

Analysis results of Surface water monitoring under NWMP for the month of January, 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 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 Satluj at U/S Nangal	1017	3/1/19	SW 307	ZO Lab Ldh	7.1	8.9	<1	220	140	33	BDL	0.269	0.08	B	S
2	River Satluj at D/S NFL	1380	3/1/19	SW 309	ZO Lab Ldh	7.01	8.5	<1	263	210	49	BDL	0.369	0.10	B	S
3	River Sutej at 100m D/s PACL Nangal	2915	3/1/19	SW 310	ZO Lab Ldh	7.04	8.2	<1	258	220	43	BDL	0.468	0.15	B	S
4	River Satluj at D/s Nangal	1018	3/1/19	SW 308	ZO Lab Ldh	6.93	8.6	<1	241	150	46	BDL	0.28	0.19	B	S
5	River Satluj at Kiratpur Sahib	1814	8/1/19	SW 312	ZO Lab Ldh	7.33	8.2	<1	271	1100	450	0.012	0.670	0.23	C	S
6	Ropar Head-Works	1019	8/1/19	SW 314	ZO Lab Ldh	7.28	8.2	<1	268	1200	370	0.013	0.499	0.10	C	S
7	River Satluj D/S of Rishab-Paper Mills	1293	8/1/19	SW 315	ZO Lab Ldh	7.15	8.1	1.1	448	1400	450	0.014	0.959	0.31	C	S
8	River Satluj U/S Buddha Nallah	1690	10/1/19	SW 318	ZO Lab Ldh	7.25	7.7	1.2	442	3300	1400	0.018	1.11	0.19	C	S
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	10/1/19	SW 319	ZO Lab Ldh	7.06	2.2	48	935	9,40,000	3,20,000	0.006	3.38	0.25	E	N
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12/1/19	SW 333	ZO Lab Ldh	6.94	4.4	14	644	1,70,000	78,000	BDL	2.98	0.24	D	N
11	River Satluj at D/s East Bein	1381	21/1/19	SW 229	ZO Lab Jal.	7.4	1.0	14	494	35000	22000	0.147	1.66	0.14	E	N
12	River Satluj at Harike	1022	21/1/19	SW 230	ZO Lab Jal.	7.6	5.2	2.8	408	11000	7000	0.110	1.365	0.17	D	N
13	Harike Lake D/S from canal	1382	21/1/19	SW 231	ZO Lab Jal.	7.8	7.8	1.7	226	3500	1700	0.084	0.181	0.19	C	S
14	D/S Harike lake	1297	21/1/19	SW 232	ZO Lab Jal.	7.9	8.0	1.6	240	4100	2700	0.072	0.362	0.12	C	S
15	U/S Hussainiwala H/W Ferozepur	1691	12/1/19	SW 334	ZO Lab Ldh	8.14	8.1	<1	203	2400	930	0.034	0.284	0.11	C	S
16	D/S Hussainiwala H/W Ferozepur	1692	12/1/19	SW 335	ZO Lab Ldh	8.16	8.2	<1	205	2100	920	0.048	0.305	0.12	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

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

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	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 Satluj at U/S Nangal	1017	3/1/19	SW 307	ZO Lab Ldh	<5	6.8	6	139	124	10	9	110	34.4	5.8	91	BDL	0.6	0.40	0.9	0.05	0.19	6.5	1.8
2	River Satluj at D/S NFL	1380	3/1/19	SW 309	ZO Lab Ldh	7.2	8.4	9	166	146	13	12	120	36	7.9	97	BDL	1.1	2.33	2.1	0.08	0.20	9.4	2.3
3	River Sutej at 100m D/s PACL Nangal	2915	3/1/19	SW 310	ZO Lab Ldh	6.4	8.0	8	161	140	12	11	124	36.8	7.8	98	BDL	1.0	2.12	1.8	0.1	0.22	12	2.5
4	River Satluj at D/s Nangal	1018	3/1/19	SW 308	ZO Lab Ldh	<5	5.3	10	148	129	12	10	114	35.2	6.3	92	BDL	0.8	0.82	1.4	0.06	0.21	6.9	2.2
5	River Satluj at Kiratpur Sahib	1814	8/1/19	SW 312	ZO Lab Ldh	7.2	8.6	14	174	151	14	12	136	41.6	7.8	108	BDL	1.2	0.51	2.4	0.16	0.24	18	2.6
6	Ropar Head-Works	1019	8/1/19	SW 314	ZO Lab Ldh	8.0	9.3	10	167	145	13	12	128	40	6.8	102	BDL	1.3	0.48	2.1	0.11	0.23	13	2.5
7	River Satluj D/S of Rishab- Paper Mills	1293	8/1/19	SW 315	ZO Lab Ldh	12	10	16	271	235	30	15	198	59.2	12	154	BDL	1.4	0.59	2.6	0.13	0.24	31	7.5
8	River Satluj U/S Buddha Nallah	1690	10/1/19	SW 318	ZO Lab Ldh	14	14	18	269	230	34	19	156	46.4	9.7	152	BDL	1.8	0.92	3.0	0.26	0.23	32	13
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	10/1/19	SW 319	ZO Lab Ldh	164	77	76	608	518	64	38	246	78.4	12.2	372	BDL	12.6	1.21	15	1.3	0.39	122	31
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12/1/19	SW 333	ZO Lab Ldh	60	30	32	419	356	42	26	196	62.4	9.7	210	BDL	6.0	0.69	8.8	0.54	0.26	96	26
11	River Satluj at D/s East Bein	1381	21/1/19	SW 229	ZO Lab Jal.	48	72	32	336	235	48	44	144	45	8	190	BDL	9.8	1.5	16.0	0.50	0.22	46	8.7
12	River Satluj at Harike	1022	21/1/19	SW 230	ZO Lab Jal.	22	36	28	253	198	34	40	120	37	6	150	BDL	4.4	1.1	7.8	0.32	0.13	34	6.4
13	Harike Lake D/S from canal	1382	21/1/19	SW 231	ZO Lab Jal.	15	32	24	150	129	22	20	92	30	4	109	BDL	2.4	0.7	3.8	0.20	0.11	4	2.6
14	D/S Harike lake	1297	21/1/19	SW 232	ZO Lab Jal.	17	38	26	166	136	20	18	118	35	7	118	BDL	1.6	0.9	3.4	0.22	0.14	9	3.3
15	U/S Hussainiwala H/W Ferozepur	1691	12/1/19	SW 334	ZO Lab Ldh	6.4	4.6	8	128	116	6.0	7	90	28	4.9	98	BDL	0.5	0.21	0.8	0.05	0.13	6.2	2.8
16	D/S Hussainiwala H/W Ferozepur	1692	12/1/19	SW 335	ZO Lab Ldh	6.4	4.8	8	130	117	7.0	7	94	29.2	5.1	103	BDL	0.6	0.24	1.0	0.05	0.13	6.8	2.9

**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 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
17	River Beas at Talwara H/W	1693	10/1/19	SW 203	ZO Lab Jal.	7.6	9.2	1.0	184	94	43	BDL	0.291	0.10	B	S
18	River Beas at U/S Pathankot	1694	10/1/19	SW 205	ZO Lab Jal.	8.0	8.8	1.3	224	280	130	0.025	0.398	0.09	B	S
19	River Beas at D/S Pathankot	1695	10/1/19	SW 206	ZO Lab Jal.	8.3	8.6	1.7	210	490	330	0.070	0.084	0.11	B	S
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	10/1/19	SW 204	ZO Lab Jal.	7.9	9.1	1.3	246	170	110	0.023	0.443	0.15	B	S
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	10/1/19	SW 207	ZO Lab Jal.	7.9	8.4	2.0	261	920	540	0.036	0.196	0.14	C	S
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	9/1/19	SW 199	ZO Lab Jal.	7.6	8.7	1.4	310	700	490	0.018	0.521	0.12	C	S
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	21/1/19	SW 222	ZO Lab Jal.	7.8	9.4	1.6	210	940	630	0.025	0.263	0.17	C	S
24	River Beas at U/s Goindwal	1696	21/1/19	SW 226	ZO Lab Jal.	7.9	9.5	1.3	214	580	250	0.027	0.224	0.09	C	S
25	River Beas at D/s Goindwal	1012	21/1/19	SW 227	ZO Lab Jal.	8.0	8.6	1.6	220	630	330	0.040	0.266	0.11	C	S
26	Beas at Harike	1697	21/1/19	SW 228	ZO Lab Jal.	7.7	8.0	1.3	218	490	330	0.021	0.227	0.08	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
17	River Beas at Talwara H/W	1693	10/1/19	SW 203	ZO Lab Jal.	10	8.9	10	125	105	14	12	80	27	3	90	BDL	BDL	BDL	BDL	BDL	BDL	6	2.5
18	River Beas at U/S Pathankot	1694	10/1/19	SW 205	ZO Lab Jal.	12	7.4	12	155	138	16	14	98	27	7	110	BDL	0.5	0.4	0.8	0.10	0.12	9	2.0
19	River Beas at D/S Pathankot	1695	10/1/19	SW 206	ZO Lab Jal.	16	12.4	14	150	127	18	16	110	31	7	118	BDL	0.7	0.6	1.2	0.12	0.13	2	2.5
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	10/1/19	SW 204	ZO Lab Jal.	12	6.2	10	160	140	16	12	94	27	7	118	BDL	0.5	BDL	1.0	0.08	BDL	10	2.8
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	10/1/19	SW 207	ZO Lab Jal.	18	16.8	14	164	130	18	12	120	39	6	120	BDL	0.8	1.0	1.4	0.14	0.15	5	3.0
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	9/1/19	SW 199	ZO Lab Jal.	16	20	16	205	168	18	16	136	43	7	150	BDL	0.7	1.1	1.5	0.15	0.13	14	4.6
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	21/1/19	SW 222	ZO Lab Jal.	19	18	14	148	126	16	14	97	26	8	118	BDL	0.7	0.8	1.4	0.14	0.16	6	2.7
24	River Beas at U/s Goindwal	1696	21/1/19	SW 226	ZO Lab Jal.	14	16	18	145	128	18	12	94	31	4	118	BDL	0.6	0.7	1.2	0.13	0.13	5	2.7
25	River Beas at D/s Goindwal	1012	21/1/19	SW 227	ZO Lab Jal.	16	24	20	150	130	16	18	96	30	5	109	BDL	0.8	1.0	1.4	0.15	0.12	6	2.8
26	Beas at Harike	1697	21/1/19	SW 228	ZO Lab Jal.	14	30	28	146	122	18	14	91	30	4	113	BDL	0.7	0.8	1.3	0.12	0.15	5	2.8

- 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

Analysis results of Surface water monitoring under NWMP for the month of January, 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 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
27	Ravi at U/s of Madhopur H/W	1097	10/1/19	SW 202	ZO Lab Jal.	7.9	9.0	BDL	171	110	49	BDL	0.09	0.10	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
27	Ravi at U/s of Madhopur H/W	1097	10/1/19	SW 202	ZO Lab Jal.	8	6.4	BDL	120	110	12	10	82	28	3	76	BDL	BDL	BDL	BDL	BDL	BDL	2	2.4

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

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 us/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	8/1/19	SW 1193	H/o Lab Patiala	8.0	5.1	13	630	28000	4300	0.390	0.922	0.14	D	N
2	Ghaggar at Bhankarpur	1295	8/1/19	SW 1194	H/o Lab Patiala	7.8	4.3	36	898	35000	8400	0.610	1.45	0.17	D	N
3	Ghaggar at Chattbir	1698	8/1/19	SW 1195	H/o Lab Patiala	7.7	3.1	20	792	28000	7000	0.286	1.636	0.15	E	N
4	Ghaggar at U/s Jharmal Nadi	1702	8/1/19	SW 1196	H/o Lab Patiala	7.8	3.5	14	795	24000	3400	0.350	1.866	0.12	E	N
5	Ghaggar at D/s Jharmal Nadi	1701	8/1/19	SW 1197	H/o Lab Patiala	7.9	2.6	16	920	24000	4900	0.527	1.961	0.18	E	N
6	Ghaggar at U/s Dhakanshu Nallah	1699	8/1/19	SW 1199	H/o Lab Patiala	7.8	3.8	14	895	22000	2400	0.375	2.061	0.14	E	N
7	Ghaggar at D/s Dhakanshu Nallah	1700	8/1/19	SW 1200	H/o Lab Patiala	7.9	2.8	17	980	28000	3900	0.540	2.187	0.23	E	N
8	Ghaggar at Rattanheri	1473	16/1/19	SW 1221	H/o Lab Patiala	8.0	3.2	23	995	28000	5800	0.740	2.918	0.19	E	N
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	16/1/19	SW 1224	H/o Lab Patiala	8.0	4.2	18	990	22000	4000	0.710	2.699	0.11	D	N
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	16/1/19	SW 1226	H/o Lab Patiala	8.0	2.7	33	1425	28000	6300	0.750	4.293	0.19	E	N
11	Ghaggar at Khanauri	1024	16/1/19	SW 1222	H/o Lab Patiala	8.1	3.6	41	1125	28000	7000	1.02	2.899	0.23	E	N
12	Ghaggar at Moonak	1703	16/1/19	SW 1223	H/o Lab Patiala	8.0	4.2	35	1030	24000	4100	0.720	2.997	0.22	D	N
13	Ghaggar at U/s Sardulgarh	1705	10/1/19	SW 1202	H/o Lab Patiala	7.5	BDL	60	1170	24000	4100	0.324	2.444	0.18	E	N
14	Ghaggar at D/s Sardulgarh	1704	10/1/19	SW 1203	H/o Lab Patiala	7.6	BDL	64	1285	35000	8400	0.465	2.258	0.22	E	N

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1	Ghaggar at Mubarikpur Rest House	1023	8/1/19	SW 1193	H/o Lab Patiala	68	772	996	410	349	34	15	305	97	15	257	BDL	7.8	0.69	10.9	0.38	0.15	37	5
2	Ghaggar at Bhankarpur	1295	8/1/19	SW 1194	H/o Lab Patiala	180	400	802	584	496	77	28	326	97	30	431	BDL	17.40	0.94	24.3	2.39	0.17	64	17
3	Ghaggar at Chattbir	1698	8/1/19	SW 1195	H/o Lab Patiala	112	750	720	513	436	62	21	271	97	7	381	BDL	9.52	0.98	13.3	1.22	0.16	62	12
4	Ghaggar at U/s Jharmal Nadi	1702	8/1/19	SW 1196	H/o Lab Patiala	68	190	194	517	439	81	25	306	99	14	339	BDL	10.0	0.79	14.0	0.94	0.27	75	11
5	Ghaggar at D/s Jharmal Nadi	1701	8/1/19	SW 1197	H/o Lab Patiala	77	270	195	598	508	104	27	349	114	15	377	BDL	11.7	0.85	16.4	1.21	0.30	84	15
6	Ghaggar at U/s Dhakanshu Nallah	1699	8/1/19	SW 1199	H/o Lab Patiala	70	50	62	582	495	106	22	265	89	10	406	BDL	10.7	0.72	15.0	1.0	0.21	77	18
7	Ghaggar at D/s Dhakanshu Nallah	1700	8/1/19	SW 1200	H/o Lab Patiala	82	70	95	637	541	124	29	305	101	13	418	BDL	12.0	0.86	16.8	1.80	0.24	88	16
8	Ghaggar at Rattanheri	1473	16/1/19	SW 1221	H/o Lab Patiala	112	90	121	647	540	127	30	261	69	21	428	BDL	14.8	0.82	20.7	1.98	0.29	108	21
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	16/1/19	SW 1224	H/o Lab Patiala	95	70	72	644	547	125	27	261	61	26	443	BDL	14.1	0.88	19.7	2.14	0.28	100	20
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	16/1/19	SW 1226	H/o Lab Patiala	175	70	79	926	787	191	36	389	100	34	538	BDL	15.0	0.91	21.1	3.04	0.30	195	25
11	Ghaggar at Khanauri	1024	16/1/19	SW 1222	H/o Lab Patiala	204	240	536	731	622	139	44	277	73	23	480	BDL	15.7	0.89	21.9	3.03	0.25	111	26
12	Ghaggar at Moonak	1703	16/1/19	SW 1223	H/o Lab Patiala	176	200	532	670	569	120	42	275	60	21	468	BDL	14.4	0.87	20.2	1.44	0.23	106	23
13	Ghaggar at U/s Sardulgarh	1705	10/1/19	SW 1202	H/o Lab Patiala	295	40	67	761	646	135	38	354	106	22	484	BDL	16.2	0.93	22.7	1.95	0.36	106	55
14	Ghaggar at D/s Sardulgarh	1704	10/1/19	SW 1203	H/o Lab Patiala	318	65	80	835	710	147	43	431	117	34	522	BDL	18.6	0.96	26.0	2.15	0.41	108	57

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1	Dhanula Drain falling into Lasara drain, Near village, Ghunas Punjab	2906	21/1/19	SW 1227	H.O. Lab Patiala	7.6	BDL	182	5190	350000	210000	0.125	12.32	0.31	E	N
2	Tallewal Drain along with Lohgarh – Jalwana Link road near Shri Krishna rice mill Punjab	2909	21/1/19	SW 1228	H.O. Lab Patiala	7.7	BDL	70	2069	46000	14000	1.33	3.663	0.28	E	N
3	Point Source B/N	2914	10/1/19	SW 320	Z.O. Lab, Ludhiana	6.96	BDL	160	1676	39,00000	17,00000	BDL	4.14	0.31	E	N
4	Kali Bein into Beas	2913	21/1/19	SW 233	Z.O. Lab Jalandhar	7.5	6.0	5.0	310	3500	1700	0.036	0.130	0.26	C	S
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	21/1/19	SW 234	Z.O. Lab Jalandhar	6.8	BDL	190	1800	280000	170000	BDL	3.524	0.15	E	N
7	Hundiara drain before entering Pakistan	2907	21/1/19	SW 235	Z.O. Lab Jalandhar	7.0	BDL	60	1180	140000	70000	BDL	6.050	0.11	E	N
8	Pathlawa Drain	2911	Sample was not collected													
9	Ranjit Sagar Reservoir	2912	10/1/19	SW 201	Z.O. Lab Jalandhar	7.8	8.9	BDL	173	70	33	BDL	0.102	0.13	B	S
10	Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab	2908	8/1/19	SW 1198	H.O. Lab Patiala	7.9	BDL	17	1070	35000	11000	0.216	3.200	0.21	E	N
11	Sagar Para Drain at village sagra dist.Patiala	4158	16/1/19	SW 1225	H.O. Lab Patiala	8.1	BDL	140	2090	38000	8200	0.441	4.98	0.25	E	N
12	Confluence point of sukhana Choe with River Ghaggar,vill.Mubarkpur	4162	8/1/19	SW 1201	H.O. Lab Patiala	7.5	BDL	84	985	350000	170000	0.530	1.56	0.25	E	N
13	Confluence point of Sarsa Nadi with river Satluj	4161	The confluence point of Sirsa Nadi with River Satluj was not approachable, hence sample was not collected.													

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 January 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	NO ₃ -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	21/1/19	SW 1227	H.O. Lab Patiala	726	470	924	3374	2868	1058	208	1010	250	93	857	BDL	5.0	1.32	7.0	2.59	0.95	900	300	
2	Tallewal Drain along with Lohgarh – Jalwana Link road near Shri Krishna rice mill Punjab	2909	21/1/19	SW 1228	H.O. Lab Patiala	364	140	166	1345	1143	284	118	360	85	36	729	BDL	44.8	1.01	62.7	2.38	0.46	160	205	
3	Point Source B/N	2914	10/1/19	SW 320	Z.O. Lab, Ludhiana	552	257	272	1090	904	172	108	380	116	21.9	540	BDL	32	1.6	44	2.8	0.56	186	53	
4	Kali Bein into Beas	2913	21/1/19	SW 233	Z.O. Lab Jalandhar	24	40	38	210	160	20	24	180	48	14	140	BDL	1.8	1.2	3.8	0.20	0.18	4	2.7	
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	21/1/19	SW 234	Z.O. Lab Jalandhar	524	502	302	1210	847	158	154	665	205	37	496	BDL	44	2.9	80	3.5	0.48	209	30.3	
7	Hundiara drain before entering Pakistan	2907	21/1/19	SW 235	Z.O. Lab Jalandhar	260	400	334	740	560	110	80	490	92	17	260	BDL	36	2.6	68	3.0	0.33	241	29.7	
8	Pathlawa Drain	2911	Sample was not collected																						
9	Ranjit Sagar Reservoir	2912	10/1/19	SW 201	Z.O. Lab Jalandhar	8	2.8	BDL	110	85	10	10	74	24	3	66	BDL	BDL	BDL	BDL	BDL	BDL	2	2.8	
10	Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab	2908	8/1/19	SW 1198	H.O. Lab Patiala	84	115	90	696	592	104	42	222	63	16	506	BDL	4.8	0.68	6.7	3.22	0.26	110	24	
11	Sagar Para Drain at village sagra dist.Patiala	4158	16/1/19	SW 1225	H.O. Lab Patiala	584	85	176	1359	1155	330	72	599	168	43	629	BDL	6.9	0.93	9.6	3.41	0.32	280	60	
12	Confluence point of sukhana Choe with River Ghaggar,vill.Mubarkpur	4162	8/1/19	SW 1201	H.O. Lab Patiala	339	180	280	640	544	82	38	327	98	20	476	BDL	26.50	1.26	37	2.17	0.38	65	20	
13	Confluence point of Sarsa Nadi with river Satluj	4161	The confluence point of Sirsa Nadi with River Satluj was not approachable, hence sample was not collected.																						

Note. . BDL means Below Method Detection Limit