

**WATER QUALITY OF MAJOR RIVERS IN HIMACHAL PARDESH MONITORED UNDER MINARS
AND STATE WATER QUALITY MONITORING PROGRAMME DURING 2013-14**

Major Rivers (MINARS) Points from April-2013 to March 2014

Name of location	Para-meters	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
River Pabbar U/s Dhambari	pH	7.86	7.12	6.78	7.52	7.31	7.16	7.52	7.72	--	6.97	--	6.2
	D.O. mg/l	--	9.0	8.9	10.1	8.7	9.1	8.1	9.1	--	9.3	--	9.8
	BOD mg/l	1.0	2.0	2.0	0.3	0.3	0.1	0.1	0.1	--	0.3	--	0.2
	TC	120	84	8	28	16	4	NIL	4	--	8.0	--	3
River Pabbar U/s Rohru	pH	7.68	6.75	6.92	7.25	7.29	7.83	7.62	7.60	--	6.98	--	7.2
	D.O. mg/l	9.0	8.6	8.7	9.6	8.6	8.8	7.9	8.7	--	8.8	--	10.1
	BOD mg/l	1.0	2.0	1.0	0.2	0.1	0.2	0.2	0.2	--	0.1	--	0.1
	TC	100	36	2	12	8	8	2.0	6	--	12.0	--	4
River Pabbar at Snail D/s of TRT of Swara Kuddu	pH	7.54	7.56	6.87	7.33	7.51	7.52	7.59	7.59	--	6.94	--	7.0
	D.O. mg/l	9.3	9.1	9.0	10.5	7.0	9.0	7.6	9.2	--	8.5	--	9.7
	BOD mg/l	1.0	1.0	2.0	0.2	0.2	0.1	0.2	0.1	--	0.1	--	0.1
	TC	48	28	4	14	20	10	4.0	10	--	14.0	--	4
River Tons at H.P. Boundary	pH	--	6.94	7.45	7.18	7.73	7.16	7.42	7.57	--	6.96	--	6.8
	D.O. mg/l	--	9.0	9.0	10.3	5.4	9.2	7.5	9.1	--	8.2	--	9.6
	BOD mg/l	--	1.0	1.0	0.1	0.8	0.3	1.0	0.1	--	0.2	--	0.3
	TC	--	40	4	48	13	4	3.0	6	--	2.0	--	4
Ashwani khad U/s Yashwant Nagar	pH	7.86	8.44	--	8.34	7.05	7.62	7.63	7.62	7.42	7.44	7.80	6.87
	D.O. mg/l	9.3	6.6	--	10.1	7.8	8.3	8.6	8.6	8.9	8.2	9.2	7.3
	BOD mg/l	2.0	1.0	--	1.1	1.0	0.4	0.2	0.5	0.8	0.4	0.2	2.0
	TC	204	18	--	22.0	640	110	62	22	56	24	82	16
Giri river D/s Yashwant Nagar	pH	7.60	8.40	--	7.33	7.93	7.16	7.12	7.03	7.43	7.28	7.60	6.32
	D.O. mg/l	8.3	3.0	--	9.8	9.6	10.1	9.7	9.1	8.5	8.5	9.9	7.2
	BOD mg/l	1.0	2.0	--	0.6	0.8	0.2	0.4	0.2	0.4	0.8	0.1	1.2
	TC	160	62	--	18.0	420	128	44	18	36	18	24	18
River Sukhna at Parwanoo	pH	7.85	--	--	--	--	7.55	7.09	7.12	7.20	7.26	7.18	6.55
	D.O. mg/l	--	--	--	--	--	6.2	0.9	6.3	8.0	4.4	6.3	5.5
	BOD mg/l	10.0	--	--	--	--	1.6	42.0	12.0	8.0	33.0	25.0	41.0
	TC	34	--	--	--	--	32	54	284	94	264	240	110
Lift Nala D/s MSW	pH	8.05	8.07	7.56	7.13	7.26	7.92	7.61	6.94	6.93	6.59	6.33	6.71

Name of location	Parameters	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
Processing Site, Shimla	D.O. mg/l	4.3	4.1	3.8	5.1	8.9	6.1	4.9	4.5	--	4.0	4.1	4.1
	BOD mg/l	10.0	4.0	12.0	4.0	0.7	0.2	0.5	0.3	10.0	1.1	0.8	35.0
	TC	320	220	58	120	60	124	42.0	64	48	38	160	96
River Sirsa U/s Sitomajri Nallah	pH	8.06	8.12	7.65	7.92	6.86	7.25	7.29	--	6.29	6.70	--	--
	D.O. mg/l	8.1	7.6	7.3	8.1	--	--	-	--	7.8	7.3	--	--
	BOD mg/l	12.0	5.0	4.0	12.0	1.3	1.0	0.4	--	0.6	0.8	--	--
	TC	60	32	55	42	--	92	--	--	--	--	--	--
River Sirsa D/s Nalagarh Bridge	pH	8.17	8.28	7.86	8.24	8.01	7.61	7.14	--	7.13	6.46	--	--
	D.O. mg/l	--	5.9	5.5	6.0	--	7.3	-	--	6.5	5.8	--	--
	BOD mg/l	10.0	1.0	18.0	1.2	2.0	0.8	0.6	--	0.3	1.0	--	--
	TC	38	38	25	24	--	64	--	--	--	--	--	--
River Sirsa D/s Nalagarh Town	pH	8.27	8.42	7.80	8.14	8.07	7.08	7.41	--	7.25	6.68	--	--
	D.O. mg/l	--	5.1	5.3	5.6	--	7.7	-	--	6.2	8.9	--	--
	BOD mg/l	10.0	2.0	2.0	2.0	6.2	0.5	0.3	--	10.0	1.3	--	--
	TC	22	22	32	28	--	112	96.0	--	--	--	--	--
MSW Solan Dumping site	pH	--	8.30	--	8.15	8.05	7.38	7.43	--	7.72	--	7.68	7.05
	D.O. mg/l	--	10.3	--	10.6	8.5	7.8	7.8	--	5.9	--	8.8	7.1
	BOD mg/l	--	2.0	--	0.1	0.2	0.1	1.0	--	2	--	0.1	0.2
	TC	--	48	--	33.0	80	92	38	--	182	--	38	24
River Yamuna U/s Paonta Sahib	pH	6.97	7.81	7.16	7.32	7.41	7.29	7.42	7.46	7.30	7.24	7.45	8.24
	DO	7.6	7.6	7.0	6.2	7.5	6.8	7.1	8.0	8.5	7.4	7.8	8.2
	BOD	1.0	1.0	0.8	1.2	1.0	1.6	1.6	1.0	1.2	1.6	1.4	1.2
	TC	18.0	28.0	12.0	20.0	18.0	20.0	24.0	20.0	20.0	19.0	24.0	21.0
River Yamuna D/s Paonta Sahib	pH	7.48	7.80	7.60	7.12	7.29	7.47	7.53	7.62	7.20	7.36	7.63	8.24
	DO	6.9	6.6	6.2	6.0	7.6	6.1	7.9	8.2	8.4	6.8	7.5	8.0
	BOD	1.6	1.2	1.2	1.6	1.2	1.8	1.2	1.0	1.0	1.6	1.4	1.2
	TC	20	24	10.0	18.0	20.0	18.0	26.0	21.0	21.0	17.0	23.0	24.0
River Bata U/s Paonta Sahib	pH	7.19	8.0	7.86	7.30	6.57	7.52	7.50	7.55	7.32	6.82	7.45	8.24
	DO	6.3	6.8	6.0	6.1	7.2	6.6	7.6	8.1	8.2	7.5	7.5	7.4
	BOD	1.6	1.0	1.0	1.2	1.0	1.0	1.4	1.4	1.2	1.0	1.2	1.2
	TC	14.0	19.0	9.0	16.0	16.0	16.0	19.0	12.0	23.0	24.0	20.0	23.0
River Bata before	pH	7.39	8.16	7.46	7.24	7.33	7.41	7.54	7.77	7.47	7.30	7.70	8.21

Name of location	Parameters	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
confluence to River Yamuna	DO	6.1	6.7	6.0	6.0	7.3	6.7	7.6	8.2	8.0	7.5	7.2	7.3
	BOD	1.4	1.4	1.2	1.6	1.2	1.2	1.4	1.2	1.4	1.2	1.4	1.4
	TC	15.0	21.0	9.0	17.0	19.0	19.0	22.0	14.0	20.0	22.0	25.0	24.0
River Markanda at Paonta Sahib	pH	7.88	7.76	8.06	6.78	7.50	6.55	7.60	7.15	7.36	7.26	7.75	7.93
	DO	7.8	7.0	6.2	6.0	6.4	7.3	7.3	6.8	7.4	6.5	7.6	7.7
	BOD	1.2	1.0	1.0	1.4	1.4	1.0	1.4	1.6	1.6	1.8	1.4	1.2
	TC	19.0	20.0	11.0	19.0	16.0	14.0	27.0	21.0	23.0	22.0	20.0	23.0
River Markanda U/s Kala Amb	pH	7.28	7.73	8.09	7.95	7.25	7.48	7.52	7.54	7.41	7.44	7.84	7.21
	DO	7.8	6.9	6.1	6.4	6.1	7.0	7.5	6.4	7.7	6.3	7.8	7.8
	BOD	0.6	1.2	1.2	1.2	1.4	1.4	1.2	1.8	1.8	1.8	1.6	1.4
	TC	26.0	22.0	18.0	21.0	21.0	20.0	25.0	14.0	24.0	22.0	19.0	21.0
River M'kanda D/s Kala amb/ Boundary of Haryana	pH	7.8	--	8.15	7.43	7.18	7.49	7.42	7.57	7.42	7.27	7.65	8.02
	DO	5.8		6.0	6.2	6.1	6.1	6.9	6.2	8.0	7.0	7.7	7.6
	BOD	1.6		1.4	1.4	1.2	1.6	1.6	1.6	1.4	1.6	1.2	1.4
	TC	23.0		16.0	23.0	24.0	23.0	28.0	16.0	28.0	26.0	24.0	23.0
River Giri U/s of CCI Mines	pH	8.23	7.49	7.94	7.50	7.25	7.47	7.56	7.50	7.35	7.23	7.84	7.21
	DO	7.2	8.0	6.4	6.1	7.8	6.4	8.2	7.8	6.9	8.0	7.8	7.8
	BOD	1.0	1.0	1.0	1.2	1.0	1.5	1.0	1.2	1.6	1.4	1.2	1.0
	TC	15.0	16	10.0	14.0	16.0	19.0	19.0	14.0	11.0	14.0	16.0	18.0
River Giri D/s of Sataun	pH	8.02	7.83	7.96	7.95	7.53	7.70	7.38	7.34	7.40	7.32	7.49	7.19
	DO	6.8	7.5	6.3	6.3	7.7	6.7	8.1	7.4	7.6	8.3	8.5	7.6
	BOD	1.2	1.4	1.2	1.0	1.2	1.0	1.0	1.0	1.4	1.2	1.2	1.4
	TC	16	17.0	11.0	13.0	18.0	17.0	20.0	13.0	12.0	13.0	18.0	16.0
Renuka Lake	pH	8.31	7.55	8.01	7.96	7.56	7.41	7.54	7.54	7.33	7.20	7.65	7.93
	DO	7.2	5.8	5.8	5.0	5.2	4.5	5.5	6.1	5.8	5.6	5.9	5.9
	BOD	1.4	1.6	1.8	1.8	1.8	2.8	2.4	18.0	2.8	2.8	2.6	2.2
	TC	21.0	29.0	12.0	36.0	29.0	25.0	28.0	34.0	40.0	46.0	44.0	39.0
U/S Slapper, River Satluj	pH	8.02	7.99	7.91	8.09	8.14	8.1	8.36	8.36	8.49	8.68	8.51	8.36
	DO	9.5	9.5	9.1	8.6	9.4	8.8	9.1	8.9	8.7	8.4	8.1	8.9
	BOD	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.2	0.1
	TC	240	350	280	280	180	220	130	180	160	130	130	350
D/S Slapper, Satluj River	pH	8.28	7.67	7.97	8.12	8.13	8.35	8.42	8.42	8.65	8.65	8.62	8.28

Name of location	Parameters	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
after Conf. with River Beas	DO	9.7	9.8	8.7	9.3	9.2	9.3	8.9	8.9	8.6	8.3	8.1	9.8
	BOD	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	1.2	0.4	0.2
	TC	140	220	220	240	170	140	170	170	1600	540	140	350
Exit of Dehar Power House, Beas River	pH	8.09	7.93	7.35	7.37	7.68	7.49	8.45	8.44	7.92	8.18	8.61	7.91
	DO	11.2	9.4	9.1	9.8	9	10.5	9	9.1	8.9	8.7	8.3	10
	BOD	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.2	0.3	0.4	0.2	0.1
	TC	94	280	130	140	140	180	110	130	94	280	79	130
D/s Bilaspur at Govindsagar	pH	7.98	7.96	7.9	7.94	8.37	8.42	8.98	9.28	8.83	8.62	8.62	8.12
	DO	9.3	9.1	9.1	9.2	8.9	8.9	8.3	8.5	8.5	8.8	7.9	8.7
	BOD	0.4	0.4	0.3	0.3	0.5	0.5	0.5	0.3	0.4	0.4	0.5	0.4
	TC	540	540	920	540	280	240	280	350	350	130	180	540
U/s Mandi, Beas River]	pH	8.15	7.66	7.63	8.08	7.49	8.15	8.49	8.52	8.24	8.19	8.43	7.91
	DO	8.2	8.3	7.5	8.5	8.5	8.8	8.4	9.4	10.8	10.8	11.7	9.6
	BOD	0.1	0.1	0.2	0.2	0.2	0.9	0.5	0.6	0.2	0.5	0.1	0.1
	TC	280	240	280	220	220	240	240	280	110	130	33	350
D/s Mandi, Beas River	pH	7.99	7.57	7.94	7.54	7.81	8.26	8.5	8.67	8.73	8.49	8.55	8.05
	DO	8.7	6.9	7.2	8.1	8.5	8.5	9.4	10	11.6	11.2	11.3	9.4
	BOD	0.4	0.4	0.4	0.4	0.4	1.4	0.6	0.7	0.3	0.4	0.4	0.2
	TC	540	540	920	350	350	350	350	≥2400	920	220	79	1600
Rewalsar Lake	pH	8.26	7.47	7.65	7.7	7.29	7.54	7.7	7.71	8.87	8.36	8.52	8.48
	DO	1	4.6	8.5	5	7	5.1	1.5	1.7	6.3	4.7	2.4	2.2
	BOD	9	8	12	3	2	2.2	4.2	15	3.4	6	6	4.3
	TC	≥2400	≥2400	≥2400	220	350	350	1600	≥2400	350	540	110	350
D/s Mandi, Suketi Khudd (2607)	pH	8.26	8.21	8.12	7.89	8.03	8.29	8.55	8.86	8.91	8.68	8.8	8.25
	DO	9.1	8	7.1	7.4	7.6	8.2	7.9	9.4	10.6	9.2	9.7	9.3
	BOD	0.5	0.5	0.4	0.5	0.6	1.1	0.6	0.6	1.2	0.5	0.4	0.4
	TC	≥2400	1600	1600	350	920	540	540	≥2400	240	920	130	540
R.Beas, U/s Pandoh Dam	pH	8.03	7.61	7.43	7.98	7.46	7.93	7.67	7.77	8.07	7.82	8.29	7.93
	DO	8.6	8.5	8.1	9	9.4	8.7	9.1	9.7	10.5	10.8	10.7	10
	BOD	0.3	0.3	0.3	0.3	0.2	0.5	0.1	0.9	0.2	0.7	0.2	0.2
	TC	220	180	220	220	220	180	170	920	79	170	22	240
R.Beas, D/s Pandoh Dam	pH	7.93	7.38	7.04	7.22	7.36	8.28	7.97	8.49	8.11	8.01	8.4	7.86

Name of location	Parameters	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	
	DO	9.7	8.3	7.2	8.7	8.3	8.9	9.4	8.5	10	10.9	10.9	9.7	
	BOD	0.2	0.1	0.1	0.3	0.2	0.7	0.1	0.6	0.3	0.8	0.2	0.3	
	TC	240	220	180	280	240	240	280	1600	140	180	33	240	
R.Beas, D/s Aut	pH	7.83	7.78	7	7.32	7.51	8.04	8.12	8.26	8.44	8.06	8.19	7.7	
	DO	8.9	9.8	8.4	8.9	9.1	8.5	9.6	9.6	9.3	10.8	8.9	9.2	
	BOD	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.3	0.4	0.2	0.1	1.2	
	TC	240	180	170	280	170	220	130	130	180	140	70	79	
	R.Sainj, D/s Largi	pH	8.01	7.74	6.67	7.35	7.83	8.09	8.08	7.99	8.17	8.06	8.37	7.8
		DO	9.1	9.7	8.2	10.2	9.2	8.4	9	9.7	9	10.6	9	9.3
BOD		0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	
TC		220	170	130	220	180	220	140	130	94	110	79	63	
River Parvati, U/s Manikaran	pH	6.84	7.07	8.07	7.58	7.18	7.57	7.28	7.05	8.89	8.58	7.85	8.09	
	DO	9	8.9	8.9	9.6	8.8	9.3	9.2	8.9	7.9	10.8	10	9.8	
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	
	TC	130	140	79	70	110	140	27	33	31	43	27	34	
River Parvati, D/s Manikaran	pH	7.6	7.53	7.69	7.87	7.52	7.72	8.26	7.33	8.78	8.16	7.92	8.02	
	DO	9.1	8.3	8.8	9.3	8.9	9.2	9.3	8.8	7.8	10.7	10	9.9	
	BOD	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	
	TC	240	220	194	79	130	170	43	34	33	49	31	43	
River Beas, U/s Manali	pH	7.96	8.29	7.89	7.55	7.62	8.02	7.71	8.22	8.08	8.35	8.01	8.08	
	DO	9.7	8.8	9.1	9.9	9.2	8.2	8.8	9.6	9.7	10.5	9.6	8.7	
	BOD	0.1	0.1	0.1	0.1	0.4	0.4	0.4	0.1	0.1	0.4	0.1	0.1	
	TC	110	180	94	63	140	180	34	110	63	23	49	46	
River Beas, D/s Manali	pH	8.03	8.24	7.54	7.69	7.88	8.08	8.09	8.23	7.95	7.78	8.03	7.94	
	DO	9.5	8.6	8.9	9.9	9.2	8.1	8.9	9.6	9.5	10.5	9.7	8.5	
	BOD	0.2	0.1	0.2	0.2	0.5	0.5	0.3	0.4	0.3	0.5	0.2	0.3	
	TC	240	350	170	240	350	280	79	140	70	33	79	70	
River Beas, U/s Kullu	pH	7.15	7.76	7.14	7.45	7.68	8.14	8.2	8.19	8.22	8.05	8.4	7.9	
	DO	8.8	9.7	8.7	9.3	9	8.1	9.4	9.7	9.2	11	9.9	8.9	
	BOD	0.2	0.1	0.1	0.2	0.2	0.3	0.1	0.3	0.4	0.1	0.2	0.2	
	TC	280	280	280	280	240	240	180	180	130	130	34	94	
River Beas, D/s Kullu	pH	7.21	7.83	6.98	7.68	7.71	8.02	8.27	8.27	8.37	8.13	8.37	8.18	

Name of location	Parameters	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
	DO	8.7	9.5	8.7	9.1	9	8.2	9.4	9.6	9.3	11	9.9	8.8
	BOD	0.3	0.2	0.3	0.3	0.3	0.4	0.1	0.4	0.4	0.2	0.3	0.3
	TC	540	540	350	350	350	280	280	220	220	220	63	130
Parvati River, before confluence to R. Beas at Bhunter	pH	7.57	7.78	6.88	7.74	8.29	7.74	8.06	8.04	8.17	8.14	8.13	7.69
	DO	8.7	9.8	8.3	9.4	9.1	9	9.6	9.8	9.1	11.2	9.9	9.5
	BOD	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.2	0.5	0.2	0.3	0.3
	TC	350	280	280	240	280	240	240	180	140	140	94	180
River Satluj U/s Tattapani	pH	8.14	7.59	7.75	8.27	7.64	8.22	8.3	8.54	8.53	8.15	8.44	8.56
	DO	9.3	9	9.1	9.2	9.1	9.3	9.4	9.3	9.3	9.4	9.3	9.4
	BOD	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.8	0.6	0.2	0.2	0.3
	TC	170	180	240	350	220	180	220	140	180	240	110	220
River Satluj U/s Rampur	pH	8.37	7.5	7.49	8.29	7.76	8.32	8.53	8.58	8.68	8.03	8.68	8.53
	DO	9.5	9.2	9.2	9.2	9.2	9.2	10.4	9.6	9.4	9.5	9.1	9.4
	BOD	0.3	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.1
	TC	540	280	170	170	180	220	140	130	170	140	130	180
River Satluj D/s Rampur	pH	8.3	7.46	7.73	8.26	7.91	8.27	8.47	8.69	8.19	8.11	8.49	8.56
	DO	9.4	9.1	9.2	9.2	9.2	9.1	10.1	9.7	9.2	9.3	9.1	9.3
	BOD	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.3
	TC	920	350	280	220	240	280	180	170	180	170	140	240
Wangtu Bridge (Satluj at Nathpa Jhakri)	pH	8.31	7.86	7.48	7.93	7.91	8.26	8.75	8.63	8.85	8.68	8.54	8.67
	DO	9.9	9.5	9.4	9.6	9.4	9.5	8.8	8.9	9.2	9.4	9.3	9.5
	BOD	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.2	0.5	1.2	0.2	0.1
	TC	180	170	140	180	130	110	110	94	70	110	130	79
River Baspa U/s reservoir at Kuppa	pH	8.23	8.09	--	7.87	7.61	8.36	8.35	8.1	8.53	8.14	8.27	8.66
	DO	9.2	9.2		9.5	9.6	9.7	8.6	8.7	9.5	9.8	9.8	9.6
	BOD	0.1	0.1		0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2
	TC	110	94		63	170	140	46	27	79	46	79	63
River Satluj before conf. with River Spiti at Khab	pH	8.23	8.02	--	7.71	7.56	8.31	8.35	8.22	8.51	8.65	8.55	8.67
	DO	9.9	9.7		9.8	9.6	9.8	9	9.1	9.9	10.1	9.9	9.9
	BOD	0.1	0.1		0.1	0.1	0.1	0.2	0.2	0.2	0.7	0.1	0.1
	TC	110	130		46	110	130	79	22	94	63	70	79
River Spiti before conf.	pH	8.28	8.21	--	7.92	7.83	8.29	8.64	8.5	8.73	8.4	8.41	8.63

Name of location	Parameters	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
with River Satluj at Khab	DO	9.7	9.8		10	9.8	9.9	9.2	9.3	9.9	9.9	10	10
	BOD	0.1	0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.7	0.1	0.1
	TC	46	79		49	94	110	70	17	46	22	26	27
River Satluj after conf. with River Spiti at Khab	pH	7.89	8.04	--	7.97	8.02	8.36	8.36	8.42	8.76	8.56	8.47	8.61
	DO	9.9	9.6		9.9	9.6	9.9	9.1	9.2	9.8	10.1	10	9.9
	BOD	0.2	0.1		0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
	TC	110	110		79	130	140	79	43	70	49	33	70
River Ravi D/S Chamba	pH	8.28	8.52	8.08	7.44	8.31	7.88	7.98	7.52	7.81	7.08	6.57	7.61
	DO	9.5	9	7.6	9	8	8.3	8.5	8.8	8.5	8.5	8.5	8.1
	BOD	0.6	0.3	0.6	1	0.4	0.3	0.3	0.5	0.2	0.2	0.6	0.3
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Ravi U/S Chamba	pH	8.46	8.34	8.01	7.38	8.14	8.48	7.74	7.09	8.08	7.31	6.88	7.26
	DO	9.4	9.5	7.5	9.2	8.2	7.8	8.6	8.9	8	9	8.1	7.9
	BOD	0.8	0.5	0.9	4	0.5	0.4	0.2	0.2	0.3	0.5	0.8	18.1
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Siul D/S Surgani	pH	8.81	8.34	8.06	7.54	7.92	7.96	7.46	7.12	7.7	7.09	7.8	7.86
	DO	8.5	9.3	8.5	9.2	8.1	7.8	8.9	7.9	6.1	8.9	8.5	8.1
	BOD	0.4	0.4	0.9	0.4	0.4	0.5	0.2	0.5	0.3	0.8	0.3	0.8
	TC	--	--	--	--	--	--	--	--	--	--	--	--
Chamera Reservoir stage-I	pH	8.62	8.51	8.12	7.35	7.95	8.21	7.83	7.1	7.45	6.29	7.98	7.63
	DO	7.8	9	6.8	8	7.8	7.4	8	7.5	7.3	8.9	8.4	8.3
	BOD	0.4	0.2	0.3	0.2	0.3	0.4	0.2	0.3	0.7	0.3	0.6	0.3
	TC	--	--	--	--	--	--	--	--	--	--	--	--
Madhopur Head Works River Ravi	pH	8.48	8.59	8.47	7.45	7.85	8.21	7.51	7.59	7.71	7.68	7.81	7.98
	DO	6.8	9.2	7.2	8	8.1	8.8	8.4	9.1	7.8	8	8.5	8.6
	BOD	0.4	0.3	0.7	0.5	2.5	0.4	0.2	0.6	0.4	0.2	0.4	0.4
	TC	--	--	--	--	--	--	--	--	--	--	--	--
Khajiar Lake	pH	6.95	6.82	7.08	6.34	7.74	6.98	5.83	6.12	7.1	6.58	7.02	7.34
	DO	8.5	8.9	6.3	6.5	7.5	7.5	7.5	7.5	6.8	5.7	7	6.8
	BOD	95	40	4	12	9	24	180	10.5	220	4	5.5	20
	TC	--	--	--	--	--	--	--	--	--	--	--	--
	pH	8.74	8.84	8.81	9.25	9.11	8.13	8.12	8.34	7.62	6.82	6.82	8.12

Name of location	Parameters	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
Pong Dam Lake at Pong Village	DO	8.5	8.5	6.7	8.3	6.8	8.5	6.7	9.4	8.4	8.5	8.9	8
	BOD	0.4	0.4	0.9	1.2	0.8	0.8	0.2	0.6	0.6	0.3	0.6	0.6
	TC	--	--	--	--	--	--	--	--	--	--	--	--
D/S Pong Dam R. Beas	pH	8.28	8.42	8.62	8.02	8.26	8.26	7.5	8.1	7.76	7.02	7.38	7.52
	DO	7.5	4.5	4.5	5	7	8.8	7.3	9	7.8	8.8	8.8	8.4
	BOD	0.2	0.2	0.5	0.8	0.8	0.3	0.4	0.3	0.8	0.8	0.3	0.3
	TC	--	--	--	--	--	--	--	--	--	--	--	--
D/S Dehra River Beas	pH	8.65	8.27	8.38	8.16	8.12	8.48	7.87	7.41	7.88	8.02	8.26	7.74
	DO	9.8	8.8	5.5	7.2	6.9	8.2	8.4	8.4	6.9	8.3	7.8	7.5
	BOD	0.6	0.4	6	3	1.6	0.6	0.3	0.3	0.5	0.7	1.5	1.8
	TC	--	--	--	--	--	--	--	--	--	--	--	--
D/S Jaisinghpur River Beas	pH	8.72	8.62	8.48	7.65	7.92	7.94	8.68	6.63	7.53	6.82	7.88	8.18
	DO	7.2	7.7	7.5	6.8	7.3	8.3	7	7.9	7.6	8.6	8.5	8.2
	BOD	0.3	0.4	0.3	0.8	0.4	0.8	0.4	0.4	1	0.5	1.5	0.7
	TC	--	--	--	--	--	--	--	--	--	--	--	--
D/S Alampur River Beas	pH	8.96	8.04	8.51	7.59	7.98	8.46	8.38	8.61	6.03	6.92	7.96	7.87
	DO	7.4	7.5	7.2	7.2	7.4	8.1	6.8	7.8	7.4	8.8	8.6	8.4
	BOD	0.4	0.6	0.4	0.8	0.6	1	0.3	0.3	0.6	1	2	2
	TC	--	--	--	--	--	--	--	--	--	--	--	--
D/S Thural NeugalKhad	pH	8.37	8.38	8.49	7.42	7.64	7.54	8.8	8.48	7.8	7.42	7.16	7.08
	DO	6.9	7.3	7.2	6	6.8	7.5	6.2	6.8	6.3	9.3	7.9	7.7
	BOD	0.4	0.4	1.5	0.2	1.5	0.2	0.4	0.5	0.8	0.3	0.3	0.8
	TC	--	--	--	--	--	--	--	--	--	--	--	--
D/S Binwa Baijnath Paprola	pH	8.54	7.63	8.14	7.41	7.75	7.98	7.58	8.17	8.14	7.14	7.09	7.19
	DO	7.6	8.2	8.6	6.5	7	9	6.8	7.9	7.2	9	8.7	8.1
	BOD	0.4	0.2	1.3	0.3	0.6	0.3	0.6	0.3	1	0.7	1.6	0.7
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Satluj D/s Bhakhra	pH	8.72	8.6	8.74	8.33	8.15	8.16	8.3	7.96	7.82	6.88	6.62	7.35
	DO	7.3	8.1	7.1	8.1	7.8	8.1	9	11.5	11.8	11	9.5	9
	BOD	0.9	0.5	0.8	0.4	0.4	0.2	0.3	0.2	0.6	0.8	0.4	0.5
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Swan D/s Santokhgarh	pH	8.74	8.48	8.23	8.52	8.46	8.2	7.31	7.12	7.54	6.63	7.38	7.82
	DO	5.8	7.9	5.8	6.3	6.9	5.8	6.6	10.8	8.4	10	8.2	7.2

Water Quality of major rivers in HP monitored under SWQM during 2013-14

April 2013				
Name of Sampling location	pH	D.O. mg/l	BOD mg/l	TC MPN/SPC per 100ml
Kaushlya River U/s Parwanoo Town	7.23	8.6	2.0	51
D/s Intake Channel of WSS	7.86	9.0	8.0	70
U/s WSS Sector -4, Parwanoo	8.01	-	8.0	62
Ambota Nallah U/s Nr. Rotary Canteen	7.21	6.4	4.0	48
Ambota Nallah D/s Nr. Rotary Canteen	7.33	2.6	10.0	28
U/s Morepan Lab	7.88	2.4	12.0	48
D/s Morepan Lab	7.62	1.8	20.0	42
Handpump Near Dhaggar, Market	7.82	1.8	1.0	10
Barrier Near Taksal, Shiv Mandir	7.35	6.8	4.0	12
Tube Well at HPMC Parwanoo, Sec-2	7.80	8.5	0.8	14
Handpump near Total Health Care, Parwanoo	7.95	1.90	1.0	12
Handpump Sec-1 Near Shivalik Hotel	7.18	4.1	2.0	6
River Sirsa D/s Sitomajri Nallah	7.98	7.2	4.0	220
River Bald U/s Land fill site at Baddi	8.07	-	10.0	36
River Bald D/s Landfill site at Baddi	8.02	-	2.0	24
River Sirsa U/s Sandholi Nallah	8.12	-	10.0	240
Sandholi Nallah	8.01	-	90.0	450
River Sirsa D/s Sandholi Nallah	8.02	-	25.0	184
River Sirsa U/s Housing Board Nalla	7.79	6.1	8.0	210
River Sirsa D/s Housing Board Nalla	7.83	6.5	8.0	262
Housing Board Nallah	8.05	1.2	10.0	310
River Ratta Before Conf. to River Sirsa	7.95	-	10.0	68
River Sirsa U/s River Ratta	8.05	-	8.0	26
River Sirsa D/s River Ratta	7.96	-	10.0	168
U/s TSDF Site at Majra (Well)	7.59	-	8.0	22
D/s TSDF Site at Majra (Well)	8.42	-	2.0	1
Handpump at house of sh. Gurubhaksh, Vill-Majra	8.54	-	0.6	1
Well at house of sh. Rana Vill Majra`	8.62	-	0.8	1
Rive Sirsa U/s Manpura Nallah	8.21	-	10.0	24
Manpura Nallah	7.87	-	8.0	26
Rive Sirsa D/s Manpura Nallah	8.18	-	12.0	24
River Sirsa U/s Khera Nallah	7.81	-	18.0	18
Khera Nallah	7.98	-	18.0	20
River Sirsa D/s Khera nallah	8.10	-	10.0	32

U/s Lift Nallah before conf. to Ashwani Khad	7.63	4.3	4	84
D/s Ashwani Khad	7.93	9.1	8	18
Lift Nallah D/s Hotel Combermere, Shimla	6.96	4.9	10	120
Lift Nallah U/s Bridge at Bye Pass Road Near MC Waste Processing Site	8.15	4.5	10	284
D/s Chirgaon	8.09	9.2	1	120
D/s Rohroo	7.82	9.1	4	208
U/s Hatkoti	7.48	8.9	4	48
D/s Hatkoti	8.42	9.3	8	28
Gummakhad U/s Chaila	7.50	8.8	6	26
Groundwater at Totu	7.85	4.1	1	1
Handpump at Shimla	7.98	3.8	1	1
River Yamuna U/stream of Ranbaxy, Paonta Sahib	7.22	7.1	1.4	20
River Yamuna D/stream of Ranbaxy, Paonta Sahib	7.85	7.0	1.6	21
River Yamuna U/stream of Land Fill Site, Paonta Sahib	7.55	5.90	1.8	28
River Yamuna D/stream of Land Fill Site, Paonta Sahib	7.57	6.30	1.6	23
River Markanda U/stream of Markanda bridge, Kala Amb	8.04	6.6	1.4	29
River Markanda U/stream of Jattan Walla Nullah	8.08	5.9	1.8	26
Jattan Wala Nullah	7.62	Int.	74.0	60
D/stream of Jattan Wala Nullah	7.28	Int.	54.0	48
D/s ACC Bar., Satluj River	8.25	10	0.9	240
R. Suketi U/s of conf. of dregger outfall of SNR Balancing reservoir	8.54	8.4	0.3	130
River Suketi at Dadour bridge	8.39	9.2	0.4	540
U/s Mandi, Suketi Khudd	8.33	8.2	0.4	920
U/s Darang Salt Mine	7.98	7.9	0.1	49
D/s Darang Salt Mine	8.12	7.5	0.3	140
River Beas, U/s of conf. of envisaged TRT of UHL-III	8.39	10.5	0.1	240
River Beas, D/s of conf. of envisaged TRT of UHL-III	8.43	9.8	0.1	280
R.Beas, D/s of conf. of TRT of Largin HEP power house.	8.00	9.4	0.1	140
River Beas, U/s Fermenta Biodil.	7.78	8.9	0.1	280
River Beas, D/s Fermenta Biodil.	7.9	8.8	0.2	350
R. Parvati U/s of Dam site of Parvati-II at Pulga	7.56	9.3	0.2	33
R. Parvati D/s of Dam site of Parvati-II at Pulga	7.74	9.2	0.2	43
R.Beas, U/s Waste processing facility, Manali.	8.03	9.6	0.1	240
R.Beas, D/s Waste processing facility, Manali.	8.05	9.5	0.2	350
R.Beas, D/s of confluence with Allaign Nalla.	7.94	9.6	0.2	180
Allaign Nalla before confluence with R.Beas	8.13	9.7	0.1	94
R.Beas, D/s confluence with Duhangan Nalla.	8.1	9.7	0.1	140
Duhangan Nalla before confluence with R.Beas	8.04	9.7	0.1	110
R.Beas, U/s of confluence of R.Parvati	7.5	8.7	0.2	540
R.Beas, U/s Waste processing facility Kullu.	7.85	8.7	0.1	540
R.Beas, D/s Waste processing facility Kullu.	8.01	8.7	0.2	920
R.Sainj, U/s envisaged power house site of Parvati-II.	7.49	8.8	0.1	94
R.Sainj, D/s envisaged power house site of Parvati-II.	7.61	8.6	0.1	130

R.Sainj, U/s envisaged power house site of Parvati - III.	7.79	9.1	0.1	180
R.Sainj,, D/s envisaged power house site of Parvati - III.	7.83	9.2	0.2	280
River Satluj U/s Landfill Site Rampur	8.25	9.6	0.2	220
River Satluj D/s Landfill Site Rampur	8.35	9.5	0.3	350
R. Satluj D/s Duttanagar, D/s envisaged conf. of TRT of RHEP	8.00	9.4	0.2	140
River Satluj U/s TRT of Nathpa Jhakri Project	8.22	9.5	0.1	280
River Satluj D/s TRT of Nathpa Jhakri Project	8.27	9.4	0.3	240
River Satluj U/s confluence with Ganvi Khad	8.35	9.6	0.1	280
Ganvi Khad before confluence to River Satluj	8.32	9.2	0.1	180
River Satluj U/s confluence with Sorang Khad	8.04	9.6	0.1	350
River Satluj D/s confluence with Sorang Khad	8.26	9.6	0.2	280
River Sorang before confluence to River Satluj	8.24	9.3	0.1	140
Karcham Dam	8.35	9.6	0.2	350
Baspa River Baspa Project	8.33	9.2	0.1	170
River Baspa D/s reservoir at Kuppa	8.21	9.1	0.2	280
River Tidong before conf. to River Satluj	8.32	9.2	0.1	180
River Satluj U/s conf. with River Tidong	8.24	9.4	0.1	170
River Satluj D/s conf. with River Tidong	8.3	9.3	0.3	130
Hand Pump SunderNagar	7.74	-	Nil	Nil
Hand Pump at Ghumarvin Town	8.01	-	Nil	Nil
Spring Source at Sungal	8.14	-	Nil	Nil
Hand Pump at vill. Upper Badah	7.85	-	Nil	Nil
Hand Pump at Raison	8.09	-	Nil	Nil
Hand Pump Rangree, opposite to Hotel River Crescent	8.33	-	Nil	Nil
Ground water of Tikker Boari	8.28	-	Nil	Nil
Hand Pump Koksar	8.24	-	Nil	Nil
River Beas U/S Pong Dam	8.82	8.3	1.5	-
D/S Ind. Area Sansarpur Terrace	8.36	-	0.7	-
Budhil Nallah U/S Budhil HEP	8.78	9.4	0.6	-
Budhil Nallah D/S Budhil HEP	8.65	9.3	0.5	-
River Ravi U/S of Conf. of Budhil HEP	8.34	9.1	0.4	-
River Ravi D/S TRT of Budhil HEP	8.36	9.2	0.4	-
River Ravi U/S Dam Chamera-II HEP	8.56	8.5	0.8	-
River Ravi D/S Dam Chamera II HEP	8.77	8.6	0.5	-
River Ravi U/S Land Fill Site Chamba	8.75	9.2	1.2	-
River Ravi D/S Land Fill Site Chamba	7.83	9.1	3.5	-
Well at Sai	7.33	-	0.4	-
Well at Jaisinghpur	8.11	-	1.0	-
Well at Khaira	7.67	-	2.0	-
Well at Paprola	8.53	-	1.2	-
Well at Baijnath	8.65	-	1.0	-
Bhiral Khad D/S STP Palampur	7.81	6.8	0.8	-
Bhiral Khad U/S STP Palampur	8.33	7.3	0.5	-
Bhaled Khad D/S Dam	8.38	8.8	0.5	-
Bhaled Khad U/S Dam	8.55	8.7	0.5	-

River Baira D/S Dam	8.26	9.0	0.3	-
River Baira U/S Dam	8.23	9.1	0.5	-
River Baira after conf. TRT	8.25	8.8	0.6	-
River Baira before conf. TRT	8.41	8.7	0.5	-
River Siul D/S Dam	8.32	8.6	0.5	-
River Siul U/S Dam	8.4	92.0	0.8	-
River Baira before conf. with River Ravi	8.33	7.9	0.4	-
River Ravi after conf. with Baira River	8.67	7.6	0.3	-
River Ravi D/S Dam HEP	8.49	7.9	0.4	-
River Ravi D/S TRT Power House	8.29	7.5	0.6	-
River Satluj U/S Bhakhra	8.73	6.8	0.4	-
River Swan U/S MSW landfill Santokhgarh	8.28	6.3	0.8	-
River Swan D/S MSW land fill Santokhgarh	8.84	5.5	0.8	-
Well at Ind. Area Gagret	8.16	1.8	0.3	-
Well at Ind. Area Amb	8.23	2.2	0.4	-
Swan River U/S I.A. Gagret	8.48	6.3	0.5	-
Swan River D/S I.A. Gagret	8.87	7.2	0.6	-
Dal Lake Naddi	8.25	6.5	0.2	-
Charan Khad U/S STP D/sala	8.27	6.5	0.5	-
Charan Khad D/S STP D/sala	8.3	6.2	0.6	-
Well at Rajiana	7.72	-	0.4	-
Well at Khouli	7.96	-	0.2	-
Baner Khad U/S STP TMC	8.32	7.9	0.2	-
Baner Khad D/S STP TMC	8.41	8.0	0.4	-
Lund Khad U/S STP J/mukhi	8.21	5.1	7.0	-
Lund Khad D/S STP J/mukhi	7.95	4.8	5.5	-
Well at Jawalamukhi	8.61	-	0.8	-
July 2013				
River Sirsa D/s Sitomajri Nallah	8.03	6.9	2.0	112
River Bald U/s Land fill site at Baddi	7.46	4.9	1.8	42
River Bald D/s Landfill site at Baddi	8.08	7.2	2.4	48
River Sirsa U/s Sandholi Nallah	7.63	7.4	1.5	280
Sandholi Nallah	7.47	0.0	460.0	420
River Sirsa D/s Sandholi Nallah	7.08	6.6	16.0	150
River Sirsa U/s Housing Board Nalla	8.06	5.9	1.4	320
River Sirsa D/s Housing Board Nalla	8.07	5.8	1.2	222
Housing Board Nallah	7.48	0.6	10.0	280
River Ratta Before Conf. to River Sirsa	6.87	8.9	2.4	64
River Sirsa U/s River Ratta	8.19	7.3	0.8	32
River Sirsa D/s River Ratta	6.84	7.4	1.2	112
Well U/s TSDf Site at Majra	7.86	-	0.4	18
Well D/s TSDf Site at Majra	7.74	-	0.1	Nil
River Sirsa U/s Manpura Nalla	8.12	6.3	1.2	22
Manpura Nalla	7.51	8.9	1.4	28
River Sirsa D/s Manpura Nalla	6.93	8.6	0.8	32
River Sirsa U/s Khera Nallah	7.27	8.1	0.5	24
Khera Nallah	8.10	11.8	0.8	18

River Sirsa D/s Khera Nallah	7.98	10.8	0.7	30
Well at Barotiwala	8.12	-	0.1	1
Well at I.A. Barotiwala	8.45	-	0.1	2
Well at Baddi	8.04	-	0.1	1
Well at I.A. Baddi	7.96	-	0.2	2
Well at Nalagarh	8.06	-	0.1	2
Well at I.A.Nalagarh	8.13	-	0.1	1
House at Sh. Guru Bhaskar, Majra	7.01	-	0.2	3
House at Sh. Rana, Majra	7.04	-	0.2	2
House at Sh. Gurdyal, Majra	7.15	-	0.2	3
U/s Lift Nallah before conf. to Ashwani Khad	7.12	5.3	0.3	68
Ashwani Khad D/s lift Nallah	7.93	9.5	0.5	22
Lift Nallah D/s Hotel Combermere, Shimla	7.09	10.1	0.8	45
Lift Nallah U/s Bridge at Bye Pass Road Near MC Waste Processing Site	7.81	4.5	1.1	110
River Pabbar D/s Chirgaon	7.63	9.8	0.1	24
River Pabbar D/s Rohroo	7.84	9.5	0.2	32
River Pabbar U/s Hatkoti	7.04	9.8	0.1	28
River Pabbar D/s Hatkoti	7.76	9.7	0.2	32
Gumma Khad U/s Chailla	7.33	9.4	0.3	48
Groundwater at Totu	7.47	3.3	0.1	Nil
Budhil Nallah U/S Budhil HEP	7.72	8.5	0.4	-
Budhil Nallah D/S Budhil HEP	7.71	8.3	0.5	-
River Ravi U/S of Conf. of Budhil Nallah	7.74	8.5	0.6	-
River Ravi D/S TRT of Budhil Nallah	8.21	8.0	1.0	-
River Ravi U/S Dam Chamera-II HEP	7.62	8.5	0.4	-
River Ravi D/S Dam Chamera II HEP	7.64	8.0	0.8	-
River Siul D/S Dam	7.98	7.3	0.4	-
River Siul U/S Dam	8.08	7.5	0.4	-
Bhaled Khad U/S Dam	8.04	7.6	0.6	-
Bhaled Khad D/S Dam	8.02	7.8	0.6	-
River Baira U/S Dam	7.54	7.5	0.8	-
River Baira D/S Dam	8.00	8.0	0.5	-
Chouch Khad U/s Ind. Area Bain Attarian	7.64	7.0	1.6	-
Chouch Khad D/s Ind. Area Bain Attarian	7.71	6.9	6.0	-
Hand Pump Dalhousie Cantt. Near Gurdwara	7.75	--	0.8	-
R. Ravi U/s landfill Chamba	7.85	8.0	4.0	-
R. Ravi D/s landfill Chamba	7.47	7.9	0.3	-
Hand Pump Chamba Near Zero point	7.03	--	0.8	-
River Ravi before conf. with Baira River	7.37	8.5	1.5	-
Baira River before conf. with TRT of Power House HEP	7.58	8.8	0.6	-
Baira River after conf. with TRT of Power House HEP	7.16	9.0	2.5	-
River Baira before conf. with River Ravi	7.45	9.0	0.6	-

River Ravi after conf. with Baira River	7.40	8.2	0.2	-
River Ravi D/S Dam Chamera-I	7.76	8.7	0.2	-
River Ravi D/S TRT Power House	7.20	8.5	0.2	-
Dal Lake Naddi	6.35	5.4	0.6	-
Charan Khad U/S STP D/sala	7.40	6.2	0.8	-
Charan Khad D/S STP D/sala	7.40	6.0	0.8	-
Well at Rajiana	7.03	-	0.6	-
Well at Khouli	7.39	-	0.6	-
Baner Khad U/S STP Tanda	7.10	6.0	3.0	-
Baner Khad D/S STP Tanda	7.48	5.8	2.5	-
Well at Purana Kangra	6.58	-	0.3	-
Well at Sai	7.05	-	0.2	-
Well at Jaisinghpur	7.14	-	0.5	-
Well at Khaira	6.52	-	0.3	-
Bhiral Khad U/S STP Palampur	7.42	7.3	0.4	-
Bhiral Khad D/S STP Palampur	7.61	7.4	0.7	-
Well at Baijnath	7.84	-	0.4	-
Well at Paprola	6.82	-	0.3	-
Lund Khad U/S STP J/mukhi	8.35	7.0	0.8	-
Lund Khad D/S STP J/mukhi	8.37	7.4	0.6	-
Well at Jawalamukhi	7.72	-	0.9	-
River Beas U/S Pong Dam	9.26	6.5	0.7	-
Swan Khad U/S Ind. Area Sansarpur Terrace	8.12	7.5	0.5	-
Swan Khad U/S Ind. Area Sansarpur Terrace	8.19	7.3	0.4	-
River Satluj U/S Bhakhra	8.82	7.6	0.4	-
River Swan U/S MC landfill	8.48	6.4	0.8	-
River Swan D/S MC land fill	8.55	6.8	0.6	-
Well at Ind. Area Gagret	8.15	2.2	0.8	-
Well at Ind. Area Amb	8.33	2.1	0.5	-
Swan River U/S I.A. Gagret	8.36	6.7	0.8	-
Swan River D/S I.A. Gagret	8.32	7.1	0.8	-
River Yamuna U/stream of Ranbaxy,Paonta Sahib	7.45	6.0	1.2	22
River Yamuna D/stream of Ranbaxy, Paonta Sahib	7.47	6.1	1.4	23
River Yamuna U/stream of Land Fill Site, Paonta Sahib	7.40	6.3	1.2	22
River Yamuna D/stream of Land Fill Site, Paonta Sahib	7.58	6.0	1.4	24
River Markanda U/stream of Markanda bridge, Kala Amb	7.62	5.8	1.6	26
River Markanda U/stream of Jattan Walla Nullah	7.75	6.1	1.4	27
Jattan Wala Nullah	7.85	Int.	48.0	48
D/stream of Jattan Wala Nullah	8.05	4.9	2.2	30
D/s ACC Bar., Satluj River	7.62	9.5	0.3	280

R. Suketi U/s of conf. of dregger outfall of SNR Balancing reservior	7.79	6.5	0.2	140
River Suketi at Dadour bridge	7.87	7.3	0.4	350
U/s Mandi, Suketi Khudd	7.67	7.4	0.4	540
U/s Darang Salt Mine	7.20	6.9	0.2	130
D/s Darang Salt Mine	7.34	7.3	0.2	140
River Beas, U/s of conf. of envisaged TRT of UHL-III	7.39	8.4	0.1	140
River Beas, D/s of conf. of envisaged TRT of UHL-III	7.67	8.1	0.1	180
R.Beas, D/s of conf.of TRT of Largi HEP power house.	8.09	9.1	0.2	170
River Beas, U/s Fermenta Biodil.	7.46	9.0	0.1	280
River Beas, D/s Fermenta Biodil.	6.81	9.0	0.2	350
R. Parvati U/s of Dam site of Parvati-II at Pulga	6.48	9.5	0.1	43
July 2013				
River Sirsa D/s Sitomajri Nallah	8.03	6.9	2.0	112
River Bald U/s Land fill site at Baddi	7.46	4.9	1.8	42
River Bald D/s Landfill site at Baddi	8.08	7.2	2.4	48
River Sirsa U/s Sandholi Nallah	7.63	7.4	1.5	280
Sandholi Nallah	7.47	0.0	460.0	420
River Sirsa D/s Sandholi Nallah	7.08	6.6	16.0	150
River Sirsa U/s Housing Board Nalla	8.06	5.9	1.4	320
River Sirsa D/s Housing Board Nalla	8.07	5.8	1.2	222
Housing Board Nallah	7.48	0.6	10.0	280
River Ratta Before Conf. to River Sirsa	6.87	8.9	2.4	64
River Sirsa U/s River Ratta	8.19	7.3	0.8	32
River Sirsa D/s River Ratta	6.84	7.4	1.2	112
Well U/s TSDF Site at Majra	7.86	-	0.4	18
Well D/s TSDF Site at Majra	7.74	-	0.1	Nil
River Sirsa U/s Manpura Nalla	8.12	6.3	1.2	22
Manpura Nalla	7.51	8.9	1.4	28
River Sirsa D/s Manpura Nalla	6.93	8.6	0.8	32
River Sirsa U/s Khera Nallah	7.27	8.1	0.5	24
Khera Nallah	8.10	11.8	0.8	18
River Sirsa D/s Khera Nallah	7.98	10.8	0.7	30
Well at Barotiwala	8.12	-	0.1	1
Well at I.A. Barotiwala	8.45	-	0.1	2
Well at Baddi	8.04	-	0.1	1
Well at I.A. Baddi	7.96	-	0.2	2
Well at Nalagarh	8.06	-	0.1	2
Well at I.A.Nalagarh	8.13	-	0.1	1
House at Sh. Guru Bhaskar, Majra	7.01	-	0.2	3
House at Sh. Rana, Majra	7.04	-	0.2	2
House at Sh. Gurdyal, Majra	7.15	-	0.2	3
U/s Lift Nallah before conf. to Ashwani Khad	7.12	5.3	0.3	68

Ashwani Khad D/s lift Nallah	7.93	9.5	0.5	22
Lift Nallah D/s Hotel Combermere, Shimla	7.09	10.1	0.8	45
Lift Nallah U/s Bridge at Bye Pass Road Near MC Waste Processing Site	7.81	4.5	1.1	110
River Pabbar D/s Chirgaon	7.63	9.8	0.1	24
River Pabbar D/s Rohroo	7.84	9.5	0.2	32
River Pabbar U/s Hatkoti	7.04	9.8	0.1	28
River Pabbar D/s Hatkoti	7.76	9.7	0.2	32
Gumma Khad U/s Chailla	7.33	9.4	0.3	48
Groundwater at Totu	7.47	3.3	0.1	Nil
Budhil Nallah U/S Budhil HEP	7.72	8.5	0.4	-
Budhil Nallah D/S Budhil HEP	7.71	8.3	0.5	-
River Ravi U/S of Conf. of Budhil Nallah	7.74	8.5	0.6	-
River Ravi D/S TRT of Budhil Nallah	8.21	8.0	1.0	-
River Ravi U/S Dam Chamera-II HEP	7.62	8.5	0.4	-
River Ravi D/S Dam Chamera II HEP	7.64	8.0	0.8	-
River Siul D/S Dam	7.98	7.3	0.4	-
River Siul U/S Dam	8.08	7.5	0.4	-
Bhaled Khad U/S Dam	8.04	7.6	0.6	-
Bhaled Khad D/S Dam	8.02	7.8	0.6	-
River Baira U/S Dam	7.54	7.5	0.8	-
River Baira D/S Dam	8.00	8.0	0.5	-
Chouch Khad U/s Ind. Area Bain Attarian	7.64	7.0	1.6	-
Chouch Khad D/s Ind. Area Bain Attarian	7.71	6.9	6.0	-
Hand Pump Dalhousie Cantt. Near Gurdwara	7.75	--	0.8	-
R. Ravi U/s landfill Chamba	7.85	8.0	4.0	-
R. Ravi D/s landfill Chamba	7.47	7.9	0.3	-
Hand Pump Chamba Near Zero point	7.03	--	0.8	-
River Ravi before conf. with Baira River	7.37	8.5	1.5	-
Baira River before conf. with TRT of Power House HEP	7.58	8.8	0.6	-
Baira River after conf. with TRT of Power House HEP	7.16	9.0	2.5	-
River Baira before conf. with River Ravi	7.45	9.0	0.6	-
River Ravi after conf. with Baira River	7.40	8.2	0.2	-
River Ravi D/S Dam Chamera-I	7.76	8.7	0.2	-
River Ravi D/S TRT Power House	7.20	8.5	0.2	-
Dal Lake Naddi	6.35	5.4	0.6	-
Charan Khad U/S STP D/sala	7.40	6.2	0.8	-
Charan Khad D/S STP D/sala	7.40	6.0	0.8	-
Well at Rajiana	7.03	-	0.6	-
Well at Khouli	7.39	-	0.6	-
Baner Khad U/S STP Tanda	7.10	6.0	3.0	-
Baner Khad D/S STP Tanda	7.48	5.8	2.5	-
Well at Purana Kangra	6.58	-	0.3	-
Well at Sai	7.05	-	0.2	-

Well at Jaisinghpur	7.14	-	0.5	-
Well at Khaira	6.52	-	0.3	-
Bhiral Khad U/S STP Palampur	7.42	7.3	0.4	-
Bhiral Khad D/S STP Palampur	7.61	7.4	0.7	-
Well at Baijnath	7.84	-	0.4	-
Well at Paprola	6.82	-	0.3	-
Lund Khad U/S STP J/mukhi	8.35	7.0	0.8	-
Lund Khad D/S STP J/mukhi	8.37	7.4	0.6	-
Well at Jawalamukhi	7.72	-	0.9	-
River Beas U/S Pong Dam	9.26	6.5	0.7	-
Swan Khad U/S Ind. Area Sansarpur Terrace	8.12	7.5	0.5	-
Swan Khad U/S Ind. Area Sansarpur Terrace	8.19	7.3	0.4	-
River Satluj U/S Bhakhra	8.82	7.6	0.4	-
River Swan U/S MC landfill	8.48	6.4	0.8	-
River Swan D/S MC land fill	8.55	6.8	0.6	-
Well at Ind. Area Gagret	8.15	2.2	0.8	-
Well at Ind. Area Amb	8.33	2.1	0.5	-
Swan River U/S I.A. Gagret	8.36	6.7	0.8	-
Swan River D/S I.A. Gagret	8.32	7.1	0.8	-
River Yamuna U/stream of Ranbaxy,Paonta Sahib	7.45	6.0	1.2	22
River Yamuna D/stream of Ranbaxy, Paonta Sahib	7.47	6.1	1.4	23
River Yamuna U/stream of Land Fill Site, Paonta Sahib	7.40	6.3	1.2	22
River Yamuna D/stream of Land Fill Site, Paonta Sahib	7.58	6.0	1.4	24
River Markanda U/stream of Markanda bridge, Kala Amb	7.62	5.8	1.6	26
River Markanda U/stream of Jattan Walla Nullah	7.75	6.1	1.4	27
Jattan Wala Nullah	7.85	Int.	48.0	48
D/stream of Jattan Wala Nullah	8.05	4.9	2.2	30
D/s ACC Bar., Satluj River	7.62	9.5	0.3	280
R. Suketi U/s of conf. of dregger outfall of SNR Balancing reservior	7.79	6.5	0.2	140
River Suketi at Dadour bridge	7.87	7.3	0.4	350
U/s Mandi, Suketi Khudd	7.67	7.4	0.4	540
U/s Darang Salt Mine	7.20	6.9	0.2	130
D/s Darang Salt Mine	7.34	7.3	0.2	140
River Beas, U/s of conf. of envisaged TRT of UHL-III	7.39	8.4	0.1	140
River Beas, D/s of conf. of envisaged TRT of UHL-III	7.67	8.1	0.1	180
R.Beas, D/s of conf.of TRT of Largi HEP power house.	8.09	9.1	0.2	170

River Beas, U/s Fermenta Biodil.	7.46	9.0	0.1	280
River Beas, D/s Fermenta Biodil.	6.81	9.0	0.2	350
R. Parvati U/s of Dam site of Parvati-II at Pulga	6.48	9.5	0.1	43
October 2013				
U/s Parwanoo Town	7.77	–	0.3	2
D/s Intake Channel of WSS	7.92	–	0.2	12
U/s WSS Sector –4, Parwanoo	7.09	9.1	0.1	14
D/s WSS Kalka	6.83	4.0	22.0	420
Landfill Site U/s Sukhna Nallah Sector V, Parwanoo	7.09	5.5	12.0	312
Landfill Site D/s Sukhna Nallah Sector V, Parwanoo	7.19	7.6	18.0	86
U/s Morepan Lab	7.73	7.9	0.1	12
D/s Morepan Lab	7.47	5.2	0.8	14
River Sirsa D/s Sitomajri Nallah	7.18	6.8	0.2	12
River Bald U/s Land fill site at Baddi	7.44	5.2	0.6	–
River Bald D/s Landfill site at Baddi	7.47	7.1	0.5	–
River Sirsa U/s Sandholi Nallah	7.33	5.7	0.6	18
Sandholi Nallah	6.74	0.0	510.0	460
River Sirsa D/s Sandholi Nallah	7.17	5.9	0.7	16
River Sirsa U/s Housing Board Nalla	7.48	3.2	1.0	18
River Sirsa D/s Housing Board Nalla	7.52	4.5	0.6	22
Housing Board Nallah	7.27	0.2	24.0	164
River Ratta Before Conf. to River Sirsa	7.54	7.2	0.8	12
River Sirsa U/s River Ratta	7.92	6.5	0.8	24
River Sirsa D/s River Ratta	7.46	6.2	0.9	36
Well U/s TSDF Site at Majra	7.34	8.9	0.2	<2
Well D/s TSDF Site at Majra	7.38	6.5	0.1	2
River Sirsa U/s Manpura Nallah	7.54	6.1	0.3	–
Manpura Nallah	7.66	8.6	0.2	1
River Sirsa D/s Manpura Nallah	–	O	R	E
River Sirsa U/s Khera Nallah	7.49	8.6	0.4	–
Khera Nallah	7.62	8.5	0.6	–
River Sirsa D/s Khera Nallah	7.59	5.9	0.5	–
Handpump at house of shri gurubakash Vill Majra	7.63	–	0.2	1.0
Well at house of Shri Rana Vill Majra	7.05	–	0.2	–
Handpump at house of shri Balvinder Vill Majra	7.4	–	0.1	–
Handpump at house of shri Gurudyal Vill Majra	7.42	–	0.3	–
U/s Lift Nalla before conf. to Ashwani Khad	7.03	4.2	0.2	24
Ashwani Khad after Conf. of lift Nalla	7.1	7.5	0.1	30
Lift Nallah D/s Hotel Combermere, Shimla	7.64	4.6	0.2	22.0
Lift Nallah U/s Bridge at Bye Pass Road Near MCW Processing Site	7.12	5.0	0.1	18.0
River Pabbar D/s Chirgaon	7.52	7.9	0.1	8.0
River Pabbar D/s Rohroo	7.12	7.0	0.2	5.0
River Pabbar U/s Hatkoti	7.34	7.2	0.4	4.0

River Pabbar D/s Hatkoti	7.46	7.0	0.3	6.0
Gummakhad U/s Chaila	7.52	6.9	0.4	10.0
Ground water of Totu	7.09	4.9	0.3	10.0
River Satluj U/S Bhakhra	8.87	8.6	0.80	–
River Swan U/S MSW landfill Santokhgarh	8.38	6.8	1.60	–
River Swan D/S MSW land fill Santokhgarh	8.14	6.1	2.50	–
Swan River U/S I.A. Gagret	7.83	6.5	1.00	–
Swan River D/S I.A. Gagret	7.72	6.8	2.00	–
River Beas U/S Pong Dam	8.04	6.5	0.60	–
Swan Khad U/S Ind. Area Sansarpur Terrace	7.58	6.8	0.30	–
Swan Khad D/S Ind. Area Sansarpur Terrace	7.72	8.0	1.00	–
Chouch Khad U/s Ind. Area Bain Attarian	8.42	9.9	0.50	–
Chouch Khad D/s Ind. Area Bain Attarian	7.9	8.0	0.20	–
River Ravi D/S Land Fill Site Chamba	8.71	8.4	0.30	–
River Ravi U/S Land Fill Site Chamba	7.96	8.5	0.40	–
River Ravi U/S Dam Chamera-II HEP	7.44	7.8	0.30	–
River Ravi D/S Dam Chamera II HEP	7.52	7.9	0.40	–
River Ravi u/s conf. with River Baira	7.53	8.1	0.60	–
River Ravi D/S proposed TRT of Budhil	7.78	7.9	0.50	–
Budhil Nallah U/S of dam of proposed Budhil HEP	7.5	8.0	0.30	–
Budhil Nallah U/S of dam of proposed Budhil HEP	7.48	8.5	0.30	–
River Ravi U/s conf. of Baira River	7.57	8.9	0.40	–
Bhiral Khad U/S STP Palampur	7.15	7.3	0.40	–
Bhiral Khad D/S STP Palampur	7.38	7.4	0.80	–
Charan Khad U/S STP D/sala	7.7	6.4	0.20	–
Charan Khad D/S STP D/sala	8.12	6.6	0.30	–
Baner Khad U/S STP TMC	7.39	7.8	0.30	–
Baner Khad D/S STP TMC	7.48	8.1	0.20	–
Lund Khad U/S STP J/mukhi	8.2	7.2	1.50	–
Lund Khad D/S STP J/mukhi	7.99	7.6	2.00	–
River Siul U/S Dam on Siul for Baira Siul HEP	8.01	8.5	0.40	–
River Siul D/S Dam on Siul for Baira Siul HEP	7.52	8.6	0.40	–
River Siul before conf. with River Ravi	7.35	9.0	0.30	–
River Ravi before conf. of TRT of power house (BSHEP)	7.68	8.4	0.30	–
River Baira after conf. of BSHEP	7.73	8.5	0.20	–
Bhaled Khad U/S Dam on Baled for Baira Siul HEP	7.28	8.1	0.00	–
Bhaled Khad D/S Dam on Baled for Baira Siul HEP	7.86	8.0	0.20	–
River Baira U/S Dam on Baira of BSHEP	7.49	7.9	0.20	–
River Baira U/S Dam on Baira of BSHEP	7.55	7.7	0.30	–

River Ravi D/S Dam Chamera-I	8.14	7.8	0.50	–
River Ravi D/s of its conf. with Baira River	7.88	8.2	0.30	–
River Ravi D/S TRT Power House Stage-I	7.12	8.4	0.30	–
Well at Ind. Area Gagret	7.73	2.0	1.20	–
Well at Ind. Area Amb	7.68	2.3	0.80	–
Well at Jaisinghpur	8.15	–	0.50	–
Well at Khaira	6.52	–	0.40	–
Well at Sai	6.06	–	0.50	–
Well at Baijnath	6.25	–	0.70	–
Well at Paprola	6.12	–	0.40	–
Dal Lake Naddi	6.98	9.2	2.50	–
Well at Rajiana	6.3	–	0.20	–
Well at Khouli	6.16	–	0.30	–
Well at Purana Kangra	6.26	–	0.20	–
Well at Jawalamukhi	6.85	–	0.30	–
River Yamuna U/stream of Ranbaxy,Paonta Sahib	7.61	7.30	1.40	21.00
River Yamuna D/stream of Ranbaxy, Paonta Sahib	7.52	7.20	1.20	20.00
River Yamuna U/stream of Land Fill Site, Paonta Sahib	7.43	7.40	1.00	23.00
River Yamuna D/stream of Land Fill Site, Paonta Sahib	7.20	7.30	1.00	25.00
River Markanda U/stream of Markanda bridge, Kala Amb	6.17	7.10	1.40	29.00
River Markanda U/stream of Jattan Walla Nullah	7.15	6.90	1.60	27.00
Jattan Wala Nullah	6.23	Int.	120.00	86.00
D/stream of Jattan Wala Nullah	7.44	1.90	34.00	76.00
D/s ACC Bar., Satluj River	8.47	9.2	0.2	220
R. Suketi U/s of conf. of dregger outfall of SNR Balancing reservior	8.79	8.1	0.2	110
River Suketi at Dadour bridge	8.42	7.2	0.7	240
U/s Mandi, Suketi Khudd	8.39	7.7	0.5	280
U/s Darang Salt Mine	8.84	7.5	STATE	79
D/s Darang Salt Mine	8.81	7.7	0.6	79
River Beas, U/s of conf. of envisaged TRT of UHL-III	8.80	8.6	0.7	130
River Beas, D/s of conf. of envisaged TRT of UHL-III	8.82	9.7	0.4	170
R.Beas, D/s of conf.of TRT of Largi HEP power house.	7.93	9.2	0.6	94
River Beas, U/s Fermenta Biodil.	8.46	9.5	0.5	180
River Beas, D/s Fermenta Biodil.	7.98	9.4	0.3	240
R. Parvati U/s of Dam site of Parvati-II at Pulga	7.33	9.5	0.2	26

R. Parvati D/s of Dam site of Parvati-II at Pulga	7.95	9.5	0.3	33
R.Beas, U/s Waste processing facility, Manali.	8.19	9.0	0.5	110
R.Beas, D/s Waste processing facility, Manali.	8.06	9.0	0.7	180
R.Beas, D/s of confluence with Allaign Nalla.	8.12	9.2	0.5	130
Allaign Nalla before confluence with R.Beas	7.95	9.3	0.3	63
R.Beas, D/s confluence with Duhangan Nalla.	7.98	9.1	0.1	170
Duhangan Nalla before confluence with R.Beas	8.08	9.3	0.1	79
R.Beas, U/s of confluence of R.Parvati	8.29	9.5	0.1	240
R.Beas, D/s of confluence of R.Parvati	8.07	9.8	0.1	180
R.Beas, U/s Waste processing facility Kullu.	8.22	9.3	0.3	180
R.Beas, D/s Waste processing facility Kullu.	8.23	9.3	0.1	220
R.Sainj, U/s envisaged power house site of Parvati-II.	7.91	9.0	0.2	70
R.Sainj, D/s envisaged power house site of Parvati-II.	7.57	8.1	0.1	79
R.Sainj, U/s envisaged power house site of Parvati - III.	7.26	8.5	0.5	130
R.Sainj,, D/s envisaged power house site of Parvati - III.	8.17	8.9	0.4	130
River Satluj U/s Landfill Site Rampur	8.59	9.6	0.2	180
River Satluj D/s Landfill Site Rampur	8.64	9.6	0.4	220
R. Satluj D/s Duttanagar, D/s envisaged conf. of TRT of RHEP	8.68	9.7	0.3	170
River Satluj U/s TRT of Nathpa Jhakri Project	8.60	9.8	0.1	140
River Satluj D/s TRT of Nathpa Jhakri Project	8.71	9.6	0.1	170
River Satluj U/s confluence with Ganvi Khad	8.53	8.2	0.1	140
River Satluj D/s confluence with Ganvi Khad	8.74	8.1	0.2	180
Ganvi Khad before confluence to River Satluj	8.58	8.4	0.1	79
River Satluj U/s confluence with Sorang Khad	8.56	8.0	0.2	130
River Satluj D/s confluence with Sorang Khad	8.28	8.0	0.2	170
River Sorang before confluence to River Satluj	8.14	8.9	0.1	70
Karcham Dam	8.72	9.4	0.2	220
Baspa River Baspa Project	8.78	8.6	0.1	94
River Baspa D/s reservoir at Kuppa	8.85	8.4	0.3	140
River Tidong before conf. to River Satluj	8.61	7.9	0.1	63
River Satluj U/s conf. with River Tidong	8.71	8.4	0.2	140
River Satluj D/s conf. with River Tidong	8.75	8.4	0.2	130

Spring Source, Bheuli	8.21	--	0.1	< 0
Hand Pump SunderNagar	7.82	--	0.1	< 0
Hand Pump at Ghumarvin Town	8.38	--	0.1	< 0
Spring Source at Sungal	8.64	--	0.1	< 0
Hand Pump at vill. Upper Badah	8.47	--	0.1	< 0
Hand Pump at Raison	8.63	--	0.1	< 0
Hand Pump Rangree, opposite to Hotel River Crescent	7.50	--	0.1	< 0
Ground water of Tikker Boari	8.50	--	0.2	< 0
January 2014				
Kaushlya River U/s Parwanoo Town	7.32	9.5	0.4	24
D/s Intake Channel of WSS	7.33	6.4	0.2	112
U/s WSS Sector -4, Parwanoo	7.49	7.9	0.1	38
U/S Sukhana	7.41	6.4	2.0	142
D/s Sukhana	7.35	5.2	1.0	420
U/s Morepan Lab	7.39	5.6	0.1	48
D/s Morepan Lab	7.36	7.8	2.0	168
D/s WSS Kalka	7.39	8.1	2.8	118
River Sirsa D/s Sitomajri Nallah	6.75	6.3	1.6	-
River Bald U/s Land fill site at Baddi	7.22	6.2	1.0	-
River Bald D/s Landfill site at Baddi	7.13	7.2	0.6	-
River Sirsa U/s Sandholi Nallah	6.78	5.2	5.0	-
Sandholi Nallah	6.41	0.0	180.0	-
River Sirsa D/s Sandholi Nallah	6.74	5.8	1.2	-
River Sirsa U/s Housing Board Nalla	7.23	4.2	0.7	-
River Sirsa D/s Housing Board Nalla	7.02	5.5	1.2	-
Housing Board Nallah	7.28	0.5	4.0	-
River Ratta Before Conf. to River Sirsa	7.16	7.3	4.0	-
River Sirsa U/s River Ratta	7.14	6.1	1.1	-
River Sirsa U/s Manpura Nallah	7.18	6.1	0.8	-
River Sirsa D/s Manpura Nallah	7.27	-	1.2	-
River Sirsa U/s Khera Nallah	6.29	8.9	1.1	-
Khera Nallah	7.24	8.8	0.8	-
River Sirsa D/s Khera Nallah	7.21	6.2	0.6	-
Lift Nallah D/s Hotel Combermere, Shimla	6.84	5.0	0.4	44
Lift Nallah U/S Bridge at bye pass Road near waste processing site Shimla U/s MC shimla	6.71	4.0	1.8	122
U/s Lift Nallah before Conf. to Ashwani Khad	6.73	8.0	0.4	168
D/s of Ashwani Khad (after.conf.of lift nallah)	6.79	7.0	0.4	424
Ground water of Totu	6.90	6.0	0.3	12
River Pabbar D/s Chirgaon	7.03	9.1	0.2	6
River Pabbar D/s Rohru	7.11	8.5	0.1	4
River Pabbar U/s Hatkoti	6.93	8.5	0.1	<2
River Pabbar D/s Hatkoti	6.91	8.6	0.1	<2

River Pabbar U/s Chailla	6.94	8.0	0.1	10
R.Ravi D/S TRT Power House Chamera-I HEP	6.96	8.6	0.3	--
River Ravi D/S Chamera Reservoir CPS-I	6.98	8.1	0.6	--
River Ravi after conf. with Baira River	6.24	8.8	0.5	--
Baira River before conf. with river Ravi	6.21	8.9	0.6	--
River Satluj U/s Bhakhra	7.12	11.0	0.6	--
Swan River U/S MSW Site Santokhgarh	7.02	8.0	0.6	--
Swan River D/s MSW site Santokhgarh	6.42	8.7	1.0	--
D/s I.A Gagret	6.52	7.3	2.0	--
Well at I.A Gagret	6.03	--	0.6	--
Well at I.A. Una	6.06	--	0.5	--
Swan River U/S IA Gagret	6.05	7.5	1.8	--
Well at Paprola	5.98	--	0.8	--
Well At Jaisinghpur	6.76	--	1.6	--
Well at Sai	6.02	--	0.2	--
Well at Khera	6.14	--	0.5	--
Bhiral Khad U/S STP Palampur	6.2	8.0	1.5	--
Bhiral Khad D/S STP Palampur	6.00	7.9	1.5	--
River Ravi U/S MSW site Chamba	7.15	9.0	0.7	--
River Ravi D/S MSW site Chamba	7.1	8.8	0.3	--
River Ravi before conf. with Baira river	7.18	8.2	1.1	--
Chouch Khad U/s IA Bain Attarian	7.94	7.8	0.4	--
Chouch Khad D/s IA Bain Attarian	7.82	6.2	0.8	--
River Ravi U/s Dam Chamera-II HEP	7.52	9.0	0.2	--
River Ravi D/s Dam Chamera-II HEP	7.38	8.1	0.6	--
River Ravi U/S at Conf. of Budhil Nallah	7.32	9.0	0.4	--
River Ravi D/s TRT of proposed Budhil HEP (D/S) dam of Budhil HEP	7.28	8.6	0.6	--
Baira River U/S Dam on Baira Siul HEP	7.12	8.8	0.6	--
Baira River D/s dam on Baira Siul HEP	6.98	8.8	0.4	--
Bhaled Khad U/s Dam on Bhaled for Baira Suil HEP	7.02	9.0	0.6	--
Bhaled Khad D/s Dam on Bhaled for Baira Suil HEP	7.61	8.8	1.0	--
Baira River before conf. of TRT of Baira Siul HEP	7.58	8.7	0.4	--
Baira River after conf. of TRT of Baira Siul HEP	7.6	9.0	1.4	--
Lund Khad U/s STP Jawalamukhi	7.25	8.0	0.8	--
Lund Khad D/s STP Jawalamukhi	7.31	7.9	3.0	--
Well at Jawalaji	6.52		0.3	--
Baner Khad U/s STP TMC	6.98	8.1	0.8	--
Baner Khad D/s STP TMC	7.32	8.0	0.4	--
U/s Pong Dam	7.68	8.6	0.5	--
U/S IA Sansarpur Terrace	6.98	7.9	0.3	--
D/S IA Sansarpur Terrace	6.96	6.9	0.6	--
MSW HRTC Dumping site Dharamshala	7.54		0.9	--

U/S STP Dharamshala	7.46	8.2	0.7	--
D/S STP Dharamshala	7.59	8.3	0.6	--
Dal Lake Naddi	6.71	6.1	2.5	--
Well at Rajiana	6.68	--	0.8	--
Well at Upper Khouli	6.02	--	0.5	--
Well at Purana Kangra	6.74	--	0.3	--
River Yamuna U/stream of Ranbaxy,Paonta Sahib	7.10	6.50	1.20	23.00
River Yamuna D/stream of Ranbaxy, Paonta Sahib	7.34	6.40	1.40	24.00
River Yamuna U/stream of Land Fill Site, Paonta Sahib	7.26	8.20	1.60	28.00
River Yamuna D/stream of Land Fill Site, Paonta Sahib	7.09	7.70	1.40	27.00
River Markanda U/stream of Markanda bridge, Kala Amb	7.38	8.40	1.40	21.00
River Markanda U/stream of Jattan Walla Nullah	7.61	8.20	1.60	25.00
Jattan Wala Nullah	5.83	Interference	134.00	66.00
D/stream of Jattan Wala Nullah	6.72	4.00	4.00	40.00
D/s ACC Bar., Satluj River	8.58	9.1	1.2	79
R. Suketi U/s of conf. of dregger outfall of SNR Balancing reservior	8.98	9.3	0.2	46
River Suketi at Dadour bridge	8.85	9.3	1.0	180
U/s Mandi, Suketi Khudd	8.45	8.9	1.2	240
U/s Darang Salt Mine	8.57	8.4	0.1	110
D/s Darang Salt Mine	8.71	8.1	0.1	130
River Beas, U/s of conf. of envisaged TRT of UHL-III	8.61	12.2	0.2	130
River Beas, D/s of conf. of envisaged TRT of UHL-III	8.65	12.7	0.2	140
R.Beas, D/s of conf.of TRT of Largi HEP power house.	8.14	10.5	0.1	110
River Beas, U/s Fermenta Biodil.	8.12	10.8	0.2	140
River Beas, D/s Fermenta Biodil.	8.04	10.8	0.2	170
R. Parvati U/s of Dam site of Parvati-II at Pulga	8.02	10.9	0.1	70
R. Parvati D/s of Dam site of Parvati-II at Pulga	7.94	10.8	0.1	79
R.Beas, U/s Waste processing facility, Manali.	8.17	10.8	0.5	110
R.Beas, D/s Waste processing facility, Manali.	8.11	10.8	0.7	130
R.Beas, D/s of confluence with Allaign Nalla.	7.87	10.8	0.5	79
Allaign Nalla before confluence with R.Beas	7.81	10.6	0.3	31

R.Beas, D/s confluence with Duhangan Nalla.	8.03	10.9	0.1	49
Duhangan Nalla before confluence with R.Beas	8.15	10.7	0.1	8
R.Beas, U/s of confluence of R.Parvati	8.01	10.9	0.1	79
R.Beas, D/s of confluence of R.Parvati	8.02	11.1	0.1	94
R.Beas, U/s Waste processing facility Kullu.	8.16	11.0	0.3	110
R.Beas, D/s Waste processing facility Kullu.	8.08	10.9	0.1	110
R.Sainj, U/s envisaged power house site of Parvati-II.	8.09	10.6	0.2	94
R.Sainj, D/s envisaged power house site of Parvati-II.	7.96	10.5	0.1	110
R.Sainj, U/s envisaged power house site of Parvati - III.	8.03	10.6	0.5	63
R.Sainj,, D/s envisaged power house site of Parvati - III.	8.01	10.5	0.4	70
River Satluj U/s Landfill Site Rampur	8.61	9.6	0.2	220
River Satluj D/s Landfill Site Rampur	8.80	9.5	0.4	280
R. Satluj D/s Duttanagar, D/s envisaged conf. of TRT of RHEP	8.71	9.3	0.3	180
River Satluj U/s TRT of Nathpa Jhakri Project	8.56	9.6	0.1	94
River Satluj D/s TRT of Nathpa Jhakri Project	8.36	9.6	0.1	110
River Satluj U/s confluence with Ganvi Khad	8.58	9.6	0.1	130
River Satluj D/s confluence with Ganvi Khad	8.40	9.6	0.2	110
Ganvi Khad before confluence to River Satluj	8.38	9.4	0.1	49
River Satluj U/s confluence with Sorang Khad	8.65	9.6	0.2	110
River Satluj D/s confluence with Sorang Khad	8.68	9.6	0.2	94
River Sorang before confluence to River Satluj	8.34	9.3	0.1	34
Karcham Dam	8.56	9.6	0.2	63
Baspa River Baspa Project	8.29	9.7	0.1	70
River Baspa D/s reservoir at Kuppa	8.25	9.7	0.3	63
River Tidong before conf. to River Satluj	8.30	9.6	0.1	49
River Satluj U/s conf. with River Tidong	8.73	9.7	0.2	94
River Satluj D/s conf. with River Tidong	8.66	9.7	0.2	79
Spring Source, Bheuli	8.70	--	0.1	>2
Hand Pump SunderNagar	8.64	--	0.1	>2
Hand Pump at Ghumarvin Town	8.32	--	0.1	>2
Spring Source at Sungal	8.62	--	0.1	>2
Hand Pump at vill. Upper Badah	8.20	--	0.1	>2
Hand Pump at Raison	9.03	--	0.1	>2
Hand Pump Rangree, opposite to Hotel River Crescent	7.90	--	0.1	>2
Ground water of Tikker Boari	8.18	--	0.2	>2

