

Quality of Water of Polluted River stretches in Punjab for the month of December, 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 us/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	04.12.19	SW 1063	ZO Lab Ldh	8.0	8.0	<1	367	1700	780	0.105	0.27	0.11	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	04.12.19	SW 1064	ZO Lab Ldh	8.4	7.4	<1	310	2100	680	BDL	0.21	0.13	C	S
3	River Satluj U/S Buddha Nallah	1690	05.12.19	SW 1067	ZO Lab Ldh	8.0	8.1	1.2	488	4900	450	0.070	0.61	0.20	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	05.12.19	SW 1069	ZO Lab Ldh	7.6	1.2	24	840	35,00,000	17,00,000	0.133	1.22	0.26	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	06.12.19	SW 1071	ZO Lab Ldh	7.5	3.0	12	769	1,60,000	33,000	0.104	1.20	0.30	E	U
6	River Satluj at D/s East Bein	1381	06.12.19	SW 1072	ZO Lab Jal.	7.4	4.8	9	870	1,30,000	22,000	0.132	1.43	0.31	D	U
7	River Satluj at Harike	1022	06.12.19	SW 1073	ZO Lab Ldh	7.8	7.0	4.4	319	3300	200	0.042	0.43	0.20	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	04.12.19	SW 1063	ZO Lab Ldh	<5	6	BDL	189	164	14	12	128	30.4	12.6	92	BDL	2.1	4.72	2.6	BDL	0.18	6.9	2.6
2	River Satluj D/S of Rishab- Paper Mills	1293	04.12.19	SW 1064	ZO Lab Ldh	<5	8	BDL	180	157	9	15	128	33.6	9.7	90	BDL	BDL	5.12	1.1	BDL	0.30	5.4	2.3
3	River Satluj U/S Buddha Nallah	1690	05.12.19	SW 1067	ZO Lab Ldh	6	8	BDL	283	244	37	18	172	40.8	17	132	BDL	1.4	11.2	1.8	0.25	0.30	18.5	4.4
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	05.12.19	SW 1069	ZO Lab Ldh	88	75	142	482	410	84	26	194	48	18	206	BDL	5.3	3.12	7.1	0.20	0.52	39	9.7
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	06.12.19	SW 1071	ZO Lab Ldh	56	45	102	445	343	85	30	218	48	23.8	212	BDL	5.2	1.64	7.0	0.16	0.20	40.8	9.7
6	River Satluj at D/s East Bein	1381	06.12.19	SW 1072	ZO Lab Jal.	32	25	49	507	447	97	32	214	47.2	23.3	264	BDL	8.8	1.92	11.3	0.81	0.24	48.2	13.6
7	River Satluj at Harike	1022	06.12.19	SW 1073	ZO Lab Ldh	24	37	69	185	162	23	9	120	29.6	11.2	108	BDL	1.2	2.98	1.4	0.10	0.28	10.9	4.9

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 December, 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	5/12/19	SW 1449	H/o Lab Patiala	7.6	6.9	7	380	14000	1700	0.28	1.18	0.71	D	U
2	Ghaggar at Bhankarpur	1295	5/12/19	SW 1450	H/o Lab Patiala	7.5	4.2	32	717	21000	2100	0.27	1.58	0.86	D	U
3	Ghaggar at Chattbir	1698	5/12/19	SW 1451	H/o Lab Patiala	7.3	3.0	12	598	21000	2200	0.12	1.73	0.82	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	5/12/19	SW 1452	H/o Lab Patiala	7.7	4.0	9	475	15000	2000	0.36	1.47	0.70	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	5/12/19	SW 1453	H/o Lab Patiala	7.6	3.3	16	620	22000	2100	0.35	1.57	0.79	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/12/19	SW 1455	H/o Lab Patiala	7.6	3.6	13	617	17000	1700	0.29	1.76	0.74	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/12/19	SW 1456	H/o Lab Patiala	7.4	3.2	19	810	24000	2700	0.21	2.04	0.81	E	U
8	Ghaggar at Rattanheri	1473	10/12/19	SW 1509	H/o Lab Patiala	7.8	3.9	14	760	28000	3800	0.42	2.17	0.84	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/12/19	SW 1510	H/o Lab Patiala	7.9	3.7	15	845	24000	3400	0.59	2.18	0.79	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/12/19	SW 1511	H/o Lab Patiala	7.7	3.2	22	1000	28000	3900	0.36	2.48	0.88	E	U
11	Ghaggar at Khanauri	1024	10/12/19	SW 1514	H/o Lab Patiala	7.7	3.8	27	833	28000	3200	0.32	2.34	0.90	E	U
12	Ghaggar at Moonak	1703	10/12/19	SW 1516	H/o Lab Patiala	7.9	3.1	26	948	28000	4000	0.59	2.23	0.99	E	U
13	Ghaggar at U/s Sardulgarh	1705	12/12/19	SW 1530	H/o Lab Patiala	7.8	4.2	9	532	17000	2600	0.36	1.75	0.42	D	U
14	Ghaggar at D/s Sardulgarh	1704	12/12/19	SW 1531	H/o Lab Patiala	7.9	4.0	14	632	21000	3200	0.54	1.67	0.57	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	5/12/19	SW 1449	H/o Lab Patiala	28	320	268	228	194	27	9	79	23	5	159	BDL	11.3	2.24	15.8	3.2	0.41	24	11
2	Ghaggar at Bhankarpur	1295	5/12/19	SW 1450	H/o Lab Patiala	145	160	210	430	366	62	26	254	72	18	212	BDL	13.7	1.94	19.2	3.3	0.11	58	24
3	Ghaggar at Chattbir	1698	5/12/19	SW 1451	H/o Lab Patiala	56	155	191	359	305	47	19	166	43	14	209	BDL	12.2	1.13	17.1	2.7	0.62	51	20
4	Ghaggar at U/s Jharmal Nadi	1702	5/12/19	SW 1452	H/o Lab Patiala	33	70	110	285	242	36	11	114	29	10	183	BDL	11.9	0.93	16.7	2.3	0.32	36	16
5	Ghaggar at D/s Jharmal Nadi	1701	5/12/19	SW 1453	H/o Lab Patiala	76	110	143	372	316	51	21	165	58	17	219	BDL	13.9	1.04	19.5	3.0	0.70	53	22
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/12/19	SW 1455	H/o Lab Patiala	58	70	120	370	315	39	18	198	48	19	215	BDL	11.7	0.90	16.4	1.2	0.74	57	24
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/12/19	SW 1456	H/o Lab Patiala	84	75	134	430	366	67	26	249	60	24	279	BDL	14.1	1.24	19.7	1.5	0.87	74	29
8	Ghaggar at Rattanheri	1473	10/12/19	SW 1509	H/o Lab Patiala	64	50	163	456	388	59	24	238	64	19	224	BDL	12.1	0.74	16.9	2.6	0.56	77	36
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/12/19	SW 1510	H/o Lab Patiala	68	35	155	507	431	68	27	263	67	23	261	BDL	13.2	1.21	18.5	2.6	0.83	81	39
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/12/19	SW 1511	H/o Lab Patiala	98	30	149	600	510	83	34	319	80	29	297	BDL	11.9	1.49	16.7	3.8	0.94	102	46
11	Ghaggar at Khanauri	1024	10/12/19	SW 1514	H/o Lab Patiala	124	30	133	500	425	85	33	333	82	31	301	BDL	10.7	1.61	15.0	4.6	0.96	98	38
12	Ghaggar at Moonak	1703	10/12/19	SW 1516	H/o Lab Patiala	118	30	144	569	484	82	29	323	80	30	292	BDL	13.0	1.29	18.2	5.2	0.82	92	34
13	Ghaggar at U/s Sardulgarh	1705	12/12/19	SW 1530	H/o Lab Patiala	43	20	33	319	271	28	21	143	34	14	205	BDL	10.4	0.62	14.6	0.85	0.41	48	16
14	Ghaggar at D/s Sardulgarh	1704	12/12/19	SW 1531	H/o Lab Patiala	60	25	41	379	322	43	18	214	49	22	224	BDL	11.9	0.82	16.7	1.4	0.63	56	20

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	19.12.19	S832	Z.O. Lab Jalandhar	7.3	4.8	2.8	324	4800	1300	0.011	0.80	0.77	C	S

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1	Kali Bein into Beas	2913	19.12.19	S832	Z.O. Lab Jalandhar	20	18	BDL	210	148	25	20	118	32	9	116	ND	1.1	0.6	1.7	0.14	0.15	20	5.5

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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 Amn. 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	05.12.2019	SW 789	ZO Lab Jal.	8.0	7.9	1.3	300	430	210	0.030	0.35	0.20	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	05.12.2019	SW 789	ZO Lab Jal.	12	19	BDL	170	132	18	14	111	26	11	120	BDL	0.6	0.5	1.1	0.06	0.12	8.5	2.4

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