

नेपाल सरकार
शहरी विकास मन्त्रालय
अधिकार सम्पन्न बागमती सभ्यता एकीकृत विकास समिति
गुहेश्वरी फाँट, काठमाण्डौ ।

बागमती नदी तथा यसका सहायक नदीका विभिन्न स्थानमा पानीको नमूना लिई यस समितिको प्रयोगशालामा परीक्षण गर्दा तपसिलमा उल्लेख गरिएका गुणस्तर रहेको जानकारीको लागि प्रकाशित गरिएको छ ।

River water quality analysis report Chaitra 2082
Bagmati River

Sampling date	Parameters	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l	Cadmium mg/l	Copper mg/l	lead mg/l	Chromium mg/l
	Sampling sites													
2082.12.19 (02.04.2026)	Sundarijal *	8.55	1050	830	52	7.3	4	20	750	0.2	ND	0.030	ND	ND
	Gokarna	7.88	85	72	156	8.2	15	48	36x10 ³	0.46	ND	0.022	ND	ND
	Jorpati	7.50	157	118	220	5.3	79	132	18x10 ⁴	1.13	ND	0.026	ND	ND
	Guheswori	7.48	110	89	210	1.6	36	80	12x10 ⁴	0.74	ND	0.021	ND	ND
	Aryaghat	7.49	64	42	196	4.6	28	60	78x10 ³	0.62	ND	0.022	ND	ND
2082.12.20 (03.04.2026)	Minbhavan	7.52	120	138	256	0.0	101	182	52x10 ⁴	1.42	ND	0.034	ND	ND
	Manohara and Bagmati Confluence	7.63	240	252	330	0.0	140	254	61x10 ⁴	1.86	ND	0.043	ND	ND
	Thapathali	7.52	297	316	302	0.0	355	570	52x10 ⁴	2.98	ND	0.046	ND	ND
	Bagmati and Bishnumati confluence	7.35	497	400	384	0.0	246	438	67x10 ⁴	2.24	ND	0.067	ND	ND
	Sundarighat	7.42	515	426	408	0.0	344	580	92x10 ⁴	3.10	ND	0.052	ND	ND
	Chovar	7.63	354	300	413	0.0	285	750	86x10 ⁴	3.06	ND	0.037	ND	ND
Acceptable limits		6.5-8.5	<10 NTU	<50 mg/l	<1000 mg/l	5-9 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml	< 0.1 mg/l	≤ 0.003 mg/l	≤ 1.5 mg/l	≤ 0.01 mg/l	≤ 0.05 mg/l

*River water highly muddy at the time of sampling

Dhobikhola River

Sampling date: 2082.12.22 (05.04.2026)

Parameters	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l	Cadmium mg/l	Copper mg/l	lead mg/l	Chromium mg/l
Sampling sites													
1. Chapali	7.92	21	32	86	8.4	20	52	12x10 ²	0.52	ND	0.016	ND	ND
Ekatabasti	7.64	97	118	310	0.0	84	158	88x10 ⁴	2.10	ND	0.020	ND	ND
3. Gopikrishna	7.50	552	453	573	0.0	507	910	27x10 ⁵	5.76	0.001	0.025	ND	ND
4. Ratopul	7.46	477	434	566	0.0	578	1024	33x10 ⁵	5.82	ND	0.089	ND	ND
5. Buddhanagar	7.40	350	386	420	0.0	403	654	18x10 ⁵	4.54	ND	0.039	ND	ND
6. Dhobikhola and Bagmati confluence	7.66	340	402	390	0.0	319	600	14x10 ⁵	3.68	ND	0.069	ND	ND
Acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000 mg/l	5-9 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml	< 0.1 mg/l	≤ 0.003 mg/l	≤ 1.5 mg/l	≤ 0.01 mg/l	≤ 0.05 mg/l

Bishnumati River

Sampling date: 2082.12.25 (08.04.2026)

Parameters	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l	Cadmium mg/l	Copper mg/l	lead mg/l	Chromium mg/l
Sampling sites													
1. Budhanilkantha	7.74	20	42	78	8.3	18	48	28x10 ²	0.54	ND	0.022	ND	ND
2. Tokha	7.62	360	410	382	0.0	268	445	24x10 ⁵	2.28	0.002	0.033	ND	ND
3. Mahadev khola	7.50	622	576	478	0.0	409	654	52x10 ⁵	3.86	ND	0.040	ND	ND
4. Mahadev khola and Bishnumati confluence	7.48	470	448	410	0.0	330	520	30x10 ⁵	3.22	ND	0.036	ND	ND
5. Khusibu	7.36	505	476	373	0.0	343	525	42x10 ⁵	3.14	ND	0.048	ND	ND
6. Teku	7.44	482	428	324	0.0	280	500	34x10 ⁵	3.10	ND	0.037	ND	ND
Acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000 mg/l	5-9 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml	< 0.1 mg/l	≤ 0.003 mg/l	≤ 1.5 mg/l	≤ 0.01 mg/l	≤ 0.05 mg/l

Nakkhu River

Sampling date: 2082.12.23 (06.04.2026)

Parameters	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l	Cadmium mg/l	Copper mg/l	lead mg/l	Chromium mg/l
Sampling sites													
1. Near asphalt plant	8.02	140	132	82	7.4	22	48	19x10 ²	0.34	ND	0.034	ND	ND
2. Kantipur colony	7.96	50	64	78	7.0	9	30	14x10 ²	0.26	ND	0.027	ND	ND
3. Ranibu bridge	8.12	60	70	80	6.8	17	34	22x10 ²	0.30	ND	0.010	ND	ND
4. Confluence of Bagmati and Nakkhu	7.66	244	304	314	0.0	229	380	72x10 ⁴	1.86	ND	0.029	ND	ND
Acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000 mg/l	5-9 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml	< 0.1 mg/l	≤ 0.003 mg/l	≤ 1.5 mg/l	≤ 0.01 mg/l	≤ 0.05 mg/l

Tukucha River

Sampling date: 2082.12.20 (03.04.2026)

Parameters	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l	Cadmium mg/l	Copper mg/l	lead mg/l	Chromium mg/l
Sampling sites													
1. Putalisadak	7.56	416	390	503	0.0	496	932	89x10 ⁵	5.14	ND	0.103	ND	ND
2. Kalmochan ghat	7.48	417	400	418	0.0	407	881	76x10 ⁵	4.64	ND	0.065	ND	ND
3. Tukucha and Bagmati confluence	7.51	407	386	474	0.0	379	680	45x10 ⁵	3.86	ND	0.071	ND	ND
Acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000 mg/l	5-9 mg/l	≤3 mg/l	≤ 25 mg/l	<200 CFU/100 ml	< 0.1 mg/l	≤ 0.003 mg/l	≤ 1.5 mg/l	≤ 0.01 mg/l	≤ 0.05 mg/l

Hanumante River

Sampling date: 2022.12.27 (10.04.2026)

Parameters Sampling sites	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U./100 ml	Total Phosphate mg/l	Cadmium mg/l	Copper mg/l	lead mg/l	Chromium mg/l
1. Gonsa	8.02	20	43	56	8.3	19	48	22x10 ²	0.42	ND	0.006	ND	ND
2. Bramayani ghat*	7.68	838	610	72	4.8	15	36	40x10 ²	0.36	ND	0.009	ND	ND
3. Bhadra khola	7.55	117	97	210	2.2	68	110	43x10 ⁴	0.64	ND	0.035	ND	ND
4. Bira khola	7.62	369	344	364	0.0	525	810	59x10 ⁵	4.86	0.02	0.027	ND	ND
5. Chuping ghat	7.54	193	216	410	0.0	581	856	62x10 ⁵	5.16	ND	0.039	ND	ND
6. Kasan khola – Hanumante confluence	7.46	196	232	320	0.0	206	366	30x10 ⁵	1.78	ND	0.034	ND	ND
7. Ghattekholo –Hanumante confluence	7.38	202	178	294	0.0	332	550	40x10 ⁵	2.64	ND	0.047	ND	ND
8. Godavari khola- Hanumante confluence	7.46	178	128	372	0.0	303	510	88x10 ⁵	2.12	ND	0.019	ND	ND
9. Manohara - Hanumante confluence	7.55	189	210	328	0.0	342	575	72x10 ⁵	2.54	ND	0.018	ND	ND
Acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000 mg/l	5-9 mg/l	≤3 mg/l	≤ 25 mg/l	<200 CFU/100 ml	< 0.1 mg/l	≤ 0.003 mg/l	≤ 1.5 mg/l	≤ 0.01 mg/l	≤ 0.05 mg/l

*River water highly muddy at the time of sampling