



LABORATORY REPORT

Client: Jane Dow
110 S.Hill str
Anytown, NO 11111

Report #: 152303

Sample Site: Kitchen Sink-Basement/Church
Collection Date: 11/20/2011

Received: 11/21/2011
Reported: 11/28/2011

At-A-Glance Testing Results (detailed results on following pages)

Bacteriologicals	Green
Regulated Metals	Yellow
Inorganics	Red
Volatiles	Green
Herbicides	Green
Pesticides	Green
Industrial Chemicals	Green
Radionuclides	Not Tested
<hr/>	
Aesthetics	Yellow

- Legend:**
- Green** = no detections at or above the Reporting Limit
 - Yellow** = contaminants detected below Federal Limit
 - Red** = contaminants detected at or above Federal Limit
 - Orange** = aesthetics contaminants detected at or above Federal Secondary or recognized Limits

Thank you for choosing DrinkWell. We appreciate the opportunity to provide you with this report.

Your laboratory results were reviewed and approved by Lead Scientist:

R.D.

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Contaminants Detected with Related Health Effects & Aesthetics Conditions

Below please find a summary of detections for the sample you submitted. The source of any health effect language used in this report is the Federal Register or other United States Environmental Protection Agency (EPA) documents. For more information on health effects in drinking water, please visit www.epa.gov/safewater. The risk of health problems from exposure to these contaminants depends on several factors. If you have health effect concerns related to your drinking water, you may wish to contact a medical professional such as, your county health department, your doctor or other health care professional and/or Memorial Health System in South Bend, Indiana via access to the nurse call center contact information provided in this report. This does not imply UL's endorsement of any of these health care providers and UL assumes no responsibility or liability for any medical advice given to Customer by any party.

Sources for aesthetic effect language is the EPA and Rutgers University, Interpreting Drinking Water Quality Analysis, 5th Edition. Shelton, Theodore B. Ph.D.

Health Related Contaminants

Copper

Copper was detected at 12 ug/L which is less than the Action Level of 1300 ug/L.

Fluoride

Fluoride was detected at 0.2 mg/L which is less than the Federal MCL of 4.0 mg/L.

Turbidity

Turbidity was detected at 0.4 NTU which is greater than the Federal MCL of 0.3 NTU. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

Aesthetic Related Contaminants

Total Alkalinity

Total Alkalinity was detected at 280 mg/L as CaCO₃. There is no Federal Limit for this contaminant.

Total Hardness

Total Hardness was detected at 27 mg/L as CaCO₃. There is no Federal Limit for this contaminant.

Manganese

Manganese was detected at 12 ug/L which is less than the Federal SMCL of 50 ug/L.

Sodium

Sodium was detected at 120 mg/L. There is no Federal Limit for this contaminant. Sodium levels in drinking water are usually low and unlikely to be a significant contribution to adverse health effects. The Institute of Medicine of the National Academies of Science recommends 1,500 mg is an adequate sodium intake for adults between the ages of 19 and 50. The recommendation is

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Contaminants Detected with Related Health Effects & Aesthetics Conditions

Aesthetic Related Contaminants (continued)

decreased to 1,300 mg/day for adults between 50 and 70 years and to 1,200 mg/day for adults over 70. In addition, it is recommended that total dietary intake be limited to no more than 2,300 mg/day. Sodium is not a regulated parameter in drinking water, however the U.E. EPA has recommended 20 mg/L as a guideline for those individuals on a very low sodium diet (500 mg/day) and 30 to 60 mg/L as levels where the taste of water may be affected.

Dissolved Solids

Dissolved Solids was detected at 390 mg/L which is less than the Federal SMCL of 500 mg/L.

Sulfate

Sulfate was detected at 30 mg/L which is less than the Federal SMCL of 250 mg/L.

Zinc

Zinc was detected at 19 ug/L which is less than the Federal SMCL of 5000 ug/L.

Nurse Call Center

If you have questions related to the health effects of contaminants listed in this report, you may call 574-647-2222 or email the Nurse Call Center between 8 am and 8 pm Eastern Standard Time. Please give your report number to the nurse when calling or emailing. Please note that the nurses are not trained to assist you with water testing, plumbing, well or computer issues. Your county health department is a good source to contact with questions about your well or well water. You can find the health department phone number in your local phone directory under Government Agencies.

EPA

For EPA information on drinking water treatment units and the contaminants they remove, please visit: www.epa.gov/seahome/groundwater/src/treata.htm.

County Health Office

Your local county health office may have information regarding private well water treatment including well disinfection for total coliform. Homeowners with a positive result for total coliform are encouraged to contact their county health office for further advice. Contact information may be found in the government section of your phone directory.

Water Treatment Professional

A water treatment professional in your area may have information regarding private well water treatment. Contact information for water treatment system companies may be found in the yellow pages of your phone directory.

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Definitions

mg/L

1 mg/L or milligram per liter represents 1 part per million (ppm). An example of a part per million is one cent in \$10,000.

ug/L

1 ug/L or microgram per liter represents 1 part per billion (ppb). An example of a part per billion is one cent in \$10 million.

Action Level

The concentration of a contaminant which, if exceeded, triggers treatment or other actions which a public water system must take.

Aesthetics

Contaminant which may affect water quality such as taste, color or odor.

Federal Limit

Maximum allowable concentration of a contaminant in a public water supply. This applies to primary and secondary limits.

Health Effect

The source of any health effect language used in the DrinkWell reports is the Federal Register or other USEPA documents. For more information on health effects in drinking water, please visit www.epa.gov/safewater.

Herbicide

A chemical compound, usually synthetic, used to control weeds.

Industrial Chemical

Chemicals used or produced primarily in industrial applications.

Inorganic Contaminants (IOC)

Mineral-based compounds such as metals and nitrates. These contaminants are naturally occurring in some water, but can also enter water through farming, chemical manufacturing and other human activities.

Maximum Contaminant Level (MCL)

The highest concentration of a contaminant that is allowed in drinking water. MCLs are set as close to the Maximum Contaminant Level Goal (MCLG) as feasible using the best available treatment technology and taking cost into consideration.

Maximum Contaminant Level Goal (MCLG)

The concentration of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable health goals.

N/A

Not Applicable.

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Definitions (continued)

ND

None Detected. The contaminant was not detected above the lowest reportable value by the procedure used for analysis.

NTU

NTU stands for Nephelometric Turbidity Unit which is the unit used to measure turbidity in water. Turbidity refers to the scattering and absorption of light rather than transmission caused by suspended matter such as clay, dissolved organic material and microscopic organisms.

Organic Contaminants

Carbon-based chemicals, such as solvents and pesticides, which can enter drinking water supplies through runoff from cropland, discharges from industrial operations, underground tanks, spills and other sources.

Pesticide

A synthetic chemical, used to control pests such as insects and other invertebrates such as worms and nematodes.

Primary Drinking Water Standards

Legally enforceable standards established by the Federal government that apply to public water systems. These standards limit the concentrations of specific contaminants that can adversely affect public health and which are known or anticipated to occur in public water supplies.

Radionuclide

An unstable form of a chemical element that radioactively decays, resulting in the emission of nuclear radiation.

Reporting Limit

The lowest concentration at which a contaminant is reported.

Secondary Drinking Water Standards

Non-enforceable federal guidelines regarding cosmetic effects (such as tooth or skin discoloration) or aesthetic effects (such as taste, odor or color) of drinking water.

Secondary Maximum Contaminant Level (SMCL)

Non-enforceable federal limits set for contaminants included in the Secondary Drinking Water Standards. The purpose of these limits is to assist public water systems in managing their drinking water for aesthetic considerations.

Volatile Organic Contaminant (VOC)

Group of organic chemicals characterized by their volatility (ability to evaporate). Volatile organic contaminants are widely used in the manufacture of plastics, clothing and other common household items.

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**Testing Results
Detail**

Contaminant	Result	Reporting Limit	Federal Limit
Bacteriologicals			
Total Coliform	Absent	Absent	Absent
<i>E. coli</i>	Absent	Absent	Absent

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**Testing Results
Detail**

Contaminant	Result	Reporting Limit	Federal Limit
Regulated Metals			
Antimony	ND	2 ug/L	6 ug/L
Arsenic	ND	5 ug/L	10 ug/L
Barium	ND	5 ug/L	2000 ug/L
Beryllium	ND	1 ug/L	4 ug/L
Cadmium	ND	1 ug/L	5 ug/L
Chromium	ND	5 ug/L	100 ug/L
Copper	12 ug/L	5 ug/L	1300 ug/L
Lead	ND	5 ug/L	15 ug/L
Selenium	ND	10 ug/L	50 ug/L
Thallium	ND	1 ug/L	2 ug/L
Uranium	ND	5 ug/L	30 ug/L

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Testing Results Detail

Contaminant	Result	Reporting Limit	Federal Limit
Inorganics			
Fluoride	0.2 mg/L	0.1 mg/L	4.0 mg/L
Nitrate	ND	1 mg/L	10 mg/L
Nitrite	ND	0.1 mg/L	1 mg/L
Turbidity*	0.4 NTU	0.1 NTU	0.3 NTU

* The accuracy of the test results for turbidity may be significantly affected by the elapsed time from sampling to analysis. On-site confirmation of turbidity is recommended before the installation of treatment equipment to correct reported deficiencies of turbidity in the quality of your water.

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**Testing Results
 Detail**

Contaminant	Result	Reporting Limit	Federal Limit
Aesthetics			
Total Alkalinity	280 mg/L as CaCO3	10 mg/L as CaCO3	N/A
Aluminum	ND	5 ug/L	50 to 200 ug/L
Chloride	ND	10 mg/L	250 mg/L
Total Hardness **	27 mg/L as CaCO3	10 mg/L as CaCO3	N/A
Iron	ND	0.1 mg/L	0.3 mg/L
Manganese	12 ug/L	5 ug/L	50 ug/L
pH***	7.2	N/A	6.5 - 8.5
Silver	ND	5 ug/L	100 ug/L
Sodium	120 mg/L	1.0 mg/L	N/A
Dissolved Solids	390 mg/L	50 mg/L	500 mg/L
Sulfate	30 mg/L	10 mg/L	250 mg/L
Zinc	19 ug/L	5 ug/L	5000 ug/L

** The EPA has not established a limit for total hardness but water can be classified as soft (0-75 mg/L CaCO3), moderately hard (75-150 mg/L CaCO3), hard (150-300 mg/L CaCO3) and very hard (> 300 mg/L CaCO3).

*** The accuracy of the test results for pH may be significantly affected by the elapsed time from sampling to analysis. On-site confirmation of pH is recommended before the installation of treatment equipment to correct reported deficiencies of pH in the quality of your water.

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**Testing Results
 Detail**

Contaminant	Result	Reporting Limit	Federal Limit
Volatiles			
1,1,1-Trichloroethane	ND	0.5 ug/L	200 ug/L
1,1,2-Trichloroethane	ND	0.5 ug/L	5 ug/L
1,1-Dichloroethylene	ND	0.5 ug/L	7 ug/L
1,2,4-Trichlorobenzene	ND	0.5 ug/L	70 ug/L
1,2-Dibromoethane (EDB)	ND	0.05 ug/L	0.05 ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.2 ug/L	0.2 ug/L
1,2-Dichlorobenzene	ND	0.5 ug/L	600 ug/L
1,2-Dichloroethane	ND	0.5 ug/L	5 ug/L
1,2-Dichloropropane	ND	0.5 ug/L	5 ug/L
1,4-Dichlorobenzene	ND	0.5 ug/L	75 ug/L
Benzene	ND	0.5 ug/L	5 ug/L
Bromodichloromethane ****	ND	0.5 ug/L	80 ug/L
Bromoform ****	ND	0.5 ug/L	80 ug/L
Carbon tetrachloride	ND	0.5 ug/L	5 ug/L
Chlorobenzene	ND	0.5 ug/L	100 ug/L
Chloroform ****	ND	0.5 ug/L	80 ug/L
cis-1,2-Dichloroethylene	ND	0.5 ug/L	70 ug/L
Dibromochloromethane ****	ND	0.5 ug/L	80 ug/L
Dichloromethane	ND	0.5 ug/L	5 ug/L
Ethylbenzene	ND	0.5 ug/L	700 ug/L
Methyl-t-butyl ether (MTBE)	ND	0.5 ug/L	N/A
Styrene	ND	0.5 ug/L	100 ug/L
Tetrachloroethylene	ND	0.5 ug/L	5 ug/L
Toluene	ND	0.5 ug/L	1000 ug/L
trans-1,2-Dichloroethylene	ND	0.5 ug/L	100 ug/L
Trichloroethylene	ND	0.5 ug/L	5 ug/L
Vinyl chloride	ND	0.5 ug/L	2 ug/L
Xylene (1,2-) *****	ND	0.5 ug/L	10,000 ug/L

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Detail**

Contaminant	Result	Reporting Limit	Federal Limit
Volatiles			
Xylenes (1,3 + 1,4-)*****	ND	0.5 ug/L	10,000 ug/L

**** The Federal Limit of 80 ug/L is for Total Trihalomethanes which comprise Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

***** The Federal Limit of 10,000 ug/L is for Xylenes which comprise 1,2-Xylene, 1,3-Xylene and 1,4-Xylene.

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Detail**

Contaminant	Result	Reporting Limit	Federal Limit
Herbicides			
2,4,5-TP (Silvex)	ND	2.5 ug/L	50 ug/L
2,4-D	ND	5 ug/L	70 ug/L
Acetochlor	ND	0.5 ug/L	N/A
Alachlor	ND	0.5 ug/L	2 ug/L
Atrazine	ND	0.5 ug/L	3 ug/L
Cyanazine	ND	0.5 ug/L	N/A
Dalapon	ND	2.5 ug/L	200 ug/L
Dinoseb	ND	0.5 ug/L	7 ug/L
Endothall	ND	50 ug/L	100 ug/L
Glyphosate	ND	100 ug/L	700 ug/L
Metolachlor	ND	0.5 ug/L	N/A
Pentachlorophenol	ND	0.5 ug/L	1 ug/L
Picloram	ND	5 ug/L	500 ug/L
Simazine	ND	0.5 ug/L	4 ug/L

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Detail**

Contaminant	Result	Reporting Limit	Federal Limit
Pesticides			
2,4,6-Trichlorophenol	ND	10 ug/L	N/A
Carbofuran	ND	5 ug/L	40 ug/L
Chlordane	ND	1 ug/L	2 ug/L
Endrin	ND	0.5 ug/L	2 ug/L
Heptachlor	ND	0.2 ug/L	0.4 ug/L
Heptachlor epoxide	ND	0.2 ug/L	0.2 ug/L
Lindane	ND	0.2 ug/L	0.2 ug/L
Methoxychlor	ND	0.5 ug/L	40 ug/L
Oxamyl	ND	5 ug/L	200 ug/L
Toxaphene	ND	2 ug/L	3 ug/L

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Contaminant	Result	Reporting Limit	Federal Limit
Industrial Chemicals			
Aroclor 1016(PCB)*****	ND	0.08 ug/L	N/A
Aroclor 1221(PCB)*****	ND	2 ug/L	N/A
Aroclor 1232(PCB)*****	ND	0.5 ug/L	N/A
Aroclor 1242(PCB)*****	ND	0.3 ug/L	N/A
Aroclor 1248(PCB)*****	ND	0.1 ug/L	N/A
Aroclor 1254(PCB)*****	ND	0.1 ug/L	N/A
Aroclor 1260(PCB)*****	ND	0.2 ug/L	N/A
Benzo[a]pyrene	ND	0.2 ug/L	0.2 ug/L
Di(2-ethylhexyl)adipate	ND	0.5 ug/L	400 ug/L
Di(2-ethylhexyl)phthalate	ND	3 ug/L	6 ug/L
Hexachlorobenzene	ND	0.5 ug/L	1 ug/L
Hexachlorocyclopentadiene	ND	2 ug/L	50 ug/L

***** The Federal Limit for total PCBs is 0.5 ug/L as decachlorobiphenyl (DCB). If any of the arochlor contaminants were detected, the laboratory will contact you to perform confirmation testing to determine total PCBs.