

CITY OF JOHN DAY

2016

Annual Drinking Water Quality Report

City of John Day Public Works is very pleased to provide you with this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources.

We would also like to announce that this year's Consumer Confidence Report is available online at our city website www.cityofjohnday.com/publicworks and can be requested as a paper copy by contacting City Hall.

Is my water safe?

We are pleased to report that our drinking water is safe and meets federal and state requirements. Chlorine is added to the water for disinfection. A polyphosphate product is also added to our water system to improve water clarity. This report is a snapshot of last year's water quality and designed to inform you about the quality water and services we deliver to you every day.

Where does my water come from?

Our goal is to provide you with a safe and dependable supply of drinking water. Our water sources include three deep wells and a spring. The wells are located on the North side of the John Day River off NW & NE Seventh Street. Long Gulch Spring is located on the south side of the John Day River along the East Side of Highway 395 between John Day and Canyon City.

Prior reporting was done on each well, however in July of 2003 wells 2, 3,4 and 5 were given what is termed "Well field Designation" which means that it has been determined that all four of these wells are drawing from the same aquifer, hence saving the City additional testing costs. Well number 5 was designated as the sample point. The water hardness is 186 mg/L, Iron content is 0.07, and Manganese content is 0.13.

How can I get involved?

We want our valued customers to be informed about their water utility. If you want to learn more, please contact the City of John Day, or attend any of our regularly scheduled City Council meetings. They are held on the second and fourth Tuesday of each month.

Health information

City of John Day routinely monitors for constituents in your drinking water according to Federal and State laws. This list shows the results of our monitoring for the period of January 1st to December 31st, 2016 in accordance with state and federal regulations.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Why are there contaminants in my drinking water?

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 poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791). The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity:

microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Additional Information for Lead

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. The City of John Day 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>.

Test Results

The items listed below were the contaminants tested for in John Day's water during the last monitoring period. Note that all parameters listed meet or surpass State and Federal drinking water standards. In order to determine the susceptibility of the City's wells to contaminate such as giardia and cryptosporidium, the state health division required us to test raw source water for total coliform as an indicator of potential surface water contamination. Long Gulch Spring had one positive test for Total Coliform bacteria but additional mandatory follow-up tests showed negative results. Samples from both well number 3 and 5 tested negative for Total Coliform bacteria. The State requires us to test all of our sites individually for Nitrates. All of our sources came back ND. The city had no violations in 2016.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Violation	Typical Source
Nitrate [measured as Nitrogen] (ppm)	10	10	ND	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Haloacetic Acids (HAA5) (ppb)	NA	60		No	By-product of drinking water chlorination
TTHMs [Total Trihalomethanes] (ppb)	NA	80		No	By-product of drinking water disinfection

For results concerning Haloacetic Acids and Total Trihalomethanes, please refer to the **By-Product Test Report** on our city website.

As you can see, our system had no violations and we are proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water **IS SAFE** at these levels and we are proud to announce that we received a certificate of outstanding water system from the State.

For more information regarding this year's Consumer Confidence Report or the City of John Day's drinking water system contact Monte Legg through City Hall.

Monte Legg
Director of Public Works
The City of John Day
450 East Main
John Day, OR 97845
541-575-0028

Vocabulary

Unit Descriptions	
Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
NA	NA: not applicable
ND	ND: Not detected
NR	NR: Monitoring not required, but recommended.

Important Drinking Water Definitions	
Term	Definition
MCLG	MCLG: Maximum Contaminant Level Goal: 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.
MCL	MCL: Maximum Contaminant Level: 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.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection level goal. 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.
MRDL	MRDL: Maximum residual disinfectant level. 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.
MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

CLIENT: Box R Waterlab
Project: X023776-77 City of John Day
Lab Order: 1609836

Date: 03-Oct-16

CASE NARRATIVE

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Box R Waterlab

567 NW Second Street
Prineville, OR 97754

Lab Order: 1609836

NRC Sample ID: 1609836-01A

Collection Date: 9/19/2016 9:15:00 AM

Received Date: 9/20/2016 10:05:00 AM

Reported Date: 10/3/2016 12:29:57 PM

X023776-77 City of John Day

X023776 - 2DBP-01

X023777 - 2DBP-02,

PWS ID#: 41-00410

Source ID: DIST-A

Sample Comp:

Client Sample ID: 2DBP-01

Sample Location: West Reservoir #5 Tap

Collectors Name: CM

ANALYTICAL RESULTS

Analyses	Code	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Chloroform	2941	EPA 524.2	A	0.00233		0.0005	mg/L		9/30/2016	KCM
Bromodichloromethane	2943	EPA 524.2	A	0.00154		0.0005	mg/L		9/30/2016	KCM
Dibromochloromethane	2944	EPA 524.2	A	0.00146		0.0005	mg/L		9/30/2016	KCM
Bromoform	2942	EPA 524.2	A	0.000730		0.0005	mg/L		9/30/2016	KCM
Total Trihalomethanes	2950	EPA 524.2	A	0.00606		0.0005	mg/L	0.08	9/30/2016	KCM
Surr: 4-Bromofluorobenzene		EPA 524.2		103		0	%REC		9/30/2016	KCM
Surr: Dibromofluoromethane		EPA 524.2		96.4		0	%REC		9/30/2016	KCM
Surr: Toluene-d8		EPA 524.2		97.6		0	%REC		9/30/2016	KCM

Notes: ND - Not Detected at the MRL
MDL = Method Detection Limit

N.L. = No Limit

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Box R Waterlab

567 NW Second Street
Prineville, OR 97754

Lab Order: 1609836

NRC Sample ID: 1609836-02A

Collection Date: 9/19/2016 9:15:00 AM

Received Date: 9/20/2016 10:05:00 AM

Reported Date: 10/3/2016 12:29:57 PM

X023776-77 City of John Day

X023776 - 2DBP-01

X023777 - 2DBP-02,

PWS ID#: 41-00410

Source ID: DIST-A

Sample Comp:

Client Sample ID: 2DBP-02

Sample Location: S Canyon High School

Collectors Name: CM

ANALYTICAL RESULTS

Analyses	Code	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Dibromoacetic acid		EPA 552.2	A	ND		0.003	mg/L		9/29/2016	KCM
Dichloroacetic acid		EPA 552.2	A	ND		0.003	mg/L		9/29/2016	KCM
Monobromoacetic acid		EPA 552.2	A	ND		0.003	mg/L		9/29/2016	KCM
Monochloroacetic acid		EPA 552.2	A	ND		0.003	mg/L		9/29/2016	KCM
Trichloroacetic acid		EPA 552.2	A	ND		0.003	mg/L		9/29/2016	KCM
Total Haloacetic Acids	2456	EPA 552.2	A	ND		0.003	mg/L	0.06	9/29/2016	KCM
Surr: 2,3-Dibromopropionic acid		EPA 552.2		109		0	%REC		9/29/2016	KCM

Notes:

ND - Not Detected at the MRL

N.L. = No Limit

MDL = Method Detection Limit

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Box R Waterlab

567 NW Second Street
Prineville, OR 97754

Lab Order: 1609836

NRC Sample ID: 1609836-03A

Collection Date: 9/19/2016

Received Date: 9/20/2016 10:05:00 AM

Reported Date: 10/3/2016 12:29:57 PM

X023776-77 City of John Day

X023776 - 2DBP-01

X023777 - 2DBP-02,

PWS ID#: 41-00410

Source ID: DIST-A

Sample Comp:

Client Sample ID: Trip Blank #14396

Sample Location:

Collectors Name: NRC

ANALYTICAL RESULTS

Analyses	Code	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Chloroform	2941	EPA 524.2	A	ND		0.0005	mg/L		9/30/2016	KCM
Bromodichloromethane	2943	EPA 524.2	A	ND		0.0005	mg/L		9/30/2016	KCM
Dibromochloromethane	2944	EPA 524.2	A	ND		0.0005	mg/L		9/30/2016	KCM
Bromoform	2942	EPA 524.2	A	ND		0.0005	mg/L		9/30/2016	KCM
Total Trihalomethanes	2950	EPA 524.2	A	ND		0.0005	mg/L	0.08	9/30/2016	KCM
Surr: 4-Bromofluorobenzene		EPA 524.2		101		0	%REC		9/30/2016	KCM
Surr: Dibromofluoromethane		EPA 524.2		98.4		0	%REC		9/30/2016	KCM
Surr: Toluene-d8		EPA 524.2		97.3		0	%REC		9/30/2016	KCM

Notes: ND - Not Detected at the MRL
MDL = Method Detection Limit

N.L. = No Limit

Neilson Research Corporation

Date: 03-Oct-16

CLIENT: Box R Waterlab
Work Order: 1609836
Project: X023776-77 City of John Day

ANALYTICAL QC SUMMARY REPORT

TestCode: HAA_W

Sample ID	MB-36653	SampType: MBLK	TestCode: HAA_W	Units: mg/L	Prep Date: 9/27/2016	RunNo: 90253					
Client ID: ZZZZ	Batch ID: 36653	TestNo: EPA 552.2	(EPA 3510C)	Analysis Date: 9/29/2016	SeqNo: 1366574						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dibromoacetic acid	ND	0.00300									
Dichloroacetic acid	ND	0.00300									
Monobromoacetic acid	ND	0.00300									
Monochloroacetic acid	ND	0.00300									
Trichloroacetic acid	ND	0.00300									
Total Haloacetic Acids	ND	0.00300									
Surr: 2,3-Dibromopropionic acid	0.02717	0	0.025	0	109	70	130				

Sample ID	LCS-36653	SampType: LCS	TestCode: HAA_W	Units: mg/L	Prep Date: 9/27/2016	RunNo: 90253					
Client ID: ZZZZZ	Batch ID: 36653	TestNo: EPA 552.2	(EPA 3510C)	Analysis Date: 9/28/2016	SeqNo: 1366540						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dibromoacetic acid	0.02374	0.00300	0.02	0	119	70	130				
Dichloroacetic acid	0.02235	0.00300	0.02	0	112	70	130				
Monobromoacetic acid	0.02228	0.00300	0.02	0	111	70	130				
Monochloroacetic acid	0.02247	0.00300	0.02	0	112	70	130				
Trichloroacetic acid	0.02106	0.00300	0.02	0	105	70	130				
Surr: 2,3-Dibromopropionic acid	0.02724	0	0.025	0	109	70	130				

Sample ID	1609912-02AMS	SampType: MS	TestCode: HAA_W	Units: mg/L	Prep Date: 9/27/2016	RunNo: 90253					
Client ID: ZZZZ	Batch ID: 36653	TestNo: EPA 552.2	(EPA 3510C)	Analysis Date: 9/29/2016	SeqNo: 1366553						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dibromoacetic acid	0.02481	0.00300	0.02	0	124	70	130				
Dichloroacetic acid	0.02417	0.00300	0.02	0	121	70	130				
Monobromoacetic acid	0.01950	0.00300	0.02	0	97.5	70	130				
Monochloroacetic acid	0.02045	0.00300	0.02	0	102	70	130				
Trichloroacetic acid	0.04164	0.00300	0.02	0.01916	112	70	130				
Surr: 2,3-Dibromopropionic acid	0.02656	0	0.025	0	106	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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Neilson Research Corporation

Date: 03-Oct-16

CLIENT: Box R Waterlab
Work Order: 1609836
Project: X023776-77 City of John Day

ANALYTICAL QC SUMMARY REPORT

TestCode: HAA_W

Sample ID	1609912-02AMSD	SampType: MSD	TestCode: HAA_W	Units: mg/L	Prep Date: 9/27/2016	RunNo: 90253					
Client ID:	ZZZZZ	Batch ID: 36653	TestNo: EPA 552.2	(EPA 3510C)	Analysis Date: 9/29/2016	SeqNo: 1366554					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromoacetic acid	0.02441	0.00300	0.02	0	122	70	130	0.02481	1.62	20	
Dichloroacetic acid	0.02442	0.00300	0.02	0	122	70	130	0.02417	1.00	20	
Monobromoacetic acid	0.02167	0.00300	0.02	0	108	70	130	0.0195	10.5	20	
Monochloroacetic acid	0.02328	0.00300	0.02	0	116	70	130	0.02045	12.9	20	
Trichloroacetic acid	0.04068	0.00300	0.02	0.01916	108	70	130	0.04164	2.33	20	
Surr: 2,3-Dibromopropionic acid	0.02633	0	0.025	0	105	70	130	0	0	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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Neilson Research Corporation

Date: 03-Oct-16

CLIENT: Box R Waterlab
Work Order: 1609836
Project: X023776-77 City of John Day

ANALYTICAL QC SUMMARY REPORT

TestCode: TTHM_W

Sample ID	MB	SampType: MBLK	TestCode: TTHM_W	Units: mg/L	Prep Date:	RunNo: 90275					
Client ID:	ZZZZZ	Batch ID: R90275	TestNo: EPA 524.2		Analysis Date: 9/29/2016	SeqNo: 1366924					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.000500									
Bromodichloromethane	ND	0.000500									
Dibromochloromethane	ND	0.000500									
Bromoform	ND	0.000500									
Total Trihalomethanes	ND	0.000500									
Surr: 4-Bromofluorobenzene	0.04071	0	0.04	0	102	80	120				
Surr: Dibromofluoromethane	0.03984	0	0.04	0	99.6	80	120				
Surr: Toluene-d8	0.03982	0	0.04	0	99.6	80	120				

Sample ID	LCS	SampType: LCS	TestCode: TTHM_W	Units: mg/L	Prep Date:				RunNo: 90275		
Client ID:	ZZZZZ	Batch ID: R90275	TestNo: EPA 524.2		Analysis Date: 9/29/2016				SeqNo: 1366936		
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	0.02093	0.000500	0.02	0	105	70	130				
Bromodichloromethane	0.02061	0.000500	0.02	0	103	70	130				
Dibromochloromethane	0.02110	0.000500	0.02	0	106	70	130				
Bromoform	0.02078	0.000500	0.02	0	104	70	130				
Total Trihalomethanes	0.08342	0.000500									
Surr: 4-Bromofluorobenzene	0.03857	0	0.04	0	96.4	80	120				
Surr: Dibromofluoromethane	0.03871	0	0.04	0	96.8	80	120				
Surr: Toluene-d8	0.04037	0	0.04	0	101	80	120				

Sample ID	1609782-02AMS	SampType: MS	TestCode: TTHM_W	Units: mg/L	Prep Date:				RunNo: 90275		
Client ID:	ZZZZZ	Batch ID: R90275	TestNo: EPA 524.2		Analysis Date: 9/30/2016				SeqNo: 1366929		
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	0.02156	0.000500	0.02	0	108	70	130				
Bromodichloromethane	0.02043	0.000500	0.02	0	102	70	130				
Dibromochloromethane	0.02278	0.000500	0.02	0	114	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Neilson Research Corporation

Date: 03-Oct-16

CLIENT: Box R Waterlab
 Work Order: 1609836
 Project: X023776-77 City of John Day

ANALYTICAL QC SUMMARY REPORT

TestCode: TTHM_W

Sample ID	1609782-02AMS	SampType:	MS	TestCode:	TTHM_W	Units:	mg/L	Prep Date:		RunNo:	90275	
Client ID:	ZZZZZ	Batch ID:	R90275	TestNo:	EPA 524.2			Analysis Date:	9/30/2016	SeqNo:	1366929	
Analyte		Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform		0.02461	0.000500	0.02	0	123	70	130				
Surr: 4-Bromofluorobenzene		0.04279	0	0.04	0	107	80	120				
Surr: Dibromofluoromethane		0.04007	0	0.04	0	100	80	120				
Surr: Toluene-d8		0.03848	0	0.04	0	96.2	80	120				

Sample ID	1609782-02AMSD	SampType:	MSD	TestCode:	TTHM_W	Units:	mg/L	Prep Date:		RunNo:	90275	
Client ID:	ZZZZZ	Batch ID:	R90275	TestNo:	EPA 524.2			Analysis Date:	9/30/2016	SeqNo:	1366930	
Analyte		Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform		0.02023	0.000500	0.02	0	101	70	130	0.02156	6.37	20	
Bromodichloromethane		0.01955	0.000500	0.02	0	97.8	70	130	0.02043	4.40	20	
Dibromochloromethane		0.02309	0.000500	0.02	0	115	70	130	0.02278	1.35	20	
Bromoform		0.02505	0.000500	0.02	0	125	70	130	0.02461	1.77	20	
Surr: 4-Bromofluorobenzene		0.04058	0	0.04	0	101	80	120	0	0	0	
Surr: Dibromofluoromethane		0.03811	0	0.04	0	95.3	80	120	0	0	0	
Surr: Toluene-d8		0.03708	0	0.04	0	92.7	80	120	0	0	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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