

2014 WATER QUALITY REPORT FOR OSCEOLA RURAL WATER SYSTEM-NORTH

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	LRAA	71.00 (71 - 71)	09/30/2014	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	LRAA	24.00 (24 - 24)	09/30/2014	No	By-products of drinking water disinfection
Lead (ppb)	AL=15 (0)	90th	3.00 (ND - 10)	2014	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.3 (ND - 0.49)	2014	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
950 - DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	1.4 (0.5 - 2.15)	12/31/2014	No	Water additive used to control microbes
01 - ALL ACTIVE WELLS/AFTER TREATMENT @ PLANT						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	6.9	01/17/2012	No	Erosion of natural deposits
Barium (ppm)	2 (2)	SGL	0.05	06/19/2013	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	0.41	06/19/2013	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	8.3	06/19/2013	No	Erosion of natural deposits; Added to water during treatment process

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- Maximum Contaminant Level (MCL) – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) -- The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- ppb -- parts per billion.
- ppm -- parts per million.
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- RAA – Running Annual Average
- LRAA – Locational Running Annual Average
- Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

- Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- SGL – Single Sample Result
- TCR – Total Coliform Rule

GENERAL INFORMATION

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water posed a health risk. More information about contaminants or potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. OSCEOLA RURAL WATER SYSTEM-NORTH is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the Little Sioux sand and gravel of the Alluvial aquifer. The Alluvial aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. The Alluvial wells will be highly susceptible to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from the Water Operator at 712-735-6795.

This water supply obtains its water from the sandstone of the Dakota aquifer. The Dakota aquifer was determined to have low susceptibility to contamination because the characteristics of the aquifer and overlying materials provide natural protection from contaminants at the land surface. The Dakota well will have low susceptibility to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from the Water Operator at 712-735-6795.

CONTACT INFORMATION

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact OSCEOLA RURAL WATER SYSTEM-NORTH at 712-735-6795.

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Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

PWS ID/Name	IA7227701	Osceola Rural Water System - North		
Sample Event Code/Sample Schedule	SE1	April, 2014		
Facility ID/Name	90001	Treatment Plant		
Sample Point ID/Type/Name	EP001	EP	Control Room Tap	
Disinfectant Type ¹	CLGA			

106558Q	EPA 200.8	chromium	4/22/2014	<0.2
106558Q	EPA 200.8	cobalt	4/22/2014	<1
106558Q	EPA 200.8	germanium	4/22/2014	<1
106558Q	EPA 200.8	manganese	4/22/2014	=2.32
106558Q	EPA 200.8	molybdenum	4/22/2014	=3.29
106558Q	EPA 200.8	strontium	4/22/2014	=279
106558Q	EPA 200.8	tellurium	4/22/2014	<1
106558Q	EPA 200.8	vanadium	4/22/2014	<0.2
106558Q	EPA 218.7	chromium-6	4/22/2014	<0.03
106558Q	EPA 300.1	chlorate	4/22/2014	<20
106558Q	EPA 522	1,4-dioxane	4/22/2014	<0.07
106558Q	EPA 524.3	1,1-dichloroethane	4/22/2014	<0.03
106558Q	EPA 524.3	1,2,3-trichloropropane	4/22/2014	<0.03
106558Q	EPA 524.3	1,3-butadiene	4/22/2014	<0.1
106558Q	EPA 524.3	bromomethane	4/22/2014	<0.2
106558Q	EPA 524.3	chloromethane	4/22/2014	<0.2
106558Q	EPA 524.3	Halon 1011	4/22/2014	<0.06
106558Q	EPA 524.3	HCFC-22	4/22/2014	<0.08
106558Q	EPA 524.3	n-propylbenzene	4/22/2014	<0.03
106558Q	EPA 524.3	sec-butylbenzene	4/22/2014	<0.04
106558Q	EPA 537	PFBS	4/22/2014	<0.09
106558Q	EPA 537	PFHpA	4/22/2014	<0.01
106558Q	EPA 537	PFHxS	4/22/2014	<0.03
106558Q	EPA 537	PFNA	4/22/2014	<0.02
106558Q	EPA 537	PFOA	4/22/2014	<0.02
106558Q	EPA 537	PFOS	4/22/2014	<0.04

Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

Facility ID/Name	99001	Distribution System
Sample Point ID/Type/Name	MR001	MR B. Voss
Disinfectant Type ¹	CLGA	

306641P	EPA 200.8	chromium	4/22/2014	<0.2
306641P	EPA 200.8	cobalt	4/22/2014	<1
306641P	EPA 200.8	germanium	4/22/2014	<1
306641P	EPA 200.8	manganese	4/22/2014	=1.54
306641P	EPA 200.8	molybdenum	4/22/2014	=3.23
306641P	EPA 200.8	strontium	4/22/2014	=269
306641P	EPA 200.8	tellurium	4/22/2014	<1
306641P	EPA 200.8	vanadium	4/22/2014	<0.2
306641P	EPA 218.7	chromium-6	4/22/2014	<0.03
306641P	EPA 300.1	chlorate	4/22/2014	<20

¹Disinfectant types were collected for EPA Method 300.1: Gaseous Chlorine (CLGA), Offsite Generated Hypochlorite (CLOF), Onsite Generated Hypochlorite (CLON), Chloramine-formed from gaseous chlorine (CAGC), Chloramine-formed from offsite hypochlorite (CAOF), Chloramine-formed from onsite hypochlorite (CAON), Chlorine Dioxide (CLDO), Ozone (OZON), Ultraviolet Light (ULVL), Other (OTHD), No Disinfectant Used (NODU).

²In addition to reporting occurrence data for UCMR3 target analytes, EPA tasked its small-system contract-support laboratories with reporting results for sec-butylbenzene, n-propylbenzene, tellurium, germanium, and manganese. These additional unregulated analytes are within the scope of the methods already being performed for the UCMR analytes. The CCR reporting requirement does not apply to these additional analytes.

³Results less than the minimum reporting level (MRL) are displayed with a less than sign (<) and the MRL. Reported values equal to or greater than the MRL are displayed with an equal sign (=) and the reported value from the laboratory. No data reportable (NDR) indicates that EPA could not obtain valid data for this contaminant during the scheduled sampling event.

⁴A detection of a UCMR3 analyte above the MRL does not represent cause for concern, in itself. The implications of the detection should be judged considering health effects information, which is often still under development or being refined for unregulated contaminants. For more information on occurrence data consult "UCMR 3 Data Considerations, Definitions, Reference Concentrations and Summary PDF" at <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/data.cfm#ucmr2013>.

Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

PWS ID/Name	IA7227701	Osceola Rural Water System - North
Sample Event Code/Sample Schedule	SE2	October, 2014
Facility ID/Name	90001	Treatment Plant
Sample Point ID/Type/Name	EP001	EP Control Room Tap
Disinfectant Type ¹	CLGA	

Sample Kit ID	Method ID	Analyte Name ²	Collection Date	Reported Value ³ (µg/L) ⁴
109411Q	EPA 200.8	chromium	10/15/2014	<0.2
109411Q	EPA 200.8	cobalt	10/15/2014	<1
109411Q	EPA 200.8	germanium	10/15/2014	<1
109411Q	EPA 200.8	manganese	10/15/2014	=1.51
109411Q	EPA 200.8	molybdenum	10/15/2014	=3.26
109411Q	EPA 200.8	strontium	10/15/2014	=291
109411Q	EPA 200.8	tellurium	10/15/2014	<1
109411Q	EPA 200.8	vanadium	10/15/2014	<0.2
109817R	EPA 218.7	chromium-6	11/18/2014	=0.0561
109411Q	EPA 300.1	chlorate	10/15/2014	<20
109411Q	EPA 522	1,4-dioxane	10/15/2014	<0.07
109411Q	EPA 524.3	1,1-dichloroethane	10/15/2014	<0.03
109411Q	EPA 524.3	1,2,3-trichloropropane	10/15/2014	<0.03
109411Q	EPA 524.3	1,3-butadiene	10/15/2014	<0.1
109411Q	EPA 524.3	bromomethane	10/15/2014	<0.2
109411Q	EPA 524.3	chloromethane	10/15/2014	<0.2
109411Q	EPA 524.3	Halon 1011	10/15/2014	<0.06
109411Q	EPA 524.3	HCFC-22	10/15/2014	<0.08
109411Q	EPA 524.3	n-propylbenzene	10/15/2014	<0.03
109411Q	EPA 524.3	sec-butylbenzene	10/15/2014	<0.04
109817R	EPA 537	PFBS	11/18/2014	<0.09
109817R	EPA 537	PFHpA	11/18/2014	<0.01
109817R	EPA 537	PFHxS	11/18/2014	<0.03
109817R	EPA 537	PFNA	11/18/2014	<0.02
109817R	EPA 537	PFOA	11/18/2014	<0.02
109817R	EPA 537	PFOS	11/18/2014	<0.04

Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

Facility ID/Name	99001	Distribution System
Sample Point ID/Type/Name	MR001	MR B. Voss
Disinfectant Type ¹	CLGA	

Sample Kit ID	Method ID	Analyte Name ²	Collection Date	Reported Value ³ (µg/L) ⁴
309333P	EPA 200.8	chromium	10/15/2014	<0.2
309333P	EPA 200.8	cobalt	10/15/2014	<1
309333P	EPA 200.8	germanium	10/15/2014	<1
309333P	EPA 200.8	manganese	10/15/2014	=1.41
309333P	EPA 200.8	molybdenum	10/15/2014	=3.39
309333P	EPA 200.8	strontium	10/15/2014	=297
309333P	EPA 200.8	tellurium	10/15/2014	<1
309333P	EPA 200.8	vanadium	10/15/2014	<0.2
309818R	EPA 218.7	chromium-6	11/18/2014	=0.0441
309333P	EPA 300.1	chlorate	10/15/2014	<20

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