

Analysis results of Surface water monitoring under NWMP for the month of July, 2018

S. N.	Point of Sample Collection	Code	pH	Temp. (Air/Water) ⁰ C	DO mg/l	Cond μ s/Cm	TDS 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	Amn N mg/l	TKN mg/l	T.Coli MPN/100ml	F.Coli MPN/100ml	Na mg/l	K mg/l	Boro n mg/l	WQI	Quality of water as per DBU criteria
1	River Satluj at U/S Nangal	1017	7.81	32/18	8.0	259	169	153	<5	<1	11	10	45	BDL	70	22	3.6	33	22	0.6	0.4	0.6	0.4	2.0	200	37	26	10	0.25	S	B
2	River Satluj at D/S NFL	1380	8.17	33/19	7.6	320	214	189	<5	<1	18	21	60	BDL	90	24	7.2	53	31	1.8	0.6	1.0	0.8	3.2	270	78	48	18	0.27	S	B
3	River Sutej at 100m D/s PACL Nangal	2915	7.62	33/19	7.8	328	238	221	5.8	<1	18	19	60	BDL	70	20.8	4.32	36	28	1.6	0.6	1.2	1.0	3.0	330	78	30	12	0.25	S	B
4	River Satluj at D/s Nangal	1018	7.84	32/18	7.8	283	184	172	<5	<1	13	15	50	BDL	75	22	4.8	35	26	0.8	0.8	0.6	0.6	2.4	250	45	29	15	0.30	S	B
5	River Satluj at Kiratpur Sahib	1814	7.79	29/23	8.4	251	153	141	6.9	<1	19	23	60	BDL	70	18	6.0	30	20	1.0	0.4	0.8	0.4	2.0	780	200	30	17	0.33	S	C
6	Ropar Head-Works	1019	7.78	29/21	8.8	267	163	150	<5	<1	14	10	55	BDL	60	16	4.8	39	28	0.8	0.2	0.8	0.8	2.6	830	180	31	16	0.30	S	C
7	River Satluj D/S of Rishab-Paper Mills	1293	7.68	29/22	8.7	287	181	170	<5	<1	18	16	60	BDL	75	22	4.8	38	20	0.8	0.6	0.4	0.4	1.8	920	200	31	9	0.40	S	C
8	River Satluj U/S Buddha Nallah	1690	7.54	32/27	7.1	328	208	190	8.16	<1	24	18	58	BDL	78	18.4	7.7	36	30	0.8	0.4	0.8	1.0	2.2	2000	450	36	18	0.27	S	C
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	7.32	33/29	4.6	780	496	428	88	14	30	24	75	BDL	116	27.2	11.5	115	42	4.0	0.4	2.4	8	1.2	3,10,000	1,10,000	90	22	0.34	N	D
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	7.46	38/24	7.0	348	216	198	12	<1	21	18	60	BDL	74	17.6	7.2	40	28	0.8	0.2	0.8	1.8	4.0	61000	18000	74	18	0.24	N	D
11	River Satluj at D/s East Bein	1381	7.6	36/32	4.2	395	268	210	28	4.8	110	26	130	BDL	115	32	9.0	52	38	1.1	0.18	BDL	4.4	8.2	22000	14000	33	3.7	BDL	N	D
12	River Satluj at Harike	1022	7.7	36/34	5.8	353	219	170	24	4	188	26	126	BDL	120	30	11	18	26	1.0	0.14	0.18	0.8	1.4	14000	11000	26	2.5	BDL	N	D
13	Harike Lake D/S from canal	1382	7.8	36/34	7.1	271	180	153	14	2	186	48	91	BDL	100	32	5	16	20	1.1	0.16	0.15	0.60	1.0	2800	1300	17	3.0	BDL	S	C
14	D/S Harike lake	1297	7.8	36/32	7.3	268	188	144	14	1.6	202	40	104	BDL	90	24	7	18	22	1.0	0.14	0.14	0.6	1.0	2200	1300	16	20	0.20	S	C
15	U/S Hussainiwala H/W Ferozepur	1691	7.82	39/29	7.4	338	199	187	8.64	<1	18	18	60	BDL	68	17.6	5.8	28	18	0.6	0.2	0.6	1.0	1.8	910	200	28	9	0.14	S	C
16	D/S Hussainiwala H/W Ferozepur	1692	7.76	39/30	7.2	352	210	198	8.96	<1	19	18	64	BDL	72	15.2	8.16	30	20	0.8	0.4	0.8	1.2	2.0	930	370	28	8.8	0.19	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)

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S.N.	Point of Sample Collection	Code	pH	Temp(Air/Water) ^o C	DO mg/l	Cond μ s/Cm	TDS mg/l	FDS mg/l	COD mg/l	BOD mg/l	TSS mg/l	Turb NTU	T.Al kn mg/l	P.Alkn 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	W Q I	Water quality as per DBU
17	River Beas at Talwara H/W	1693	7.3	32/26	7.5	219	147	115	12	1.0	138	28	89	BDL	104	37	3	12	8	0.4	BDL	BDL	BDL	BDL	110	79	12	2.7	BDL	S	B
18	River Beas at U/S Pathankot	1694	7.8	34/28	7.2	229	182	130	14	1.4	218	52	98	BDL	144	41	10	22	16	1.2	BDL	0.14	BDL	BDL	350	220	9	3.0	BDL	S	B
19	River Beas at D/S Pathankot	1695	7.4	34/30	6.9	269	194	128	18	1.6	222	44	102	BDL	104	28	8	26	18	1.4	BDL	0.13	BDL	BDL	460	330	8	3.2	BDL	S	B
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	7.8	34/30	7.6	356	231	195	12	1.2	144	30	115	BDL	140	34	13	14	10	1.0	BDL	0.12	BDL	BDL	210	110	23	3.4	BDL	S	B
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	7.8	34/32	7.0	231	146	122	20	1.8	298	54	68	BDL	93	26	7	12	18	1.6	BDL	0.16	0.5	1.0	790	490	9	3.0	BDL	S	C
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	7.6	39/33	7.1	287	189	156	16	1.4	286	62	101	BDL	90	29	4	12	14	1.4	0.12	0.15	BDL	BDL	790	490	20	2.4	BDL	S	C
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	7.5	38/29	7.2	245	169	135	14	1.4	278	58	104	BDL	118	30	10	16	12	1.2	0.10	0.14	BDL	BDL	280	220	13	3.9	BDL	S	B
24	River Beas at U/s Goindwal	1696	7.7	41/30	7.6	232	158	132	14	1.2	202	50	81	BDL	116	31	9	14	16	1.2	0.10	0.12	BDL	BDL	280	220	12	2.1	0.11	S	B
25	River Beas at D/s Goindwal	1012	7.9	39/32	7.4	282	180	146	16	1.2	208	54	102	BDL	96	28	6	16	20	1.4	0.12	0.13	BDL	BDL	350	280	15	2.5	0.16	S	B
26	Beas at Harike	1697	7.9	35/32	7.8	252	168	120	14	1.2	178	58	119	BDL	80	26	4	16	16	1.0	0.10	0.16	BDL	BDL	350	280	14	2.9	0.13	S	B
27	Ravi at U/s of Madhopur H/W	1097	7.7	32/20	8.2	162	122	92	10	BDL	78	18	77	BDL	102	32	6	12	6	0.6	BDL	BDL	BDL	BDL	79	49	4	3.2	BDL	S	B
28	Ghaggar at Mubarikpur Rest House	1023	7.7	35/27	4.8	561	337	290	60	13	1860	600	217	BDL	232	64	17	24	28	0.8	0.54	0.42	2.1	2.8	17000	2400	39	5	0.24	N	D
29	Ghaggar at Bhankarpur	1295	7.0	35/26	3.0	627	376	301	81	18	1058	550	207	BDL	259	96	5	42	42	1.0	0.50	0.49	10.6	14.8	22000	3100	55	11	0.45	N	E
30	Ghaggar at Chattbir	1698	7.2	34/26	2.3	611	366	288	98	22	112	240	99	BDL	262	93	7	48	45	1.1	0.40	0.56	11.8	15.2	21000	2700	63	12	0.41	N	E
31	Ghaggar at U/s Jharmal Nadi	1702	7.4	34/26	3.6	553	333	290	62	14	128	450	64	BDL	212	56	17	42	38	0.9	0.20	0.44	3.3	5.6	14000	1700	55	10	0.19	N	E
32	Ghaggar at D/s Jharmal Nadi	1701	7.3	33/25	1.2	1013	618	476	145	37	140	500	81	BDL	228	80	7	166	74	1.4	0.55	0.80	11.5	15.1	21000	3200	118	52	0.25	N	E
33	Ghaggar at U/s Dhakanshu Nallah	1699	7.2	32/24	2.9	530	316	262	50	11	134	650	43	BDL	139	42	8	73	38	1.1	0.20	0.43	4.6	7.4	12000	1400	74	12	0.27	N	E
34	Ghaggar at D/s Dhakanshu Nallah	1700	7.4	32/25	2.4	605	363	290	56	12	138	700	48	BDL	143	49	5	75	41	1.1	0.25	0.52	6.3	8.8	15000	1700	81	13	0.34	N	E
35	Ghaggar at Rattanheri	1473	7.3	32/26	2.6	796	480	379	122	32	146	550	290	BDL	162	42	14	63	43	1.3	0.45	0.68	8.0	12.5	24000	3300	82	18	0.29	N	E
36	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	7.4	32/27	2.2	1323	794	634	125	33	172	400	501	BDL	282	89	14	98	64	1.8	0.47	0.91	10.6	14.5	28000	3900	103	53	0.31	N	E
37	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	7.4	31/26	1.6	1410	848	720	206	54	210	450	526	BDL	317	81	28	112	78	1.6	0.49	0.82	6.9	8.8	35000	5800	113	50	0.29	N	E
38	Ghaggar at Khanauri	1024	7.8	32/25	2.2	1168	701	566	127	35	282	380	397	BDL	284	69	27	68	58	1.2	0.55	0.66	7.4	10.2	28000	3800	160	23	0.30	N	E
39	Ghaggar at Moonak	1703	7.5	32/25	2.4	1024	614	488	88	19	240	550	408	BDL	309	97	16	52	60	0.96	0.53	0.52	5.9	8.8	21000	2600	119	24	0.25	N	E
40	Ghaggar at U/s Sardulgarh	1705	7.3	37/29	4.8	585	363	298	36	7	152	450	217	BDL	138	39	8	24	32	0.85	0.41	0.44	6.8	9.2	9400	1300	77	26	0.24	N	D
41	Ghaggar at D/s Sardulgarh	1704	7.5	38/29	4.6	745	447	357	48	9	190	370	279	BDL	154	50	7	32	48	0.87	0.42	0.46	6.9	9.1	11000	1400	87	27	0.28	N	D

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