

PENNICHUCK WATER WORKS
WATER QUALITY REPORT
RICHARDSON ESTATES - DERRY, NH
EPA # 0612130

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

Analyte	Result	MCL	Date
1,1,1,2-Tetrachloroethane	<0.5	NR	7/20/10
1,1,1,2,2-Tetrachloroethane	<0.5	NR	7/20/10
1,1-Dichloroethane	<0.5	NR	7/20/10
1,1-Dichloropropene	<0.5	NR	7/20/10
1,2,3-Trichloropropane	<0.5	NR	7/20/10
1,2,4-Trimethylbenzene	<0.5	NR	7/20/10
1,2-Dibromoethane	<0.5	NR	7/20/10
1,2-Dichloroethane	<0.5	5	7/20/10
1,3,5-Trimethylbenzene	<0.5	NR	7/20/10
1,3-Dichloropropane	<0.5	NR	7/20/10
2,2-Dichloropropane	<0.5	NR	7/20/10
Acetone	<10	NR	7/20/10
Bromobenzene	<0.5	NR	7/20/10
Bromomethane	<0.5	NR	7/20/10
Chlorobenzene	<0.5	100	7/20/10
Chloroethane	<0.5	NR	7/20/10
Chloromethane	<0.5	NR	7/20/10
Dichlorodifluoromethane	<0.5	NR	7/20/10
Ethylbenzene	<0.5	700	7/20/10
Isopropylbenzene	<0.5	NR	7/20/10
Methyl ethyl ketone	<0.5	NR	7/20/10
Methylene chloride	<0.5	5	7/20/10
Styrene	<0.5	100	7/20/10
Tetrachloromethane	<0.5	NR	7/20/10
Toluene	<0.5	1000	7/20/10
Trichlorofluoromethane	<0.5	NR	7/20/10
cis-1, 2-Dichloroethene	<0.5	70	7/20/10
m/p - Xylenes	<0.5	NR	7/20/10
n-Propylbenzene	<0.5	NR	7/20/10
o-Xylene	<0.5	NR	7/20/10
p-Isopropyltoluene	<0.5	NR	7/20/10
tert-Butylbenzene	<0.5	NR	7/20/10
trans-1, 3-Dichloropropene	<0.5	NR	7/20/10
1,1,1-Trichloroethane	<0.5	200	7/20/10

Analyte	Result	MCL	Date
1,1,2-Trichloroethane	<0.5	5	7/20/10
1,1-Dichloroethane	<0.5	7	7/20/10
1,2,3-Trichlorobenzene	<0.5	NR	7/20/10
1,2,4-Trichlorobenzene	<0.5	70	7/20/10
1,2-Dibromo - 3- chloropropane	<0.5	0.2	7/20/10
1,2-Dichlorobenzene	<0.5	600	7/20/10
1,2-Dichloropropane	<0.5	5	7/20/10
1,3-Dichlorobenzene	<0.5	NR	7/20/10
1,4-Dichlorobenzene	<0.5	75	7/20/10
2-Hexanone	<10	NR	7/20/10
Benzene	<0.5	5	7/20/10
Bromochloromethane	<0.5	NR	7/20/10
Carbon Disulfide	<0.5	NR	7/20/10
Dibromomethane	<0.5	NR	7/20/10
Diethyl ether	<0.5	NR	7/20/10
Hexachlorobutadiene	<0.5	NR	7/20/10
MIBK	<0.5	NR	7/20/10
Methyl-t-butyl-ether	<0.5	13	7/20/10
Napthalene	<0.5	NR	7/20/10
Tetrachloroethene	<0.5	5	7/20/10
Tetrahydrofuran	<10	NR	7/20/10
Trichloroethene	<0.5	5	7/20/10
Vinyl chloride	<0.5	2	7/20/10
cis-1, 3-Dichloropropene	<0.5	NR	7/20/10
n-Butylbenzene	<0.5	NR	7/20/10
o-Chlorotoluene	<0.5	NR	7/20/10
p-Chlorotoluene	<10	NR	7/20/10
sec Butylbenzene	BDL	NR	7/20/10
trans-1, 2-Dichloroethene	BDL	100	7/20/10
Bromodichloromethane	<0.5	80	7/20/10
Bromoform	<0.5	80	7/20/10
Dibromochloromethane	<0.5	80	7/20/10
Chloroform	<0.5	80	7/20/10
Total Trihalomethanes	<0.5	80	7/20/10

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

	Results	MCL	Date
1, 2-Dibromo-3-chloropropane (DBCP)	< 0.02	0.2	7/20/10
2,4,5-TP (Silvex)	< 0.25	50	7/20/10
2,4-D	< 1	70	7/20/10
3-Hydroxycarbofuran	< 1	NR	7/20/10
Alachlor	< 0.1	2	7/20/10
Aldicarb	< 1	NR	7/20/10
Aldicarb Sulfone	< 1	NR	7/20/10
Aldicarb Sulfoxide	< 1	NR	7/20/10
Aldrin	< 0.1	NR	7/20/10
Atrazine	< 0.1	3	7/20/10
Benzo(a)pyrene	< 0.1	0.2	7/20/10
Butachlor	< 0.1	NR	7/20/10
Carbaryl	< 1	NR	7/20/10
Carbofuran	< 1	40	7/20/10
Chlordane	< 0.4	2	7/20/10
Di (2-ethylhexyl) adipate	< 1	400	7/20/10
Di (2-Ethylhexyl) phthalate	< 1	6	7/20/10
Dicamba	< 0.5	NR	7/20/10
Dieldrin	< 0.1	NR	7/20/10
Dinoseb	< 1	7	7/20/10

	Results	MCL	Date
Endrin	< 0.1	2	7/20/10
Ethylene dibromide (EDB)	< 0.02	0.05	7/20/10
Glyphosate	< 10	700	7/20/10
Heptachlor	< 0.1	0.4	7/20/10
Heptachlor Epoxide	< 0.1	0.2	7/20/10
Hexachlorobenzene	< 0.1	1	7/20/10
Hexachlorocyclopentadiene	< 0.1	50	7/20/10
Lindane	< 0.1	0.2	7/20/10
Methiocarb	< 1	7	7/20/10
Metolachlor	< 0.1	40	7/20/10
Methomyl	< 1	NR	7/20/10
Methoxychlor	< 0.1	40	7/20/10
Metribuzin	< 0.1	NR	7/20/10
Oxamyl (Vydate)	< 1	200	7/20/10
Pentachlorophenol	< 0.1	1	7/20/10
Picloram	< 0.5	500	7/20/10
Propachlor	< 0.1	NR	7/20/10
Propoxur (Baygon)	< 1	NR	7/20/10
Simazine	< 0.1	4	7/20/10
Toxaphene	< 2	3	7/20/10

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INORGANIC CONTAMINANTS (b)

Analyte	Results	MCL	Date
Antimony (µg/L)	< 2	6	9/16/09
Arsenic (µg/L)	3	10	9/16/09
Barium (mg/L)	<0.01	2	9/16/09
Beryllium (µg/L)	< 2	4	9/16/09
Cadmium (µg/L)	<2	5	9/16/09
Chromium (µg/L)	<10	100	9/16/09
Cyanide (µg/L)	<0.02	200	9/16/09
Fluoride (mg/L)	0.27	4	9/16/09
Lead (µg/L)	<5	AL=15	9/16/09
Mercury (µg/L)	<0.1	2	9/16/09
Nickel (µg/L)	<10	100	9/16/09
Nitrate-N (mg/L)	< 0.2	10	7/26/11
Nitrite-N (mg/L)	< 0.05	1	9/16/09
Selenium (µg/L)	<5	50	9/16/09
Thallium (µg/L)	<1	2	9/16/09

SECONDARY CONTAMINANTS (b) - AESTHETIC

Analyte	Results	SMCL	Date
Aluminum (mg/L)	Deleted	0.05	9/16/09
Chloride (mg/L)	55	250	9/16/09
Color (color units)	Deleted	15	9/16/09
Copper (mg/L)	<.01	AL=1.3	9/16/09
Fluoride (mg/L)	0.27	2	9/16/09
Iron (µg/L)	51	300	9/16/09
Manganese (µg/L)	62	50	9/16/09
pH (Units)	7.78	6.5 – 8.5	9/16/09
Silver (µg/L)	<4	100	9/16/09
Sodium (mg/L)	13.8	100-250	9/16/09
Sulfate (mg/L)	25.4	250	9/16/09
Total Dissolved Solids (mg/L)	Deleted	500	9/16/09
Zinc (mg/L)	0.011	5	9/16/09
Sulfide (mg/L)	<0.02		9/16/09

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	0.131	1.3	2009

RADIOLOGICAL CONTAMINANTS (b)

Analyte (Units)	Results	MCL	Date
Adjusted Gross Alpha (pCi/L)	1.5	15	10/20/05
Radon Gas (pCi/L)	1400	None	4/20/10
Radium-226 (pCi/L)	0.5	5	10/20/05
Radium-228 (pCi/L)	0.4	5	10/20/05
Uranium (ug/L)	5.1	30	10/20/05

Microbiological Contaminants (a)

Results	MCL	Date
Total Coliform	Absent ≤ 1/month	Monthly
E. coli	Absent	Monthly

UNREGULATED CONTAMINANTS (b)

Analyte (Units)	Results	Date
Alkalinity as CaCO ₃ (mg/L)	71.5	9/16/09
Calcium (mg/L)	48	9/16/09
Chlorine Residual (mg/L)	None	n/a
Hydrogen Sulfate (mg/L)	<0.02	9/16/09

Analyte (Units)	Results	Date
Specific Conductance (umhos/cm ²)	391	9/16/09
Total Hardness as CaCO ₃ (mg/L)	136	9/16/09
Magnesium (mg/L)	3.8	9/16/09

SOURCE WATER AND TREATMENT INFORMATION

Water Source: Bedrock Well 20 feet North of the Pumphouse.

Treatment: Sand separator

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 < Less Than

CONTACT INFORMATION

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.