

**WATER QUALITY REPORT
HUDSON, NH
EPA # 1201010**

VOLATILE ORGANIC CONTAMINANTS (b) (Units µg/L)

Analyte	Wells 7&8	Date	Well 6	Date	MCL
1,1,1,2-Tetrachloroethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,1,1-Trichloroethane	< 0.5	12/13/10	< 0.5	12/10/08	200
1,1,2,2-Tetrachloroethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,1,2-Trichloroethane	< 0.5	12/13/10	< 0.5	12/10/08	5
1,1-Dichloroethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,1-Dichloroethylene	< 0.5	12/13/10	< 0.5	12/10/08	7
1,1-Dichloropropylene	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,2,3-Trichlorobenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,2,3-Trichloropropane	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,2,4-Trichlorobenzene	< 0.5	12/13/10	< 0.5	12/10/08	70
1,2,4-Trimethylbenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,2-Dibromo-3-chloropropane	< 0.5	12/13/10	< 0.5	12/10/08	0.2
1,2-Dibromoethane	< 0.5	12/13/10	< 0.5	12/10/08	0.05
1,2-Dichlorobenzene	< 0.5	12/13/10	< 0.5	12/10/08	600
1,2-Dichloroethane	< 0.5	12/13/10	< 0.5	12/10/08	5
1,2-Dichloropropane	< 0.5	12/13/10	< 0.5	12/10/08	5
1,3,5-Trimethylbenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,3-Dichlorobenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,3-Dichloropropane	< 0.5	12/13/10	< 0.5	12/10/08	NR
1,4-Dichlorobenzene	< 0.5	12/13/10	< 0.5	12/10/08	75
2,2-Dichloropropane	< 0.5	12/13/10	< 0.5	12/10/08	NR
2-Butanone (MEK)	< 10	12/13/10	< 0.5	12/10/08	NR
2-Chlorotoluene	< 0.5	12/13/10	< 0.5	12/10/08	NR
2-Hexanone	< 10	12/13/10	< 10	12/10/08	NR
4-Chlorotoluene	< 0.5	12/13/10	< 0.5	12/10/08	NR
4-Isopropyltoluene	< 0.5	12/13/10	< 0.5	12/10/08	NR
4 Methyl-2-Pentanone (MIBK)	< 10	12/13/10	< 10	12/10/08	NR
Acetone	< 10	12/13/10	< 10	12/10/08	NR
Benzene	< 0.5	12/13/10	< 0.5	12/10/08	5
Bromobenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
Bromochloromethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
Bromodichloromethane	< 0.5	12/13/10	< 0.5	12/10/08	80
Bromoform	< 0.5	12/13/10	< 0.5	12/10/08	80
Bromomethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
Carbon Disulfide	< 0.5	12/13/10	< 0.5	12/10/08	NR
Carbon Tetrachloride	< 0.5	12/13/10	< 0.5	12/10/08	5
Chlorobenzene	< 0.5	12/13/10	< 0.5	12/10/08	100

Analyte	Wells 7&8	Date	Well 6	Date	MCL
Chloroethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
Chloroform	< 0.5	12/13/10	< 0.5	12/10/08	80
Chloromethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
cis-1, 2-Dichloroethylene	< 0.5	12/13/10	< 0.5	12/10/08	70
cis-1, 3-Dichloropropylene	< 0.5	12/13/10	< 0.5	12/10/08	NR
Dibromochloromethane	< 0.5	12/13/10	< 0.5	12/10/08	80
Dibromomethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
Dichlorodifluoromethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
Diethyl ether	< 0.5	12/13/10	< 0.5	12/10/08	NR
Diisopropyl Ether (DIPE)	< 0.5	12/13/10	< 0.5	12/10/08	NR
Ethyl Tert-Butyl Ether (ETBE)	< 0.5	12/13/10	< 0.5	12/10/08	NR
Ethylbenzene	< 0.5	12/13/10	< 0.5	12/10/08	700
Hexachlorobutadiene	< 0.5	12/13/10	< 0.5	12/10/08	NR
Isopropylbenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
m&p-Xylenes	< 0.5	12/13/10	< 0.5	12/10/08	NR
Methyl-t-butyl-ether (MtBE)	< 0.5	12/13/10	< 0.5	12/10/08	13
Methylene chloride	< 0.5	12/13/10	< 0.5	12/10/08	5
Napthalene	< 0.5	12/13/10	< 0.5	12/10/08	NR
n-Butylbenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
Nitrobenzene	< 10	12/13/10	< 10	12/10/08	NR
n-Propylbenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
o-Xylene	< 0.5	12/13/10	< 0.5	12/10/08	NR
sec Butylbenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
Styrene	< 0.5	12/13/10	< 0.5	12/10/08	100
Tert-Amyl Methyl Ether (TAME)	< 0.5	12/13/10	< 0.5	12/10/08	NR
Tert-Butyl Alcohol (TBA)	< 10	12/13/10	< 10	12/10/08	NR
Tert-Butylbenzene	< 0.5	12/13/10	< 0.5	12/10/08	NR
Tetrachloroethylene	< 0.5	12/13/10	< 0.5	12/10/08	5
Tetrahydrofuran (THF)	< 10	12/13/10	< 10	12/10/08	NR
Toluene	< 0.5	12/13/10	< 0.5	12/10/08	1000
Total THMs	< 0.5	12/13/10	< 0.5	12/10/08	80
Total Xylenes	< 0.5	12/13/10	< 0.5	12/10/08	10,000
Trans-1, 2-Dichloroethylene	< 0.5	12/13/10	< 0.5	12/10/08	100
Trans-1, 3-Dichloropropylene	< 0.5	12/13/10	< 0.5	12/10/08	NR
Trichloroethylene	< 0.5	12/13/10	< 0.5	12/10/08	5
Trichlorofluoromethane	< 0.5	12/13/10	< 0.5	12/10/08	NR
Vinyl chloride	< 0.5	12/13/10	< 0.5	12/10/08	2

DISINFECTION BY-PRODUCTS (a)

Total Trihalomethanes	40	80	8/12/10
Haloacetic Acids	3.7	60	8/12/10

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SYNTHETIC ORGANIC CONTAMINANTS (b) (Units µg/L)

Analyte	Wells 7&8	Date	Well 6	Date	MCL
2,4-D	BDL	10/27/05	BDL	10/27/05	70
Acenaphthylene	BDL	10/27/05	BDL	10/27/05	NR
Aldicarb	BDL	10/27/05	BDL	10/27/05	NR
Aldicarb Sulfoxide	BDL	10/27/05	BDL	10/27/05	NR
Anthracene	BDL	10/27/05	BDL	10/27/05	NR
Benzo (A) anthracene	BDL	10/27/05	BDL	10/27/05	NR
Benzo (B) fluoranthene	BDL	10/27/05	BDL	10/27/05	NR
Benzo (K) fluoranthene	BDL	10/27/05	BDL	10/27/05	NR
Butylbenzylphthalate	BDL	10/27/05	BDL	10/27/05	NR
Carbofuran	BDL	10/27/05	BDL	10/27/05	40
Chrysene	BDL	10/27/05	BDL	10/27/05	NR
Dibenz (A,H) anthracene	BDL	10/27/05	BDL	10/27/05	NR
Dicamba	BDL	10/27/05	BDL	10/27/05	NR
Diethylphthalate	BDL	10/27/05	BDL	10/27/05	NR
Dinoseb	BDL	10/27/05	BDL	10/27/05	7
Ethylene dibromide	BDL	10/27/05	BDL	10/27/05	0.05
Glyphosate	BDL	10/27/05	BDL	10/27/05	700
Heptachlor Epoxide	BDL	10/27/05	BDL	10/27/05	0.2
Hexachlorocyclopentadiene	BDL	10/27/05	BDL	10/27/05	50
Isophorone	BDL	10/27/05	BDL	10/27/05	NR
Methomyl	BDL	10/27/05	BDL	10/27/05	NR
Metholachlor	BDL	10/27/05	BDL	10/27/05	NR
Oxamyl	BDL	10/27/05	BDL	10/27/05	200
Phenanthrene	BDL	10/27/05	BDL	10/27/05	NR
Propachlor	BDL	10/27/05	BDL	10/27/05	NR
Silvex	BDL	10/27/05	BDL	10/27/05	50
Toxaphene	BDL	10/27/05	BDL	10/27/05	3
bis (2-Ethylhexyl) phthalate	BDL	10/27/05	BDL	10/27/05	6

Analyte	Wells 7&8	Date	Well 6	Date	MCL
3-Hydroxycarbofuran	BDL	10/27/05	BDL	10/27/05	NR
Alachlor	BDL	10/27/05	BDL	10/27/05	2
Aldicarb Sulfone	BDL	10/27/05	BDL	10/27/05	NR
Aldrin	BDL	10/27/05	BDL	10/27/05	NR
Atrazine	BDL	10/27/05	BDL	10/27/05	3
Benzo (A) pyrene	BDL	10/27/05	BDL	10/27/05	NR
Benzo (G,H,I) perylene	BDL	10/27/05	BDL	10/27/05	NR
Butachlor	BDL	10/27/05	BDL	10/27/05	NR
Carbaryl	BDL	10/27/05	BDL	10/27/05	NR
Chlordane	BDL	10/27/05	BDL	10/27/05	2
Di-n-butylphthalate	BDL	10/27/05	BDL	10/27/05	NR
Dibromochloropropane	BDL	10/27/05	BDL	10/27/05	NR
Dieldrin	BDL	10/27/05	BDL	10/27/05	NR
Dimethylphthalate	BDL	10/27/05	BDL	10/27/05	NR
Endrin	BDL	10/27/05	BDL	10/27/05	2
Fluorene	BDL	10/27/05	BDL	10/27/05	NR
Heptachlor	BDL	10/27/05	BDL	10/27/05	0.4
Hexachlorobenzene	BDL	10/27/05	BDL	10/27/05	1
Indeno (1,2,3-CD) pyrene	BDL	10/27/05	BDL	10/27/05	NR
Lindane	BDL	10/27/05	BDL	10/27/05	0.2
Methoxychlor	BDL	10/27/05	BDL	10/27/05	40
Metribuzin	BDL	10/27/05	BDL	10/27/05	NR
Pentachlorophenol	BDL	12/8/05	BDL	10/27/05	1
Picloram	BDL	10/27/05	BDL	10/27/05	500
Pyrene	BDL	10/27/05	BDL	10/27/05	NR
Simazine	BDL	10/27/05	BDL	10/27/05	4
bis (2-ethylhexyl) adipate	BDL	10/27/05	BDL	10/27/05	NR

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INORGANIC CONTAMINANTS (b)

Analyte	Wells 7&8	Date	Well 6	Date	MCL
Antimony (µg/L)	< 2	12/10/08	< 2	12/10/08	6
Arsenic (µg/L)	< 2	12/10/08	< 2	12/10/08	10
Barium (mg/L)	0.013	12/10/08	< 0.01	12/10/08	2
Beryllium (µg/L)	< 2	12/10/08	< 2	12/10/08	2
Cadmium (µg/L)	< 2	12/10/08	< 2	12/10/08	5
Chromium (µg/L)	< 10	12/10/08	< 10	12/10/08	100
Cyanide (µg/L)	< 20	12/10/08	< 20	12/10/08	200
Fluoride (mg/L)	< 0.20	12/10/08	< 0.20	12/10/08	4
Mercury (µg/L)	< 0.1	12/10/08	< 0.1	12/10/08	2
Nickel (µg/L)	< 10	12/10/08	< 10	12/10/08	100
Nitrate-N (mg/L)	2.06	12/13/10	1.06	12/13/10	10
Nitrite-N (mg/L)	< 0.2	12/8/10	< 0.05	12/10/08	1
Selenium (µg/L)	< 5	12/11/08	< 5	12/11/08	50
Thallium (µg/L)	< 1	12/12/08	< 1	12/12/08	2

FIRST DRAW LEAD AND COPPER (a)

Analyte	Results	AL	Date
Lead (µg/L) 90th percentile sample	< 5	15	2009
Copper (mg/L) 90th percentile sample	0.090	1.3	2009

Microbiological Contaminants (a)

	Results	MCL
Total Coliform	Absent	≤1/month
E. coli	Absent	Absent
Chlorine Residual (mg/L)	0.53 Avg	4

SECONDARY CONTAMINANTS (b) - AESTHETIC

Analyte	Wells 7&8	Date	Well 6	Date	MCL
Chloride (mg/L)	60	12/10/08	64	12/10/08	250
Fluoride (mg/L)	< 0.20	12/10/08	< 0.20	12/10/08	2
Iron (mg/L)	0.072	12/10/08	< 0.01	12/10/08	0.3
Manganese (mg/L)	0.145	12/10/08	0.02	12/10/08	0.05
pH (Units)	7.08	12/10/08	7.30	12/10/08	6.5 – 8.5
Silver (µg/L)	< 4	12/10/08	< 4	12/10/08	100
Sodium (mg/L)	40.5	12/10/08	42.9	12/10/08	100-250
Sulfate (mg/L)	11.4	12/10/08	12.4	12/10/08	250
Zinc (mg/L)	0.048	12/10/08	0.376	12/10/08	5

RADIOLOGICAL CONTAMINANTS (b)

Analyte (Units)	Wells 7&8	Date	Well 6	Date	MCL
Combined Radium (pCi/L)	ND - 1.56	2/8/06	ND - 0.5	2/8/06	5
Compliance Gross Alpha (pCi/L)	ND - 0.1	2/8/06	ND - 1.2	2/8/06	15
Uranium (ug/L)	ND - 0.3	2/8/06	ND - 1.3	2/8/06	30

UNREGULATED CONTAMINANTS (b)

Analyte (Units)	Wells 7&8	Date	Well 6	Date
Alkalinity as CaCO3 (mg/L)	56.5	12/10/08	55.5	12/10/08
Specific Conductance (umhos/cm2)	350	12/10/08	367	12/10/08
Total Hardness as CaCO3 (mg/L)	54.9	12/10/08	51.9	12/10/08
Hydrogen Sulfide (mg/L)	< 0.02	12/10/08	< 0.02	12/10/08
Calcium (mg/L)	18.2	12/10/08	18	12/10/08
Magnesium (mg/L)	2.3	12/10/08	1.7	12/10/08
Radon Gas (pCi/L)	948	2/7/11	621	2/7/2011

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SOURCE WATER AND TREATMENT INFORMATION

Water Source: There are three wells located in Litchfield that supply drinking water to the Hudson water system.

Treatment: Chlorination for disinfection; phosphate for corrosion control; sodium hydroxide to increase the pH and aid in corrosion control.

KEY TO ABBREVIATIONS

AL Action Level - The concentration of a contaminant which, if exceeded triggers treatment of or other requirements which a water system must follow.

MCL Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water.

SMCL Secondary Maximum Contaminant Level - The highest level of a contaminant that affects the aesthetic characteristics (taste, odor, or color) of drinking water.

NR Not Regulated - Contaminants test for but not regulated by the State or EPA.

(a) samples taken from the distribution system.

(b) samples taken from the distribution entry point.

mg/L milligrams per Liter or parts per million.

µg/L micrograms per Liter or parts per billion.

pCi/L picocuries per Liter (measure of radioactivity)

N/A Not Applicable **nd** not detected **BDL** Below Detection Level **≤** Less Than or Equal To **<** Less Than

If you have any questions about this report, or about your water quality, please call Gary Tetley, Water Quality Manager, at 1-603-913-2378 or 1-800-553-5191.

Additional information about contaminants and their potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline 1-800-426-4791.