

Quality of Water of Polluted River stretches in Punjab for the month of March, 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	14.03.2019	SW 434	ZO Lab Ldh	7.31	7.8	<1	330	930	200	0.018	0.46	BDL	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	14.03.19	SW 435	ZO Lab Ldh	7.48	7.4	<1	389	1100	450	0.040	0.34	BDL	C	S
3	River Satluj U/S Buddha Nallah	1690	19.03.19	SW 442	ZO Lab Ldh	7.57	6.8	2.0	432	1700	920	0.055	0.72	0.07	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	19.03.19	SW 444	ZO Lab Ldh	7.12	1.4	105	1245	460000	170000	0.009	4.23	0.29	E	N
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	20.03.19	SW 457	ZO Lab Ldh	7.01	4.2	10	640	150000	63000	BDL	1.32	0.08	D	N
6	River Satluj at D/s East Bein	1381	20.03.19	SW 301	ZO Lab Jal.	7.3	1.5	15	592	17000	7900	0.094	1.72	0.08	E	N
7	River Satluj at Harike	1022	20.03.19	SW 302	ZO Lab Jal.	7.2	5.4	3.2	337	9400	4600	0.042	0.94	BDL	D	N

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 as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ropar Head-Works	1019	14.03.2019	SW 434	ZO Lab Ldh	<5	6.2	11	201	192	22	18	120	29.6	11.04	118	BDL	1.8	1.04	2.8	0.14	0.15	11.5	2.9
2	River Satluj D/S of Rishab- Paper Mills	1293	14.03.19	SW 435	ZO Lab Ldh	<5	7.6	15	240	221	27	24	174	44	15.36	148	BDL	2.0	0.92	3.2	0.18	0.14	10.3	2.5
3	River Satluj U/S Buddha Nallah	1690	19.03.19	SW 442	ZO Lab Ldh	16	9.2	20	258	232	34	30	180	41.6	18.24	142	BDL	2.2	1.69	3.8	0.22	0.16	22	4.2
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	19.03.19	SW 444	ZO Lab Ldh	376	76	78	729	638	60	52	252	64	22.08	270	BDL	18	1.94	28	1.4	0.29	154	20
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	20.03.19	SW 457	ZO Lab Ldh	44	25	26	372	318	38	36	192	48	17.28	172	BDL	5.0	0.60	8	0.50	0.17	42	7.8
6	River Satluj at D/s East Bein	1381	20.03.19	SW 301	ZO Lab Jal.	51	112	48	410	342	48	28	153	32	18	281	BDL	9.4	1.6	16.2	0.50	0.18	49	6.9
7	River Satluj at Harike	1022	20.03.19	SW 302	ZO Lab Jal.	20	124	52	216	170	26	16	104	28	8	156	BDL	4.2	1.4	7.6	0.30	0.15	22	4.7

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, N means Not Satisfactory)

4. U/s means Upstream , D/s means Downstream

Quality of Water of Polluted River stretches in Punjab for the month of March, 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	5/3/19	SW 1453	H/o Lab Patiala	7.9	4.9	6	617	22000	3200	0.310	1.04	0.25	D	N
2	Ghaggar at Bhankarpur	1295	5/3/19	SW 1454	H/o Lab Patiala	7.6	4.4	17	862	24000	3400	0.250	1.97	0.28	D	N
3	Ghaggar at Chattbir	1698	5/3/19	SW 1455	H/o Lab Patiala	7.5	3.8	20	952	22000	3300	0.214	1.79	0.27	E	N
4	Ghaggar at U/s Jharmal Nadi	1702	5/3/19	SW 1456	H/o Lab Patiala	7.6	4.0	10	897	17000	2600	0.220	1.93	0.21	D	N
5	Ghaggar at D/s Jharmal Nadi	1701	5/3/19	SW 1457	H/o Lab Patiala	7.5	3.2	16	1025	21000	3100	0.188	2.14	0.26	E	N
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/3/19	SW 1459	H/o Lab Patiala	7.4	4.0	11	998	15000	2200	0.170	1.95	0.08	D	N
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/3/19	SW 1460	H/o Lab Patiala	7.5	3.2	14	1066	24000	3300	0.204	2.13	0.10	E	N
8	Ghaggar at Rattanheri	1473	12/3/19	SW 1464	H/o Lab Patiala	7.6	2.2	15	1051	24000	3400	0.330	2.11	0.13	E	N
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	12/3/19	SW 1467	H/o Lab Patiala	7.5	4.1	16	1063	24000	3300	0.252	2.26	0.24	D	N
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	12/3/19	SW 1469	H/o Lab Patiala	7.4	2.8	35	1283	28000	7000	0.162	2.23	0.22	E	N
11	Ghaggar at Khanauri	1024	12/3/19	SW 1465	H/o Lab Patiala	7.7	3.0	17	1163	21000	2700	0.387	2.25	0.23	E	N
12	Ghaggar at Moonak	1703	12/3/19	SW 1466	H/o Lab Patiala	7.7	2.8	15	1047	22000	3900	0.366	2.20	0.22	E	N
13	Ghaggar at U/s Sardulgarh	1705	15/3/19	SW 1489	H/o Lab Patiala	7.6	3.5	13	1070	21000	3200	0.295	2.41	0.22	E	N
14	Ghaggar at D/s Sardulgarh	1704	15/3/19	SW 1490	H/o Lab Patiala	7.6	3.1	18	1162	24000	3400	0.307	2.43	0.32	E	N

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1	Ghaggar at Mubarikpur Rest House	1023	5/3/19	SW 1453	H/o Lab Patiala	29	650	962	370	315	35	11	256	80	13	269	BDL	6.8	4.63	9.5	0.60	0.27	38	6
2	Ghaggar at Bhankarpur	1295	5/3/19	SW 1454	H/o Lab Patiala	87	440	724	517	439	46	18	284	95	11	352	BDL	10.0	0.98	14.0	1.0	0.18	76	22
3	Ghaggar at Chattbir	1698	5/3/19	SW 1455	H/o Lab Patiala	98	320	768	571	485	80	24	328	112	11	360	BDL	10.7	0.79	15.0	0.35	0.15	74	20
4	Ghaggar at U/s Jharmal Nadi	1702	5/3/19	SW 1456	H/o Lab Patiala	52	250	430	538	457	71	25	279	102	6	337	BDL	8.8	0.62	12.3	0.18	0.17	74	26
5	Ghaggar at D/s Jharmal Nadi	1701	5/3/19	SW 1457	H/o Lab Patiala	78	420	562	615	523	101	34	300	106	8	350	BDL	9.4	1.04	13.1	0.77	0.26	85	32
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/3/19	SW 1459	H/o Lab Patiala	58	60	168	599	509	117	22	303	110	7	356	BDL	11.3	0.58	15.8	0.69	0.20	78	24
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/3/19	SW 1460	H/o Lab Patiala	72	75	192	640	544	123	26	319	112	9	375	BDL	13.6	0.74	19.0	1.4	0.24	87	28
8	Ghaggar at Rattanheri	1473	12/3/19	SW 1464	H/o Lab Patiala	77	50	100	630	536	101	18	330	119	8	418	BDL	13.2	0.61	18.5	0.55	0.29	88	16
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	12/3/19	SW 1467	H/o Lab Patiala	79	40	78	638	542	100	16	307	106	10	440	BDL	12.6	0.84	17.6	1.27	0.24	91	20
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	12/3/19	SW 1469	H/o Lab Patiala	157	60	110	770	655	156	29	365	128	11	480	BDL	10.8	0.79	15.1	2.60	0.27	98	23
11	Ghaggar at Khanauri	1024	12/3/19	SW 1465	H/o Lab Patiala	83	40	52	698	593	124	30	329	117	9	449	BDL	12.9	0.76	18.1	0.26	0.31	94	21
12	Ghaggar at Moonak	1703	12/3/19	SW 1466	H/o Lab Patiala	70	30	46	628	534	102	21	312	116	5	410	BDL	12.2	0.69	17.1	0.44	0.29	89	19
13	Ghaggar at U/s Sardulgarh	1705	15/3/19	SW 1489	H/o Lab Patiala	69	20	44	642	546	117	20	282	96	10	415	BDL	11.8	0.84	16.5	0.48	0.32	93	27
14	Ghaggar at D/s Sardulgarh	1704	15/3/19	SW 1490	H/o Lab Patiala	84	30	54	697	592	122	31	316	104	13	440	BDL	12.3	0.90	17.2	0.69	0.36	99	32

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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	19/3/19	SW 299	Z.O. Lab Jalandhar	7.7	6.7	4.2	413	3500	1700	0.042	0.83	BDL	D	N

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1	Kali Bein into Beas	2913	19/3/19	SW 299	Z.O. Lab Jalandhar	27	48	24	290	230	20	18	216	58	17	177	BDL	1.4	1.2	2.4	0.22	0.16	28	4.4

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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	14/3/19	SW 283	ZO Lab Jal.	7.8	7.9	1.8	307	630	460	0.032	0.36	BDL	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	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	14/3/19	SW 283	ZO Lab Jal.	14	52	32	196	165	22	16	144	36	13	135	BDL	0.9	0.6	1.6	0.16	0.13	10	2.7

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