Water Quality Report

Water_Quality_Canals_Sea_Water_Drains_STPs_2019.pdf

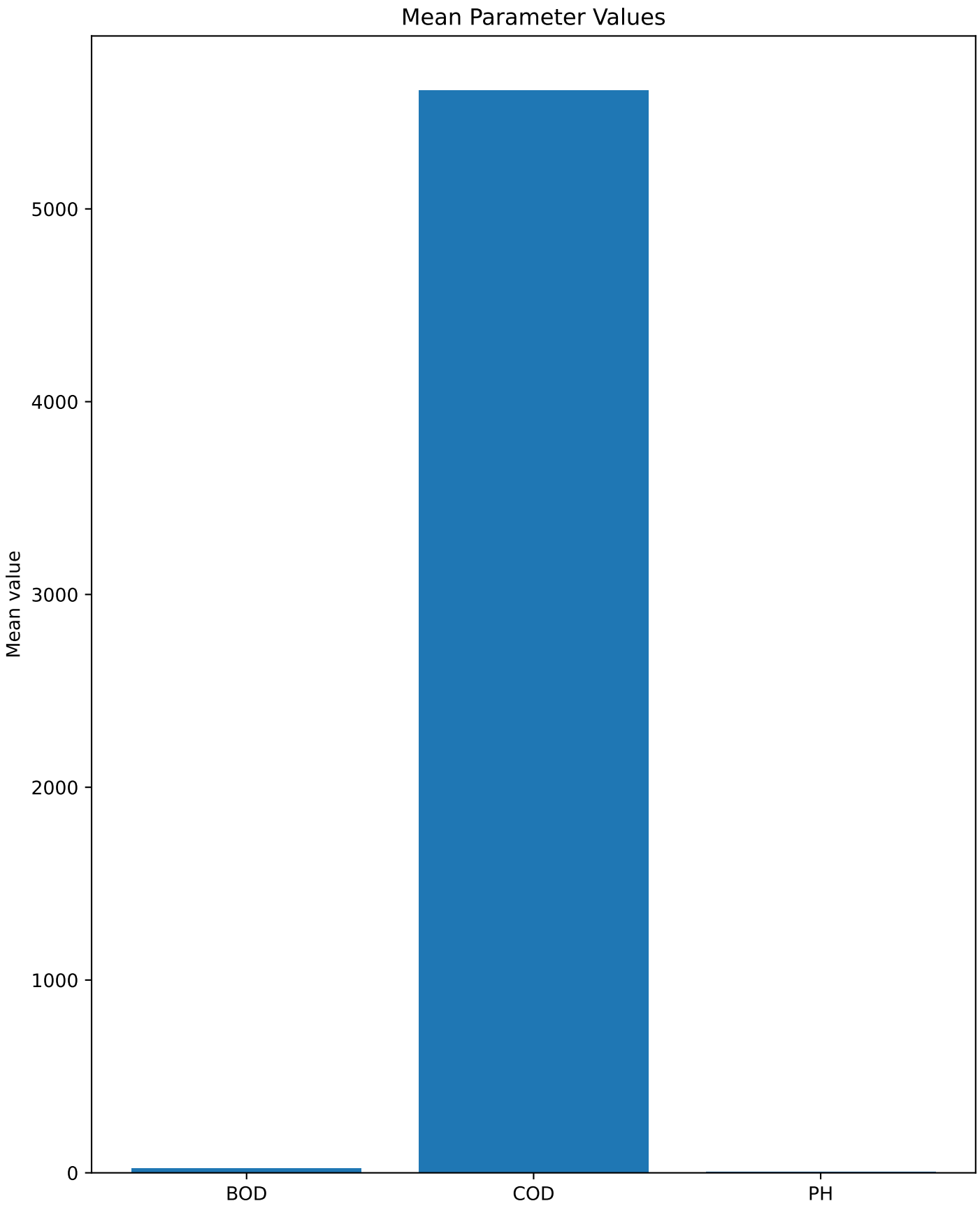
Generated: 2025-11-19T17:51:33.763555 UTC

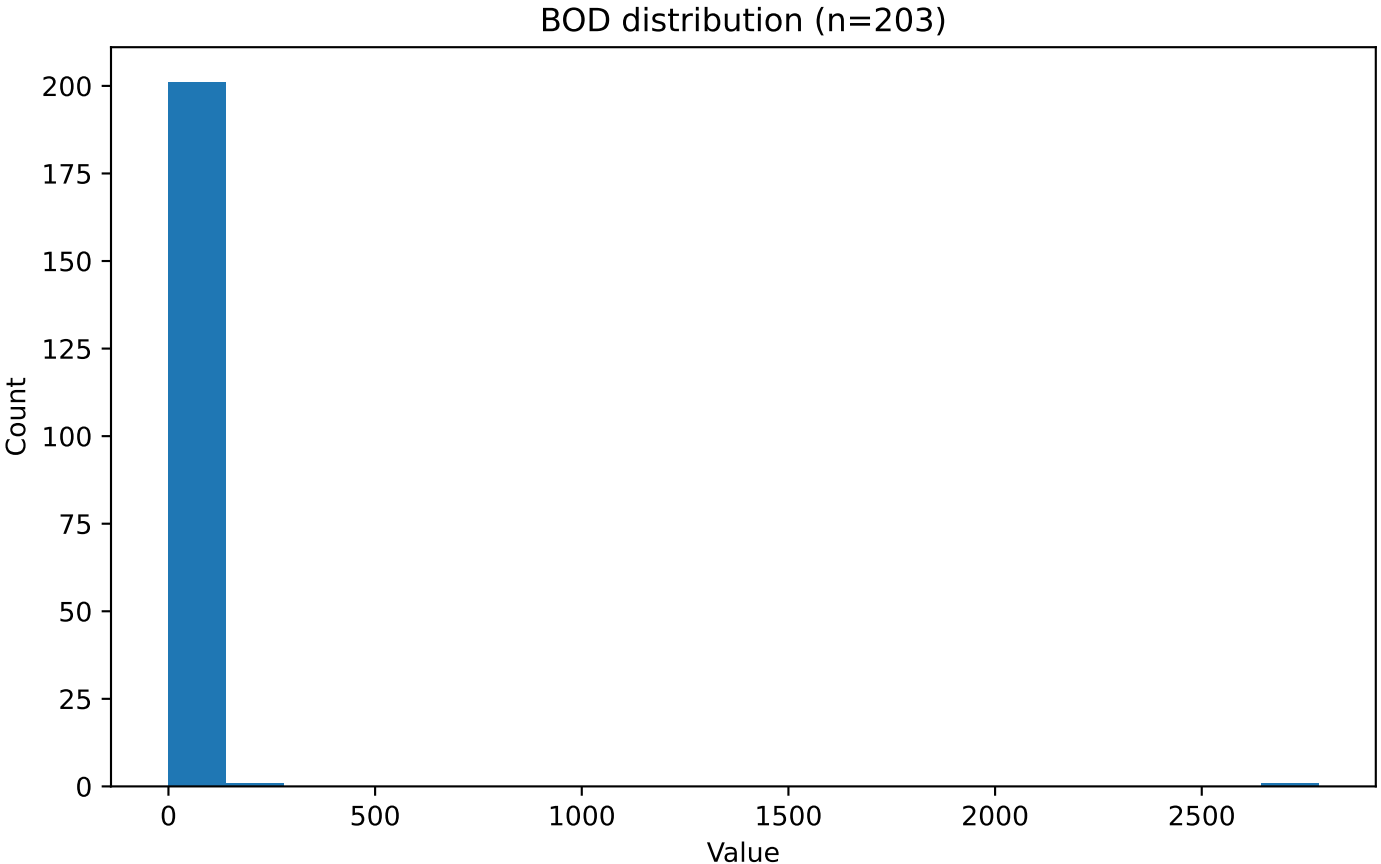
Summary:

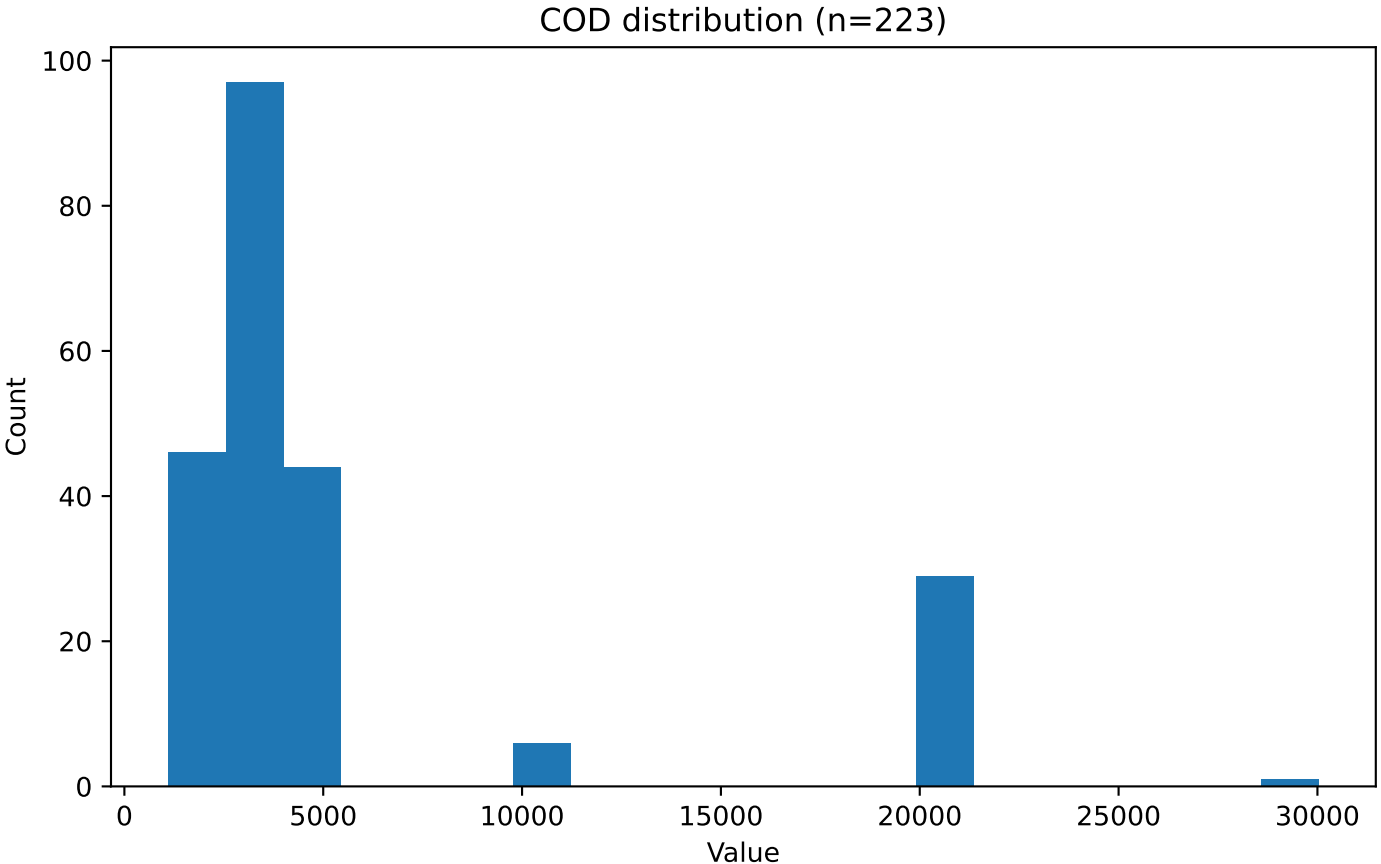
Parsed numeric counts: BOD=203, DO=0, COD=223, pH=222, TDS=0
Score (heuristic): 2.0 -> MODERATE

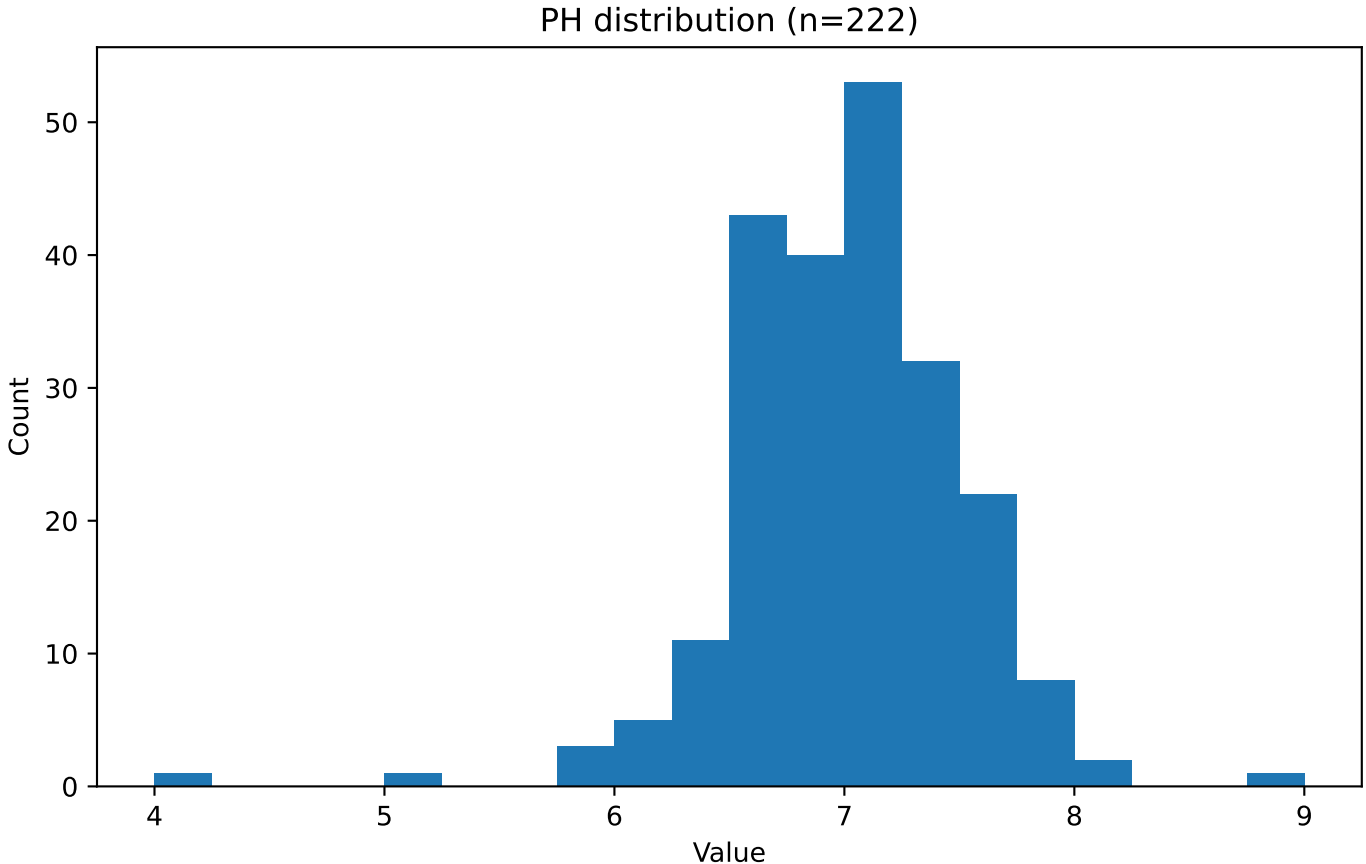
Top plain-text extract (first 4000 chars):

WATER QUALITY OF CANALS UNDER NWMP (2019) Dissolved Nitrate N + Temperature Conductivity BOD Fecal Coliform Tot
Coliform St c a o t d io e n Station Name Wa T t y e p r e B o o f d y State Name (°C) O (m xy g g / e L n) pH
(µmhos/cm) (mg/L) N (i m tr g it / e L) N (MPN/100 ML) (MPN/100 ML) Min Max Min Max Min Max Min Max Min Ma
Min Max Min Max SAMARLA KOTA CANAL, ANDHRA 2354 KAKINADA, EAST CANAL 24 30 2.6 5.5 6.8 8.6 203 525 1.2 3.4 0.
15 75 210 PRADESH GODAVARI TULJE BAGH CANAL, TEKRI ANDHRA 2355 DRAIN, KAKINADA, EAST CANAL 24 31 1.5 5.0 6.
26393 1.9 5.8 1.15 3.40 7 28 150 2400 PRADESH GODAVARI BUDAMERU CANAL NR ANDHRA 3051 BDG AT NH-5, CANAL 2
7.0 7.8 905 2179 2.6 8.4 1.28 5.20 3 4 210 1600 PRADESH KEESARAPALLY, KRISHNA ELERU CANAL NEAR ANDHRA 4356 C
5.6 7.5 7.6 8.4 249 634 1.1 2.5 0.63 2.09 7 20 69 150 PHARMA CITY PRADESH KRISHNA CANAL AT ANDHRA 4370 HANUMA
NEAR CANAL 26 27 4.2 7.0 7.0 7.9 363 849 0.8 2.8 0.70 3.36 2 21 75 800 PRADESH SAIBABA TEMPLE, ELIRU GOSTTA NAD
VELPURU CANAL AT HANUMAN ANDHRA 4374 TEMPLE, DOWNSTREAM CANAL 25 27 4.0 7.3 6.6 8.1 268 5000 1.2 3.8 0.55
1600 PRADESH OF TANUKU TOWN, ATTILI (M) WESTERN YAMUNA CANAL 1479 AT HAIDERPUR WATER CANAL DELHI 10.2 1
293 1.1 5.2 0.91 5.12 2400 35000 9200 35000 WORKS, DELHI AGRA CANAL, MADANPUR 2057 CANAL DELHI 16 32 BDL 2.
1450 10.0 58.0 0.20 0.50 1100000 16000000 2200000 16000000 KHADAR, DELHI CANAL UP STREAM OF CUNCOLIM INDL
CUNCOLIM, SALCETE (1 KM CANAL GOA 27 30 5.2 8.1 5.8 7.4 47 641 BDL 2.4 BDL 1.37 78 1100 130 2300 FROM M/S NICO
INDUSTRIES) CANAL DOWNSTREAM OF CUNCOLIM INDL.EST. 2266 CANAL GOA 27 30 4.9 8.8 5.8 7.8 52 605 BDL 2.7 BDL
490 3300 CUNCOLIM, SALCETE (NEAR RAILWAY BRIDGE) CUMBARJUA CANAL 2268 CORLIM(DISCHARGE POINT CANAL GOA
8.5 83 44510 BDL 0.8 0.02 1.08 45 2400 490 5400 OF SYNGENTA LIMITED) Dissolved Nitrate N + Temperature Conductivi
Fecal Coliform Total Coliform St c a o t d io e n Station Name Wa T t y e p r e B o o f d y State Name (°C) O (m xy g g
/ e L n) pH (µmhos/cm) (mg/L) N (i m tr g it / e L) N (MPN/100 ML) (MPN/100 ML) Min Max Min Max Min Max Min Max Min
Max Min Max Min Max Min Max NARMADA MAIN CANAL, 2073 NR. VILLAGE. LIMBADIA, CANAL GUJARAT 25 30 6.8 7.8 7.4 8
0.5 1.1 0.03 0.16 2 37 DIST. GANDHINAGAR. TAPI CANAL AT VILLAGE 2074 UMARWADA, NEAR GIDC CANAL GUJARAT 28 32
8.8 272 737 0.4 0.8 0.09 0.77 14 33 49 94 ESTATE OF PANOLI. FROM NARMADA MAIN CANAL AT INDORAHMEDABAD 4421
BRIDGE NEAR CANAL GUJARAT 25 33 7.8 8.3 7.4 8.3 253 336 0.3 0.4 0.40 0.54 2 2 4 21 VILLAGE MOTIKANTADI TAL, GODH
PANCHMAHAL WESTERN YAMUNA CANAL WC-1(Y.NAGAR)100M D/S 1109 CANAL HARYANA 19 27 4.6 8.0 7.0 8.1 135 2230
2.80 500 4000 1500 160000 AFTER RECEIVING IND.&SEW.EFFL WESTERN YAMUNA CANAL 1110 WC-2 (NEAR KARNA CANA
5.9 7.0 7.6 7.8 189 296 2.4 2.6 0.02 0.09 700 4800 1500 54200 LAKE)G.T.ROAD KARNAL WESTERN YAMUNA CANAL 1111
BRANCH AT CANAL HARYANA 19 29 3.7 9.3 6.8 8.0 146 345 1.2 2.4 0.01 0.18 400 3300 1300 21200 R.D.245250 WESTERI
CANAL C-4 BEFORE ENTER INTO 1112 CANAL HARYANA 21 29 1.5 7.8 7.4 7.9 151 2370 1.2 2.8 0.02 0.30 200 1700 900 20
BRANCH, R.D.282628 WESTERN YAMUNA CANAL 1113 WC-5 SIRSA BRANCH AT CANAL HARYANA 25 25 6.6 7.3 7.6 7.6 222


Mean Parameter Values
Mean value
0
1000
2000
3000
4000
5000
BOD
COD
PH


BOD distribution (n=203)
Count
Value
0
25
50
75
100
125
150
175
200
0
500
1000
1500
2000
2500


COD distribution (n=223)
Count
Value
0
20
40
60
80
100
0
5000
10000
15000
20000
25000
30000


PH distribution (n=222)
Count
Value
0
10
20
30
40
50
4
5
6
7
8
9

Station code	Station Name	Type of Water Bo	State Na	Tempera (°C)	col_5	col_6	Dissolved Oxyge	col_8	col_9	pH	col_11	Conducti (µmhos/	col_1	BOD (mg/L	col_1	col_1	Nitrate N + Nitrite	col_1	col_1	Fecal Coli (MPN/100	col_2	Total Colif (MPN/100	col_23
				Min		Min				Min		Min		Min		Min				Min		Min	
2354	SAMARLA KOTA CANAL KAKI	CAN	AND PRA	24	30	2.6		5.5		6.8	8.6	203	525	1.2	3.4	0.57		2.70		7	15	75	210
2355	TULJE BAGH CANAL, TEKRI DRA	CAN	AND PRA	24	31	1.5		5.0		6.6	8.2	456	2639	1.9	5.8	1.15		3.40		7	28	150	2400
3051	BUDAMERU CANAL NR BDG	CAN	AND PRA	24	28	5.0		6.4		7.0	7.8	905	2179	2.6	8.4	1.28		5.20		3	4	210	1600
4356	ELEF RHA	CAN	AND PRA	25	32	5.6		7.5		7.6	8.4	249	634	1.1	2.5	0.63		2.09		7	20	69	150
4370	KRISHNA CANAL AT GOSTHA NADI VELPURU HAN	CAN	AND PRA	26	27	4.2		7.0		7.0	7.9	363	849	0.8	2.8	0.70		3.36		2	21	75	800
4374	CANAL AT HANUMAN TEM	CAN	AND PRA	25	27	4.0		7.3		6.6	8.1	268	5000	1.2	3.8	0.55		4.81		4	15	120	1600
1479	WESTERN YAMUNA CANAL AT H	CAN	DELI			10.2		10.2		7.6	7.8	239	293	1.1	5.2	0.91		5.12		2400	3500	9200	35000
2057	AGRA CANAL UP STREAM OF WOR KHA	CAN	DELI	16	32	BDL		2.4		7.0	7.3	565	1450	10.0	58.0	0.20		0.50		1100	1600	2200	16000000
2265	CUNCOLIM INDL EST CUN	CAN	GOA	27	30	5.2		8.1		5.8	7.4	47	641	BDL	2.4	BDL		1.37		78	1100	130	2300
2266	CANAL DOWNSTREAM OF CUN	CAN	GOA	27	30	4.9		8.8		5.8	7.8	52	605	BDL	2.7	BDL		1.37		130	1700	490	3300
2268	CUMBARJUA CANAL COR OF SYNGENTA LIMITED)	CAN	GOA	26	31	4.2		6.2		5.2	8.5	83	4451	BDL	0.8	0.02		1.08		45	2400	490	5400

Station code	Station Name	Type of Water Body	State Name	Temperature (°C)	col_5	col_6	Dissolved Oxygen	col_8	col_9	pH	col_11	Conductivity (µmhos/	col_1	BOD (mg/L	col_1	col_1	Nitrate N + Nitrite	col_1	col_19	Fecal Coli (MPN/100	col_2	Total Coli (MPN/100	col_23
				Min		Min				Min		Min		Min		Min				Min		Min	
2073	NARMADA MAIN CANAL NR. V	CAN	GUJ	25	30	6.8		7.8		7.4	8.2	239	360	0.5	1.1	0.03		0.16				2	37
2074	FROM NARMADA MAIN TAPI CANAL AT VILLAGE DIST CANAL AT UMA INDORA HMEDABAD	CAN	GUJ	28	32	5.7		7.2		7.3	8.8	272	737	0.4	0.8	0.09		0.77		14	33	49	94
4421	HIGH	CAN	GUJ	25	33	7.8		8.3		7.4	8.3	253	336	0.3	0.4	0.40		0.54		2	2	4	21
1109	WESTERN YAMUNA CANAL WC- AFT	CAN	HAR	19	27	4.6		8.0		7.0	8.1	135	2230	1.8	4.0	0.01		2.80		500	4000	1500	160000
1110	WESTERN YAMUNA CANAL WC-1	CAN	HAR	26	26	5.9		7.0		7.6	7.8	189	296	2.4	2.6	0.02		0.09		700	4800	1500	54200
1111	WESTERN YAMUNA CANAL C-3	CAN	HAR	19	29	3.7		9.3		6.8	8.0	146	345	1.2	2.4	0.01		0.18		400	3300	1300	21200
1112	WESTERN YAMUNA CANAL C-4 DEL	CAN	HAR	21	29	1.5		7.8		7.4	7.9	151	2370	1.2	2.8	0.02		0.30		200	1700	900	20000
1113	WESTERN YAMUNA CANAL WC-	CAN	HAR	25	25	6.6		7.3		7.6	7.6	222	410	1.2	2.5	0.04		0.09		1700	1700	1480	17200
1114	WESTERN YAMUNA CANAL WC- RD,	CAN	HAR	21	23	3.2		8.2		7.2	8.6	250	1180	2.4	24.0	0.12		4.20		2	3910	2210	351000
1115	C-7 BRA RD-145250	CAN	HAR	20	29	1.6		7.6		7.5	7.9	140	2390	1.5	2.6	0.02		0.62		400	9200	1400	27800

Station code	Station Name	Type of Water Body	State Name	Temperature (°C)	col_5	Dissolved Oxygen (mg/l)	col_6	col_8	col_9	pH	Conductivity (µmhos/cm)	col_11	BOD (mg/l)	col_12	col_13	Nitrate N + Nitrite N (mg/l)	col_14	Fecal Coliform (MPN/100ml)	col_15	Total Coliform (MPN/100ml)	col_22	col_23
				Min		Min				Min		Min		Min		Min				Min		Min		
1116	WESTERN YAMUNA CANAL GURGAON CANAL	CAN	HAR	14	30	5.4		10.1		7.4	8.0	183	2350	0.8	2.6	0.05		3.50		25	2100	540	130000
1419	(NEA	CAN	HAR			2.6		3.9		7.0	8.3	1010	1320	18.0	32.0	3.60		5.40		3560	3970	3210	340620
1886	WESTERN YAMUNA CANAL AT	CAN	HAR	20	27	5.6		9.8		7.6	8.1	141	2150	0.6	3.5	0.01		1.86		200	1300	1400	49000
2056	AT D	CAN	HAR	24	26	6.8		8.6		7.6	8.0	186	295	1.5	3.5	0.03		0.07		200	1400	1400	12000
3461	KAN ERAL	CAN	KER	24	32	3.2		7.5		6.6	7.7	195	4310	0.2	2.1	0.10		1.18		100	4900	200	7800
3467	ONT PALAKKAD KUTHAZHA	CAN	KER	25	32	1.5		4.8		6.5	7.3	319	3000	1.0	3.6	0.03		3.01		2600	7000	5400	110000
3469	MTH PERU	CAN	KER	25	29	2.6		7.3		6.5	7.6	58	145	1.1	3.5	0.17		2.83		1500	6300	3500	8400
2836	MOR TALADANDA CANAL AT	CAN	MAN	16	28	6.7		7.8		6.6	7.6	110	374	2.3	3.7	26.0		30.0		5	35	15	150
2428	JOBF	CAN	ODIS	24	28	6.8		7.7		7.1	7.3	151	192	0.8	3.8	0.19		0.38		700	4900	3500	25000
2429	TALA NALADANDA CANAL AT	CAN	ODIS	25	28	6.4		7.4		6.7	7.7	131	192	0.6	3.4	0.18		0.78		1700	9200	2800	160000
2430	ATH INTA	CAN	ODIS	22	33	0.4		8.4		7.0	8.2	147	297	0.3	5.6	0.11		0.90		140	7900	330	17000
3950	TALA RAN	CAN	ODIS	26	28	7.2		7.6		7.2	7.5	131	191	1.5	3.7	0.23		0.36		1700	2200	4300	54000
3951	TALA CHH	CAN	ODIS	24	27	5.4		7.8		6.8	7.7	142	193	1.3	4.7	0.22		0.89		1700	3500	4900	92000
3952	TALA BIRI	CAN	ODIS	24	28	6.2		7.6		7.4	7.8	134	176	1.0	2.3	0.23		0.53		490	1700	1100	35000
3958	PUR	CAN	ODIS	23	32	6.2		11.8		7.0	8.4	172	296	0.6	1.8	0.12		2.25		78	2200	220	3900
3959	PUR JAGA	CAN	ODIS	23	34	5.5		9.3		7.3	8.3	137	280	0.6	2.4	0.11		0.27		170	2400	460	5400

Recommended Treatment Actions

• Elevated BOD: activated sludge / aerated biological treatment, improve primary settling and ret
activated sludge control.

• High COD: consider advanced oxidation processes (AOP), Fenton/ozonation, or chemical pre-tre
for industrial loads.