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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 10th, 2019

Survey By Jason Bird

Title Environmental Specialist

Public Water Supply Sanitary Survey

Arkansas Department of Health

Name of System: Tontitown Waterworks PWS # 566
Address: Mailing: P.O.Box 127, Tontitown, AR 72770 Physical: 201 E. Henri de Tonti Blvd., Springdale, Ar 72762
Manager: James Clark License #: 06639D4T3 Telephone #:479-361-2700
Alternate Telephone #:479-361-2996 Cell #:479-263-2916 Fax #:479-421-0012 E-mail Address:pwdirector@tontitownar.gov
Treatment Plant Supervisor: License #: Telephone #:
Distribution System Supervisor: James Clark License #: 06639D4T3 Telephone #:479-361-2700
Number of Licensed Employees: 3 # of Treatment Licenses: 2 # of Distribution Licenses: 3
Mayor/Chairman/President/Other: Paul Colvin Jr. (H) Telephone #:479-790-5513
Address: P.O. Box 305 Tontitown, AR 72760 (W)Telephone #:479-361-2700

# of Services: 1575 %Metered: 100 Total Pop. Served: 3740 Retail Pop.Served: 3740 Consecutive Pop.Served: 0
Domestic: 1281 # Commercial: 215 # Wholesale: 0 # Industrial: 0 # Irrigation: 79
Engineering District: 1 County Name: Washington County Code #: 72
Plumbing Inspector: Roger Duncan License #:PI03244

Plant Name & ID		Type of Plant	Construction Date	# of Sources	Type(s) of Source
Barrington MM #1	566101	Master Meter	2001	1	Surface Purchase
Kissinger MM #2	566201	Master Meter	1988	1	Surface Purchase
Sunset MM #3	566301	Master Meter	2000	1	Surface Purchase

Maximum System Capacity: 0.6 MGD (All Plants)

Total System Storage: 0 MG Useable System Storage: 0 MG

Production Figures									
System Segment / Plant Name & ID		Capacity (MGD)	Limiting Factor	Code	Maximum Demand (MGD)	Maximum Demand %Cap.	Average Demand (MGD)	Average Demand %Cap.	Population Served
Sunset MM#3 Kissinger MM#2	566301 566201	0.6	Contract	8	0.516	86.0%	0.397	66.2%	3740
Barrington MM# 1	566101		Emergency						
Primary System		0.6	Contract	8	0.516	86.1%	0.397	66.1%	3740
Consecutive Systems			PWS ID #	Status					
Industrial Demand									
Unaccounted-for Water		**32.2 %**							

(Status: P – Primary, E – Emergency, I – Intermittent, O – Other)

☐ Estimated ☒ Calculated

Identify Significant Deficiencies:

Give brief evaluation of system condition and operation: Tontitown Waterworks is a surface purchase system that purchases water from Springdale Water Utilities through three master meters. The distribution system is one single pressure plane and has just completed construction of a 500,000 gallon storage tank. The storage tank will not be placed online until the new connection to Benton-Washington Regional is complete; the projected date is sometime near the end of November 2019. The high maximum demand and average demand will be alleviated by this new source connection.

NOTE: The following sections that are dash-lined and or struck through represent storage tank and source connection information which are near completion but not currently online.

Public Water Supply Sanitary Survey **Arkansas Department of Health**

Name of System: Tontitown Waterworks PWS # 566

Purchase Source

Source Entity ID #: 101 Source:(# 1 of 3)
PWS Source Name: Springdale Water Utilities (36.192676, -94.229690)
PWS ID #: 575 Maximum Purchase Agreement: 0.6 (All Master Meters Combined) 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: Barrington Master Meter. This master meter is a 3" meter and is for emergency use only. No other treatment provided.

Source Entity ID #: 201 Source:(# 2 of 3)
PWS Source Name: Springdale Water Utilities (36.153164, -94.2017725)
PWS ID #: 575 Maximum Purchase Agreement: 0.6 (All Master Meters Combined) 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: Kissinger Master Meter. This is a 3" master meter and no other treatment is provided.

Source Entity ID #: 301 Source:(# 3 of 3)
PWS Source Name: Springdale Water Utilities (36.175964, -94.210675)
PWS ID #: 575 Maximum Purchase Agreement: 0.6 (All Master Meters Combined) 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: Sunset Master Meter. This is an 8" master meter and accounts for 90% of the system's water that's purchased. No other treatment provided.

Public Water Supply Sanitary Survey **Arkansas Department of Health**

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Monitoring, Reporting, and Data Verification

Laboratory Testing & Equipment					
Lab Tests	**Frequency**	**Sample Location**	**Method**		**Make & Model #**
Chlorine	Daily	Bacti Sample Sites	Hach DPD Method		Hach Pocket Colorimeter II
			Free	Total	
			8021	8167	

Calibration Records					
	Calibration Frequency	**Date Last Calibrated**	**Are Calibration Logs Available**	**Field Verification**	
				ADH Results	**System Results**
Turbidimeters					
pH Meters					
Disinfectant Analyzers				0.55mg/L (Free)	0.60mg/L (Free)
DPD Reagent Expires				JUL22	MAR22

Yes	No	N/A		
• ☒	☐		1.	**Are laboratory facilities, testing equipment, and procedures, accurate, adequate, and operable?**
☒	☐		1.1	Are records of lab tests being maintained?
☒	☐		1.2	Do reagents used have an unexpired shelf life?
☐	☐	☒	1.3	Are continuous turbidimeters and recorders provided on each filter?
☐	☐	☒	1.4	Is continuous chlorine analyzer and recorder provided on plant effluent?
☒	☐		2.	Is all routine compliance monitoring up-to-date? (Check monitoring status report.)
☒	☐		2.1	Are the proper numbers of bacti samples being collected? Number required? 3
☐	☐	☒	2.2	For surface systems with conventional treatment, is raw water alkalinity being monitored?
☐	☐	☒	2.3	For systems using chlorine dioxide, are daily entry point analysis for ClO_2 residual and Chlorite being collected and reported?
☒	☐		3.	Is the system monitored according to ADH approved methods and sample site plan(s)? ☒ Bacti ☐ CT ☒ Disinfectant Residual ☒ THM ☒ HAA5 ☐ ClO_2 Residual Distribution System Samples (☒ N/A) ☐ Chlorite Distribution System Samples (☒ N/A) ☐ Other
☒	☐	☐	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?
☐	☐	☒	5.	Are fluoride check samples submitted monthly?
☐	☐	☒	6.	Are daily fluoride analyses performed, results recorded, and submitted monthly?
• ☒	☐		7.	**Does the system accurately complete Monthly Operational Report forms?**
☒	☐		7.1	Has the system submitted Monthly Operational Report forms on time?
☒	☐		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

Comments:

Public Water Supply Sanitary Survey **Arkansas Department of Health**

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Distribution System

Yes	No		
• ☒	☐	1.	**Are pressures in all portions of the system maintained above 20 psi during peak demand?** **If no, give reason:** _____
• ☒	☐	2.	**Is a detectable disinfectant residual level maintained in all portions of the system?**
☒	☐	3.	Is a sufficient number of valves provided, properly located, and are they accessible?
☒	☐	3.1	Does the system have a valve exercise / replacement program?
		4.	What piping materials are used? (Estimate percentage) 4% DI/CI 95% PVC 0 Galvanized 1% AC Other: _____
☒	☐	5.	Has the distribution system been free of water quality problems?
☒	☐	6.	Does the system have an adequate maintenance and flushing program?
☒	☐	7.	Are mains and appurtenances properly flushed, disinfected and tested after repairs or extensions?
☒	☐	8.	Is a licensed plumbing inspector available?
☒	☐	9.	Does the system have a meter replacement program?
☒	☐	10.	Does the system have a leak detection program?
☒	☐	11.	Is the overall condition of the distribution system acceptable?

Comments: All valves are exercised once or twice per year. Tontitown keeps a list of problem areas in their distribution system and flushes them twice pear year. In 2018 all meters were changed. Tontitown does in house leak detection using data logger equipment.

Cross-Connection Control

Yes	No	N/A		
☒	☐		1.	Does the system have an active Cross-Connection Control Program?
		☐	1.1	Who is responsible for the Cross Connection Control Program? James Clark
☒	☐		1.2	Does the governing body have an ordinance, by-law or written resolution specifically addressing cross connection control?
☒	☐		1.3	Is the system requiring annual testing of backflow preventers and keeping records of the tests?
• ☒	☐		2.	**Is the system free of high-hazard unprotected cross-connections?** ☐ Treatment Plant ☐ Pumping Facilities ☒ Distribution
• ☒	☐	☐	3.	**Is a Cross-Connection Control Program being enforced for high-hazard services?**
☒	☐	☐	3.1	Have all commercial and industrial customers been surveyed?

Comments: Tontitown Waterworks tracks all new and existing back flow preventer and enforces yearly testings. After a customer has been delinquent on testing their back flow preventer for a certain period of time, the unit is tested by Tontitown Waterworks staff for a fee or if denied access to complete the inspection, the system will ultimately shut off service to customer.

Public Water Supply Sanitary Survey **Arkansas Department of Health**

Name of System: Tontitown Waterworks PWS # 566

System Operations & Management

Identify the management structure of water system.

☒ Mayor/Council ☐ Board of Directors ☐ Commission ☐ Other _____

MEMBERS NAME	TITLE
Paul Colvin Jr.	Mayor
Gene McCartney	Councilperson (Ward 1, Position 1)
Henry Piazza	Councilperson (Ward 1, Position 2)
Arthur Penzo	Councilperson (Ward 2, Position 1)
Larry Ardemagni	Councilperson (Ward 2, Position 2)
Don Doudna	Councilperson (Ward 3, Position 1)
Tommy Granata	Councilperson (Ward 3, Position 2)

Yes	No		
☒	☐	1.	Is a current (i.e. less than 10 years old) Long-Range Plan/Master Plan on file with ADH? ☐ Long Range Plan (Date _____) ☒ Master Plan (Date April 2008)
☒	☐	2.	A written emergency plan is on file at the water system.
☒	☐	3.	The emergency plan is up to date and contains the proper names, numbers, etc.
☒	☐	4.	**Management provides the necessary budget, personnel, security measures, maintenance or repair parts to meet regulatory requirements and provide for the production of an adequate quantity of safe drinking water.** ☒ **Adequate budget** ☒ **Sufficient / Qualified staff** ☒ **Adequate / Sufficient parts inventory** ☒ **Other** *see comments below.
☒	☐	5.	Have all major modifications (since previous survey) been approved by ADH?
☒	☐	6.	Are the systems records being maintained according with regulatory requirements? ☒ Maintenance and repair records ☒ System maps ☒ Operating reports
☐	☒	7.	Is the maximum demand less than 80 percent of capacity (i.e. source, plant, pumping)? If no, discuss corrective actions. Currently under construction is a new connection to Benton-Washington.
☒	☐	8.	If the system has greater than 15% unaccounted for water, are corrective actions being taken? Discuss corrective actions. (☐ N/A)
☒	☐	9.	Has the system been free of any violations since the last survey? ☒TCR ☐ MRDL ☒ IOC ☒ VOC ☒ SOC ☒ Radio-chemicals ☒ THM (☐ N/A) ☒ HAA5 (☐ N/A) ☐ Bromate (☒ N/A) ☐ Chlorite (☒ N/A) ☐ Combined filter turbidity (☒ N/A) ☐ Plant Effluent Disinfectant Residual (☒ N/A) ☒ CT ☐ Enhanced Coagulation – TOC removal (☒ N/A) ☐ Other
☒	☐	10.	Is system's Disinfection By-Product levels less than 80% of the MCL and not trending upward significantly since the last survey? ☒ TTHM ☒ HAA5 ☐ Bromate (☒ N/A) ☐ Chlorite (☒ N/A)
		11.	What is the required license grade level for this system? Treatment 0 Distribution 1
☒	☐	12.	Does system have a completed source water assessment?
☒	☐	13.	Is source water assessment report on file and accessible to the public?

Comments: 7. Tontitown has nearly reached the limit of their purchase agreement with Springdale Water and is now nearing completion of a new connection with Benton-Washington to alleviate their high maximum and average demand.
8. The system has hired a new operator recently and is working harder towards leak detection. *With the tremendous growth of Tontitown as a result of developers and construction it appears that the water system's infrastructure will need more resources for general maintenance and emergency repairs. It is recommended that the council increase water rates on an incremental and continuing basis to balance the ongoing needs of the water system in order to supply/promote the rate of growth.

Public Water Supply Sanitary Survey **Arkansas Department of Health**

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Operator Certification

- ☒ ☐ **1. The operator(s) or responsible person(s) in charge of the treatment facility and/or distribution facilities have the required State certification.**

☒ ☐ 2. Are all persons making individual judgements that affect water quality properly licensed?
☒ ☐ 3. Does the system have a sufficient number of licensed staff to perform all water quality related duties?
☒ ☐ 4. Are operators provided training in the proper use of safety equipment?

Operator	Title	License #
James Clark	Public Works Director	06639D4T3
Robert Dunlap	Operator	09963D1
Phillip Arends	Operator	10322D4

Comments: _____

Contact Information

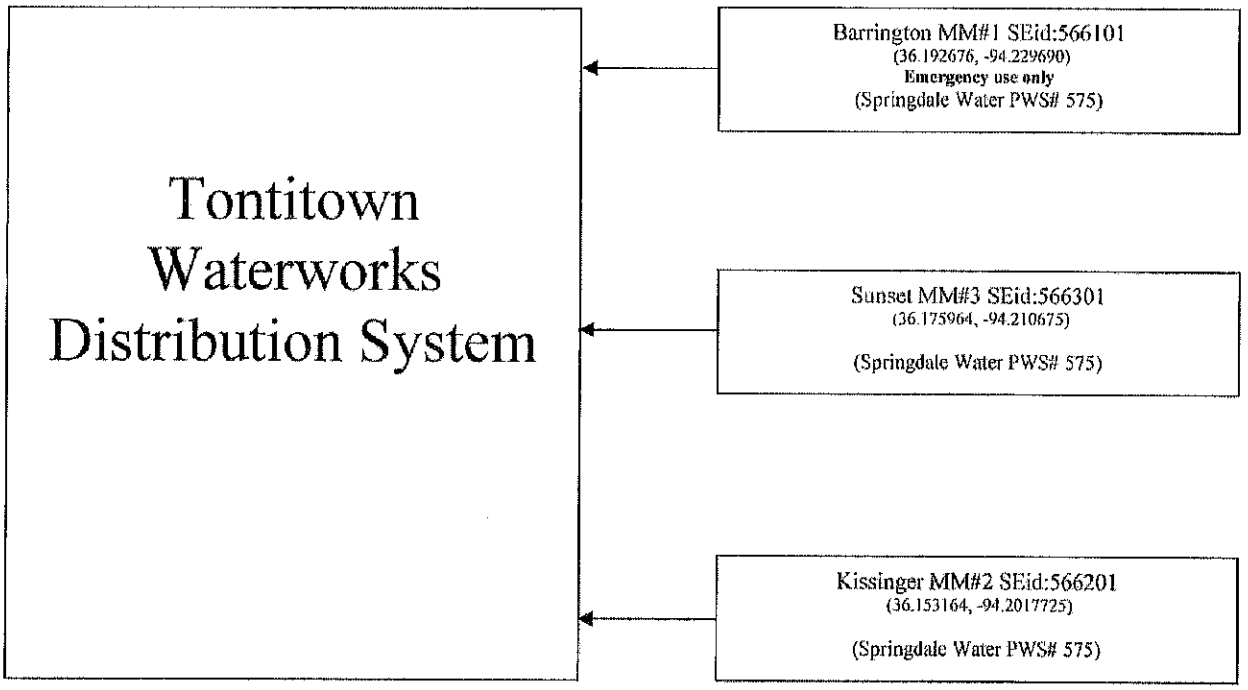
Emergency Contact Person: James Clark Emergency Contact Phone Number: 479-263-9216

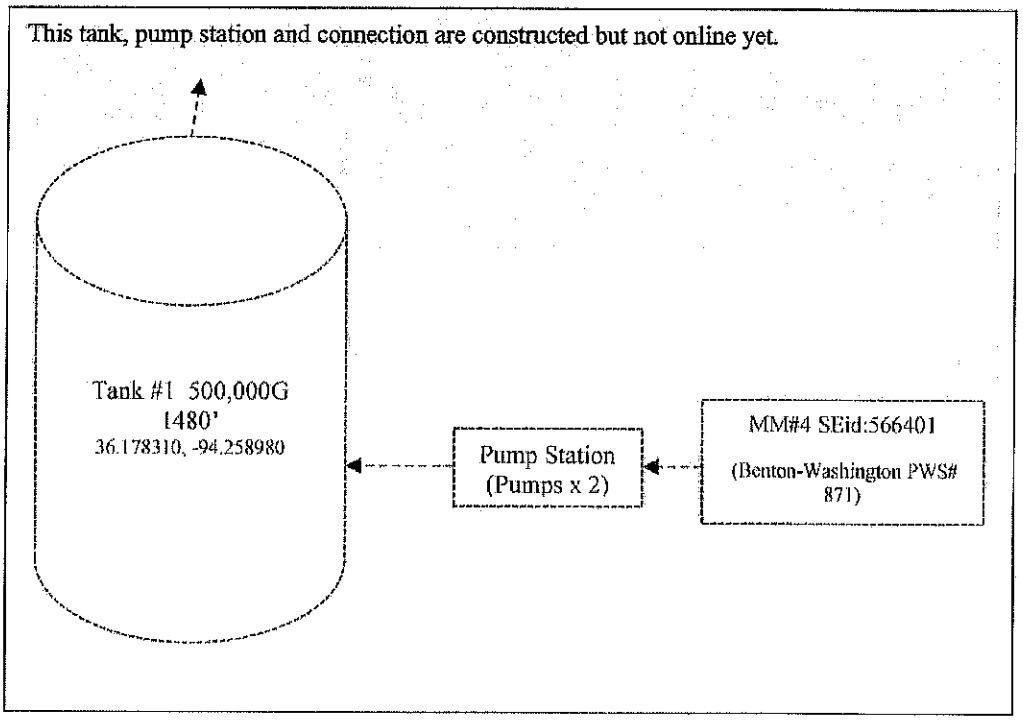
Type Code	Contact Name	Title	Mailing Address	City	State	Zip Code	E-Mail
A,B,R,D	James Clark	Public Works Director	P.O. Box 305	Tontitown	AR	72770	pwdirector@tontitownar.gov
$	Rachel Bellamy	Admin. Assistant	P.O. Box 127	Tontitown	AR	72770	billing@tontitownar.gov
O	Paul Colvin Jr.	Mayor	P.O. Box 305	Tontitown	AR	72770	mayor@tontitownar.gov

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

Name of System: **Tontitown Waterworks** PWS # **566**

Tontitown Waterworks Distribution Schematic





PWSid: 566
Tontitown Waterworks
Schematic Update:10MAY19

ARKANSAS
DEPARTMENT OF HEALTH

Arkansas Department of Health

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Governor Asa Hutchinson
Nathaniel Smith, MD, MPH, Secretary of Health

Engineering Section, Slot 37 Ph (501) 661-2623 Fax (501) 661-2032
www.healthy.arkansas.gov/eng After Hours Emergency (501) 661-2136

16 September 2019

TONTITOWN WATERWORKS
JAMES CLARK
PO BOX 305
TONTITOWN, AR 72770

RE: 2019 SANITARY SURVEY
TONTITOWN WATERWORKS– PWS 566

ATTN: JAMES CLARK

Enclosed is a copy of the Sanitary Survey completed for TONTITOWN WATERWORKS. Please note the comments made throughout the survey.

The water system is required by public Law 93-523 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.

The valuable assistance provided in the conduct of this Sanitary Survey by TONTITOWN WATERWORKS personnel is recognized and appreciated.

If there are any questions concerning this survey, please contact me at 501-661-2623.

Sincerely,

Jason Bird
District 1 Environmental Health Specialist
Engineering Section - ADH

Enclosures: Sanitary Survey

RT;AP;JB;jb