

Analysis results of Surface water monitoring under NWMP for the month of October, 2017

S. N.	Point of Sample Collection	Code	pH	Temp. (Air/Water) ^o C	DO mg/l	Cond us/Cm	TD S mg/l	FDS mg/l	COD mg/l	BOD mg/l	TSS mg/l	Turb NTU	T.Alk n mg/l	P.Alk n mg/l	TH mg/l	Ca mg/l	Mg mg/l	Cl mg/l	SO ₄ Mg/l	NO ₃ -N mg/l	F mg/l	PO ₄ as P mg/l	AmnN mg/l	TKN mg/l	T.Coli MPN/100ml	FColi MPN/100ml	Na mg/l	K mg/l	Boro n mg/l	WQI	DBU
1	River Satluj, U/S Nangal	1017	7.92	26/22	7.9	286	172	164	2.9	BDL	8	3	45	BDL	45	12	3.68	18	14	0.4	0.2	0.2	0.4	1.8	380	170	19	3	BDL	S	B
2	River Satluj D/S NFL	1380	7.99	24/24	7.7	337	208	196	4.7	BDL	12	7	65	BDL	60	16	4.9	26	19	1.0	0.4	0.8	0.8	2.6	400	220	27	4	BDL	S	B
3	100m D/s PACL Nangal	2915	8.42	24/24	7.6	386	239	223	5.6	0.5	15	9	75	BDL	70	18	6.13	34	22	1.2	0.4	1.2	1.0	2.8	430	230	31	5	0.11	S	B
4	River Satluj D/s Nangal	1018	8.20	27/21	7.8	304	189	178	3.4	BDL	10	5	55	BDL	50	14	3.18	22	16	0.6	0.2	0.4	0.6	2.2	390	170	21	4	BDL	S	B
5	River Satluj at Kiratpur Sahib	1814	7.68	27/22	7.6	299	190	176	4	BDL	12	5.4	54	BDL	60	16	4.8	18	14	0.8	0.5	0.8	1.0	1.6	930	400	21	5.0	BDL	S	C
6	Ropar Head-Works	1019	7.65	30/23	7.8	280	182	166	3.2	BDL	9	4.8	45	BDL	50	13.6	4.3	16	10	0.8	0.4	0.6	1.0	1.8	830	200	20	4.4	BDL	S	C
7	River Satluj D/S of Rishab-Paper Mills	1293	7.42	30/23	7.7	304	198	180	4.0	BDL	10	5.8	50	BDL	56	14.4	4.8	20	16	1.0	0.6	0.8	1.2	1.8	810	200	24	5.2	BDL	S	C
8	River Satluj U/S Buddha Nallah	1690	7.68	29/22	5.8	426	260	242	12	BDL	16	12	67	BDL	76	18.0	7.44	24	18	0.8	0.6	1.0	0.8	2.2	1200	400	30	5.8	0.10	S	C
9	Satluj at 100 mts D/s Budha Nallah confluence Ludhiana	1020	7.43	28/24	2.0	1075	651	602	240	63	56	44	148	BDL	137	34.4	12.24	94	72	2.0	2.0	2.6	4.2	7.8	170000	110000	69	18	0.17	N	E
10	Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	7.30	33/30	6.5	630	404	390	48	13	27	24	86	BDL	82	19.2	8.16	38	24	1.8	1.4	1.2	1.8	2.8	79000	33000	44	12	0.15	N	D
11	Satluj at D/s east Bein	1381	7.3	30/20	1.0	660	429	300	60	12	78	20	192	BDL	156	40	13.6	44	36	1.6	0.16	0.40	6.4	10.0	4600	2100	92	8.6	BDL	N	E
12	Satluj at harike	1022	7.2	29/19	4.2	340	218	155	28	4.0	38	16	112	BDL	128	35	9.7	20	16	1.2	0.16	0.15	0.8	1.2	1700	940	35	4.1	BDL	N	D
13	Harike Lake D/S from canal	1382	7.4	29/20	6.9	280	170	129	20	2.4	56	10	80	BDL	112	30	8.7	16	14	1.0	0.14	0.13	0.5	1.0	580	250	19	1.8	BDL	S	C
14	D/S Harike	1297	7.3	30/20	6.8	290	174	144	22	2.0	36	08	84	BDL	108	29	8.7	16	12	1.1	0.12	0.12	0.8	1.4	460	210	25	2.7	BDL	S	B
15	U/S Hussainiwala H/W Ferozepur	1691	7.58	32/28	7.4	284	184	168	8	BDL	14	6	50	BDL	48	11.2	4.8	20	18	0.8	0.6	0.8	1.0	1.6	910	400	20	7	BDL	S	C
16	D/S Hussainiwala H/W Ferozepur	1692	7.34	31/29	7.2	302	192	176	12	BDL	18	8	64	BDL	60	14.4	5.76	22	20	1.0	0.8	1.0	1.2	2.0	920	400	24	9	BDL	S	C

Note. 1. BDL means Below Method Detection Limit

2. WQI means Water Quality Index (S means Satisfactory, N means not Satisfactory).

3. DBU means Designated Best Use (Class-A,B,C,D & E)

4. αBHC, βBHC, γBHC, 4,4' DDT, Endosulfan I, Endosulfan II, Dieldrin, Aldrin, Methyl Parathion, Delta HCH, Heptachlor, 4,4' DDD, 4,4' DDE and Endrin were BDL in all the samples.

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S.N.	Point of Sample Collection	Code	pH	Temp. (Air/Water)/°C	DO mg/l	Cond µs/Cm	TDS mg/l	FDS mg/l	COD mg/l	BOD mg/l	TSS mg/l	Turb NTU	T.Aln mg/l	P.Aln mg/l	TH mg/l	Ca mg/l	Mg mg/l	Cl mg/l	SO ₄ Mg/l	NO ₃ -N mg/l	F mg/l	PO ₄ as P mg/l	AmnN mg/l	TKN mg/l	T.Coli MPN/100ml	FColi MPN/100ml	Na mg/l	K mg/l	B mg/l	WQI	DBU
17	Beas at Talwara H/W	1693	7.3	29/18	7.8	164	98	83	10	BDL	20	08	48	BDL	52	11	5.8	12	10	0.8	BDL	BDL	BDL	BDL	70	46	15	1.2	BDL	S	B
18	Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	7.4	29/20	7.2	236	142	116	16	1.0	56	12	64	BDL	84	21	7.7	14	14	1.0	BDL	BDL	BDL	BDL	110	70	19	1.5	BDL	S	B
19	Beas 1 Km D/S effluent discharge point at Mukerian	1294	7.3	30/21	6.4	262	157	133	18	1.2	36	10	72	BDL	108	29	8.7	20	16	1.4	BDL	0.16	0.4	0.6	350	170	22	2.9	BDL	S	B
20	U/S Pathankot	1694	7.1	30/21	7.3	198	119	98	10	BDL	24	06	48	BDL	76	19	6.8	12	12	1.2	BDL	BDL	BDL	BDL	110	70	20	2.4	BDL	S	B
21	D/S Pathankot	1695	7.3	30/22	7.4	228	137	115	12	BDL	28	08	60	BDL	88	22	7.7	10	14	1.1	0.16	BDL	BDL	BDL	170	94	25	2.7	BDL	S	B
22	Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	7.5	29/21	7.3	248	149	127	16	1.4	30	06	76	BDL	100	26	8.7	14	10	1.2	BDL	0.12	BDL	BDL	280	140	29	2.4	BDL	S	B
23	U/s Goindwal	1696	7.0	29/21	7.6	252	151	125	12	1.3	38	09	72	BDL	104	27	8.7	10	14	1.2	0.14	0.14	BDL	BDL	220	110	28	2.3	BDL	S	B
24	D/s Goindwal	1012	7.1	30/21	7.4	260	156	128	16	1.3	52	12	64	BDL	116	30	9.7	16	12	1.3	0.10	0.10	BDL	BDL	220	110	31	2.5	BDL	S	B
25	Beas at Harike	1697	7.0	30/22	7.5	250	150	126	18	1.6	28	06	76	BDL	124	32	10.6	14	16	1.2	0.12	0.12	BDL	BDL	220	110	21	2.0	BDL	S	B
26	Ravi at U/s of Madhopur H/W	1097	7.2	28/18	7.8	168	108	92	14	1.0	22	06	56	BDL	64	13	7.7	12	12	0.8	BDL	BDL	BDL	BDL	70	46	08	1.0	BDL	S	B
27	Ghaggar at Mubarikpur Rest House	1023	8.0	31/27	6.3	462	287	252	20	4	536	800	213	BDL	211	48	22	16	28	0.4	0.21	0.52	1.1	1.6	22000	2700	13	4	BDL	N	D
28	Ghaggar at Bhankarpur	1295	7.5	37/32	4.0	730	442	346	45	8	348	500	317	BDL	265	62	27	32	41	1.1	0.24	1.69	2.2	3.6	28000	3200	44	12	BDL	N	D
29	Ghaggar at Chattbir	1698	7.5	36/31	4.4	622	386	328	24	5.5	71	60	271	BDL	248	61	23	21	33	0.6	0.22	0.68	1.0	1.5	21000	2200	41	9	BDL	N	D
30	U/s Jharmal Nadi	1702	7.5	36/31	2.8	685	422	350	29	6	179	360	303	BDL	228	48	26	41	36	0.5	0.30	0.6	1.1	1.7	15000	1400	46	9	0.15	N	E
31	D/s Jharmal Nadi	1701	7.6	30/28	1.6	750	480	379	36	7	142	190	307	BDL	252	57	27	51	45	1.3	0.34	0.72	2.3	3.2	24000	2700	64	10	0.18	N	E
32	U/s Dhakanshu Nallah	1699	7.8	32/29	3.2	777	490	406	22	5	33	45	305	BDL	235	59	21	61	30	0.7	0.35	0.61	2.7	3.9	13000	1500	79	13	0.19	N	E
33	D/s Dhakanshu Nallah	1700	7.7	33/30	3.0	786	508	413	26	5.8	47	70	317	BDL	261	60	27	65	36	0.8	0.39	0.64	2.7	4.0	17000	2000	76	13	0.20	N	E
34	Ghaggar at Rattanheri	1473	7.7	32/26	1.0	1004	633	496	190	38	39	120	349	BDL	283	96	10	81	52	1.3	0.34	1.2	7.5	11.6	14000	2100	78	55	BDL	N	E
35	Ghaggar at Khanauri	1024	8.0	34/27	1.2	749	477	386	95	15	14	30	257	BDL	233	62	19	59	46	1.0	0.53	1.0	5.6	8.6	21000	2600	79	19	BDL	N	E
36	Ghaggar at Moonak	1703	7.9	36/27	1.3	704	437	367	78	12	32	100	235	BDL	212	63	13	52	40	1.1	0.34	0.9	5.2	8.4	15000	1700	75	16	0.15	N	E
37	U/s Sardulgarh	1705	7.7	34/28	1.8	797	499	409	109	17	18	80	267	BDL	246	68	19	62	35	0.9	0.38	1.1	6.8	9.2	21000	2200	77	34	0.22	N	E
38	D/s Sardulgarh	1704	8.0	36/32	1.7	809	511	415	112	18	26	120	269	BDL	252	72	18	61	38	1.0	0.39	1.2	7.0	9.4	24000	3300	76	32	0.25	N	E

Note. 1. BDL means Below Method Detection Limit

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4. αBHC, βBHC, γBHC, 4,4' DDT, Endosulfan I, Endosulfan II, Dieldrin, Aldrin, Methyl Parathion, Delta HCH, Heptachlor, 4,4' DDD, 4,4' DDE and Endrin were BDL in all the samples.

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S.N.	Point of Sample Collection	Code	Ni mg/l	Cu mg/l	Zn mg/l	Fe mg/l	T.cr mg/l	Pb mg/l	As mg/l	Hg mg/l	Cd mg/l
1	River Satluj, U/S Nangal (Nanagal H/W)	1017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2	River Satluj D/S NFL	1380	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3	100m D/s PACL Nangal	2915	BDL	BDL	BDL	0.020	BDL	BDL	BDL	BDL	BDL
4	River Satluj D/s Nangal	1018	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5	River Satluj at Kiratpur Sahib	1824	BDL	BDL	BDL	0.015	BDL	BDL	BDL	BDL	BDL
6	Ropar Head-Works	1019	BDL	BDL	BDL	0.050	BDL	BDL	BDL	BDL	BDL
7	River Satluj D/S of Rishab- Paper Mills	1293	BDL	BDL	BDL	0.088	BDL	BDL	BDL	BDL	BDL
8	River Satluj U/S Buddha Nallah	1690	BDL	BDL	0.10	0.098	BDL	BDL	BDL	BDL	BDL
9	Satluj at 100 mts D/s Budha Nallah confluence Ludhiana	1020	BDL	BDL	0.28	0.42	BDL	BDL	BDL	BDL	BDL
10	Satluj at Boat Bridge, Dharamkot Nakodar Road (Sutlej D/s BNL)	1021	BDL	BDL	BDL	0.28	BDL	BDL	BDL	BDL	BDL
11	U/S Hussainiwala H/W Ferozepur	1691	BDL	BDL	BDL	0.012	BDL	BDL	BDL	BDL	BDL
12	D/S Hussainiwala H/W Ferozepur	1692	BDL	BDL	BDL	0.010	BDL	BDL	BDL	BDL	BDL
13	Beas at Talwara H/W	1693	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14	Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	BDL	BDL	BDL	0.13	BDL	BDL	BDL	BDL	BDL
15	Beas 1 Km D/S effluent discharge point at Mukerian	1294	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16	U/S Pathankot	1694	BDL	BDL	BDL	0.12	BDL	BDL	BDL	BDL	BDL
17	D/S Pathankot	1695	BDL	BDL	BDL	0.15	BDL	BDL	BDL	BDL	BDL
18	Beas at G.T.Road, uBDLer Bridge Near Kapurthalla (Pb)	1011	BDL	BDL	BDL	0.39	BDL	BDL	BDL	BDL	BDL
19	U/s Goindwal	1012	BDL	BDL	BDL	0.12	BDL	BDL	BDL	BDL	BDL
20	D/s Goindwal	1696	BDL	BDL	BDL	0.20	BDL	BDL	BDL	BDL	BDL
21	Beas at Harike	1697	BDL	BDL	BDL	0.18	BDL	BDL	BDL	BDL	BDL
22	Harike Lake D/S from canal	1382	BDL	BDL	BDL	0.19	BDL	BDL	BDL	BDL	BDL
23	D/S Harike	1297	BDL	BDL	BDL	0.22	BDL	BDL	BDL	BDL	BDL
24	Satluj at harike	1022	BDL	BDL	BDL	0.19	BDL	BDL	BDL	BDL	BDL
25	Satluj at D/s east Bein	1381	BDL	BDL	0.13	0.74	BDL	BDL	BDL	BDL	BDL
26	Ravi at U/s of Madhopur H/W	1097	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
27	Ghaggar at Mubarikpur Rest House	1023	BDL	BDL	0.18	1.12	BDL	BDL	BDL	BDL	BDL
28	Ghaggar at Bhankarpur	1295	BDL	BDL	0.22	1.37	BDL	BDL	BDL	BDL	BDL
29	Ghaggar at Chattbir	1698	BDL	BDL	0.23	1.04	BDL	BDL	BDL	BDL	BDL
30	U/s Jharmal Nadi	1702	BDL	BDL	0.18	0.95	BDL	BDL	BDL	BDL	BDL
31	D/s Jharmal Nadi	1701	BDL	BDL	0.31	1.29	BDL	BDL	BDL	BDL	BDL
32	U/s Dhakanshu Nallah	1699	BDL	BDL	0.19	0.79	BDL	BDL	BDL	BDL	BDL
33	D/s Dhakanshu Nallah	1700	BDL	BDL	0.29	0.33	BDL	BDL	BDL	BDL	BDL
34	Ghaggar at Rattanheri	1473	BDL	BDL	0.22	0.64	BDL	BDL	BDL	BDL	BDL
35	Ghaggar at Khanauri	1024	BDL	BDL	0.31	0.71	BDL	BDL	BDL	BDL	BDL
36	Ghaggar at Moonak	1703	BDL	BDL	0.34	0.88	BDL	BDL	BDL	BDL	BDL
37	U/s Sardulgarh	1705	BDL	BDL	0.13	0.70	BDL	BDL	BDL	BDL	BDL
38	D/s Sardulgarh	1704	BDL	BDL	0.15	0.75	BDL	BDL	BDL	BDL	BDL

Note: BDL means Below Method Detection limit.