

Analysis results of Surface water monitoring under NWMP for the month of March, 2019

River Satluj

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 DBU	Water Quality Index
1	River Satluj at U/S Nangal	1017	12.03.19	SW 426	ZO Lab Ldh	7.12	9.6	<1	226	120	23	0.00014	0.37	BDL	B	S
2	River Satluj at D/S NFL	1380	12.03.19	SW 427	ZO Lab Ldh	7.17	8.8	<1	254	210	33	0.001	0.40	0.06	B	S
3	River Sutej at 100m D/s PACL Nangal	2915	12.03.19	SW 428	ZO Lab Ldh	7.28	8.9	<1	242	220	31	0.010	0.36	0.07	B	S
4	River Satluj at D/s Nangal	1018	12.03.19	SW 429	ZO Lab Ldh	7.53	9.0	<1	252	140	26	0.024	0.56	BDL	B	S
5	River Satluj at Kiratpur Sahib	1814	14.03.19	SW 431	ZO Lab Ldh	7.18	8.0	<1	344	790	230	0.014	0.43	BDL	C	S
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	Harike Lake D/S from canal	1382	20.03.19	SW 303	ZO Lab Jal.	7.7	8.8	1.8	244	3500	1300	0.060	0.36	BDL	C	S
14	D/S Harike lake	1297	20.03.19	SW304	ZO Lab Jal.	7.8	8.6	1.6	232	4300	2100	0.042	0.39	BDL	C	S
15	U/S Hussainiwala H/W Ferozepur	1691	20.03.19	SW 458	ZO Lab Ldh	7.31	8.2	<1	252	2100	910	0.010	0.37	BDL	C	S
16	D/S Hussainiwala H/W Ferozepur	1692	20.03.19	SW 459	ZO Lab Ldh	7.13	8.0	<1	260	1700	450	0.001	0.37	BDL	C	S

- 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

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River Satluj

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	River Satluj at U/S Nangal	1017	12.03.19	SW 426	ZO Lab Ldh	<5	6.2	8	148	134	10	9	102	32	5.3	94	BDL	0.8	0.97	1.2	0.10	0.15	7.4	1.6
2	River Satluj at D/S NFL	1380	12.03.19	SW 427	ZO Lab Ldh	<5	6.8	9	162	148	14	12	104	32.8	5.3	96	BDL	1.3	1.52	1.8	0.10	0.24	9.3	3.9
3	River Sutej at 100m D/s PACL Nangal	2915	12.03.19	SW 428	ZO Lab Ldh	<5	6.4	9	154	138	15	14	108	33.6	5.8	100	BDL	1.0	1.60	1.6	0.12	0.24	8.6	1.2
4	River Satluj atD/s Nangal	1018	12.03.19	SW 429	ZO Lab Ldh	<5	4.1	13	162	154	11	9	96	24.4	8.6	106	BDL	1.2	0.79	1.8	0.14	0.14	12.7	1.5
5	River Satluj at Kiratpur Sahib	1814	14.03.19	SW 431	ZO Lab Ldh	<5	7	14	220	209	18	16	134	33.6	12	124	BDL	1.4	1.24	2.2	0.18	0.14	11.5	2.8
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	Harike Lake D/S from canal	1382	20.03.19	SW 303	ZO Lab Jal.	16	118	38	170	147	20	12	120	33	9	106	BDL	2.0	0.8	3.0	0.26	0.13	9	2.5
14	D/S Harike lake	1297	20.03.19	SW304	ZO Lab Jal.	14	94	32	166	144	18	10	102	23	11	111	BDL	1.2	0.8	2.0	0.18	0.11	9	2.5
15	U/S Hussainiwala H/W Ferozepur	1691	20.03.19	SW 458	ZO Lab Ldh	<5	6.0	9	148	138	16	10	118	28.8	11.04	98	BDL	1.0	0.61	1.6	0.14	0.13	9.3	3.3
16	D/S Hussainiwala H/W Ferozepur	1692	20.03.19	SW 459	ZO Lab Ldh	6	6.2	10	154	142	18	10	124	31.2	11.04	102	BDL	1.2	0.64	1.8	0.16	0.13	9.5	3.5

Note. 1. BDL means Below Method Detection Limit
2. U/s means upstream, D/s downstream

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River Beas

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 DBU	Water Quality Index
17	River Beas at Talwara H/W	1693	11/3/19	SW 279	ZO Lab Jal.	7.9	8.7	BDL	260	33	9	BDL	0.21	BDL	A	S
18	River Beas at U/S Pathankot	1694	11/3/19	SW 281	ZO Lab Jal.	8.1	8.7	1.0	268	170	110	0.033	0.35	BDL	B	S
19	River Beas at D/S Pathankot	1695	11/3/19	SW 282	ZO Lab Jal.	7.9	8.2	1.3	290	580	250	0.032	0.26	BDL	C	S
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	11/3/19	SW 280	ZO Lab Jal.	8.0	8.9	1.0	278	94	43	0.030	0.54	BDL	B	S
21	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
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	14/3/19	SW 284	ZO Lab Jal.	7.9	7.8	1.7	320	330	170	0.036	0.88	BDL	B	S
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	14/3/19	SW 285	ZO Lab Jal.	8.0	8.1	1.6	232	350	220	0.035	0.32	BDL	B	S
24	River Beas at U/s Goindwal	1696	14/3/19	SW 286	ZO Lab Jal.	7.8	8.4	1.4	248	280	170	0.025	0.33	BDL	B	S
25	River Beas at D/s Goindwal	1012	14/3/19	SW 287	ZO Lab Jal.	7.9	8.2	1.4	255	310	170	0.036	0.33	BDL	B	S
26	Beas at Harike	1697	20/3/19	SW 300	ZO Lab Jal.	7.8	8.3	1.4	270	280	130	0.028	0.55	BDL	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	NO3-N mg/l	TKN mg/l	PO ₄ as P mg/l	F mg/l	Na mg/l	K mg/l
17	River Beas at Talwara H/W	1693	11/3/19	SW 279	ZO Lab Jal.	6	8.4	14	166	142	16	12	113	92	27	113	BDL	BDL	BDL	BDL	BDL	BDL	9	2.4
18	River Beas at U/S Pathankot	1694	11/3/19	SW 281	ZO Lab Jal.	8	36	22	172	156	18	14	126	34	10	118	BDL	0.5	0.5	1.0	0.10	0.10	9	1.6
19	River Beas at D/S Pathankot	1695	11/3/19	SW 282	ZO Lab Jal.	12	48	28	180	148	20	12	136	33	13	127	BDL	0.7	0.4	1.1	0.12	0.12	7	2.0
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	11/3/19	SW 280	ZO Lab Jal.	8	18	16	174	148	17	14	94	28	6	132	BDL	0.6	0.3	1.0	0.10	0.10	12	2.5
21	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
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	14/3/19	SW 284	ZO Lab Jal.	13	50	30	218	162	19	14	130	39	8	160	BDL	0.8	0.8	1.4	0.14	0.12	23	4.4
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	14/3/19	SW 285	ZO Lab Jal.	15	62	36	168	138	17	16	116	30	10	120	BDL	0.7	1.0	1.3	0.15	0.11	8	2.4
24	River Beas at U/s Goindwal	1696	14/3/19	SW 286	ZO Lab Jal.	14	54	30	170	140	14	12	109	26	11	132	BDL	0.7	0.8	1.4	0.14	0.12	8	2.4
25	River Beas at D/s Goindwal	1012	14/3/19	SW 287	ZO Lab Jal.	15	58	32	178	144	15	12	112	31	9	135	BDL	0.8	1.0	1.5	0.16	0.13	8	2.4
26	Beas at Harike	1697	20/3/19	SW 300	ZO Lab Jal.	14	68	38	168	156	16	14	104	22	12	127	BDL	0.8	0.8	1.5	0.14	0.12	13	2.6

- Note. 1. BDL means Below Method Detection Limit
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Analysis results of Surface water monitoring under NWMP for the month of March, 2019

River Ravi

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 DBU	Water Quality Index
27	Ravi at U/s of Madhopur H/W	1097	11/3/19	SW 278	ZO Lab Jal.	7.8	8.8	BDL	198	70	33	BDL	0.14	BDL	B	S

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27	Ravi at U/s of Madhopur H/W	1097	11/3/19	SW 278	ZO Lab Jal.	BDL	6.3	BDL	138	121	15	12	82	26	4	87	BDL	BDL	BDL	BDL	BDL	BDL	3	2.2

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River Ghaggar

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	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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1	Dhanula Drain falling into Lasara drain, Near village, Ghunas Punjab	2906	20/3/19	SW 1491	H.O. Lab Patiala	7.2	BDL	162	4368	350000	170000	0.074	13.10	0.90	E	N
2	Tallewal Drain along with Lohgarh – Jalwana Link road near Shri Krishna rice mill Punjab	2909	20/3/19	SW 1492	H.O. Lab Patiala	7.7	BDL	60	1850	54000	17000	0.447	3.31	0.55	E	N
3	Point Source B/N	2914	19.03.19	SW 443	Z.O. Lab, Ludhiana	7.01	BDL	140	1840	840000	230000	BDL	4.15	0.41	E	N
4	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
5	Outfall of Nag Kalan drain into Tung Dhab drain at Majitha road, Amritsar	4163	Sample was not collected													
6	Tungdab drain at fatehgarh churian, Amritsar	2910	20/3/19	SW 305	Z.O. Lab Jalandhar	6.7	BDL	168	2350	220000	130000	BDL	5.71	0.13	-	-
7	Hundiara drain before entering Pakistan	2907	20/3/19	SW 306	Z.O. Lab Jalandhar	7.2	BDL	46	1680	110000	49000	0.320	4.08	0.09	-	-
8	Pathlawar Drain	2911	Sample was not collected													
9	Ranjit Sagar Reservoir	2912	11/3/19	SW 277	Z.O. Lab Jalandhar	7.9	8.6	BDL	193	63	31	BDL	0.23	BDL	B	S
10	Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab	2908	5/3/19	SW 1458	H.O. Lab Patiala	8.0	BDL	19	1120	35000	11000	0.385	0.09	0.09	E	N
11	Sagar Para Drain at village sagra dist.Patiala	4158	12/3/19	SW 1468	H.O. Lab Patiala	7.6	BDL	171	1950	43000	11000	0.205	1.50	0.29	E	N
12	Confluence point of sukhana Choe with River Ghaggar,vill.Mubarkpur	4162	5/3/19	SW 1461	H.O. Lab Patiala	7.4	BDL	70	1060	210000	120000	0.213	2.27	0.16	E	N
13	Confluence point of Sarsa Nadi with river Satluj	4161	14.03.19	SW 433	ZO Lab Ldh	7.15	7.6	<1	332	840	210	0.040	2.41	BDL	C	S

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)

Analysis results of Surface water monitoring under NWMP for the month of March, 2019

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	Amn-N 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	Dhanula Drain falling into Lasara drain, Near village, Ghunas Punjab	2906	20/3/19	SW 1491	H.O. Lab Patiala	643	260	528	2621	2228	725	192	639	204	31	743	BDL	7.4	0.96	10.3	1.14	0.51	760	210
2	Tallewal Drain along with Lohgarh – Jalwana Link road near Shri Krishna rice mill Punjab	2909	20/3/19	SW 1492	H.O. Lab Patiala	291	120	310	1110	944	200	88	455	158	14	421	BDL	14.9	0.88	20.8	1.07	0.48	162	204
3	Point Source B/N	2914	19.03.19	SW 443	Z.O. Lab, Ludhiana	480	204	212	1080	920	182	154	390	99.2	34.08	548	BDL	32	2.30	50	2.8	0.35	188	32
4	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
5	Outfall of Nag Kalan drain into Tung Dhab drain at Majitha road, Amritsar	4163	Sample was not collected																					
6	Tungdab drain at fatehgarh churian, Amritsar	2910	20/3/19	SW 305	Z.O. Lab Jalandhar	490	422	178	1620	1134	188	148	790	241	46	585	BDL	40	3.6	78	3.4	0.36	369	26
7	Hundiara drain before entering Pakistan	2907	20/3/19	SW 306	Z.O. Lab Jalandhar	150	340	86	980	715	128	94	486	154	25	396	BDL	32	2.4	68	2.6	0.26	207	29
8	Pathlawar Drain	2911	Sample was not collected																					
9	Ranjit Sagar Reservoir	2912	11/3/19	SW 277	Z.O. Lab Jalandhar	BDL	2.8	10	128	106	12	10	57	17	4	90	BDL	BDL	BDL	BDL	BDL	BDL	4.0	2.6
10	Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab	2908	5/3/19	SW 1458	H.O. Lab Patiala	90	40	122	672	571	72	29	337	122	8	460	BDL	7.7	10.7	10.7	0.18	0.30	100	30
11	Sagar Para Drain at village sagra dist.Patiala	4158	12/3/19	SW 1468	H.O. Lab Patiala	682	50	48	1170	995	235	52	840	300	22	666	BDL	8.2	0.70	11.5	0.39	0.30	90	24
12	Confluence point of sukhana Choe with River Ghaggar,vill.Mubarkpur	4162	5/3/19	SW 1461	H.O. Lab Patiala	278	50	228	636	541	96	28	296	96	14	464	BDL	14.21	1.02	19.9	1.71	0.19	60	20
13	Confluence point of Sarsa Nadi with river Satluj	4161	14.03.19	SW 433	ZO Lab Ldh	<5	6.0	12	198	186	26	18	118	28	11.52	112	BDL	1.6	BDL	2.2	0.16	0.17	19.9	2.5

Note. . BDL means Below Method Detection Limit