

ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

300 Sower Boulevard FRANKFORT, KENTUCKY 40601

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: Allan Shingleton
300 Sower Boulevard, 3rd Floor
Frankfort, Kentucky 40601 or allan.shingleton@ky.gov

For assistance contact Allan Shingleton at (502) 782-6907 or allan.shingleton@ky.gov

System Information:

PWS Name: Hardin County Water District #2

PWS ID Number #0470175

Al Number: 1674

Contact Person/Title:John Cruse

Mailing Address: P.O. Box 10 White Mills, KY 42788

Telephone: (270) 862-3213 Email: jcruse@hcwd2.org

System Type*: Community

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

Source*: Spring *Well(s) or Spring(s) and total number of each

County: Hardin

ADD: Lincoln Trail ADD

WWD Permit #: 1125 Permitted Amount (mgd): 6 mgd

Population Served: 41,900

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

WHPP Changes Summary: No significant 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

There has been no change to the treatment plant location since the previous WHPP submittal. A copy of the County Highway Map with the plant's marked location has been attached.

Section 2: Water Withdrawal and Water Quality

Since the previous WHPP submittal, Hardin County Water District #2 saw an increase in their water withdrawal at the White Mills Spring that slightly exceeded their permitted amount. In 2017 the Water District began purchasing water from the Louisville Water Company which allowed them to return to normal withdrawal amounts from the spring. In 2020 Hardin County Water District #2 experienced an increased demand from interconnected Hardin County Water District #1, which had closed their Muldraugh Plant for renovation upgrades. This added demand forced Hardin County Water District #2 to again exceed their permitted withdrwal amount from the spring. The minimum purchase amount increased considerably with the Louisville Water Company in 2021. This agreement allows for substainally less water withdrawal from the White Mills Spring moving forward.

Section 3: Change or Modification to Groundwater Source

There has been no modification to the goundwater source (White Mills Spring) since the previous WHPP submittal. A copy of the Spring Inventory Form has been attached.

Section 4 (REQUIRED): Planning Team

Leader:

John Cruse - Chief Water Plant Operator

Team Members:

Shaun Youravich – General Manager Ryan Kynett – Water Quality Supervisor

Section 5: WHPA Delineation

The Water District will not be revising their approved WHPA delination. A series of three dye traces were employed to delineate and determine the extent of groundwater contribution to the White Mills Spring.

Section 6 (REQUIRED): WHPA Map

Copies of the WHPA Map and CSI Map have been attached

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 Souce 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 discussion of the overall system susceptibility. Please contact program staff for assistance.

There have been no changes made to the CSI since the previous WHPP submittal. A copy of the CSI table has been attached.

Section 8 (REQUIRED): Management Strategies

Previous Management Strategy Update:

The Water District uses a strategy of public education to promote springhead protection awareness and involve the community in the protection of their groundwater source. The Water District will work within the framework of existing regulations. Public education will be used to draw attention to the sprighead protection program and educate the public about their roles in protection efforts. The Water District has an annual Groundwater Protection Week Campaign via social media that engages the community with protection activities and efforts. The Water District will utilize the annual Consumer Confidence Report along with brochures to educate the public concerning information and the status of springhead protection planning.

The Water District will assist local landowners and residents with the implementation of Groundwater Protection Plans as required by the State.

The Water District will assist local farmers with State required BMPs.

The Water District will install WHPA road signs at the 5 main entry points to the Basin and on ramps to the Parkway as directed by DOW.

The Water District will report any illegal dumping or spills to the regional office.

Newly Proposed Management Strategies:

The 5 WHPA road signs have been placed at the designated locations.

The Water District will comply with groundwater protection planning regulations by reviewing or updating the current Groundwater Protection Plan.

The Water District will continue to report any illegal dumping or spills to the regional office.

Hardin County Water District #2 will continue to promote the protection of their water supply to their customers and residents by utilizing the annual CCR as well as an annual Groundwater Protection Week Campaign via social media along with remaining vocal about any activities that could adversely impact the water supply.

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	270-862-3213		
Fire Department	270-769-2900		
KY State Police	270-766-5078		
Hardin County Sheriff	270-765-5133		
Local Emergency Dispatch Click here to enter text.	911		

State and Federal Assistance	Phone Number		
Kentucky DOW (Frankfort)	502-564-3410		
Kentucky DOW Associated Field Office Louisville	502-425-4671		
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
Click here to enter text.	PHONE NUMBER
Click here to enter text.	PHONE NUMBER
Click here to enter text.	

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.

Newspaper, Television, and Radio Stations	Phone Numbers
Radio WQXE	270-737-8000
Television Wave 3	502-585-2201

Potential Future Problems:

No particular problems are identified at this time.

Alternative Water Supply (Short and Long Term):

Short-term contingency plans include boil water notification, encouraging conservation practices, and shifting to an interconnected community water supply if necessary. Hardin County Water District #2 has interconnections with neighboring Hardin County WD #1, Larue County WD, Grayson County WD, Hodgenville Water Works, and the Louisville Water Company.

Long-term contingency plans would include modification to the treatment process or consideration of an additional water source.

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.

Click here to enter text.

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

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

Click here to enter text.

***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: 4-22-21

Printed Name/Title: John Cruse/ Chief Plant Operator

Assistance:

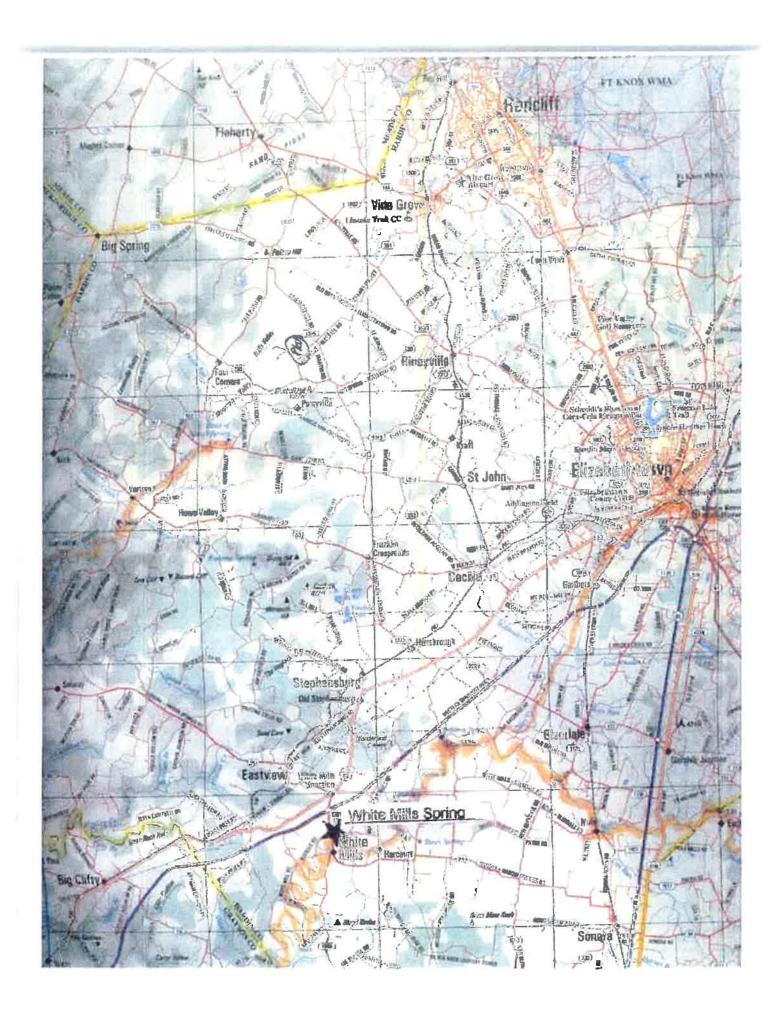
For any assistance please contact Wellhead Protection Staff:

Rob Blair (502) 782-6893 Robert.Blair@ky.gov

Allan Shingleton (502) 782-6907 Allan.Shingleton@ky.gov

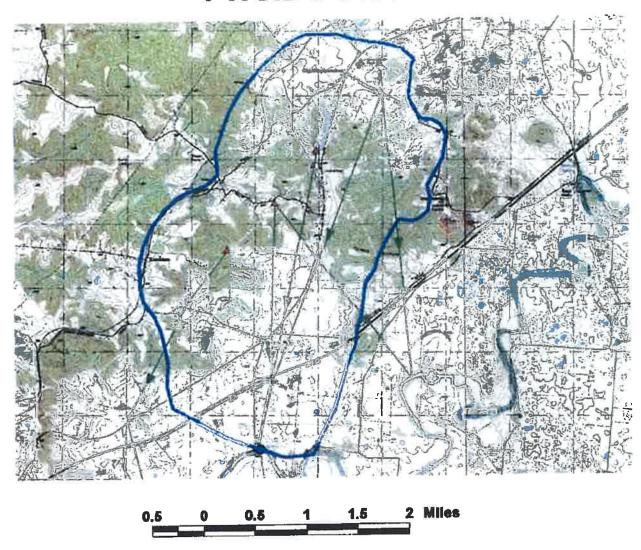
Please sign and return completed form to:

Kentucky Division of Water Watershed Management Branch Attention: Allan Shingleton 300 Sower Boulevard, 3rd Floor Frankfort, Kentucky 40601 or allan.shingleton@ky.gov



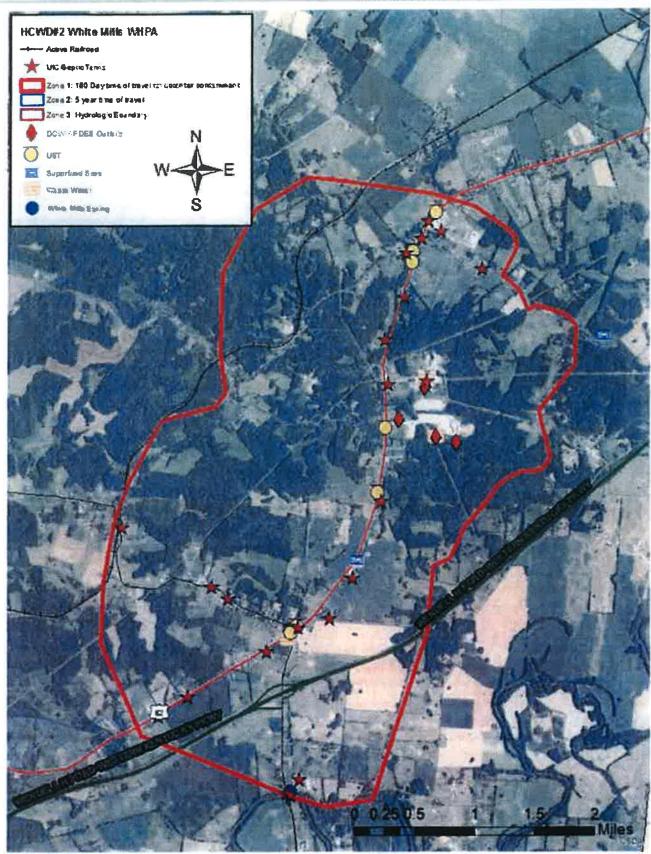
	KENTUCKY SPRING INVENTORY FORM						
	(1) AKGWA NUMBER: (2) 0 0 0 - 7 0 6 9 -	- 🔲 🔲 Kentucky Spring Tag					
	(2) GENERAL INFORMATION: Spring Owner's Name: Hardin Co. Water District First	#2 _{unknown} 9000-1	064				
	Mailing Address: PO Box 66 City: C - TOWN State: Ky Zip: 42 Phone: () no phone	() unknown -201 () unknown	JUL 26 1995				
2PH	(4) SPRING LOCATION: Spring Name: White Mils () unnamed USGS Quadrangle Name: Summit County: 10 y d/N Elevation: 610 (Ymap () altimeter () Abney level () other Latitude: 37 33 44 Longitude: 86 02 11 Physiographic or Hydrologic Region: () Blue Grass () Ohio River Alluvium () E. Coal Field (V Miss. Plateau () Jackson Purchase () W. Coal Field (5) SPRING CHARACTERISTICS: Spring type: () seep (V gravity () bluehole (artesian) () other. () unknown Is the spring the headwaters of a surface stream? () yes (Y no Which side of the stream is the spring (when facing upstream)? (V left () center () right () not applicable Type of flow: (V perennial () seasonal () intermittent Spring discharges from: (V cave () rock () fracture	(8) SPRING USE: () domestic (/ public supply () irrigation () industrial () livestock () monitoring () unregulated public access () unused () other PWSID #: Water Withdrawal Permit #: // 2 5 (9) SPRING SERVICE:	(10) TYPE OF TREATMENT SYSTEM: () none () water softener () water softener () water softener () charviolet () charviolet () charcoal filter () send filter () iron inhibitor () settling tank () other Is a treatment bypass available? () yes () no Describe water quality problem requiring treatment:				
	() soil () alluvium () mine adit () unknown () other Spring discharges into: (// stream () soil () swamp () pondorlake () sinkhole () other Name of water body spring discharges into: // // // // () unknown	() general water quality analysis requested () specific complaint investigation () general survey () ambient groundwater monitoring () other Spring Inventory					
	(6) WATER (DYE) TRACE INFORMATION: Have any water (dye) traces been run to/from this site? (V) yes () no () unknown	Other to #: Spring inventory #: [12) OPTIONAL USE:					
	Myes, who conducted the trace? Myll () unknown Address: USGS Louisville () unknown City: Louisville State: Ky Zip: Date of trace: Month Day Year	known					
	Pump Station	(13) COMMENTS: Swallet in bank of Nolin R to east of spring contrib					
	Nolin River	Dete: 7 26 95 Number	of Attached pages:				
,	Netribution: White copy to DOW, Pink Copy to inspecting Agency, Yellow Copy to Owner	Printed with State Fends	0EP-5071				

Hardin County Water District #2 White Mills Springhead Protection Area Map PWSID # 0470175









Contaminant Source Inventory and Susceptibility Analysis for Hardin County Water District #2 PWSID # 0470175

DI	Contract Source/Lead Un-	Affres	Cimingly	WHEFA	Value Value	Presimily Value	Hydrologic Soundbrilly	Numeric Rating	Sentropille Reside
1	Resirond		1	I	3	3	3	1B	High
2	Elizabefidown Quarry, 5 AST Diesel, gasoline, hydroliu, shojor oll, wante oli	Hwy. 62	5	ı	3	. 3	3	16	High
3	district substation	Hwy62	1	£	2	3	3	° 15	High
4	Gas Station, [UST] low, mid, high graphine, 2 AST diesel, heroshus stroke system	76 Station Hwy 62	. 3	1800	ģ	3	3 🚎	18	High
5	Ministe School, 2 large ceptio systems	Hwy. d2	2	t	3	3	3	18	High
6	Middle School, AST 10,000 grd dissel	Hey 62	J	1	3 (6)	. 3	3	. 18	He
7	Row Coops & pasture (6,000 accus)	Whole Protection Assa.	τ	Ł	3	3	3	18	Plijh
8	Salvage Tani, sepile system	84 Auto Recycle	4	1	· 3.	3	à	. 18.	High
9	AST dissel	Gen's Towieg, Hwy 62	1	1	3	3	3	12	High
10 -	Machine shop & sinc money, junk yeard	Crox Machine Stop, Hwy 84	Ĩ1	1	⊊ 3	3 100	3	: 18	High.
11	Gas Station, 4 UST 2 14,000 gad geochine, 6,000diesel, 4,000 kersone	Hwy \$4 & 62	4	1	3	3	3	18	1Hgh
ΙŻ	Clas Station 4 UST gasotino dicasi, buseno	Sum Pood Mart Monation Station, Kwy 84 & 62	ij.,	,	/ 3]	.3		ip 🖄	High
13	Machine shop & more sepale, junk yard	Weess Anto Rapair, Hery 62	1	1	3	3	э.	18	High
ķ	Soptio Systems, Water wells	Whole Protestion Aces	300	1	2	3,	æ.3	ta .	High
15	Highway	Western Kentucky Perkuny	1	1	3	3	3	18	High
	East View Shanglater House	East View Slaughter Plant, Hwy 86	I,	t	:3	3	3. 23	IB	High
:	Bridger and Colvents	Bridge # 880044 on Ry 84	Ĩ	1	1	3	3	12	Med
* ***	Bridges and Culvery	Builge # 800088 on Ky 1375	i	1	1	3	i j	· 12	Med Med
9	KCWD 12, WTP, KPDES Parmit	White Mile	1	1	2	3	3	15	High
0	HCWD #2, Landfill alogo WTP	White Mills	ř	1	3,	. s 3	3	iš	High
1	UIC Char 5, septio System	Whi to Mills Baptlet Chowda	1	1	2	3	3	15	High
2 .	UEC Chair 5, septio Byzinni	While Miles Christian Church	ï	1	R a n	2)	3	15	Bijh
3 1	URC Class S, sopije Byslem	Linevale Select	ĩ	i	2 2	: 3	3	15	High
(4.)	UKC Class J. septin System	White Mile Bell Park	i.	1 .	ű. <u>ş</u>	300	3	15	High
s 1	UIC Clase 5, suptis System	Jayon Premittee & Appliance	1	1	2	3	3	15	High
6	USC Class 5, suptio System	Highway of Holimes Church	į.	ř	2 6	3	: 3 `	15	liigh
7 (UIC Class 5, septio System	Hast View Post Office	1	1	2	3	3	15	High
i i	CATC Claim S, supplie System	Spesseers Value Market	ν.	į	ż	3	g* 3	is.	
	UEC Class S, suptio System	United Baptist Chapet	1	i	2	3	3	<u></u>	High.
) i	CAC Class S, nepale System	Stephensburg Chapel	1	1	,2	3	% * 3	15	High
	William Lindsoy & Son Farm Specily	Leitchfield Road, East View, Ky	1	ī	3	3	3	18	Eigh
	Policy Builden Auto Repair	3437 Stamulis East View Road	1	1	3	3	3	.te	
	Waste Generator or Transporter	George Love Property, 12407	ı	i e	3	3			in the same
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