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DEPARTMENT FOR ENVIRONMENTAL PROTECTION

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KENTUCKY DIVISION OF WATER
WELLHEAD PROTECTION PLAN
5-YEAR UPDATE FORM

Update Requirements:

This form should be used for the 5-year update submittal requirements of the Kentucky Wellhead Protection Program (WHPP) in compliance with 401 KAR 4:220 and SDWA Section 1428. Once the form is complete, please sign and send to:

Kentucky Division of Water
Watershed Management Branch
Attention: Dale Booth
300 Sower Boulevard, 3rd Floor
Frankfort, Kentucky 40601 or dale.booth@ky.gov

For assistance, contact Dale Booth at (502) 782-6895 or dale.booth@ky.gov

System Information:

PWS Name: **Jonathan Creek Water District**

PWS ID Number: **KY0790216**

AI Number: **2941**

Contact Person/Title: **David Lovett/Superintendent**

Mailing Address: **PO Box 414 Benton, KY 42025**

Telephone: **270-354-8474** Email: **contact@jonathancreekwater.com**

System Type*: **Community**

*Community; Non-Transient/Non-Community; Transient/Non-Community

Source*: **Wells (2)**

AKGWA #(s): **Well #I 0004-1466 Well #II 0004-1467**

County: **Marshall** ADD: **PADD**

WWD Permit #: **0658** Permitted Amount (mgd): **1.3**

Population Served: **7129**

Overall Susceptibility Rating*: **Medium** *High, Medium or Low

WHPP Changes Summary: **No changes**

Update Form Instructions:

Please complete each section that applies to any system or WHPP updates and submit the supporting documentation. Please indicate if a section is not applicable to this update. **Sections 4 and 6 through 11 are required for every 5-year update.**

Please sign certification on the last page upon completion.

Section Updates:

Section 1: Treatment Plant

If the treatment plant location has changed then provide a new location map below. This can be a county roadmap or a GIS-produced map. Please use the area below to provide relevant details, or to indicate that no change has occurred.

No changes

Section 2: Water Withdrawal and Water Quality

If there have been changes in water withdrawal rates or water quality since the last submittal, provide a discussion of the relevant details in the space below (include new Water Withdrawal Permit Number if applicable). Include supporting documentation as an attachment.

No changes

Section 3: Change or Modification to Groundwater Source

If the system has changed or modified the wells or springs being used, provide the following: 1) a description of changes/modifications; 2) copies of the relevant form(s) (Kentucky Water Well Record, Well Maintenance & Plugging Record, Well Inspection Form or Spring Inventory Record); and 3) any other information relating to well construction (i.e., installation logs, driller's logs, lithological or geophysical logs), below.

No changes

Section 4 (REQUIRED): Planning Team

Effective water supply protection requires community involvement and public awareness. Identify the planning team consisting of a leader and at least two team members, with their respective titles, below.

Leader:

David Lovett - Superintendent/Water Treatment Operator

Team Members:

Jennifer Miller - Office Manager/Water Treatment Operator

Jim Dossett - Water Treatment Operator

Section 5: WHPA Delineation

If the system is revising a Wellhead Protection Area (WHPA) delineation, or if a new groundwater source has been added since the last submittal, provide a site-specific description of the local geology and aquifer. Include references for published literature. Provide a summary of any aquifer tests (i.e. pumping tests, slug tests, tracer tests), including data gathering and evaluation methods. Show calculations and supporting data for each WHPA delineated or revised. Include the detailed hydrogeologic report as an attachment.

No changes

Section 6 (REQUIRED): WHPA Map

Provide a WHPA map that shows each groundwater source labeled with the appropriate AKGWA #, all protection zones identified and the Contaminant Source Inventory (CSI) point locations. If no changes have occurred since the last submittal, then a copy of the most recent WHPA/CSI map can be resubmitted. To view the most recent delineations for your system, please visit the [Source Water Protection Viewer](#). Please contact program staff for assistance.

No changes

Section 7 (REQUIRED): Contaminant Source Inventory

Provide an updated CSI in table format. This can be created using the spreadsheet template provided, and copied into the space below. If no changes occurred since the last update, the table can be pulled from previous WHPP documents. Each contaminant source listed should have a Contaminant Source ID # that corresponds to the WHPA map in Section 6. The CSI table must show the susceptibility determination ranking for each contaminant source. Include a brief narrative discussion of the overall system susceptibility. For more information on potential sources of contamination, please visit the DOW's [Web Tools for SWP Planning website](#). Please contact program staff for assistance.

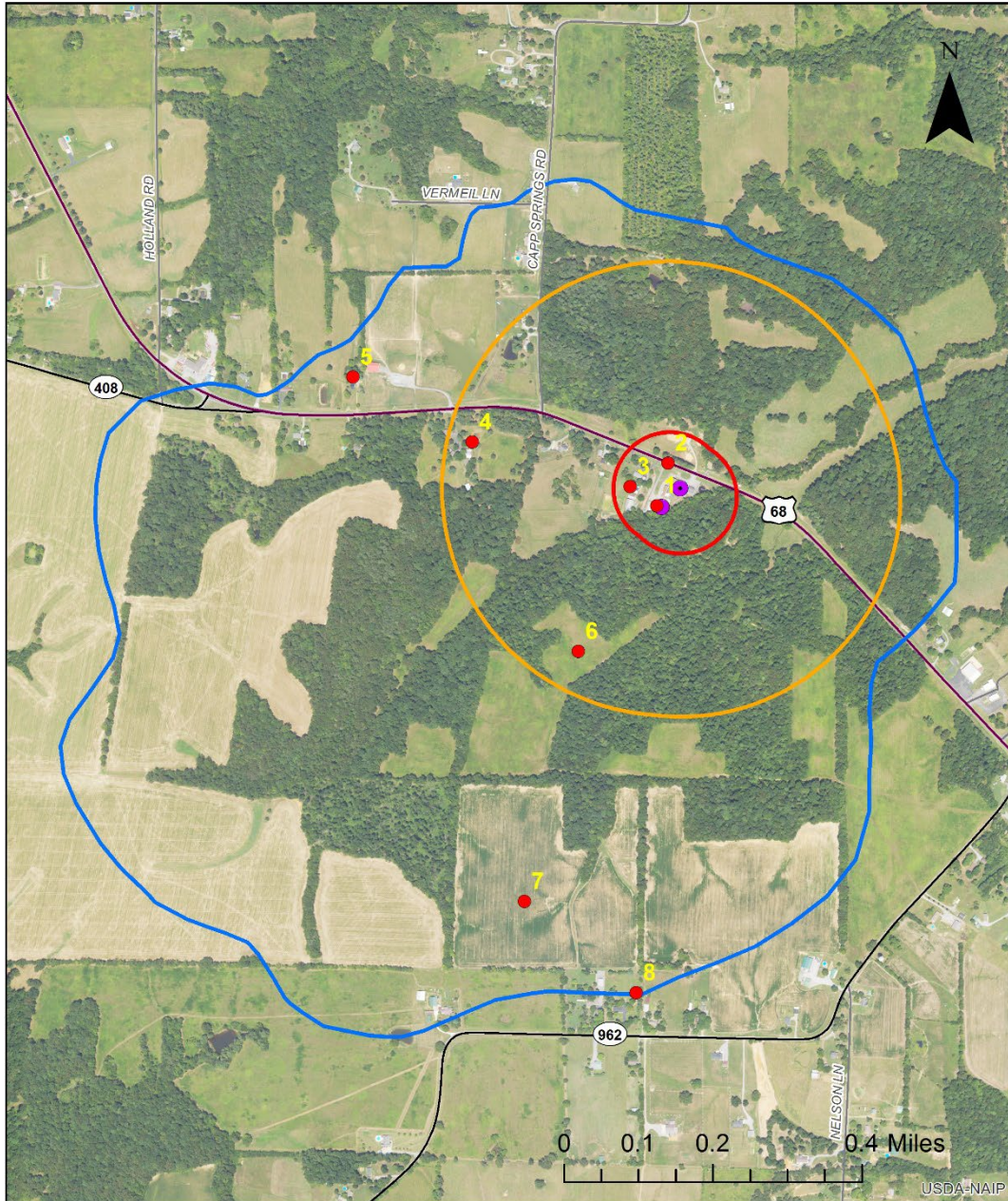
Contaminant Source Inventory and Susceptibility Analysis for *Jonathan Creek Water District/KY0790216*

CSI Map ID #	Site ID	Contaminant Source Type	CS CODE	Name	Address	Lat	Lon	Quantity	Zone	Proximity Value	Contaminant Value	Hydrologic Sensitivity	Numeric Rating	Susceptibility Ranking	Contaminant Notes
1		Drinking Water Treatment Plants	M-3	Chemical Storage	Jonathan Creek WD, Benton, KY	36.85104	-88.24848	1	1	3	3	2	17	HIGH	
2		Major Roadways	M-7	HWY 68	Benton, KY	36.85187	-88.24824	1	1	3	3	2	17	HIGH	
3		Residential Septic	R-4	Septic Systems	Benton, KY	36.85139	-88.24914	2	1	3	2	2	14	MED	
4		Residential Septic	R-4	Septic Systems	Benton, KY	36.85219	-88.25299	4	2	2	2	2	12	MED	
5		Residential Septic	R-4	Septic Systems	Benton, KY	36.85339	-88.25592	6	3	1	2	2	10	MED	
6		Crops : Corn, Soybean, Wheat	A-5	Row Crops	Benton, KY	36.84817	-88.25029	1	2	2	3	2	15	MED	
7		Crops : Corn, Soybean, Wheat	A-5	Row Crops	Benton, KY	36.84328	-88.25143	1	3	1	3	2	13	MED	
8		Domestic Wells	G-7	Residence: Bill Jones	Benton, KY	36.84156	-88.24867	1	3	1	2	2	10	MED	

CSI Totals	Low	
	Med	2
	High	6

Overall Susceptibility Ranking	High
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Contaminant Source Inventory



- Potential Contaminants
- Water Wells (PWS)
- Zone 1: 180 Day time of travel for potential contaminant
- Zone 2: 10 year time of travel
- Zone 3: Hydrologic Boundary

Section 8 (REQUIRED): Management Strategies

Provide a discussion of the previous and newly proposed management strategies to prevent source water contamination. This discussion must include the previous management strategies that were implemented as well as the goals that were met. Next, include any NEWLY proposed management strategies, associated goals, implementation plans and the party responsible for implementation. For information about wellhead protection strategies please visit the DOW's [Source Water Protection Strategies website](#).

Previous Management Strategy Update:

2016 WHPA: Two (2) road signs were positioned on U.S. HWY 68 at the intersection of WHPA-3 to inform highway users about the sensitive and critical nature of the area they are entering. The signs also provide the appropriate telephone numbers in case of an accidental spill.

The Consumer Confidence Reports (CCR) have been made available by posting in the Tribune-Courier annually. These CCR's summarize information regarding water sources used, any detected contaminants, information on compliance and educational information.

A Groundwater Protection Plan (GPP) as required by Kentucky State Law is reviewed and updated as necessary.

Generator was recently installed on the booster station.

Jonathan Creek Water District has a working relationship with all farmers in the area. Currently, contact lists are being made of the area farmers so they can be contacted in case of an accidental spill in the area.

Newly Proposed Management Strategies:

Proposed future management strategies include creating awareness by reinstating the REACH Alert system. The goal is to get more customers subscribed by importing all customer numbers into the system. The goal is to use the system which will create faster alert time of informing the public in the event of an emergency or situation that would affect the Jonathan Creek Water District customers.

Section 9 (REQUIRED): Contingency and WHP Planning

Provide a description of Contingency and WHP Planning. Complete the Emergency Response Phone List, Procedures for Public Notification, identification of Potential Future Problems and the procedures to establish Alternative Water Supplies. This section must also address how often the WHPP will be reviewed and updated.

Emergency Response Phone List

Fill in all Blanks and Phone Numbers with appropriate information.

Local Emergency Response	Phone Number
Plant Operator	270-205-0455
Fairdealing-Olive Fire Department	270-354-8541
Benton City Police Department	270-527-3126
Marshall County Sheriff's Department	270-527-3112
Local Emergency Dispatch <i>Click here to enter text.</i>	911

State and Federal Assistance	Phone Number
Kentucky DOW (Frankfort)	502-564-3410
Kentucky DOW Associated Field Office (FO) Paducah	270-898-8468
Kentucky Environmental Response Team 24 hour response line	(502) 564-2380 (800) 928-2380
Kentucky State Fire Marshall	(502) 573-0382

Any Other Pertinent Contacts	Any Other Pertinent Numbers
<i>Click here to enter text.</i>	PHONE NUMBER
<i>Click here to enter text.</i>	PHONE NUMBER
<i>Click here to enter text.</i>	PHONE NUMBER

Procedures for Public Notification:

In the event of a water system emergency that would threaten the health or life of the public, use the following procedure. Prepare and broadcast an advisory, including directions for the public. Describe the public notification process and provide contacts for those media outlets. If the system uses methods other than traditional media please list them.

see attached

Newspaper, Television, and Radio Stations	Phone Numbers
Tribune Courier	270-527-3162
WPSD Local 6 Newsroom	270-415-2001

Potential Future Problems:

The most likely potential future problems include accidental releases and nonpoint source runoff from agriculture, and severe weather events.

Alternative Water Supply (Short and Long Term):

List all current interconnections with other water systems. Discuss the capacity of each potential alternative water supply to sustain normal operations.

We are currently interconnected to North Marshall Water District as an alternative water supply. Additionally, we are actively working to interconnect to City of Hardin so that in the event of an emergency, we could have a secondary back-up supplier.

Our short-term contingency plan is issuing boil water notifications to customers. Describe the short term and long-term water supply alternatives that address each of the potential future problems identified above.

Schedule for Update and Review:

The Wellhead Protection Plan will be reviewed regularly and updated every five years as required by regulation.

Section 10 (REQUIRED): Copies of Public Notices and Education Materials

Provide copies of wellhead protection public notices and education materials distributed.

The updated wellhead protection plan will be posted online and the link provided to customers on their monthly bill. Documentation of this action will be provided to the Division of Water.

Section 11 (REQUIRED): Public Meeting Documentation***

Provide the record of WHPP public meeting attendance, minutes and comments.

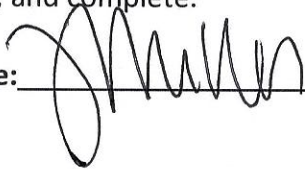
NA for WHPP update

***Non-Community Water Systems are not required to have public meetings for 5-year updates, but must post a public notice in a conspicuous place. A public notice template is provided as a separate document. However, public input and associated documentation are encouraged. Please contact program staff if you have any questions.

Certification Signature (TO BE COMPLETED BY PLANNING REPRESENTATIVE):

"I certify that this document and all attachments were prepared under my direction or supervision. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete."

Signature: _____



Date: 05/03/24

Printed Name/Title:

Assistance:

For any assistance, please contact Wellhead Protection Staff:

Chip Zimmer
(502) 782-7141
Edward.Zimmer@ky.gov

Dale Booth
(502) 782-6895
Dale.Booth@ky.gov

Please sign and return completed form to:

Kentucky Division of Water
Watershed Management Branch
Attention: Dale Booth
300 Sower Boulevard, 3rd Floor
Frankfort, Kentucky 40601
Or dale.booth@ky.gov

Procedures for Public Notification

In the event of a water system emergency that could threaten public health, the following procedures should be followed. The utility will post/announce a brief statement concerning the nature of the emergency with directions on necessary steps to the following outlets:

- WPSD Local 6 – 270-415-2001, newstip@wpsdlocal6.com
- Marshall County Health Department – 270-527-1496
- The Lake News – 270-395-5858, news@thelakenews.com
- Marshall County Daily – news@marshallcountydaily.com
- The Paducah Sun – news@paducahsun.com
- Tribune Courier – 270-527-3162, news@tribunecourier.com