

Arkansas Department of Health

4815 West Markham Street ● Little Rock, Arkansas 72205-3867 ● Telephone (501) 661-2000 Governor Mike Beebe

Paul K. Halverson, DrPH, FACHE, Director and State Health Officer

Engineering Section, Slot H37 www.HealthvArkansas.com/eng/ Ph 501-661-2623 Fax 501-661-2032 After Hours Emergency 501-661-2136

June 9, 2011

Mr. Mick Wagner Tontitown Waterworks P.O. Box 127 Tontitown, AR 72770

RE: Sanitary Survey of May 10, 2011

Mr. Mick Wagner

Enclosed is a copy of the Sanitary Survey for Tontitown Waterworks. Please note the comments made throughout the survey.

Tontitown Waterworks is required to keep a copy of this survey for a minimum of 10 years. This survey should be filed in a central location that will be accessible to the public.

If there are any questions concerning this survey, please contact me at 501-471-1507.

Sincerely,

Jason R. Sells

Environmental Specialist Engineering Section, ADH

Ph 501-471-1507

Jason.Sells@arkansas.gov

Enclosure: Sanitary Survey for Tontitown Waterworks

CSC:Jy.S:jrs

FILE COPY

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Arkansas Department of Health Public Water Supply Sanitary Survey

Name of System	Tontitown Waterworks PWS #566
County	Washington
Date of Survey	May 11, 2011
Survey By	Jason Sells/Craig Corder
Title Environ	mental Specialist/Engineer Supervisor

Name of System: Tontito							PW	/S # <u>566</u>
Address: PO Box 127 Tor				Ligano		-	Talanhana #	.470 261 2006
Manager: Mick Wagner	02 7240		00 2490	Eov #1501 42	1 9774 E	moil Add	resendinates	:479-361-2996
Alternate Telephone #:479-2								
Treatment Plant Supervisor:	COP!			Licens	e #		releptione #:	
Distribution System Supervi Number of Licensed Employ	301	# of T	rantmant	Licens	е #	# of Dist	ribution Lie	22222
Mayor/ Chairman /President	Other Stave	Gundarson	reatment	Licenses. U		# OI DISC	Indution Lice	:118es. <u>2</u>
Address: Water and Sewe								
Address. Water and Sewe	1 Commission					(W) 10	elephone #	
of Services: 1022 %Mete	ered:100 To	tal Pop. Serve	ed: 2555	Retail Por	Served:	Co	nsecutive Po	on Served:
Domestic: 766 # Cor								
Engineering District: 1								
Plumbing Inspector: David								
ramonis mopeotor. Duvice	Cratemiera	зовери сниги					100 11. <u>1 10001</u>	.071105000
Plant Name & ID	Туре	of Plant	Const	ruction Date	e # of S	ources	Type(s)	of Source
Master Meter 1 (Barrington)	Master Me	ter	2001		1		Surface Pur	rchase
Master Meter 2 (Kissinger)	Master Me	ter	1988		1		Surface Pur	rchase
Master Meter 3 (Sunset)	Master Me		2000		1		Surface Pur	chase
	1							
Max	ximum Syste	em Capacity:		.458		MGD (A	ll Plants)	
Total System	Storage: 0		MG	Useable	System St	orage: A		MG
Total System	otorageo			Oscabic	bystem bt	orageo		
		Pr	oduction	Figures				
System Segment	Capacity	Limiting	Code	THE RESERVE OF THE PERSON NAMED IN	Demand	Averag	e Demand	Population
Plant Name & ID	(MGD)	Factor	-	(MGD)	%Cap.	(MGD)		Served
Master Meter 1	.153	Contract	8	0.117	% %	0.085	%	2555
Master Meter 2	.153	Contract	8	0.117	%	0.085	%	2000
Master Meter 3	.153	Contract	8	0.117	%	0.085	%	
Winster Wieter 5	.133	Contract	Ü	0.117	,,,	0.005	1	
Primary System	.459			.350	76%	.255	56%	2555
Consecutive Systems		PWS ID#	Status					
Consecutive Systems		1,1010	Status					
							 	
				-				
Industrial Demand			(Status:	P – Primary	. E – Emer	gency, I -	Intermitten	t, O – Other)
Unaccounted-for Water	12 %		(= 11111111	,	, — ———	8		,
	Calculated							
Estimated	g Carculated							
dentify Significant Deficience	cies:							
dentity diginificant beneficial								
Give brief evaluation of syste	m condition	and operation	: Tont	itown has no	water stora	age tanks.	Tontitown n	eeds to have 24
8 hours of useable storage a								

Public Water Supply Sanitary Survey

Name of System: Tontitown Waterworks	PWS # <u>566</u>
Purchase Source	
Source Entity ID #:301	Source:(#of)
PWS Source Name: Springdale Water	
PWS ID #: _575 Maximum Purchase Agreement:153 MGD	
Yes No □ 1. Are maximum purchase agreements adequate? □ 2. Has the system been free from shortages of source in the past? □ 3. Does source system have adequate emergency plan? □ 4. Is source system's overall operation in accordance with the regulations? □ 5. Is master meter read routinely and reading recorded? □ 6. Is connection to source system adequate? □ 7. Is connection to source system provided with adequate backflow prevention?	
Comments:	
Source Entity ID #:201	Source:(#of)
PWS Source Name: Springdale Water	bource.("or)
PWS ID #: 575 Maximum Purchase Agreement: .153 MGD	
Yes No	
Source Entity ID #:101 PWS Source Name: Springdale Water PWS ID #: 575 Maximum Purchase Agreement: .153 MGD	Source:(#of)
Yes No Image: Problem of the past of the past of the past of the past? 1. Are maximum purchase agreements adequate? Image: Problem of the past of the past? 2. Has the system been free from shortages of source in the past? Image: Problem of the past of the past? 3. Does source system have adequate emergency plan? Image: Problem of the past? 4. Is source system's overall operation in accordance with the regulations? Image: Problem of the past? 5. Is master meter read routinely and reading recorded? Image: Problem of the past? 6. Is connection to source system adequate? Image: Problem of the past? 7. Is connection to source system provided with adequate backflow prevention?	
Commonto	
Comments:	

Public Water Supply Sanitary Survey

Plant ID # Plant Name:	,	in	<u>ontitown</u>	water	WOLKS					PWS # <u></u> 56	0	
Plant D Plant Name: Plant Loaction: (Give directions from major road/street or highway intersection.) Plant Location: (Give directions from major road/street or highway intersection.) Purpose Surface						Trea	tment Plant					
Plant Location: Glive directions from major road/street or highway intersection.							(Page 1)			Plai	nt:(# of)	
Contact Cont												
Purpose Surface Iron/Manganese Removal/Control Other Organic/DBP Removal	Plant Location	:			a: !: .:		. 1/					
Fleat Disinfection Fluoridation Corrossion Control Other		(Give directions from major road/street or nighway intersection.)										
Fleat Disinfection Fluoridation Corrossion Control Other	Purpose DS	Purpose										
Reaction Treatment Processes Provide System Flow Schematic & Locate Chemical Injection Points & Water Quality Monitoring Sites												
No Treatment Provided Acration: Cascade/Tray Forced/Induced Draft Pressure Approved Capacity MGD		Traile Distriction Tractication Control Control										
Cascade/Tray Forced/Induced Draft Pressure Approved Capacity MGD MGD Covidation Type: Cl_2 Gas Hypochlorite Ozone ClO_2 Chloramines UV KMnO_4	Treatment Pr	ocesses	(Provid	e Syster	n Flow Sche	ematic & Lo	cate Chemical	Injection Points &	Water	Quality Mor	nitoring Sites)	
Disinfection Pre Intermediate Final Breakpoint Chlorination Booster (Indicate on Flow Schematic)	No Treatm											
Note												
Plant Segment Type of Disinfectant Used Disinfectant Injection Point CT Monitoring Point T ₁₀ Time @ Maximum Flow Rate (min.)	☐ Disinfection	n/ 📙	Pre _	Interme	ediate 📙	Final	Breakpoint Ch	lorination Boo	oster (I	ndicate on F	low Schematic)	
Plant Segment	Oxidation '	Гуре: 📙		∐Н	ypochlorite	Ozon	e \square ClO ₂	☐ Chloramines		V KM	nO_4	
Plant Segment Type of Disinfectant Used			Other			Location	s) for CT cont	act				
Plant Segment Used Point				T	Type of			act				
Rapid Mix:	Pla	nt Segme	ent	l n				CT Monitoring F	Point			
Rapid Mix:	114	nt Segni	CIII	١		I	Point	C1 Monitoring 1		Flow	Rate (min.)	
Volume Gal Detention Time: sec. Dimensions (ft.): L W Dia D Reaction Tank: Volume Gal Detention Time: min. Dimensions (ft.): L W Dia D Flocculation: Hydraulic Mechanical Approved Capacity MGD Treatment Train L W Dia D Dimensions (ft.) Volume (gal) Theoretical Detention Time (min) Flow-through # of Chambers Chambers Chambers Chambers Chambers Sedimentation: Conventional Upflow Solids Contact Unit Contact Clarifier Other Trube/Plate Settlers-Area ft² Approved Capacity MGD Treatment Dimensions (ft.) Volume (gal) Theoretical Flow-through Loading Rate (gpd/ft²) Rate (gpm/ft) Train L W Dia D Dia Detention Time (min.) Velocity (fps) Chambers Conventional Upflow Contact Clarifier Other Treatment Dimensions (ft.) Volume Contact Clarifier Other Tube/Plate Settlers-Area ft² Approved Capacity MGD Treatment Dimensions (ft.) Volume Contact Clarifier Other Tube/Plate Settlers-Area ft² Approved Capacity MGD Treatment Dimensions (ft.) Volume Contact Clarifier Other												
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Treatment Train	☐ Reaction 1	ank: vo	iume		iai. Detenti	on time:	Reaction Tank: Volume Gal. Detention Time:min. Dimensions (ft.): L W Dia D					
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Sedimentation: Conventional Upflow Solids Contact Unit Contact Clarifier Other Tube/Plate Settlers-Area ft² Approved Capacity MGD		n: 🔲				Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, wh		MGD	Flow	v-through		
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Treatment Train Tube/Plate Settlers-Area	Treatment		Dimens	ions (ft.)	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, wh	al) Theore	MGD tical Detention			# of	
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Train L W Dia. D (gal) Det. Time (min.) Velocity (fps) (gpd/ft²) Rate (gpm/ft)	Treatment Train	L	Dimens	ons (ft. Dia.	D Upflow	Volume (g	al) Theore Ti	MGD tical Detention ime (min)	Velo	Other	# of	
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Name of S	ystem:	Tontitown	Waterworks

		-	
PWS	#	56	6
PWS	#	20	n

Monitoring, Reporting, and Data Verification

Laboratory Testing & Equipment								
Lab Tests	Frequency	Sample Location	Method	Make & Model #				
Chlorine	Monthly	Bacti Sites	Color Comparison	HACH CN67				
Chlorine	Continuous	Master Meter 3	Amperometric Sensor	HACH 9184sc				
	-							
	 		<u> </u>					

Calibration Records							
	Calibration	Date Last	Are Calibration	I	Field Verification		
	Frequency	Calibrated	Logs Available	ADH Results	System Results		
Turbidimeters							
pH Meters							
Disinfectant Analyzers				0.42	0.46 (HACH CN67)		
Disinfectant Analyzers		5/7/11		0.42	0.55 (HACH 9184sc)		
١.							

Yes	No	N/A		
	П		1.	Are laboratory facilities, testing equipment, and procedures, accurate, adequate, and operable?
$\overline{\boxtimes}$	П		1.1	Are records of lab tests being maintained?
• <u> </u>	П		1.2	Do reagents used have an unexpired shelf life?
	П	\boxtimes	1.3	Are continuous turbidimeters and recorders provided on each filter?
	П	\boxtimes	1.4	Is continuous chlorine analyzer and recorder provided on plant effluent?
\boxtimes	П		2.	Is all routine compliance monitoring up-to-date? (Check monitoring status report.)
\boxtimes	\Box		2.1	Are the proper numbers of bacti samples being collected? Number required? 3
		\boxtimes	2.2	For surface systems with conventional treatment, is raw water alkalinity being monitored?
		\boxtimes	2.3	For systems using chlorine dioxide, are daily entry point analysis for ClO ₂ residual and Chlorite being
				collected and reported?
\boxtimes			3.	Is the system monitored according to ADH approved methods and sample site plan(s)? 🛛 Bacti 🔲 CT
				\square Disinfectant Residual \square THM \square HAA5 \square ClO ₂ Residual Distribution System Samples (\square N/A)
				☐ Chlorite Distribution System Samples (☒ N/A) ☐ Other
\boxtimes			4.	Is the system in compliance with the monitoring and reporting requirements of the Lead and Copper Rule
				as outline in their approved Optimal Corrosion Control and Treatment plan?
		\boxtimes	5.	Are fluoride check samples submitted monthly?
		\boxtimes	6.	Are daily fluoride analyses performed, results recorded, and submitted monthly?
• 🗌	\boxtimes		7.	Does the system accurately complete Monthly Operational Report forms?
	\boxtimes		7.1	Has the system submitted Monthly Operational Report forms on time?
\boxtimes			7.2	Does the system have the proper records on file and available for review? Sanitary Surveys
				☐ Bacteriological and Chemical Analysis Reports ☐ Source Water Assessment Report
				Sample Site Plans ☐ Optimal Corrosion Control and Treatment Plan for Lead & Copper Rule (☒ N/A)
				☐ Disinfection Profile and Benchmark Report (☐ N/A) ☐ Individual Filter Monitoring Data (☐ N/A)
				☐ Filter Profile Report (☒ N/A) ☐ Filter Self-Assessment Report (☒ N/A) ☐ CPE report (☒ N/A)
				CCR Other
Com	ment	s:		

Public Water Supply Sanitary Survey

: <u>To</u>	entitown Waterworks PWS # 566
	Distribution System
1.	Are pressures in all portions of the system maintained above 20 psi during peak demand? If no, give reason:
2. 3. 3.1 4.	Is a detectable disinfectant residual level maintained in all portions of the system? Is a sufficient number of valves provided, properly located, and are they accessible? Does the system have a valve exercise / replacement program? What piping materials are used? (Estimate percentage) 7% DI/CI 91.6% PVC 0 Galvanized 1.4% AC Other:
5. 6. 7. 8. 9. 10.	Has the distribution system been free of water quality problems? Does the system have an adequate maintenance and flushing program? Are mains and appurtenances properly flushed, disinfected and tested after repairs or extensions? Is a licensed plumbing inspector available? Does the system have a meter replacement program? Does the system have a leak detection program? Is the overall condition of the distribution system acceptable?
	Cross-Connection Control
1. 1.1 1.2 1.3 2.	Does the system have an active Cross-Connection Control Program? Who is responsible for the Cross Connection Control Program? Mick Wagner Does the governing body have an ordinance, by-law or written resolution specifically addressing cross connection control? Is the system requiring annual testing of backflow preventers and keeping records of the tests? Is the system free of high-hazard unprotected cross-connections? Treatment Plant
	Pumping Facilities Distribution
3. 3.1	Is a Cross-Connection Control Program being enforced for high-hazard services? Have all commercial and industrial customers been surveyed?
	1. 2. 3. 3.1 4. 5. 6. 7. 8. 9. 10. 11. 1.1 1.2

Na	me of	Syste	em: Tontitown Waterworks	PWS #_ 566
			System Operations &	Management
Ide	ntify	the m	anagement structure of water system.	
	Mayo	or/Co	nncil Board of Directors Commission	Other
			MEMBERS NAME	TITLE
			Steve Gunderson	Chairman
			Gene Baker	Member
			Larry Goddard	Treasurer
			Bill Brandt	Vice Chair
			Ronnie Delozier	Member
Yes	<u>No</u> □	1. 2. 3. 4.	regulatory requirements and provide for the product Adequate budget Sufficient / Qualified staff	 ✓ Master Plan (DateApril 2008) r names, numbers, etc. el, security measures, maintenance or repair parts to mee ion of an adequate quantity of safe drinking water. ✓ Adequate / Sufficient parts inventory
\boxtimes		5. 6.	Have all major modifications (since previous survey) be Are the systems records being maintained according with	n regulatory requirements?
\boxtimes		7.	Maintenance and repair records	
		8.		r, are corrective actions being taken? Discuss corrective
\boxtimes		9.	Has the system been free of any violations since the last ☐ TCR ☐ MRDL ☐ IOC ☐ VOC ☐ SOC ☐ ☐ THM (☐ N/A) ☐ HAA5 (☐ N/A) ☐ Bromate ☐ Combined filter turbidity (☐ N/A) ☐ Plant Efflue ☐ CT ☐ Enhanced Coagulation – TOC removal (☐	Radio-chemicals (N/A) Chlorite (N/A) nt Disinfectant Residual (N/A)
	\boxtimes	10.	Is system's Disinfection By-Product levels less than 80% last survey? TTHM HAA5 Bromate (of the MCL and not trending upward significantly since the N/A) \square Chlorite ($\boxtimes N/A$)
\boxtimes		11. 12. 13.	What is the required license grade level for this system? Does system have a completed source water assessment? Is source water assessment report on file and accessible to the system.	
Con	nmen	ts:	TTHM LRAA is 84.2 at site 566YC001 and 87.1 at site	566YC002 at the time of survey.
		_		

Public Water Supply San	itarv Survev
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Arkansas Department of Health

Name of	System: Tontitown Waterworks	PWS # <u>566</u>	PWS # <u>566</u>				
		Operator Certif	<u>ïcation</u>				
	required State certification. 2. Are all persons making individu	nal judgements that affect w	to perform all water quality related duties?	cilities have the			
	Operator	Title	License #				
	Robert Button	Chief Operator	05501D4				
	David Crutchfield Rebecca Bennett	Water Operator Admin. Assistant	08207D4 08512D1				
	Neoceca Bennett	Admin. Assistant	00312D1				
Comment		Contact Inform					
	Emergency Contact Person: Mick Wagner Emergency Contact Phone Number: 479-790-3480						

Type Code	Contact Name	Title	Mailing Address	City	State	Zip Code	E-Mail
B\$RE	Rebecca Bennett	Admin. Assistant	P.O.Box 127	Tontitown	AR	72770	admin@tontitownws.com

Type Codes:

- A Primary Contact; B Bacteriological Sample Bottle Mailing; \$ Billing; O System Owner / Responsible Party;

 Z Administrative Address; F Fax; M Mobile Phone; G Pager; W World Wide Web Site; I Internet E-Mail;

 R Operator; T Water Treatment Plant / Facility; D Distribution Facility; P Pumping Facility; S Storage Facility;

- L Location; E Employee; V Vendor; X Other

Tontitown Water Works PWS # 566 System Flow Schematic Sanitary Survey May 11, 2011



