

PWSD

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MISSISSIPPI STATE DEPARTMENT OF HEALTH

REPORT OF INSPECTION OF DRINKING WATER SUPPLY

PWS: 0230067 Class: E

An inspection of the PEARLINGTON WATER AND SEWER DISTRICT water supply in HANCOCK county was made on 07/11/2017. Present at the time of inspection was ZOE L BRETZIUS-BOWERS, OPERATOR; SCOTT BURGE, ENGINEER; WRITER. Official JAMES LAMY Address PO BOX 130 PEARLINGTON MS 39572 W.W. Operator ZOE L BRETZIUS-BOWERS Address 521 GENIN STREET BAY ST LOUIS MS 39520 No. Connections 560 No. Meters ___ Population Served 1478 Field Chemical Analysis: pH ___ Cl2(free) 0.6 Cl2(total) 1.2 H2S N/A Iron Fluoride ___ Point of Sampling DISTRIBUTION Water Rates ___

COMMENTS

Technical: 4 Managerial: 5 Financial: 5
OVERALL CAPACITY RATING: 4.7 / 5.0

- 1. The water system appeared to be well maintained at the time of the inspection.
2. This system purchases water from the Hancock County Utility Authority (PWS ID# 0230070).
3. All dead-end water lines should be flushed on a routine schedule to clear the lines of sediment and stagnant water.
4. Whenever system pressure is lost, even for brief periods of time, contaminants may be introduced to the system through back flow or back-siphonage. When this occurs, system officials should notify all customers in the affected area to boil their drinking water until clear bacteriological samples have been obtained.
5. Before any improvements are made to the water system, plans and specifications by a Registered Engineer must be approved by the Mississippi State Department of Health.

6. During the next inspection, we will need to check the records that the system maintains in accordance with the requirements of the Safe Drinking Water Act. These records should be in separate folders and include the following:
 - Bacti Site Plan with Map & Bacteriological sample results - 5 yrs.
 - Other water quality analysis - 10 yrs.
(nitrates, inorganics, P-Chems, fluoride, radiological, VOC's)
 - Lead and Copper Site Plan & Lead and Copper results - 12 yrs.
 - Inspection Reports - 10 yrs.
 - Annual Report - 3 yrs.
 - Operator's Logbook - 5 yrs.
 - Actions taken by the system to correct violations - 3 yrs.
 - Records concerning a variance or exemption - 5 yrs.
 - All other Mississippi Department of Health correspondence - 3 yrs.
7. All customers with private wells cross-connected with the water system should be required to disconnect their well from the plumbing served by the water system. Cross-connection with a private well is hazardous practice and can result in contamination of the community water system.
8. The Security Vulnerability Self-Assessment and Emergency Response Plan must be updated annually. This will be reviewed at each annual inspection.

Completed by Wendy Ferrill, P.E. on 07/14/2017.

Reviewed by Ralph Hayes, P.E. on 07/14/2017.

If you have any questions, please call (228)297-5187.

pc:

JAMES LAMY, OFFICIAL
ZOE L BRETZIUS-BOWERS, OPERATOR



**Mississippi Department of Health
Bureau of Public Water Supply**

STANDARD FORM

FY 2018 Public Water System Capacity Assessment Form

NOTE: This form must be completed whenever a routine sanitary survey of a public water system is conducted by a regional engineer of the Bureau of Public Water Supply

PWS ID#: 0230067 Class: E Survey Date: 07-11-2017 County: HANCOCK
 Public Water System: PEARLINGTON WATER AND SEWER DISTRICT Conn: 560
 Certified Waterworks Operator: ZOE L BRETZIUS-BOWERS Pop: 1478

CAPACITY RATING DETERMINATION

Technical (T) Capacity Rating: [4] Managerial (M) Capacity Rating [5] Financial (F) Capacity Rating [5]

$$\text{Capacity Rating} = \frac{T + M + F}{3} = \frac{14}{3} = 4.7$$

Overall Capacity Rating = 4.7

Completed by Wendy Ferrill, P.E. on 07/14/2017

Reviewed by Ralph Hayes, P.E. on 07/14/2017

Comments: _____

Technical Capacity Assessment	Point Scale	Point Award
[T1] Does the water system have any significant deficiencies? [Y <input checked="" type="radio"/> N]	N - 1pt. Y - 0pt.	1
[T2] 1) Was the water treatment process functioning properly? [<input checked="" type="radio"/> Y <input checked="" type="radio"/> N] (i.e. Is pH, iron, chlorine, fluoride, etc. within acceptable range?) 2) Was needed water system equipment in place and functioning properly at the time of survey? [<input checked="" type="radio"/> Y <input checked="" type="radio"/> N] (NOTE: Equipment deficiencies must be identified in survey report.) 3) Were records available to the regional engineer clearly showing that all water storage tanks have been inspected and cleaned or painted (if needed) within the past 5 years? [Y <input checked="" type="radio"/> N <input checked="" type="radio"/> NA] (NOTE: All YESs required to receive point)	All Y - 1 pt. Else - 0 pt.	1
[T3] 1) Was the certified waterworks operator or his/her authorized representative present for the survey? [<input checked="" type="radio"/> Y <input checked="" type="radio"/> N] 2) Was log book up to date and properly maintained? [<input checked="" type="radio"/> Y <input checked="" type="radio"/> N] (Are minimum days being met based on system classification) 3) Was the water system properly maintained at the time of survey? [<input checked="" type="radio"/> Y <input checked="" type="radio"/> N] 4) Did operator/system personnel satisfactorily demonstrate to the regional engineer that he/she could fully perform all water quality tests required to properly operate this water system? [<input checked="" type="radio"/> Y <input checked="" type="radio"/> N] (NOTE: All YESs required to receive point)	All Y - 1 pt. Else - 0 pt.	1
[T4] 1) Does water system routinely track water loss and were acceptable record available for review? [<input checked="" type="radio"/> Y <input checked="" type="radio"/> N] 2) Is water system overloaded? (i.e. serving customers in excess of MSDH approved design capacity)? [Y <input checked="" type="radio"/> N] 3) Was there any indication that the water system is/has been experiencing pressure problems in any part(s) of the distribution system? [Y <input checked="" type="radio"/> N] (based on operator information, customer complaints, MSDH records, other information) 4) Are well pumping tests performed routinely? [Y <input checked="" type="radio"/> N <input checked="" type="radio"/> NA] (NOTE: YES FOR #1 & YES OR N/A FOR #4 AND NOs FOR #2 & #3 required to receive point)	1)Y - pt. 2)N - pt. 3)N - pt. 4)Y - pt.	1
[T5] 1) Does the water system have the ability to provide water during power outages? (i.e. generator, emergency tie-ins, etc.) [<input checked="" type="radio"/> Y <input checked="" type="radio"/> N] 2) Does the water system have a usable backup source of water? [Y <input checked="" type="radio"/> N] (NOTE: Must be documented on survey report)	All Y - 1 pt. Else - 0 pt.	0
TECHNICAL CAPACITY RATING = [<u>4</u>] (Total Points)		

Managerial Capacity Assessment	Point Scale	Point Award
[M1] Were all SDWA required records maintained in a logical and orderly manner and available for review by the regional engineer during the survey? <input checked="" type="radio"/> Y <input type="radio"/> N	Y - 1pt. N - 0pt.	1
[M2] 1) Have acceptable written policies and procedures for operating this water system been formally adopted and were these policies available for review during the survey? <input checked="" type="radio"/> Y <input type="radio"/> N 2) Have all board members (in office more than 12 months) completed Board Member Training? <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA 3) Does the Board of Directors meet monthly and were minutes of Board meetings available for review during the survey? (NOTE: Quarterly meetings allowed if system has an officially designated full time manager) <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA (NOTE: ALL YESs or NAs required to receive point. NA - Not Applicable)	All Y - 1 pt. Else - 0 pt.	1
[M3] Has the water system had any SDWA violations since the last Capacity Assessment? <input type="radio"/> Y <input checked="" type="radio"/> N	N - 1pt. Y - 0pt.	1
[M4] Has the water system developed a long range improvements plan and was this plan available for review during the survey? <input checked="" type="radio"/> Y <input type="radio"/> N	Y - 1pt. N - 0pt.	1
[M5] 1) Does the water system have an effective cross connection control program in compliance with MSDH regulations? <input checked="" type="radio"/> Y <input type="radio"/> N 2) Was a copy of the MSDH approved bacti site plan and lead/copper site plan available for review during the survey and do the bacti results clearly show that this approved plan is being followed? <input checked="" type="radio"/> Y <input type="radio"/> N (NOTE: All YESs required to receive point)	All Y - 1 pt. Else - 0 pt.	1
MANAGERIAL CAPACITY RATING = [<u>5</u>] (Total Points)		

Financial Capacity Assessment	Point Scale	Point Award
[F1] Has the water system raised water rates in the past 5 years? <input checked="" type="radio"/> Y <input type="radio"/> N (NOTE: Point may be awarded if the water system provides acceptable financial documentation clearly showing that a rate increase is not needed, i.e. revenue has consistently exceeded expenditures by at least 10%, etc.)	Y - 1pt. N - 0pt.	1
[F2] Does the water system have an officially adopted policy requiring that water rates be routinely reviewed and adjusted as appropriate and was this policy available for review during the survey? <input checked="" type="radio"/> Y <input type="radio"/> N	Y - 1pt. N - 0pt.	1
[F3] Does the water system have an officially adopted cut-off policy for customers who do not pay their water bills, was a copy of this policy available for review by the regional engineer, and do system records (cut-off lists, etc.) clearly show that the water system effectively implements this cut-off policy? <input checked="" type="radio"/> Y <input type="radio"/> N	Y - 1pt. N - 0pt.	1
[F4] Was a copy of the water system's officially adopted annual budget available for review by the regional engineer and does the water system's financial accounting system clearly and accurately track the expenditure and receipt of funds? <input checked="" type="radio"/> Y <input type="radio"/> N	Y - 1pt. N - 0pt.	1
[F5 - Municipal Systems] 1) Was a copy of the latest audit report available for review at the time of the survey? <input checked="" type="radio"/> Y <input type="radio"/> N 2) Does this audit report clearly show that water and sewer fund account(s) are maintained separately from all other municipal accounts? <input checked="" type="radio"/> Y <input type="radio"/> N (NOTE: Yes answer to all questions required to receive point.)	All Y - 1 pt. Else - 0 pt.	1
[F5 - Rural Systems] 1) Was the latest financial report / audit report available for review? <input type="radio"/> Y <input checked="" type="radio"/> N 2) Does the latest financial report show that receipts exceeded expenditures? <input type="radio"/> Y <input checked="" type="radio"/> N (NOTE: Yes answer to both questions required to receive point)	All Y - 1 pt. Else - 0 pt.	
FINANCIAL CAPACITY RATING = [<u>5</u>] (Total Points)		

MISSISSIPPI DEPARTMENT OF HEALTH
BUREAU OF PUBLIC WATER SUPPLY
DESIGN CAPACITY SHEET

System: PEARLINGTON WATER AND SEWER DISTRICT
ID: 0230067 Class: E County: HANCOCK

Date Completed: 07/12/2017
Connections - Actual: 560 Equivalent: 560
Design Capacity: 2250 Percent Design Capacity: $560/2250 = 24.9\%$

Design Capacity = Well Capacity + (Elevated Storage / 200)

Design Capacity = $1000 + (250,000 / 200)$

Design Capacity = $1000 + 1250$

Design Capacity = 2250

Since the well is on-site and can fill 250,000 gallons in 6 hours, the full design capacity can be used.

of connections = 560 from Pearlinton Water and Sewer District

% of Design Capacity = $(\# \text{ of connections} / \text{design capacity}) * 100$

% of Design Capacity = $(560 / 2250) * 100$

% of Design Capacity = 24.9

**MISSISSIPPI STATE DEPARTMENT OF HEALTH
DIVISION OF WATER SUPPLY
PUBLIC WATER SUPPLY - MASTER DATA SHEET**

Name of Supply: Pearlington Water & Sewer District Owner: County County: Hancock

PWS ID# 0230067 Class: D Date of Last Inspection: 07-11-2017 Master Meter: N/A

Actual Connections: 560 Equivalent Connections: 560 Design Capacity: 2250

% of Design Capacity: 24.9% GWR Status: N/A

Source Supply: Purchase Surface Ground Number of Wells:

<u>Well ID</u>	<u>Location</u>	<u>Year Constructed</u>	<u>Capacity (gpm)</u>	<u>Pressure (psi)</u>	<u>Casing (in)</u>	<u>Screen (in)</u>	<u>Depth (ft)</u>	<u>Cl2 Setting</u>
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Purchases water from Hancock County Utility Authority – Pearlington (0230070)

<u>Treatment:</u>	<u>No</u>	<u>Location</u>	<u>Type</u>	<u>Capacity (max)</u>	<u>Settings</u>	<u>Remarks</u>
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<u>Storage:</u>	<u>Location</u>	<u>Year Constructed</u>	<u>Material</u>	<u>Capacity (gallons)</u>	<u>Remarks</u>	<u>Inspection Date</u>
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<u>Generator:</u>	<u>Type</u>	<u>Location</u>	<u>Rating</u>	<u>Fuel</u>	<u>Routine</u>
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