CITY OF JOHN DAY 2017 Annual Drinking Water Quality Report

City of John Day Public Works Department 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 <u>www.cityofjohnday.com/publicworks/page/annual-drinking-water-quality-report</u> or <u>goo.gl/n8ThJp</u> 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, 2017 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 no positive tests for Total Coliform bacteria. 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 2017.

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
Microbiological C	ontaminant	ts			•
E. coli (RTCR) - in the distribution system	0	Routine and repeat samples are total coliform positive and either is E. coli - positive or system fails to take repeat samples following E. coli positive routine sample or system fails to analyze total coliform positive repeat sample for E. coli.	ND	No	Human and animal fecal waste
Total Coliform (RTCR)	NA	TT	ND	No	Naturally present in the environment

For results concerning Haloacetic Acids and Total Trihalomethanes, please refer to the <u>By-</u> <u>Product Test Report</u>.

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**.

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 at 541-575-0028.

Vocabulary

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

Important Drin	king 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

Contact Information

Monte Legg Public Works Director 541-575-0028

City of John Day 450 E. Main Street John Day, Oregon 97845 **By-Product Test Report**

Neilson Research Corporation

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

Analysis R	Peport	ORELAP 100016 EPA OR00028
CLIENT: Project: Lab Order:	Box R Waterlab X029011-12 City of John Day	Date: 20-Sep-17 CASE NARRATIVE
	1707205	

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		EPA OR00028
Box R Waterlab	Lab Order:	1709283
567 NW Second Street	NRC Sample ID:	1709283-01A
Prineville, OR 97754	Collection Date:	9/6/2017 7:25:00 AM
	Received Date:	9/8/2017 10:47:00 AM
	Reported Date:	9/20/2017 7:58:45 AM

X029011-12 City of John Day

PWS ID#: 41-00410 Source ID: DIST-A Sample Comp:

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Client Sample ID:	2DBP-02
Sample Location:	South Canyon HS
Collectors Name:	CM

ANALYTICAL RESULTS

Analyses	Code	Method	NELAP Accredited	Result	Qual MRL	Units	EPA Limit	Date Analyzed	Analyst
Dibromoacetic acid		EPA 552.2	2 A	ND	0.003	mg/L		9/13/2017	JMT
Dichloroacetic acid		EPA 552.2	2 A	ND	0.003	mg/L		9/13/2017	JMT
Monobromoacetic acid		EPA 552.2	2 A	ND	0.003	mg/L		9/13/2017	JMT
Monochloroacetic acid		EPA 552.2	2 A	ND	0.003	mg/L		9/13/2017	JMT
Trichloroacetic acid		EPA 552.2	2 A	ND	0.003	mg/L		9/13/2017	JMT
Total Haloacetic Acids	2456	EPA 552.2	2 A	ND	0.003	mg/L	0.06	9/13/2017	JMT
Surr: 2,3-Dibromopropionic acid		EPA 552.2	2	102	0	%REC		9/13/2017	JMT

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	EPA OR	0028
Box R Waterlab	Lab Order: 1709283	
567 NW Second Street	NRC Sample ID: 1709283-02A	
Prineville, OR 97754	Collection Date: 9/6/2017 7:15:00 AM	
	Received Date: 9/8/2017 10:47:00 AM	
	Reported Date: 9/20/2017 7:58:45 AM	
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X029011-12 City of John Day

PWS ID#: 41-00410 Source ID: DIST-A Sample Comp:

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Client Sample ID:	2DBP-01
Sample Location:	W Res #5 Tap
Collectors Name:	СМ

ANALYTICAL RESULTS

Analyses	Code	Method A	NELAP Accredited	Result	Qual MRL	Units	EPA Limit	Date Analyzed	Analyst
Chloroform	2941	EPA 524.2	А	0.00135	0.0005	mg/L		9/18/2017	KCM
Bromodichloromethane	2943	EPA 524.2	А	0.00115	0.0005	mg/L		9/18/2017	KCM
Dibromochloromethane	2944	EPA 524.2	А	0.00113	0.0005	mg/L		9/18/2017	KCM
Bromoform	2942	EPA 524.2	А	0.000600	0.0005	mg/L		9/18/2017	KCM
Total Trihalomethanes	2950	EPA 524.2	A	0.00423	0.0005	mg/L	0.08	9/18/2017	KCM
Surr: 4-Bromofluorobenzene		EPA 524.2		94.1	0	%REC		9/18/2017	KCM
Surr: Dibromofluoromethane		EPA 524.2		92.2	0	%REC		9/18/2017	KCM
Surr: Toluene-d8		EPA 524.2		95.1	0	%REC		9/18/2017	KCM

Notes:

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

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	slow quantitation limits	Analyte detected be	J	s exceeded	ı or analysi	times for preparation	H Holding		uantitation range	E Value above qu	Qualifiers: I
		5	130	70	116	0	0.025	0	0.02903	omopropionic acid	Surr: 2,3-Dibro
			130	70	127	0.0217	0.025	0.00300	0.05344	cid	Trichloroacetic a
			130	70	113	0	0.025	0.00300	0.02824	c acid	Monochloroaceti
)	130	70	98.6	0	0.025	0.00300	0.02466	c acid	Monobromoaceti
			130	70	107	0.01911	0.025	0.00300	0.04587	Sid	Dichloroacetic ac
		-	130	70	115	0	0.025	0.00300	0.02883	cid	Dibromoacetic ad
Qual	%RPD RPDLimit	t RPD Ref Val	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	MRL	Result		Analyte
	SeqNo: 1483665	2017	e: 9/12/2	Analysis Date		(EPA 3510C)	o: EPA 552.2	TestN	Batch ID: 39222	12	Client ID: ZZZ
	RunNo: 98014	2017	e: 9/12/2	Prep Date		Units: mg/L	e: HAA_W	TestCod	SampType: MS	211-02AMS	Sample ID 1709
			130	70	106	0	0.025	0	0.02641	omopropionic acid	Surr: 2,3-Dibro
)	130	70	101	0	0.025	0.00300	0.02533	cid	Trichloroacetic a
)	130	70	106	0	0.025	0.00300	0.02640	c acid	Monochloroaceti
)	130	70	99.5	0	0.025	0.00300	0.02488	c acid	Monobromoaceti
)	130	70	102	0	0.025	0.00300	0.02544	sid	Dichloroacetic ac
)	130	70	96.1	0	0.025	0.00300	0.02403	cid	Dibromoacetic ad
Qual	%RPD RPDLimit	t RPD Ref Val	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	MRL	Result		Analyte
	SeqNo: 1483663	2017	e: 9/12/2	Analysis Date		(EPA 3510C)	o: EPA 552.2	TestN	Batch ID: 39222	12	Client ID: ZZZ
	RunNo: 98014	2017	e: 9/12/2	Prep Date		Units: mg/L	e: HAA_W	TestCod	SampType: LCS	-39222	Sample ID LCS
			130	70	100	0	0.025	0	0.02512	omopropionic acid	Surr: 2,3-Dibro
								0.00300	ND	Acids	Total Haloacetic
								0.00300	ND	cid	Trichloroacetic a
								0.00300	ND	c acid	Monochloroaceti
								0.00300	ND	ic acid	Monobromoaceti
								0.00300	ND	bid	Dichloroacetic ac
								0.00300	ND	cid	Dibromoacetic a
Qual	%RPD RPDLimit	t RPD Ref Val	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	MRL	Result		Analyte
	SeqNo: 1483662	2017	e: 9/12/2	Analysis Date		(EPA 3510C)	o: EPA 552.2	TestN	Batch ID: 39222	ZZ	Client ID: ZZZ
	RunNo: 98014	2017	e: 9/12/2	Prep Date		Units: mg/L	e: HAA_W	TestCod	SampType: MBLK	39222	Sample ID MB-
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Sample ID 17092	11-02AMSD	SampType: MSD	TestCod	e: HAA_W	Units: mg/L		Prep Date	: 9/12/20	17	RunNo: 980	14	
Client ID: ZZZZ	IN .	Batch ID: 39222	TestN	o: EPA 552.2	(EPA 3510C)		Analysis Date	:: 9/12/20	17	SeqNo: 148	3666	
Analyte		Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromoacetic aci	Ц	0.02676	0.00300	0.025	0	107	70	130	0.02883	7.45	20	
Dichloroacetic acio	1	0.04462	0.00300	0.025	0.01911	102	70	130	0.04587	2.77	20	
Monobromoacetic	acid	0.02497	0.00300	0.025	0	99.9	70	130	0.02466	1.24	20	
Monochloroacetic	acid	0.02851	0.00300	0.025	0	114	70	130	0.02824	0.952	20	
Trichloroacetic aci	đ	0.05020	0.00300	0.025	0.0217	114	70	130	0.05344	6.25	20	
Surr: 2,3-Dibron	nopropionic acid	0.02560	0	0.025	0	102	70	130	0	0	0	

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Qualifiers:

E Value above quantitation range ND Not Detected at the Minimum Reporting Limit

H Holding times for preparation or analysR RPD outside accepted recovery limits

Holding times for preparation or analysis exceeded

J Analyte detected below quantitation limitsS Spike Recovery outside accepted recovery limits

Spike Recovery outside accepted recovery limits

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Date: 20-Sep-17

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Qual	%RPD RPDLimit	RPD Ref Val	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	MRL	Result	te	Analyt
	SeqNo: 1485437	117	te: 9/18/2(Analysis Dat			o: EPA 524.2	TestN	Batch ID: R98157	ID: ZZZZZ	Client
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			120	80	98.3	0	0.04	0	0.03931	rr: Toluene-d8	Sun
			120	80	96.7	0	0.04	0	0.03869	rr: Dibromofluoromethane	Sun
			120	80	98.0	0	0.04	0	0.03920	rr: 4-Bromofluorobenzene	Sun
								0.000500	0.07382	Trihalomethanes	Total 1
			130	70	73.3	0	0.02	0.000500	0.01466	oform	Bromo
			130	70	93.8	0	0.02	0.000500	0.01876	mochloromethane	Dibron
			130	70	101	0	0.02	0.000500	0.02014	odichloromethane	Bromo
			130	70	101	0	0.02	0.000500	0.02026	oform	Chloro
Qual	%RPD RPDLimit	RPD Ref Val	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	MRL	Result	te	Analyt
	SeqNo: 1485447)17	te: 9/18/2(Analysis Dat			lo: EPA 524.2	TestN	Batch ID: R98157	ID: ZZZZZ	Client
	RunNo: 98157		te:	Prep Dat		Units: mg/L	e: TTHM_W	TestCod	SampType: LCS	ile ID LCS	Samp
			120	80	97.2	0	0.04	0	0.03887	rr: Toluene-d8	Sun
			120	80	99.4	0	0.04	0	0.03978	rr: Dibromofluoromethane	Sun
			120	80	94.8	0	0.04	0	0.03793	rr: 4-Bromofluorobenzene	Sun
								0.000500	ND	Trihalomethanes	Total
								0.000500	ND	oform	Bromo
								0.000500	ND	mochloromethane	Dibron
								0.000500	ND	odichloromethane	Bromo
								0.000500	ND	oform	Chloro
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	0	0	0	120	80	98.4	0	0.04	0	0.03935	8	rr: Toluene-d	Sur
	0	0	0	120	80	100	0	0.04	0	0.04007	Joromethane	rr: Dibromoflu	Su
	0	0	0	120	80	97.3	0	0.04	0	0.03893	uorobenzene	rr: 4-Bromofi	Sur
	20	1.78	0.01451	130	70	73.8	0	0.02	0.000500	0.01477		oform	Brom
	20	0.0419	0.02385	130	70	95.2	0.00482	0.02	0.000500	0.02386	thane	mochloromet	Dibro
	20	0.929	0.02811	130	70	98.0	0.00826	0.02	0.000500	0.02785	hane	odichloromet	Brom
	20	3.78	0.03102	130	70	94.8	0.01091	0.02	0.000500	0.02987		oform	Chlore
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		SeqNo: 1485438	17	e: 9/18/20	Analysis Date			o: EPA 524.2	TestN	Batch ID: R98157	Z	t ID: ZZZZ	Client
		RunNo: 98157		ŝ	Prep Date		Units: mg/L	e: TTHM_W	TestCod	SampType: MSD	79-01AMSD	ole ID 17092	Samp
				120	80	96.8	c	0.04	c	0.03871	0		
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