	8.4	2.9
3	River Satluj U/S Buddha Nallah	1690	10/7/19	SW 812	ZO Lab Ldh	7	20	19	178	164	22	16	132	32.8	12.2	120	BDL	1.4	1.2	2.8	0.4	0.21	6.6	4.0
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	10/7/19	SW 814	ZO Lab Ldh	44	48	36	352	316	70	34	184	44	17.9	170	BDL	8	1.8	16	1.4	0.21	14.1	5.8
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12/7/19	SW 827	ZO Lab Ldh	22	30	27	228	214	30	22	162	40	14.9	134	BDL	2.8	1.3	5.0	0.4	0.22	10.3	5.1
6	River Satluj at D/s East Bein	1381	12/7/19	SW 830	ZO Lab Jal.	24	28.2	24	302	294	32	18	198	48	18.9	204	BDL	2.5	2.0	4.2	0.5	0.19	10.0	4.2
7	River Satluj at Harike	1022	Sample not collected																					

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 July, 2019

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	4/7/19	SW 501	H/o Lab Patiala	7.7	4.9	8	540	24000	3300	0.30	1.38	0.31	D	U
2	Ghaggar at Bhankarpur	1295	4/7/19	SW 502	H/o Lab Patiala	7.7	3.2	29	836	35000	4900	0.37	1.14	0.21	E	U
3	Ghaggar at Chattbir	1698	4/7/19	SW 503	H/o Lab Patiala	7.4	2.1	22	950	28000	4300	0.13	1.36	0.26	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	4/7/19	SW 504	H/o Lab Patiala	7.5	3.4	10	895	21000	3100	0.16	1.78	0.18	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	4/7/19	SW 505	H/o Lab Patiala	7.6	2.8	18	1012	24000	3400	0.30	1.89	0.20	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	Ghaggar at U/s Dhakanshu Nallah was found dry at the time of sample collection													
7	Ghaggar at D/s Dhakanshu Nallah	1700	Ghaggar at D/s Dhakanshu Nallah was found dry at the time of sample collection													
8	Ghaggar at Rattanheri	1473	9/7/19	SW 523	H/o Lab Patiala	7.5	2.0	42	1452	35000	7000	0.25	3.86	0.39	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9/7/19	SW 524	H/o Lab Patiala	8.1	1.9	38	1250	43000	6300	0.64	3.66	0.21	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9/7/19	SW 525	H/o Lab Patiala	8.0	1.7	44	1455	46000	9200	0.52	3.36	0.30	E	U
11	Ghaggar at Khanauri	1024	9/7/19	SW 528	H/o Lab Patiala	7.9	3.6	10	540	21000	2700	0.36	1.16	0.29	E	U
12	Ghaggar at Moonak	1703	9/7/19	SW 529	H/o Lab Patiala	8.0	3.2	18	830	28000	3800	0.49	1.62	0.41	E	U
13	Ghaggar at U/s Sardulgarh	1705	17/7/19	SW 606	H/o Lab Patiala	7.4	4.4	10	415	17000	2200	0.17	0.92	0.28	D	U
14	Ghaggar at D/s Sardulgarh	1704	17/7/19	SW 601	H/o Lab Patiala	7.5	4.2	13	518	24000	3400	0.24	1.03	0.35	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	NO ₃ -N mg/l	TKN mg/l	PO ₄ as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ghaggar at Mubarikpur Rest House	1023	4/7/19	SW 501	H/o Lab Patiala	36	281	429	324	275	32	12	145	43	9	214	BDL	9.9	1.98	13.9	0.19	0.29	38	10
2	Ghaggar at Bhankarpur	1295	4/7/19	SW 502	H/o Lab Patiala	137	620	704	502	427	80	14	270	75	20	325	BDL	12.3	0.99	17.2	2.15	0.32	43	22
3	Ghaggar at Chattbir	1698	4/7/19	SW 503	H/o Lab Patiala	111	125	348	570	485	85	15	278	80	19	310	BDL	8.4	0.89	11.8	0.79	0.30	52	34
4	Ghaggar at U/s Jharmal Nadi	1702	4/7/19	SW 504	H/o Lab Patiala	51	30	142	537	456	81	19	228	70	13	277	BDL	7.9	0.81	11.06	3.19	0.21	62	28
5	Ghaggar at D/s Jharmal Nadi	1701	4/7/19	SW 505	H/o Lab Patiala	90	40	184	607	516	110	21	275	82	17	328	BDL	11.8	1.32	16.5	5.39	0.63	72	38
6	Ghaggar at U/s Dhakanshu Nallah	1699	Ghaggar at U/s Dhakanshu Nallah was found dry at the time of sample collection																					
7	Ghaggar at D/s Dhakanshu Nallah	1700	Ghaggar at D/s Dhakanshu Nallah was found dry at the time of sample collection																					
8	Ghaggar at Rattanheri	1473	9/7/19	SW 523	H/o Lab Patiala	200	220	478	871	740	157	38	381	108	27	435	BDL	12.6	0.78	17.6	7.09	0.59	173	52
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9/7/19	SW 524	H/o Lab Patiala	182	60	172	750	638	114	31	277	78	20	387	BDL	9.9	1.02	13.2	1.64	0.36	140	48
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9/7/19	SW 525	H/o Lab Patiala	208	70	194	873	742	162	41	420	115	32	438	BDL	10.3	1.30	14.4	5.10	0.43	158	60
11	Ghaggar at Khanauri	1024	9/7/19	SW 528	H/o Lab Patiala	52	40	102	324	275	37	17	136	41	8	248	BDL	8.10	0.85	11.3	1.30	0.28	31	14
12	Ghaggar at Moonak	1703	9/7/19	SW 529	H/o Lab Patiala	88	85	152	498	423	48	25	211	58	16	315	BDL	9.7	0.94	13.6	2.78	0.33	54	19
13	Ghaggar at U/s Sardulgarh	1705	17/7/19	SW 606	H/o Lab Patiala	52	120	168	249	212	29	9	99	28	7	195	BDL	11.3	0.75	15.8	3.60	0.24	21	10
14	Ghaggar at D/s Sardulgarh	1704	17/7/19	SW 601	H/o Lab Patiala	66	190	210	311	264	34	12	132	31	13	256	BDL	12.2	0.99	17.1	3.96	0.27	27	13

Note. 1. BDL means Below Method Detection Limit

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Kali Bein (Sultanpur Lodhi to Confluence to Beas) : Priority IV

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	FColi MPN/100ml	Free Amm. mg/l	SAR	B mg/l	Water quality as per DBU	Water Quality Index
1	Kali Bein into Beas	2913	9/7/19	SW 519	Z.O. Lab Jalandhar	7.7	7.1	3.6	405	2800	1400	0.036	0.80	0.40	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.Alk n mg/l	p.Alkn mg/l	Amn-N 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	Kali Bein into Beas	2913	9/7/19	SW 519	Z.O. Lab Jalandhar	26	26	14	284	230	22	18	233	39	33	184	BDL	1.2	1.1	1.9	0.15	0.18	28	3.2

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Beas (along Mukerian) : Priority V

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	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	10/7/19	SW 522	ZO Lab Jal.	7.9	8.0	1.1	252	490	230	0.032	0.16	0.84	B	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	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	10/7/19	SW 522	ZO Lab Jal.	12	56	38	161	114	14	10	110	28	9	141	BDL	0.7	0.4	1.2	0.06	0.14	3.9	3.4

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