

# CAPE HATTERAS WATER PLANT

## Water Quality & Contaminants Analyses

## LATEST LEAD & COPPER TESTING

September 2019

**20 samples**

*Lead: 90th Percentile Level = 0 ppb (15 ppb max level)*

*Copper: 90<sup>th</sup> Percentile Level = 0 ppb (1300 ppb max level)*

*Tests run every three years*

# INORGANIC CHEMICAL ANALYSIS

October 2020

Name	Required Reporting Limit (RRL)	NOT Detected Above RRL	Quantified Results	Allowable Limits
Arsenic, mg/l	0.005	X		0.010
Barium, mg/l	0.400	X		2.000
Cadmium, mg/l	0.001	X		0.005
Chromium, mg/l	0.020	X		0.100
Cyanide, mg/l	0.040	X		0.200
Fluoride, mg/l	0.100		0.60	4.000
Iron, mg/l	0.060	X		0.300
Manganese, mg/l	0.010	X		0.050
Mercury, mg/l	0.0004	X		0.002
Nickel, mg/l	0.100	X		N/A
Selenium, mg/l	0.010	X		0.050
Sodium, mg/l	1.000		114.97	N/A
Sulfate, mg/l	5.000	X		250.0
Antimony, mg/l	0.003	X		0.006
Beryllium, mg/l	0.002	X		0.004
Thallium, mg/l	0.001	X		0.002
pH, units	N/A		7.28	6.50-8.50

*Test run every three years*

## NITRATE ANALYSIS

February 2020

Name	Required Reporting Limit (R.R.L.)	Not Detected Above R.R.L.	Allowable Limit
Nitrate, mg/l	1.00 mg/l	X	10.00 mg/l

*Test is run yearly*

## RADIOLOGICAL ANALYSIS

February 2015

Name	Required Reporting Limit (RRL)	NOT Detected (i.e. < RRL) (X)	Quantified Results	Allowable Limit
Uranium	0.67 pCi/L	X		20.10 pCi/L

*Test run every six years*

**PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)  
October 2019**

<b>Contaminant</b>	<b>Required Reporting Limit (RRL)</b>	<b>Not Detected Above RRL (X)</b>	<b>Quantified Results</b>	<b>Allowable Limits</b>
Endrin, mg/l	0.00001	X		0.002
Lindane, mg/l	0.00002	X		0.0002
Methoxychlor, mg/l	0.0001	X		0.04
Toxaphene, mg/l	0.001	X		0.003
Dalapon, mg/l	0.001	X		0.20
Di(2-ethylhexyl)adipate, mg/l	0.0006	X		0.40
Oxamyl (vydate), mg/l	0.002	X		0.20
Simazine, mg/l	0.00007	X		0.004
Picloram, mg/l	0.0001	X		0.500
Dinoseb, mg/l	0.0002	X		0.007
Hexachlorocyclopentadiene, mg/l	0.0001	X		0.050
Carbofuran, mg/l	0.0009	X		0.040
Atrazine, mg/l	0.0001	X		0.003
Alachlor, mg/l	0.0002	X		0.002
Heptachlor, mg/l	0.00004	X		0.0004
Heptachlor Epoxide, mg/l	0.00002	X		0.0002
2,4-D, mg/l	0.0001	X		0.07
2,4,5-TP (Silvex), mg/l	0.0002	X		0.05
Hexachlorobenzene, mg/l	0.0001	X		0.001
Di(2-ethylhexyl)phthalate	0.00132	X		0.006
Benzo(a)pyrene, mg/l	0.00002	X		0.0002
Pentachlorophenol, mg/l	0.00004	X		0.001
PCB's, mg/l	0.0001	X		0.0005
DBCP, mg/l	0.00002	X		0.0002
Ethylene Dibromide (EDB), mg/l	0.00001	X		0.00005
Chlordane, mg/l	0.0002	X		0.002

*Test is run every three years*

**VOLATILE ORGANIC CHEMICAL ANALYSIS (VOCs)**  
**January 2020**

Contaminant	Required Reporting Limit (RRL)	NOT Detected Above RRL (X)	Quantified Results	Allowable Limits
1, 2, 4-Trichlorobenzene, mg/l	0.0005	X		0.07
Cis-1,2-Dichloroethylene	0.0005	X		0.07
Xylenes (Total), mg/l	0.0005	X		10.00
Dichloromethane, mg/l	0.0005	X		0.005
o-Dichlorobenzene, mg/l	0.0005	X		0.600
p-Dichlorobenzene, mg/l	0.0005	X		0.075
Vinyl Chloride, mg/l	0.0005	X		0.002
1,1-Dichloroethylene, mg/l	0.0005	X		0.007
Trans-1,2-Dichloroethylene, mg/l	0.0005	X		0.100
1,2-Dichloroethane, mg/l	0.0005	X		0.005
1,1,1-Trichloroethane, mg/l	0.0005	X		0.200
Carbon Tetrachloride, mg/l	0.0005	X		0.005
1,2-Dichloropropane, mg/l	0.0005	X		0.005
Trichloroethylene, mg/l	0.0005	X		0.005
1,1,2-Trichloroethane, mg/l	0.0005	X		0.005
Tetrachloroethylene, mg/l	0.0005	X		0.005
Chlorobenzene, mg/l	0.0005	X		0.100
Benzene, mg/l	0.0005	X		0.005
Toluene, mg/l	0.0005	X		1.000
Ethylbenzene, mg/l	0.0005	X		0.700
Styrene	0.0005	X		0.100

*Test run every three years*

## TTHM/HAA<sub>5</sub> ANALYSIS

### TTHM/HAA<sub>5</sub> – Stage 2 - Disinfection Byproducts Analyses

July 2019  
Sample 01

#### TTHM ANALYSIS

Contaminant	Required Reporting Limit (R.R.L.)	Quantified Results	Allowable Limit
Total Trihalomethanes	0.0010	0.0330	0.080

#### HAA<sub>5</sub> ANALYSIS

Total Haloacetic Acids	0.0020	0.0174	0.060
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Sample 02

#### TTHM ANALYSIS

Contaminant	Required Reporting Limit (R.R.L.)	Quantified Results	Allowable Limit
Total Trihalomethanes	0.0010	0.0044	0.080

#### HAA<sub>5</sub> ANALYSIS

Total Haloacetic Acids	0.0020	0.0025	0.060
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*Test is run yearly*