



## BRIAN CUMBO

ATTORNEY AT LAW

86 W. Main St., Suite 100  
P.O. Box 1844  
Inez, KY 41224  
(606) 298-0428  
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ADMITTED IN KY AND WV

RECEIVED

SEP 1 2016

Public Service  
Commission

August 26, 2016

Aaron Greenwell, Acting Executive Director  
Public Service Commission  
P.O. Box 615  
Frankfort, KY 40602

RE: Martin County Water District  
PSC Case No. 2016-00142

Dear Mr. Greenwell:

Enclosed please find an original of a supplement to the Martin County Water District's Response, number 19, containing the Division of Water's response to the District's open records request, along with an original and ten (10) copies of Motion for Leave to Submit Copies on Disc, and 10 discs, regarding the above captioned matter.

Thank you for your attention to this matter.

Very truly yours,

BRIAN CUMBO

BC/ld  
Enclosure  
cc: Martin County Water District

RECEIVED

COMMONWEALTH OF KENTUCKY

SEP 21 2016

BEFORE THE PUBLIC SERVICE COMMISSION

Public Service  
Commission

In the Matter of:

INVESTIGATION OF THE OPERATING )  
CAPACITY OF MARTIN COUNTY WATER )  
DISTRICT PURSUANT TO KRS 278.280 )

CASE NO. 2016-00142

**MOTION FOR LEAVE TO SUBMIT COPIES ON DISC**

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Comes the movant, Martin County Water District, by counsel, and moves the Public Service Commission for leave to submit a supplement to their previous Response, number 19, and files herewith a paper copy of the response to the open records request from the Division of Water relative to all correspondence between the Division of Water and the District for the dates specified.

As grounds therefore, the documents number 1,046 pages, and to provide the designated number of paper copies is burdensome, not only to the District, but would be burdensome to the Commission as well.

Therefore, the undersigned has tendered one paper copy, and ten (10) copies on disc at this time.

Should the Public Service Commission require paper copies, they of course, will be submitted, but counsel requests the Commission accept the response on disc, as tendered.

Wherefore, counsel requests the appropriate Orders of the Commission consistent with this Motion.

  
BRIAN CUMBO  
COUNSEL FOR MARTIN COUNTY  
WATER DISTRICT  
P.O. BOX 1844  
INEZ, KY 41224  
TELEPHONE: (606) 298-0428  
TELECOPIER: (606) 298-0316  
EMAIL: cumbolaw@cumbolaw.com

**CERTIFICATE OF SERVICE**

This will certify that a true and correct copy of the foregoing was mailed, postage paid, on this the 26 day of August, 2016, to the following:

Aaron Greenwell, Acting Executive Director  
Public Service Commission  
P.O. Box 615  
Frankfort, KY 40602

  
BRIAN CUMBO

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

INVESTIGATION OF THE OPERATING )  
CAPACITY OF MARTIN COUNTY WATER ) CASE NO. 2016-00142  
DISTRICT PURSUANT TO KRS 278.280 )

**MARTIN COUNTY WATER  
DISTRICT'S SUPPLEMENT  
TO RESPONSE, NUMBER 19,  
CONTAINING THE DIVISION OF  
WATER'S RESPONSE TO OPEN  
RECORDS REQUEST**



## BRIAN CUMBO

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(606) 298-0428  
FAX: (606) 298-0316  
cumbolaw@cumbolaw.com

ADMITTED IN KY AND WV

August 4, 2016

Peter Goodman, Director  
DEP Division of Water  
200 Fair Oaks Lane, Fourth Floor  
Frankfort, KY 40621

RE: Martin County Water District

Dear Director Goodman:

Under the **Kentucky Open Records Act § 61.872 et seq.**, I am requesting an opportunity to inspect or obtain copies of public records that are in your agency's possession regarding the Martin County Water District. Please provide a copy of all communications for the period of July 1, 2013 to the present between Martin County Water District and Kentucky Division of Water, including its regional offices.

If there are any fees for searching or copying these records, please inform me if the cost will exceed \$100.00. This information is not being sought for commercial purposes.

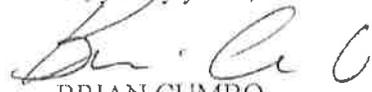
The Kentucky Open Records Act requires a response time within three business days. If access to the records I am requesting will take longer than that time period, please contact me with information about when I might expect copies or the ability to inspect the requested records.

If you deny any or all of this request, please cite each specific exemption you feel justifies the refusal to release the information and notify me of the appeal procedures available to me under the law.

DEP Division of Water  
August 4, 2016  
Page Two

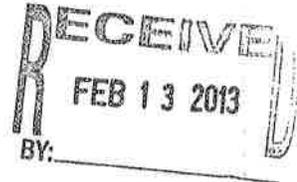
Thank you for considering my request.

Very truly yours,



BRIAN CUMBO

BC/ld



KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 7/1/06

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR OF: January- 2013

DEP Form 4012--Revised 07/2006

PWS ID:	<u>KY0800273</u>	PLANT ID:	<u>A</u>	PLANT NAME:	<u>MARTIN COUNTY WTP</u>
PWS NAME:	<u>MARTIN COUNTY WATER DISTRICT</u>	PLANT CLASS:	<u>3</u>	DIST. CLASS:	<u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>02-06-2013</u>		
SOURCE NAME:	<u>CRUM RESERVOIR</u>	COUNTY:	<u>MARTIN</u>		
	<u>TUG RIVER</u>				
	<u>OPERATOR(S) RESPONSIBLE / IN-CHARGE</u>	<u>CLASS</u>	<u>CERTIFICATION NUMBER</u>		
WTP SHIFT 1:	<u>EARL T. ALLEY</u>	<u>1V-A</u>	<u>17562</u>		
WTP SHIFT 2:	<u>MICHAEL SARTIN</u>	<u>1V-A</u>	<u>21944</u>		
WTP SHIFT 3:	<u>JERRY L. BELCHER / JUSTIN L. BLACKBURN</u>	<u>1V-A/111-A</u>	<u>21719/16310</u>		
DISTRIBUTION:					

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- 1. DESIGN CAPACITY (gpm): 1,667
- 2. TYPE OF FILTRATION USED: DUAL MEDIA
- 3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- 4. PERCENT BACKWASH WATER USED: 0.9
- 5. DATE FLOCCULATION BASIN(S) LAST CLEANED: JAN-01
- 6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

02-06-2013  
DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: January-2013

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	LBS	PPM	Pre		Post	
									LBS	PPM	LBS	PPM
1	1,914,000	24.0	237.4	14.9	4.2	0.3			323.6	20.3	169.2	10.6
2	1,967,000	24.0	237.4	14.5	4.2	0.3			339.0	20.7	169.2	10.3
3	1,924,000	24.0	237.4	14.8	4.2	0.3			336.8	21.0	169.2	10.5
4	1,940,000	24.0	237.4	14.7	4.2	0.3			332.4	20.5	169.2	10.5
5	1,895,000	24.0	237.4	15.0	4.2	0.3			332.4	21.0	169.2	10.7
6	1,979,000	24.0	237.4	14.4	4.2	0.3			339.1	20.5	169.2	10.2
7	1,976,000	24.0	237.4	14.4	4.2	0.3			339.1	20.6	169.2	10.3
8	1,949,000	22.0	217.6	13.4	3.9	0.2			317.1	19.5	155.1	9.5
9	1,178,000	14.0	138.5	14.1	2.5	0.3			203.4	20.7	100.5	10.2
10	1,714,000	21.0	207.7	14.5	3.7	0.3			300.0	21.0	159.1	11.1
11	1,965,000	24.0	237.4	14.5	4.2	0.3			339.0	20.7	169.2	10.3
12	1,964,000	24.0	237.4	14.5	4.2	0.3			339.1	20.7	169.2	10.3
13	1,901,000	24.0	237.4	15.0	4.2	0.3			325.6	20.5	169.2	10.7
14	1,923,000	24.0	237.4	14.8	4.2	0.3			332.4	20.7	169.2	10.5
15	1,970,000	24.0	237.4	14.4	4.2	0.3			300.3	18.3	170.4	10.4
16	1,960,000	24.0	237.4	14.5	4.2	0.3			327.2	20.0	169.2	10.4
17	1,971,000	24.0	237.4	14.4	4.2	0.3			328.5	19.9	169.2	10.3
18	1,935,000	24.0	237.4	14.7	4.2	0.3			339.0	21.0	169.2	10.5
19	1,978,000	24.0	395.7	24.0	4.2	0.3			339.0	20.6	177.9	10.8
20	1,942,000	24.0	395.7	24.4	4.2	0.3			332.2	20.5	183.2	11.3
21	1,975,000	24.0	395.7	24.0	4.2	0.3			339.0	20.6	183.2	11.1
22	1,935,000	24.0	395.7	24.5	4.2	0.3			330.2	20.5	174.5	10.8
23	1,970,000	24.0	395.7	24.1	4.2	0.3			327.2	19.9	169.2	10.3
24	1,951,000	24.0	395.7	24.3	4.2	0.3			330.2	20.3	169.2	10.4
25	1,981,000	24.0	395.7	24.0	4.2	0.3			339.0	20.5	169.2	10.2
26	1,945,000	24.0	395.7	24.4	4.2	0.3			339.0	20.9	165.7	10.2
27	1,902,000	24.0	395.7	24.9	4.2	0.3			332.4	21.0	169.2	10.7
28	1,973,000	24.0	395.7	24.0	4.2	0.3			339.0	20.6	169.2	10.3
29	1,863,000	24.0	395.7	25.5	4.2	0.3			330.2	21.3	169.2	10.9
30	1,940,000	24.0	410.6	25.4	4.2	0.3			326.5	20.2	169.2	10.5
31	1,953,000	24.0	535.8	32.9	4.2	0.3			328.5	20.0	169.2	10.4
TOTAL	59,333,000		9423.6		127.7		0.0		10122.4		5191.6	
AVERAGE	1,913,968		304.0	19.0	4.1	0.3	#DIV/0!	#DIV/0!	326.5	20.5	167.5	10.5
MAX	1,981,000											



**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

PWS ID : KY0800273  
 PLANT ID: A

**APPLICABLE TO ALL PLANTS**

REPORT MONTH/YEAR: January- 2013

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	7.80	7.78	7.73	137	135	228	226	0.71	0.64	1.95	1.87	5.23	0.24	0.07	
2	7.88	7.85	7.79	126	123	202	200	0.79	0.69	1.94	1.86	5.01	0.21	0.06	
3	7.81	7.80	7.74	134	130	206	204	0.77	0.66	1.92	1.82	4.95	0.22	0.07	
4	7.85	7.80	7.76	116	115	196	193	0.73	0.63	1.92	1.83	5.02	0.22	0.07	
5	7.80	7.74	7.67	116	113	195	193	0.70	0.63	1.86	1.79	4.89	0.21	0.07	
6	7.81	7.75	7.67	115	114	196	195	0.78	0.69	1.97	1.89	4.87	0.21	0.07	
7	7.80	7.66	7.56	114	113	195	194	0.69	0.60	1.87	1.79	4.88	0.20	0.07	
8	7.59	7.72	7.68	115	113	194	193	0.72	0.62	1.92	1.84	4.77	0.21	0.07	
9	7.81	7.75	7.71	115	112	186	184	0.62	0.50	1.85	1.76	4.43	0.21	0.07	
10	7.71	7.69	7.62	114	112	184	181	0.72	0.62	1.88	1.79	4.50	0.17	0.08	
11	7.75	7.67	7.58	110	107	186	185	0.73	0.62	1.89	1.82	4.30	0.19	0.07	
12	7.69	7.68	7.59	111	110	185	184	0.71	0.61	1.85	1.78	4.16	0.19	0.07	
13	7.68	7.70	7.61	112	110	186	184	0.74	0.65	1.94	1.87	4.15	0.20	0.08	
14	7.69	7.61	7.48	113	111	187	185	0.80	0.71	2.04	1.96	4.14	0.20	0.08	
15	7.68	7.61	7.51	114	112	188	186	0.71	0.62	1.83	1.75	4.21	0.23	0.07	
16	7.77	7.72	7.65	100	96	178	175	0.75	0.66	1.95	1.87	4.97	0.21	0.06	
17	7.71	7.73	7.67	100	97	179	177	0.78	0.69	1.91	1.82	6.32	0.24	0.07	
18	7.76	7.71	7.64	94	93	175	173	0.73	0.64	1.93	1.84	6.82	0.25	0.07	
19	7.69	7.65	7.56	90	87	168	167	0.73	0.64	1.94	1.86	9.48	0.21	0.07	
20	7.68	7.64	7.54	90	91	166	165	0.70	0.61	1.89	1.81	9.44	0.21	0.07	
21	7.66	7.58	7.49	91	90	167	164	0.67	0.60	1.94	1.88	9.32	0.24	0.08	
22	7.65	7.58	7.53	90	89	165	164	0.70	0.61	1.94	1.86	9.09	0.22	0.07	
23	7.67	7.62	7.58	84	81	165	163	0.73	0.64	1.95	1.87	9.15	0.24	0.06	
24	7.61	7.64	7.60	99	92	167	163	0.69	0.59	1.90	1.80	9.46	0.25	0.06	
25	7.73	7.59	7.51	97	95	169	166	0.77	0.67	1.99	1.90	10.10	0.23	0.07	
26	7.72	7.51	7.43	96	95	167	166	0.72	0.63	1.94	1.86	10.00	0.27	0.07	
27	7.49	7.48	7.40	97	95	166	165	0.66	0.57	1.86	1.78	12.60	0.25	0.08	
28	7.48	7.45	7.38	99	97	165	164	0.73	0.64	1.95	1.89	12.30	0.24	0.08	
29	7.44	7.46	7.40	98	97	166	163	0.76	0.68	1.97	1.89	12.10	0.28	0.07	
30	7.53	7.43	7.35	55	52	110	109	0.84	0.75	1.93	1.87	13.70	0.22	0.06	
31	7.47	7.40	7.31	50	49	110	106	0.84	0.77	1.88	1.82	30.90	0.25	0.06	
AVERAGE	7.7	7.6	7.6	103	101	177	175	0.73	0.64	1.92	1.84	7.91	0.22	0.07	

**OPTIONAL INFORMATION—Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: January-2013

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	5.23		0.28	0.34						0.06	0.07	0.12	0.07		0.07
2	5.01		0.25	0.22						0.06	0.06	0.06	0.06		0.06
3	4.95		0.26	0.22						0.06	0.07	0.06	0.06		0.06
4	5.02		0.26	0.24						0.06	0.07	0.07	0.06		0.06
5	4.89		0.24	0.21						0.06	0.07	0.07	0.07		0.06
6	4.87		0.25	0.22						0.06	0.06	0.06	0.07		0.06
7	4.88		0.24	0.21						0.06	0.06	0.07	0.07		0.06
8	4.77		0.23	0.25						0.06	0.07	0.08	0.07		0.06
9	4.43		0.29	0.23						0.06	0.07	0.08	0.07		0.06
10	4.50		0.27	0.17						0.06	0.06	0.07	0.07		0.06
11	4.30		0.26	0.17						0.06	0.06	0.06	0.06		0.05
12	4.16		0.24	0.19						0.06	0.06	0.06	0.06		0.05
13	4.15		0.22	0.23						0.06	0.07	0.08	0.06		0.07
14	4.14		0.23	0.22						0.06	0.07	0.14	0.12		0.07
15	4.21		0.31	0.33						0.06	0.07	0.08	0.06		0.06
16	4.97		0.26	0.23						0.07	0.07	0.07	0.06		0.06
17	6.32		0.28	0.23						0.06	0.07	0.09	0.05		0.06
18	6.82		0.30	0.27						0.06	0.07	0.09	0.07		0.09
19	9.48		0.33	0.25						0.05	0.06	0.07	0.06		0.07
20	9.44		0.22	0.27						0.04	0.06	0.08	0.05		0.07
21	9.32		0.32	0.42						0.05	0.06	0.21	0.06		0.11
22	9.09		0.27	0.26						0.04	0.06	0.22	0.06		0.12
23	9.15		0.34	0.24						0.05	0.06	0.06	0.05		0.07
24	9.46		0.31	0.26						0.05	0.06	0.05	0.05		0.07
25	10.10		0.31	0.29						0.05	0.06	0.05	0.05		0.07
26	10.00		0.28	0.79						0.05	0.06	0.10	0.05		0.08
27	12.60		0.36	0.53						0.05	0.06	0.26	0.06		0.11
28	12.30		0.23	0.48						0.05	0.06	0.09	0.05		0.08
29	12.10		0.28	0.59						0.06	0.06	0.14	0.06		0.09
30	13.70		0.26	0.32						0.05	0.06	0.05	0.06		0.07
31	43.10		0.31	0.30						0.05	0.05	0.06	0.07		0.07
AVERAGE	8.3	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.09	0.06	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: January- 2013

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.34	1.06	0.10	0.03	0.04	0.01			1.90	0.2	9.7
2	0.34	1.03	0.09	0.03	0.04	0.01			2.00	0.0	8.7
3	0.33	1.05	0.08	0.03	0.04	0.01			1.90	0.0	8.4
4	0.31	1.02	0.08	0.03	0.03	0.01			1.85	0.0	8.3
5	0.33	1.03	0.08	0.03	0.03	0.01			1.75	0.0	8.6
6	0.32	1.01	0.07	0.03	0.03	0.01			1.70	0.0	8.5
7	0.33	1.04	0.06	0.03	0.03	0.01			1.95	0.0	8.6
8	0.32	1.01	0.07	0.03	0.03	0.01			1.90	0.0	9.2
9	0.29	1.08	0.08	0.03	0.04	0.01			1.50	0.0	8.3
10	0.28	1.04	0.07	0.03	0.04	0.01			2.00	0.1	8.4
11	0.32	0.98	0.08	0.03	0.04	0.01			1.95	0.1	8.3
12	0.33	1.01	0.07	0.03	0.04	0.01			2.00	0.2	8.5
13	0.34	1.01	0.06	0.03	0.04	0.01			1.85	0.0	8.7
14	0.31	1.03	0.07	0.03	0.03	0.01			1.90	0.3	8.5
15	0.32	1.02	0.09	0.03	0.04	0.01			1.80	0.2	8.3
16	0.28	0.96	0.04	0.03	0.04	0.01			1.95	1.5	8.4
17	0.19	0.94	0.09	0.03	0.05	0.01			1.95	0.1	8.3
18	0.22	1.01	0.10	0.03	0.05	0.01			1.90	0.0	8.5
19	0.22	0.99	0.11	0.03	0.06	0.01			2.00	0.0	8.2
20	0.21	1.02	0.13	0.03	0.07	0.01			1.85	0.0	8.1
21	0.27	1.02	0.12	0.03	0.06	0.01			1.90	0.0	8.2
22	0.23	1.01	0.13	0.03	0.06	0.01			1.80	0.0	8.1
23	0.22	1.01	0.10	0.03	0.06	0.01			1.95	0.0	7.9
24	0.18	0.95	0.11	0.03	0.06	0.01			1.95	0.0	7.5
25	0.19	0.98	0.10	0.03	0.06	0.01			1.97	0.0	7.4
26	0.18	0.99	0.11	0.03	0.06	0.01			1.97	0.1	7.2
27	0.17	1.03	0.13	0.03	0.06	0.01			1.91	0.0	9.4
28	0.21	1.03	0.15	0.03	0.07	0.01			2.02	0.2	9.1
29	0.23	1.03	0.13	0.03	0.06	0.01			1.90	0.1	8.7
30	0.14	0.97	0.18	0.03	0.08	0.01			2.00	0.0	7.2
31	0.07	0.95	0.19	0.03	0.13	0.01			1.95	1.7	7.3
AVERAGE	0.26	1.01	0.10	0.03	0.05	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	8.3
									1.50		
									Number of readings	31	4.84
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: January - 2013  
 PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS
1	37,000					19,000	114.90	18,000	114.90		
2											
3	28,000	14,000	103.00	14,000	103.00						
4											
5	38,000					19,000	98.30	19,000	98.30		
6											
7											
8	30,000	15,000	111.20	15,000	111.20						
9	26,000					13,000	90.80	13,000	90.70		
10											
11											
12											
13	34,000	34,000	107.30	17,000	107.30						
14	40,000					20,000	111.10	20,000	111.10		
15											
16	31,000	16,000	78.70	15,000	78.70						
17											
18	34,000					17,000	97.10	17,000	97.10		
19											
20	34,000	17,000	95.20	17,000	95.20						
21											
22	34,000					17,000	95.10	17,000	95.10		
23											
24	30,000	15,000	95.10	15,000	95.10						
25											
26											
27	38,000					19,000	111.30	19,000	111.30		
28											
29	39,000	14,000	111.40	13,000	111.40	12,000	47.20				
30											
31	35,000					14,000	51.00	21,000	98.20		
TOTAL	508,000	125,000	701.90	106,000	701.90	150,000	816.80	144,000	816.70	0	0.00
AVERAGE	33,867	17,857	100.271	15,143	100.271	16,667	90.756	18,000	102.088	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: January, 2013

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER	CHLORINE BOOSTER	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
	LBS	LBS	T	F	T	F	T	F	T	F	
1	5.8		1.66	1.56	1.46	1.38	1.74	1.69	1.57	1.48	
2	5.8		1.66	1.58	1.29	1.21	1.17	1.08	1.61	1.57	
3	5.8		1.28	1.08	1.45	1.35	1.49	1.43	1.54	1.46	
4	5.8		1.17	1.11	1.09	1.06	1.55	1.46	1.16	1.06	
5	5.8		1.69	1.66	1.62	1.53	1.27	1.22	1.26	1.18	
6	5.8		1.50	1.41	1.52	1.45	0.84	0.77	0.93	0.86	
7	5.8		1.47	1.26	1.00	0.97	1.59	1.56	1.17	1.11	
8	5.8		1.29	1.16	1.29	1.22	1.61	1.54	1.16	1.09	
9	5.8		1.58	1.49	1.09	1.04	1.50	1.41	1.58	1.52	
10	0.0		1.35	1.24	0.83	0.76	1.35	1.31	1.17	1.09	
11	5.8		1.11	0.98	1.26	1.22	1.69	1.66	1.32	1.23	
12	5.8		1.62	1.54	1.65	1.59	1.61	1.55	1.57	1.49	
13	5.8		1.53	1.46	1.47	1.42	1.55	1.48	1.50	1.43	
14	5.8		1.50	1.43	1.32	1.26	1.58	1.52	1.30	1.21	
15	5.8		1.38	1.30	1.16	1.08	0.37	0.29	1.34	1.23	
16	5.8		1.18	1.12	1.14	1.06	1.74	1.68	1.50	1.43	
17	5.8		1.56	1.47	0.85	0.75	1.65	1.63	1.57	1.53	
18	5.8		0.93	0.83	1.38	1.30	1.65	1.62	1.33	1.31	
19	0.0		1.66	1.54	1.67	1.62	0.86	0.80	1.24	1.21	
20	0.0		1.61	1.50	1.71	1.64	0.91	0.85	0.41	0.36	
21	5.8		1.57	1.45	1.51	1.45	0.47	0.42	0.74	0.67	
22	5.8		1.59	1.56	1.17	1.13	1.71	1.65	1.19	1.15	
23	5.8		1.34	1.31	1.19	1.15	1.46	1.42	1.40	1.37	
24	5.8		1.67	1.64	1.37	1.33	1.74	1.70	1.10	1.06	
25	5.8		1.53	1.34	1.10	1.03	1.56	1.52	1.15	1.10	
26	5.8		1.59	1.51	0.99	0.91	1.67	1.61	1.62	1.55	
27	5.8		1.56	1.50	1.62	1.53	1.42	1.35	1.54	1.48	
28	5.8		1.57	1.42	1.35	1.27	0.89	0.84	1.31	1.25	
29	0.0		1.79	1.72	1.17	1.11	1.42	1.38	1.61	1.56	
30	5.8		1.29	1.25	0.78	0.71	1.70	1.63	1.50	1.41	
31	5.8		1.44	1.39	1.30	1.22	1.61	1.52	1.29	1.16	
AVERAGE	6.1	#DIV/0!	Average	1.47	1.38	1.28	1.22	1.40	1.34	1.31	1.25
TOTAL	157.7	0.0	Total Minimum	0.93		0.78		0.37		0.41	
			Free Minimum		0.83		0.71		0.29		0.36

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	0	0	2	0	1	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.29
Number of Total Residuals	124	Minimum Monthly Total Residual	0.37
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): January - 2013

PAGE:  
8 OF 11

PWS Name: MARTIN COUNTY WATER DISTRICT

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.06	0.07	0.07	0.06	0.06	0.06	0.070	
2	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.060	
3	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
4	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.060	
5	24.0	6	0.06	0.05	0.06	0.05	0.06	0.06	0.057	
6	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.058	
7	24.0	6	0.06	0.06	0.05	0.05	0.06	0.06	0.056	
8	24.0	6	0.05	0.05	0.06	0.05	0.06	0.06	0.060	
9	22.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
10	14.0	4	0.06	0.06	0.06			0.06	0.060	
11	21.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.060	
12	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
13	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
14	24.0	6	0.05	0.05	0.05	0.07	0.06	0.06	0.065	
15	24.0	6	0.06	0.07	0.07	0.06	0.06	0.06	0.070	
16	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
17	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
18	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
19	24.0	6	0.06	0.06	0.06	0.06	0.09	0.07	0.090	
20	24.0	6	0.07	0.07	0.06	0.06	0.07	0.07	0.070	
21	24.0	6	0.07	0.07	0.07	0.06	0.07	0.07	0.072	
22	24.0	6	0.07	0.09	0.11	0.08	0.08	0.08	0.110	
23	24.0	6	0.09	0.12	0.07	0.07	0.08	0.07	0.120	
24	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.070	
25	24.0	6	0.06	0.07	0.06	0.06	0.06	0.07	0.070	
26	24.0	6	0.07	0.07	0.06	0.06	0.06	0.07	0.066	
27	24.0	6	0.06	0.07	0.07	0.08	0.07	0.07	0.076	
28	24.0	6	0.07	0.08	0.11	0.07	0.07	0.07	0.109	
29	24.0	6	0.07	0.07	0.07	0.07	0.08	0.07	0.076	
30	24.0	6	0.08	0.09	0.09	0.07	0.07	0.07	0.090	
31	24.0	6	0.07	0.07	0.07	0.07	0.07	0.06	0.070	
31	24.0	6	0.06	0.06	0.07	0.07	0.06	0.06	0.070	
Total	729.0	184	TOTAL # OF TURBIDITY SAMPLES TAKEN						184	0.120

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)  
 Number of samples exceeding ----> 0.1 NTU 3 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley 02-06-2013  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY) **January- 201**

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>59,333,000</u>	
PLANT NAME <u>MARTIN COUNTY WTP</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,913,968</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,981,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	<input type="checkbox"/> Y
Was each filter monitored continuously? (Y/N) _____	<input type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input type="checkbox"/> N
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/>
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	<u>729.0</u>
Number of hours of plant operation _____	<input checked="" type="checkbox"/> Y
Were samples taken every 4 hours of plant operation? (Y/N) _____	<u>184</u>
Number of samples taken _____	<u>0.12</u>
Highest single turbidity reading _____	
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU _____	<u>3</u>
Number of samples exceeded 0.3 NTU _____	<u>0</u>
Number of samples exceeded 1 NTU _____	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU _____	
Number of samples exceeded 5 NTU _____	

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	<u>31</u>
Number of days of plant operation _____	<input checked="" type="checkbox"/> Y
Were samples taken each day of operation? (Y/N) _____	<u>31</u>
Number of lowest chlorine samples recorded _____	<u>1.50</u>
Lowest single chlorine reading _____	
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L _____	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L _____	

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	<u>31</u>
Number of days of plant operation _____	<input type="checkbox"/>
Were samples taken each day of operation? (Y/N) _____	<u>0</u>
Number of samples taken _____	<u>0.00</u>
Highest single chlorine dioxide reading _____	<u>0</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	<u>31</u>
Number of days of plant operation _____	<input type="checkbox"/>
Were samples taken each day of operation? (Y/N) _____	<u>0</u>
Number of samples taken _____	<u>0.00</u>
Highest single chlorite reading _____	<u>0</u>
Number of chlorite samples exceeded 1 mg/L _____	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

East T. Alley  
Signature of Principal Executive Officer or Authorized Agent

02-06-2013  
Date



RECEIVED  
 APR 22 2013  
 BY: \_\_\_\_\_

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

02/2013

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	KY0800273	PLANT ID:	A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS:	3	DIST. CLASS:	2
AGENCY INTEREST (AI):	2987	DATE MAILED:	04-17-2013		
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin		
	Tug Fork				
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	Earl T Alley	1V-A	17562		
WTP SHIFT 2:	Michael Sartin	1V-A	21944		
WTP SHIFT 3:	Jerry L. Belcher / Justin L. Blackburn	1V-A / 111-A	21719 / 16310		
DISTRIBUTION:					

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

04-17-2013  
 DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 02/2013

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		PH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,980,000	24.0	553.9	33.9	4.2	0.3			330.2	20.2	169.2	10.4
2	1,921,000	24.0	553.9	34.8	4.2	0.3			339.0	21.2	169.2	10.6
3	1,963,000	24.0	553.9	33.8	4.2	0.3			338.9	20.7	169.2	10.3
4	1,913,000	24.0	553.9	34.7	4.2	0.3			332.4	20.8	169.2	10.6
5	1,957,000	24.0	503.2	30.8	4.2	0.3			327.2	20.0	169.2	10.4
6	1,945,000	24.0	474.8	29.3	4.2	0.3			339.0	20.9	169.2	10.4
7	1,959,000	24.0	474.8	28.6	4.2	0.3			336.8	20.3	164.7	9.9
8	1,943,000	24.0	474.8	29.3	4.2	0.3			328.0	20.2	165.8	10.2
9	1,969,000	24.0	474.8	28.9	4.2	0.3			339.1	20.6	169.2	10.3
10	1,980,000	24.0	474.8	28.8	4.2	0.3			339.1	20.5	189.2	10.2
11	1,895,000	24.0	474.8	30.0	4.2	0.3			331.2	21.0	164.7	10.4
12	1,980,000	24.0	425.4	26.2	4.2	0.3			339.0	20.8	159.8	9.8
13	1,980,000	24.0	395.7	24.0	4.2	0.3			327.2	19.8	159.8	9.7
14	1,962,000	24.0	395.7	24.2	4.2	0.3			349.1	21.3	183.4	10.0
15	1,961,000	24.0	395.7	24.2	4.2	0.3			334.1	20.4	159.8	9.8
16	1,980,000	24.0	395.7	24.0	4.2	0.3			341.5	20.7	159.8	9.7
17	1,894,000	24.0	395.7	25.1	4.2	0.3			328.9	20.8	159.8	10.1
18	1,866,000	24.0	395.7	24.1	4.2	0.3			346.8	21.2	159.8	9.7
19	1,930,000	24.0	395.7	24.6	4.2	0.3			334.9	20.8	159.8	9.9
20	1,284,000	15.5	255.8	23.9	2.7	0.3			218.1	19.9	103.2	9.6
21	1,850,000	24.0	395.7	24.3	4.2	0.3			341.6	21.0	159.8	8.8
22	1,982,000	24.0	395.7	23.9	4.2	0.3			339.1	20.5	152.5	9.2
23	1,975,000	24.0	395.7	24.0	4.2	0.3			341.3	20.7	154.2	9.4
24	1,919,000	24.0	395.7	24.7	4.2	0.3			330.6	20.7	154.5	9.7
25	1,877,000	24.0	395.7	24.0	4.2	0.3			341.3	20.7	159.8	9.7
26	1,928,000	24.0	395.7	24.6	4.2	0.3			323.6	20.1	166.3	10.3
27	1,971,000	24.0	395.7	24.1	4.2	0.3			323.8	19.7	183.2	11.1
28	1,954,000	24.0	395.7	24.3	4.2	0.3			323.6	19.8	183.2	11.2
29												
30												
31												
TOTAL	63,998,000		12184.4		119.1		0.0		9260.1		4546.7	
AVERAGE	1,928,500		435.2	27.0	4.1	0.3	#DIV/0!	#DIV/0!	330.7	20.6	162.4	10.1
MAX	1,989,000											

NUMBER DAYS IN OPERATION



**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2907  
 REPORT MONTH/YEAR: 02/2013

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	47.90		0.25	0.24						0.04	0.05	0.05	0.05		0.06
2	47.80		0.26	0.24						0.07	0.08	0.06	0.05		0.07
3	47.60		0.23	0.22						0.05	0.06	0.09	0.05		0.07
4	46.10		0.23	0.21						0.05	0.05	0.07	0.06		0.07
5	43.70		0.25	0.26						0.05	0.05	0.07	0.05		0.07
6	33.20		0.25	0.24						0.05	0.06	0.08	0.05		0.07
7	36.60		0.25	0.25						0.05	0.06	0.07	0.05		0.07
8	36.10		0.26	0.24						0.08	0.05	0.12	0.06		0.07
9	35.60		0.25	0.20						0.05	0.05	0.09	0.05		0.06
10	34.70		0.22	0.21						0.04	0.05	0.07	0.05		0.06
11	31.60		0.22	0.22						0.05	0.06	0.08	0.05		0.07
12	30.20		0.40	0.41						0.05	0.06	0.07	0.06		0.07
13	22.90		0.35	0.25						0.05	0.06	0.06	0.05		0.07
14	21.90		0.29	0.25						0.05	0.07	0.05	0.05		0.07
15	20.80		0.32	0.37						0.05	0.06	0.05	0.05		0.06
16	21.40		0.26	0.29						0.05	0.06	0.05	0.05		0.06
17	21.10		0.26	0.23						0.04	0.05	0.08	0.07		0.07
18	20.90		0.23	0.25						0.04	0.05	0.07	0.05		0.06
19	21.10		0.36	0.38						0.08	0.09	0.05	0.05		0.08
20	16.80		0.35	0.29						0.04	0.06	0.05	0.05		0.06
21	16.50		0.37	0.51						0.05	0.06	0.07	0.07		0.07
22	16.40		0.40	0.64						0.05	0.06	0.11	0.06		0.08
23	16.70		0.32	0.39						0.05	0.06	0.15	0.05		0.10
24	16.50		0.33	0.34						0.05	0.07	0.14	0.05		0.09
25	16.30		0.32	0.27						0.05	0.06	0.10	0.05		0.08
26	15.90		0.45	0.26						0.05	0.06	0.12	0.07		0.09
27	14.60		0.28	0.23						0.04	0.05	0.06	0.05		0.06
28	14.30		0.27	0.20						0.05	0.06	0.06	0.05		0.06
29															
30															
31															
AVERAGE	27.3	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.06	0.08	0.05	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 02/2013

PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL	No: 3		No: 4		No: 5		No: 6		No: 7	
	WASH WATER	AREA (square feet)	FILT RUN	AREA (square feet)	FILT RUN						
GALLONS	WASHWATER GALLONS	HRS									
1	0										
2	34,000	17,000	100.90	17,000	100.90						
3	0										
4	38,000					19,000	98.80	19,000	98.80		
5	0										
6	28,000	14,000	96.90	14,000	96.90						
7	0										
8	38,000					19,000	95.00	19,000	95.00		
9	0										
10	0										
11	30,000	15,000	111.40	15,000	111.40						
12	32,000					16,000	94.90	16,000	94.90		
13	0										
14	33,000	17,000	79.20	16,000	79.20						
15	0										
16	0										
17	34,000					17,000	111.40	17,000	111.40		
18	0										
19	34,000	17,000	116.50	17,000	116.50						
20	0										
21	34,000					17,000	94.50	17,000	94.50		
22	0										
23	0										
24	30,000	15,000	105.50	15,000	105.50						
25	0										
26	36,000					18,000	111.80	18,000	111.80		
27	0										
28	31,000	16,000	98.90	15,000	98.90						
29	0										
30	0										
31	0										
TOTAL	432,000	111,000	709.30	109,000	709.30	106,000	606.20	106,000	606.20	0	0.00
AVERAGE	13,935	15,857	101.329	15,571	101.329	17,667	101.033	17,667	101.033	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 02/2013

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)								Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F/C <sup>o</sup>
	FLUORIDE		IRON		MANGANESE		RAW	TAP			
	RAW	TAP	RAW	TAP	RAW	TAP					
1	0.00	0.88	0.40	0.03	0.17	0.01			1.80	0.1	7.1
2	0.00	0.91	0.43	0.03	0.17	0.01			1.85	0.0	7.0
3	0.01	0.96	0.41	0.03	0.17	0.01			1.95	0.2	7.0
4	0.00	0.92	0.42	0.03	0.16	0.01			1.80	0.0	6.8
5	0.01	0.93	0.40	0.03	0.16	0.01			1.75	0.0	6.9
6	0.00	0.87	0.31	0.03	0.12	0.01			2.00	0.0	7.1
7	0.00	0.86	0.34	0.03	0.13	0.01			2.00	0.0	6.7
8	0.00	0.88	0.33	0.03	0.13	0.01			1.95	0.0	6.8
9	0.01	0.88	0.31	0.03	0.14	0.01			1.90	0.1	6.9
10	0.00	0.88	0.33	0.03	0.13	0.01			2.05	0.0	6.9
11	0.01	0.89	0.29	0.03	0.13	0.01			2.00	0.2	6.8
12	0.00	0.88	0.28	0.03	0.12	0.01			1.95	0.0	7.1
13	0.00	0.91	0.25	0.03	0.08	0.01			1.95	0.0	6.5
14	0.00	0.82	0.22	0.03	0.12	0.01			1.90	0.1	6.6
15	0.00	0.85	0.21	0.03	0.08	0.01			2.00	0.0	6.6
16	0.00	0.89	0.22	0.03	0.08	0.01			2.00	0.1	6.7
17	0.00	0.87	0.23	0.03	0.08	0.01			1.95	0.0	6.6
18	0.01	0.93	0.21	0.03	0.08	0.01			2.00	0.0	6.7
19	0.00	0.89	0.23	0.03	0.08	0.01			1.90	0.1	6.9
20	0.02	0.85	0.20	0.03	0.06	0.01			1.75	0.0	6.3
21	0.09	0.83	0.21	0.03	0.06	0.01			1.95	0.0	6.4
22	0.11	0.89	0.22	0.03	0.07	0.01			2.00	0.3	6.5
23	0.12	0.87	0.21	0.03	0.07	0.01			1.88	0.0	6.7
24	0.13	0.88	0.20	0.03	0.07	0.01			1.90	0.0	6.9
25	0.11	0.89	0.18	0.03	0.07	0.01			2.00	0.0	6.8
26	0.10	0.85	0.19	0.03	0.06	0.01			1.95	0.0	6.9
27	0.05	0.84	0.21	0.03	0.06	0.01			1.95	0.3	6.7
28	0.02	0.84	0.18	0.03	0.06	0.01			1.90	0.1	7.0
29											
30											
31											
AVERAGE	0.03	0.88	0.27	0.03	0.10	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	6.8

Number of readings	28	1.52
For Free Chlorine, # less than 0.2 mg/L	0	
For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N) **N**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 02/2013

PAGE 7 OF 11

DAY	CHEMICALS ADDED		DISTRIBUTION SYSTEM OPERATIONS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TEST RESULTS								
			TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
T	F	T	F	T	F	T	F				
1	5.8		1.84	1.58	1.26	1.21	1.82	1.48	1.08	0.96	
2	5.8		1.53	1.49	1.67	1.63	0.72	0.64	1.24	1.20	
3	0.0		1.55	1.48	1.43	1.38	0.58	0.52	0.64	0.60	
4	5.8		1.64	1.50	1.24	1.18	1.67	1.61	1.04	0.99	
5	5.8		1.33	1.30	1.10	1.07	0.66	0.58	1.32	1.28	
6	5.8		1.19	1.14	0.85	0.79	1.34	1.29	1.67	1.58	
7	5.8		1.61	1.56	0.98	0.91	1.48	1.45	1.44	1.37	
8	5.8		0.99	0.98	1.30	1.26	1.76	1.67	1.16	1.09	
9	5.8		1.68	1.61	1.41	1.34	1.18	1.15	1.76	1.71	
10	5.8		1.62	1.51	1.80	1.72	1.59	1.48	1.81	1.74	
11	0.0		1.54	1.49	0.91	0.82	1.60	1.56	0.82	0.88	
12	5.8		1.41	1.38	0.31	0.28	1.45	1.42	0.93	0.91	
13	0.0		1.91	1.26	1.28	1.20	1.18	1.19	1.39	1.35	
14	5.8		1.03	0.98	1.37	1.35	1.14	1.12	1.41	1.40	
15	5.8		1.34	1.26	1.40	1.23	1.69	1.53	1.24	1.19	
16	5.8		1.64	1.60	1.44	1.38	1.51	1.43	1.59	1.57	
17	5.8		1.70	1.65	1.38	1.35	1.68	1.62	1.78	1.71	
18	5.8		1.07	1.51	1.38	1.32	1.63	1.62	1.13	1.07	
19	5.8		0.95	0.82	1.38	1.31	1.31	1.26	1.48	1.42	
20	0.0		1.69	1.66	1.33	1.32	1.76	1.72	1.22	1.19	
21	0.0		1.34	1.31	1.18	1.17	1.36	1.33	1.40	1.35	
22	0.0		1.52	1.42	1.28	1.20	1.43	1.40	1.12	1.03	
23	0.0		1.81	1.53	1.67	1.64	1.70	1.62	1.45	1.33	
24	5.8		1.58	1.47	1.58	1.54	1.81	1.59	1.82	1.55	
25	5.8		1.06	0.76	1.05	1.02	1.71	1.63	1.10	1.04	
26	0.0		1.42	1.37	1.12	0.98	1.31	1.25	0.98	0.89	
27	5.8		1.57	1.55	0.42	0.37	1.56	1.55	1.46	1.45	
28	5.8		1.39	1.33	1.10	1.05	1.54	1.51	1.22	1.16	
29											
30											
31											
AVERAGE	4.2	#DIV/0!	Average	1.44	1.37	1.24	1.18	1.41	1.36	1.31	1.25
TOTAL	116.8	0.0	Total (Median)	0.95		0.31		0.58		0.64	
			Free Median		0.76		0.28		0.52		0.60

Total # Chlorine Samples	28	28	28	28	28	28	28	28	28
# Less than 0.2 mg/L	0	0	0	0	0	0	0	0	0
Number of Free Residuals	112	Minimum Monthly Free Residual	0.28	Disinfectant Chloramines? (Y/N)	N				
Number of Total Residuals	112	Minimum Monthly Total Residual	0.31	Number of days of operation?	28				
Total # Less than 0.2 mg/L	0								
Total # Less than 0.5 mg/L									

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 02/2013

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
2	24.0	6	0.06	0.06	0.06	0.06	0.07	0.07	0.072	
3	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.065	
4	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.067	
5	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.070	
6	24.0	6	0.06	0.06	0.07	0.07	0.08	0.07	0.070	
7	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.067	
8	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.067	
9	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
10	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
11	24.0	6	0.06	0.06	0.06	0.07	0.06	0.06	0.066	
12	24.0	6	0.06	0.06	0.06	0.07	0.07	0.07	0.070	
13	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.070	
14	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070	
15	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
16	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061	
17	24.0	6	0.06	0.06	0.06	0.07	0.08	0.06	0.069	
18	24.0	6	0.06	0.06	0.06	0.06	0.08	0.06	0.061	
19	24.0	6	0.06	0.06	0.06	0.06	0.08	0.06	0.080	
20	15.5	4	0.06	0.06	0.06		0.08	0.06	0.060	
21	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070	
22	24.0	6	0.07	0.06	0.07	0.06	0.07	0.08	0.080	
23	24.0	6	0.08	0.08	0.07	0.10	0.09	0.09	0.097	
24	24.0	6	0.09	0.09	0.08	0.08	0.08	0.08	0.088	
25	24.0	6	0.08	0.08	0.08	0.07	0.07	0.07	0.081	
26	24.0	6	0.07	0.07	0.09	0.08	0.07	0.06	0.090	
27	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
28	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
29	0.0	0							0.000	
30	0.0	0							0.000	
31	0.0	0							0.000	
<b>Total</b>	<b>663.5</b>	<b>166</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN</b>						<b>167</b>	<b>0.097</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Scott T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

04-17-2013  
 Date

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

**APPLICABLE TO ALL PLANTS**

REPORT MONTH/YEAR: 02/2013

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ANALYTICAL RESULTS (MG/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.42	7.32	7.23	38	33	86	83	0.70	0.62	1.83	1.76	47.90	0.22	0.06
2	7.39	7.31	7.19	30	28	66	66	0.72	0.62	1.94	1.87	47.80	0.22	0.07
3	7.38	7.26	7.12	31	30	69	68	0.69	0.61	1.96	1.91	47.60	0.20	0.07
4	7.35	7.22	7.10	32	31	68	67	0.66	0.56	1.95	1.87	45.10	0.20	0.07
5	7.31	7.22	7.15	33	31	69	67	0.70	0.63	1.77	1.71	43.70	0.22	0.07
6	7.43	7.26	7.18	20	19	88	85	0.78	0.71	1.89	1.83	33.20	0.21	0.06
7	7.35	7.25	7.17	25	24	67	64	0.81	0.75	1.89	1.83	36.60	0.22	0.07
8	7.36	7.16	7.05	24	23	68	65	0.78	0.70	1.91	1.86	36.10	0.21	0.07
9	7.31	7.17	7.05	23	22	69	68	0.74	0.67	1.96	1.88	35.60	0.19	0.07
10	7.30	7.06	6.93	24	23	69	68	0.78	0.71	1.99	1.93	34.70	0.19	0.07
11	7.29	6.97	6.94	25	24	67	66	0.77	0.69	1.91	1.85	31.60	0.19	0.07
12	7.25	7.13	7.14	27	25	69	66	0.73	0.67	1.91	1.85	30.20	0.26	0.07
13	7.66	7.28	7.26	21	19	87	86	0.80	0.71	1.79	1.74	22.90	0.25	0.06
14	7.54	7.25	7.24	20	19	66	64	0.80	0.72	1.84	1.78	21.90	0.25	0.06
15	7.49	7.27	7.23	20	18	107	102	0.83	0.74	1.81	1.75	20.80	0.29	0.06
16	7.42	7.09	6.95	21	18	105	103	0.82	0.74	1.85	1.79	21.40	0.25	0.06
17	7.41	7.20	7.04	22	21	106	104	0.80	0.73	1.91	1.84	21.10	0.22	0.07
18	7.40	7.30	7.15	23	21	107	106	0.81	0.74	1.90	1.83	20.90	0.21	0.07
19	7.41	7.22	7.13	25	24	109	108	0.81	0.73	1.83	1.77	21.10	0.28	0.07
20	7.55	7.25	7.19	20	19	72	69	0.74	0.65	1.77	1.72	16.80	0.32	0.13
21	7.49	7.27	7.23	20	19	100	94	0.83	0.75	1.83	1.78	16.50	0.30	0.07
22	7.55	7.01	6.99	21	19	91	89	0.87	0.79	1.76	1.69	16.40	0.41	0.07
23	7.51	7.25	7.10	22	21	92	90	0.79	0.72	1.77	1.69	16.70	0.30	0.08
24	7.50	7.17	6.99	23	21	93	91	0.76	0.69	1.74	1.67	16.60	0.29	0.09
25	7.38	7.26	7.12	21	20	94	93	0.73	0.66	1.83	1.77	16.30	0.27	0.08
26	7.32	7.23	7.16	20	21	93	92	0.75	0.67	1.82	1.76	15.90	0.27	0.08
27	7.50	7.22	7.16	23	20	86	85	0.70	0.62	1.81	1.75	14.80	0.22	0.06
28	7.47	7.23	7.18	24	22	77	76	0.66	0.58	1.84	1.78	14.30	0.21	0.06
29														
30														
31														
AVERAGE	7.4	7.2	7.1	24	23	84	82	0.76	0.69	1.86	1.80	27.30	0.25	0.07



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

02/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>53,998,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE DAILY PRODUCTION (gallons)	<u>1,928,500</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,989,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION			
ANALYTE CODE	<u>0100</u>		
Was each filter monitored continuously? (Y/N)	_____		<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	_____		<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	_____		<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____			
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____			
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	_____		<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	_____		<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	_____		<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	_____		<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>			

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>663.5</u>	Number of days of plant operation	<u>28</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>167</u>	Number of lowest chlorine samples recorded	<u>28</u>
Highest single turbidity reading	<u>0.10</u>	Lowest single chlorine reading	<u>1.75</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>0</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU	<u>0</u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	_____	Number of samples under 0.5 mg/L	_____
Number of samples exceeded 5 NTU	_____		

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>28</u>	Number of days of plant operation	<u>28</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

04-17-2013  
Date



**RECEIVED**  
**APR 18 2013**  
 BY: \_\_\_\_\_

**KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH**

Revised 01/04/07

**MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS**

MONTH & YEAR (mm/yyyy)

03/2013

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District	
PWS NAME:	Martin County Water District	PLANT CLASS:	3	DIST. CLASS:	2
AGENCY INTEREST (AI):	2987	DATE MAILED:	4-9-2013		
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin		
	Tug Fork				
OPERATOR(S) RESPONSIBLE / IN-CHARGE		CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	Earl T Alley	1V-A	17562		
WTP SHIFT 2:	Michael Sartin	1V-A	21944		
WTP SHIFT 3:	Jerry L Bolchor / Justin L Blackburn	1V-A / 111-A	21719 / 18310		
DISTRIBUTION:					

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

<b>TREATMENT PLANTS COMPLETE:</b>	
1. DESIGN CAPACITY (gpm):	1,667
2. TYPE OF FILTRATION USED:	Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	2.66
4. PERCENT BACKWASH WATER USED:	0.6
5. DATE FLOCCULATION BASIN(S) LAST CLEANED	#2 - 3/18/10 #3 - 9/2/00
6. DATE SETTLING BASIN(S) LAST CLEANED:	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

4-9-2013  
 DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
WATER TREATMENT PLANT MONTHLY OPERATING REPORT

PWS ID: KY0000271  
PLANT ID: A

REPORT MONTH/YEAR: 03/2013  
PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		PH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	1,967,000	24.0	395.7	24.1	4.2	0.3			323.8	19.7	183.2	11.2
2	1,930,000	24.0	386.7	24.5	4.2	0.3			320.2	19.8	183.2	11.3
3	1,972,000	24.0	395.7	24.1	4.2	0.3			328.0	19.9	183.2	11.1
4	1,983,000	24.0	395.7	23.9	4.2	0.3			341.3	20.0	183.2	11.1
5	1,972,000	24.0	395.7	24.1	4.2	0.3			323.8	19.7	183.2	11.1
6	1,997,000	24.0	395.7	23.8	4.2	0.3			323.8	19.4	169.2	10.2
7	1,992,000	23.0	370.2	22.8	4.0	0.2			323.8	19.5	169.2	10.2
8	1,909,000	24.0	395.7	23.9	4.2	0.3			341.3	20.6	189.2	10.7
9	1,987,000	23.0	370.2	24.1	4.0	0.3			327.8	20.8	169.2	10.3
10	1,991,000	24.0	395.7	23.8	4.2	0.3			341.3	20.6	169.2	10.2
11	1,572,000	21.0	344.4	26.3	3.7	0.3			287.6	21.9	148.1	11.3
12	1,966,000	24.0	395.7	24.1	4.2	0.3			323.8	19.7	189.2	10.3
13	1,672,000	20.0	320.8	23.7	3.5	0.3			278.5	20.0	141.0	10.1
14	1,980,000	24.0	395.7	24.2	4.2	0.3			341.3	20.9	189.2	10.4
15	1,948,000	24.0	395.7	24.4	4.2	0.3			341.3	21.0	189.2	10.4
16	1,993,000	24.0	395.7	23.8	4.2	0.3			341.3	20.6	189.2	10.2
17	1,008,000	21.0	348.3	23.0	3.7	0.2			300.8	20.0	143.6	0.5
18	1,713,000	20.0	328.9	23.1	3.5	0.2			294.1	20.8	136.5	9.5
19	1,992,000	24.0	395.7	23.8	4.2	0.3			341.3	20.6	183.9	9.9
20	1,979,000	23.0	370.2	23.6	4.0	0.2			332.4	20.7	181.0	10.0
21	1,894,000	24.0	395.7	23.8	4.2	0.3			302.0	18.2	169.8	9.0
22	1,937,000	24.0	395.7	24.5	4.2	0.3			311.6	19.3	164.3	10.2
23	2,000,000	24.0	395.7	23.7	4.2	0.3			339.1	20.3	189.2	10.1
24	1,927,000	24.0	395.7	24.8	4.2	0.3			326.7	20.3	189.2	10.6
25	1,705,000	21.0	344.4	24.2	3.7	0.3			300.8	21.2	160.2	11.9
26	1,035,000	23.0	379.2	23.5	4.0	0.2			310.1	19.2	169.2	10.5
27	1,954,000	24.0	395.7	24.3	4.2	0.3			331.2	20.3	189.2	10.4
28	1,936,000	24.0	395.7	24.5	4.2	0.3			326.2	20.2	189.2	10.5
29	1,963,000	24.0	343.0	20.9	4.2	0.3			309.7	18.9	199.2	10.3
30	1,938,000	23.0	303.4	18.8	4.0	0.2			281.8	18.1	182.2	10.0
31	1,830,000	22.0	277.0	18.1	3.0	0.3			251.2	16.4	195.1	10.1
TOTAL	59,381,000		11053.1		125.9		0.0		9877.9		5151.8	
AVERAGE	1,914,871		375.0	23.6	4.1	0.3	#DIV/0!	#DIV/0!	318.6	20.0	166.2	10.4
MAX	2,000,000											



**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2013

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	7.57	7.28	7.21	30	27	70	69	0.64	0.56	1.86	1.78	13.70	0.21	0.06	
2	7.44	7.30	7.25	32	29	74	71	0.66	0.58	1.82	1.77	12.50	0.21	0.07	
3	7.62	7.30	7.25	20	19	70	68	0.76	0.66	1.91	1.86	11.70	0.23	0.06	
4	7.53	7.30	7.18	21	19	72	70	0.80	0.71	1.88	1.81	11.80	0.23	0.07	
5	7.51	7.22	7.13	23	20	73	71	0.74	0.66	1.83	1.80	11.70	0.23	0.07	
6	7.35	7.27	7.21	28	25	70	68	0.70	0.62	1.78	1.72	14.10	0.26	0.06	
7	7.59	7.35	7.28	27	24	68	66	0.67	0.59	1.72	1.65	13.60	0.26	0.07	
8	7.50	7.30	7.19	29	26	70	68	0.74	0.66	1.80	1.83	12.30	0.23	0.06	
9	7.49	7.33	7.17	28	26	71	70	0.71	0.63	1.83	1.87	12.20	0.20	0.07	
10	7.48	7.32	7.18	29	26	72	70	0.74	0.67	2.01	1.93	12.10	0.20	0.07	
11	7.48	7.20	7.07	28	26	71	64	0.70	0.63	1.94	1.87	12.00	0.21	0.07	
12	7.44	7.19	7.14	29	26	76	73	0.67	0.60	1.91	1.84	12.40	0.22	0.06	
13	7.41	7.26	7.20	32	31	78	76	0.71	0.64	1.88	1.80	12.30	0.21	0.06	
14	7.41	7.25	7.18	36	35	79	77	0.74	0.67	1.85	1.88	11.70	0.24	0.06	
15	7.61	7.34	7.24	22	21	77	74	0.78	0.69	1.91	1.84	11.30	0.28	0.06	
16	7.69	7.52	7.37	34	34	84	82	0.78	0.68	1.91	1.83	9.92	0.30	0.07	
17	7.68	7.53	7.33	36	34	85	84	0.77	0.69	1.80	1.84	9.91	0.28	0.06	
18	7.67	7.42	7.22	38	35	84	83	0.78	0.68	1.84	1.77	9.90	0.27	0.07	
19	7.14	7.45	7.27	38	37	86	85	0.72	0.64	1.84	1.77	8.94	0.23	0.07	
20	7.72	7.56	7.46	38	36	74	71	0.77	0.69	1.87	1.79	9.85	0.21	0.06	
21	7.80	7.52	7.44	41	40	104	100	0.75	0.68	1.79	1.74	10.00	0.22	0.07	
22	7.81	7.51	7.44	42	41	105	103	0.68	0.61	1.86	1.79	10.10	0.22	0.07	
23	7.78	7.61	7.47	43	41	106	104	0.75	0.67	1.90	1.82	9.80	0.22	0.08	
24	7.67	7.48	7.39	44	42	107	105	0.69	0.61	1.88	1.82	9.70	0.21	0.07	
25	7.03	7.51	7.37	46	43	109	107	0.72	0.63	1.89	1.82	10.30	0.23	0.07	
26	7.62	7.47	7.37	47	46	112	110	0.74	0.66	1.95	1.87	10.70	0.22	0.07	
27	7.76	7.59	7.49	37	34	89	87	0.80	0.72	1.93	1.86	10.80	0.21	0.07	
28	7.84	7.57	7.50	44	42	86	84	0.82	0.72	1.89	1.80	11.30	0.21	0.07	
29	7.79	7.59	7.48	41	39	80	77	0.71	0.63	1.89	1.81	10.90	0.23	0.06	
30	7.71	7.57	7.46	44	42	87	86	0.77	0.67	1.90	1.81	10.60	0.24	0.06	
31	7.72	7.46	7.39	40	38	85	83	0.73	0.64	1.97	1.91	10.20	0.23	0.06	
AVERAGE	7.8	7.4	7.3	34	33	83	81	0.73	0.65	1.89	1.82	11.24	0.23	0.07	

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273

PLANT ID: A

AGENCY INTEREST: 2987

REPORT MONTH/YEAR: 03/2013

**AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA**

PAGE 4 OF 11

COPY PAGE AS NEEDED

DAY	RAW DAILY MAXIMUM	ANALYTICAL RESULTS (NTU)														CFE DAILY MAXIMUM
		SEDIMENTATION BASIN EFFLUENT						INDIVIDUAL FILTER EFFLUENT								
		DAILY MAXIMUM						DAILY MAXIMUM								
#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	#8			
1	13.70		0.24	0.23					0.05	0.06	0.07	0.06		0.06		
2	12.50		0.23	0.22					0.05	0.05	0.07	0.06		0.06		
3	11.70		0.28	0.26					0.04	0.05	0.05	0.05		0.06		
4	11.80		0.28	0.29					0.04	0.05	0.06	0.05		0.06		
5	11.70		0.32	0.26					0.05	0.06	0.05	0.05		0.06		
6	14.10		0.36	0.25					0.04	0.05	0.06	0.05		0.06		
7	13.60		0.38	0.26					0.04	0.05	0.06	0.07		0.07		
8	12.30		0.33	0.26					0.05	0.05	0.05	0.05		0.06		
9	12.20		0.23	0.24					0.06	0.07	0.07	0.05		0.06		
10	12.10		0.21	0.22					0.04	0.05	0.05	0.05		0.06		
11	12.00		0.23	0.24					0.04	0.05	0.06	0.05		0.06		
12	12.40		0.21	0.27					0.04	0.05	0.05	0.05		0.06		
13	12.30		0.24	0.25					0.05	0.06	0.05	0.05		0.06		
14	11.70		0.33	0.35					0.04	0.05	0.04	0.06		0.06		
15	11.30		0.31	0.38					0.04	0.05	0.07	0.07		0.06		
16	9.92		0.23	0.32					0.05	0.06	0.06	0.06		0.06		
17	9.91		0.29	0.30					0.05	0.06	0.10	0.06		0.09		
18	9.90		0.32	0.30					0.18	0.13	0.10	0.06		0.10		
19	8.94		0.26	0.27					0.05	0.06	0.12	0.05		0.07		
20	9.85		0.23	0.24					0.05	0.05	0.09	0.06		0.07		
21	10.00		0.22	0.25					0.05	0.05	0.08	0.05		0.06		
22	10.10		0.22	0.25					0.05	0.06	0.12	0.05		0.07		
23	9.80		0.23	0.25					0.05	0.05	0.14	0.05		0.07		
24	9.70		0.26	0.23					0.04	0.06	0.11	0.06		0.07		
25	10.30		0.47	0.23					0.06	0.06	0.12	0.05		0.06		
26	10.70		0.26	0.24					0.05	0.06	0.11	0.05		0.07		
27	10.80		0.21	0.24					0.05	0.06	0.10	0.06		0.07		
28	11.30		0.28	0.23					0.05	0.05	0.11	0.05		0.07		
29	10.90		0.37	0.24					0.05	0.05	0.05	0.05		0.05		
30	10.60		0.26	0.29					0.06	0.07	0.06	0.05		0.06		
31	10.20		0.26	0.27					0.05	0.05	0.06	0.05		0.06		
AVERAGE	11.2	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.06	0.08	0.06	#DIV/0!	0.06	

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2013

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)								Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	FLUORIDE		IRON		MANGANESE		RAW	TAP			
	RAW	TAP	RAW	TAP	RAW	TAP					
1	0.10	0.82	0.21	0.03	0.10	0.01			1.97	0.1	7.1
2	0.11	0.88	0.23	0.03	0.10	0.01			1.91	0.0	7.0
3	0.08	0.84	0.28	0.03	0.07	0.01			2.00	0.0	7.4
4	0.09	0.86	0.29	0.03	0.07	0.01			2.00	0.0	7.1
5	0.08	0.88	0.27	0.03	0.07	0.01			2.00	0.0	7.0
6	0.03	0.82	0.19	0.03	0.08	0.01			2.00	0.7	6.8
7	0.05	0.80	0.21	0.03	0.08	0.01			1.80	0.1	7.0
8	0.07	0.83	0.22	0.03	0.09	0.01			1.98	0.0	7.1
9	0.08	0.85	0.23	0.03	0.08	0.01			1.75	0.0	7.0
10	0.07	0.87	0.21	0.03	0.08	0.01			2.00	0.0	7.1
11	0.06	0.92	0.23	0.03	0.08	0.01			1.90	0.0	7.0
12	0.07	0.89	0.21	0.01	0.09	0.01			1.80	0.3	6.9
13	0.08	0.86	0.17	0.03	0.09	0.01			1.90	0.0	6.8
14	0.04	0.83	0.18	0.03	0.08	0.01			1.95	0.0	10.5
15	0.07	0.86	0.23	0.03	0.07	0.01			1.85	0.0	7.6
16	0.09	0.88	0.25	0.03	0.06	0.01			2.00	0.0	8.1
17	0.08	0.87	0.24	0.03	0.06	0.01			1.90	0.0	8.2
18	0.07	0.87	0.21	0.03	0.07	0.01			1.75	0.2	8.3
19	0.05	0.87	0.22	0.03	0.07	0.01			1.90	0.8	9.7
20	0.12	0.81	0.23	0.03	0.06	0.01			1.85	0.0	8.7
21	0.16	0.92	0.23	0.03	0.06	0.01			1.80	0.0	8.7
22	0.17	0.87	0.21	0.03	0.07	0.01			1.90	0.0	8.6
23	0.15	0.88	0.23	0.03	0.07	0.01			1.85	0.0	8.4
24	0.14	0.88	0.23	0.03	0.07	0.01			1.95	0.0	8.1
25	0.15	0.87	0.21	0.03	0.07	0.01			1.90	0.6	7.9
26	0.13	0.86	0.20	0.03	0.07	0.01			1.75	0.0	7.8
27	0.13	0.89	0.21	0.03	0.06	0.01			1.90	0.0	8.5
28	0.14	0.98	0.23	0.03	0.06	0.01			1.85	0.0	8.5
29	0.13	0.94	0.21	0.03	0.06	0.01			1.95	0.0	8.4
30	0.15	0.97	0.21	0.03	0.07	0.01			1.65	0.0	8.8
31	0.08	0.87	0.20	0.03	0.05	0.01			1.92	0.0	8.9
AVERAGE	0.10	0.87	0.22	0.03	0.07	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	7.9
									1.65		
									Number of readings	31	2.78
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

Y  N

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 03/2013  
 PAGE 6 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No: 7	
		AREA (square feet)	FILT RUN HRS								
1	0										
2	30,000					15,000	98.50	15,000	98.50		
3	0										
4	0										
5	30,000	15,000	115	15,000.00	115						
6	0										
7	42,000					23,000	106.90	19,000	106.90		
8	0										
9	28,000	14,000	90.40	14,000	90.40						
10	0										
11	40,000					20,000	96.70	20,000	96.70		
12	0										
13	31,000	16,000	94.00	15,000	94.80						
14	0										
15	38,000					18,000	100.00	18,000	100.00		
16	0										
17	0										
18	36,000	18,000	104.30	17,000	104.30						
19	0										
20	30,000					16,000	97.20	14,000	97.20		
21	0										
22	36,000	18,000	99.20	18,000	99.20						
23	0										
24	40,000					20,000	103.20	20,000	103.20		
25	0										
26	31,000	16,000	100.60	15,000	100.60						
27	0										
28	31,000					15,000	90.80	16,000	90.60		
29	0										
30	30,000	15,000	95.60	15,000	95.50						
31	0										
TOTAL	470,000	112,000	700.20	109,000	700.10	127,000	693.30	122,000	693.10	0	0.00
AVERAGE	15,161	16,000	100.029	15,571	100.014	18,143	99.043	17,429	99.014	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY000273  
PLANT ID : A

REPORT MONTH/YEAR 03/2013

ALL WATER STATUSES

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS									
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)									
			NIGHT		MORNING		AFTERNOON		EVENING		WATER	
			T	F	T	F	T	F	T	F	T	F
1	0.0		1.44	1.30	1.00	0.97	1.40	1.36	1.04	0.90		
2	5.8		1.78	1.73	1.71	1.66	1.63	1.60	1.41	1.36		
3	5.0		1.62	1.58	1.75	1.71	0.86	0.83	0.79	0.74		
4	5.8		1.28	1.10	1.41	1.34	1.64	1.45	1.28	1.20		
5	5.8		1.48	1.43	1.04	1.01	1.18	1.17	1.33	1.28		
6	5.8		1.64	1.50	1.38	1.31	1.50	1.45	1.16	1.14		
7	5.8		1.28	1.25	1.30	1.28	1.03	0.98	1.20	1.18		
8	5.8		0.92	0.75	1.43	1.34	0.84	0.82	1.35	1.32		
9	5.0		1.82	1.58	1.89	1.85	1.74	1.68	1.64	1.48		
10	5.8		1.82	1.79	1.74	1.69	1.87	1.77	1.82	1.77		
11	0.0		1.80	1.43	1.58	1.60	1.32	1.25	1.70	1.64		
12	0.0		1.45	1.44	1.08	1.04	1.50	1.47	0.92	0.82		
13	5.8		1.82	1.43	0.38	0.37	1.45	1.40	1.22	1.18		
14	5.8		1.00	1.55	1.33	1.31	0.51	0.44	1.70	1.61		
15	0.0		1.33	1.28	1.30	1.27	1.58	1.49	0.78	0.69		
16	5.8		1.49	1.42	1.69	1.63	0.86	0.80	1.08	1.06		
17	0.0		1.59	1.63	1.81	1.58	0.68	0.48	0.30	0.24		
18	0.0		1.51	1.33	1.24	1.17	1.52	1.47	1.23	1.15		
19	5.8		1.48	1.35	0.91	0.87	1.33	1.30	1.27	1.20		
20	5.8		0.74	0.69	0.86	0.77	1.54	1.49	0.99	0.98		
21	5.8		1.28	1.21	1.39	1.37	1.46	1.39	1.33	1.28		
22	5.8		0.97	0.89	1.25	1.20	1.05	1.00	1.24	1.18		
23	0.0		1.66	1.56	1.79	1.67	1.88	1.78	1.73	1.68		
24	0.0		1.83	1.77	1.38	1.27	1.73	1.70	1.78	1.68		
25	5.0		1.56	1.37	1.87	1.64	1.67	1.68	1.31	1.23		
26	5.0		1.30	1.34	1.24	1.17	1.44	1.37	1.01	0.92		
27	5.8		1.17	1.13	1.07	1.04	1.01	1.79	1.02	1.00		
28	5.8		1.53	1.43	1.70	1.67	1.40	1.88	1.60	1.46		
29	5.8		1.31	1.20	1.25	1.19	1.06	0.99	0.97	0.88		
30	0.0		1.75	1.74	1.73	1.68	0.66	0.60	1.07	0.97		
31	5.8		0.74	0.69	0.88	0.77	1.54	1.49	0.88	0.88		
AVERAGE	4.3	#DIV/0!	Average 1.42	1.35	1.35	1.29	1.34	1.28	1.23	1.17		
TOTAL	134.3	0.0	Total Minimum 0.74			0.98		0.51		0.30		
			Free Minimum:	0.89		0.37		0.44		0.24		

Total Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	1	0	0	0	0	1	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.24
Number of Total Residuals	124	Minimum Monthly Total Residual	0.30
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant (Chloramine)? (Y/N) **N**  
Number of days of operation? **31**

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID: A

**APPLICABLE TO ALL PLANTS WITH FILTRATION**

Report Period (MM/YYYY): 03/2013

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operative	% Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
2	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
3	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
4	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.058	
5	24.0	6	0.06	0.06	0.06	0.06	0.10	0.06	0.096	
6	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
7	23.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070	
8	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.057	
9	23.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061	
10	24.0	6	0.06	0.05	0.05	0.05	0.06	0.05	0.055	
11	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
12	21.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.057	
13	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.057	
14	20.0	5	0.06	0.06	0.06	0.05	0.06	0.06	0.057	
15	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.060	
16	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
17	24.0	6	0.06	0.06	0.05	0.05	0.06	0.06	0.063	
18	21.0	6	0.06	0.09	0.06	0.06	0.06	0.06	0.084	
19	20.0	5	0.07	0.10	0.07	0.07	0.06	0.07	0.099	
20	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.070	
21	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.062	
22	24.0	6	0.07	0.06	0.07	0.07	0.07	0.07	0.072	
23	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.069	
24	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.068	
25	21.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061	
26	23.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070	
27	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070	
28	24.0	6	0.07	0.07	0.07	0.06	0.05	0.05	0.071	
29	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
30	23.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
31	22.0	6	0.06	0.06	0.06	0.06	0.06	0.05	0.057	
<b>Total</b>	<b>720.0</b>	<b>184</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN</b>						<b>186</b>	<b>0.099</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding --> 0.1 NTU 0 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding --> 1 NTU 0 5 NTU 0

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above 4-9-2013

Signature of Principal Executive Officer or Authorized Agent

Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

03/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>59,361,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE DAILY PRODUCTION (gallons)	<u>1,914,871</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>2,000,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Number of hours of plant operation	<u>720.0</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>
Highest single turbidity reading	<u>0.10</u>
For all filtration except slow sand filtration	
Number of samples exceeded 0.1 NTU	<u>0</u>
Number of samples exceeded 0.3 NTU	<u>0</u>
Number of samples exceeded 1 NTU	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded	<u>31</u>
Lowest single chlorine reading	<u>1.65</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Free Chlorine (for all disinfectants except chloramine)	
Number of samples under 0.2 mg/L	<u>0</u>
Total Chlorine (when disinfectant is Chloramine)	
Number of samples under 0.5 mg/L	<u>0</u>

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorite reading	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

*Earl T. Allen*

Signature of Principal Executive Officer or Authorized Agent

4-9-2013

Date





# Martin County Water District

387 East Main Street  
Inez, KY 41224

806-298-3885 - Office

806-298-4913 - Fax

# Fax

To: Eleen Burk From: Earl T. Alley  
Fax: 1-502-564-2741 Date: 04/18/13  
Phone: Pages: 13  
Re: March 2013 MOR CC:

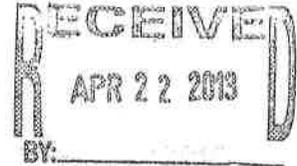
Urgent  For Review  Please Comment  Please Reply  Please Recycle

**•Comments:**

Sorry about the confusion....

Thanks

Tom



KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 03/2013

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	KY0800273	PLANT ID:	A	PLANT NAME:	Marlin County Water District
PWS NAME:	Marlin County Water District	PLANT CLASS:	3	DIST. CLASS:	2
AGENCY INTEREST (AI):	2987	DATE MAILED:	04-17-2013		
SOURCE NAME:	Crum Reservoir	COUNTY:	Marlin		
	Tug Fork				
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	Earl T Alley	1V-A	17562		
WTP SHIFT 2:	Michael Sartin	1V-A	21944		
WTP SHIFT 3:	Jerry L. Belcher / Justin L. Blackburn	1V-A / 111-A	21719 / 16310		
DISTRIBUTION:					

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- 1. DESIGN CAPACITY (gpm): 1,667
- 2. TYPE OF FILTRATION USED: Dual Media
- 3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- 4. PERCENT BACKWASH WATER USED: 0.8
- 5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- 6. DATE SETTLING BASIN(S) LAST CLEANED:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more that one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

04-17-2013  
DATE



**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2967  
 REPORT MONTH/YEAR: 03/2013

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	13.70		0.24	0.23						0.05	0.06	0.07	0.05		0.06
2	12.50		0.23	0.22						0.05	0.05	0.07	0.06		0.06
3	11.70		0.28	0.25						0.04	0.05	0.05	0.05		0.06
4	11.80		0.28	0.29						0.04	0.05	0.06	0.05		0.06
5	11.70		0.32	0.26						0.05	0.06	0.05	0.05		0.06
6	14.10		0.36	0.25						0.04	0.05	0.06	0.05		0.06
7	13.60		0.36	0.26						0.04	0.05	0.08	0.07		0.07
8	12.30		0.33	0.26						0.05	0.05	0.05	0.05		0.06
9	12.20		0.23	0.24						0.06	0.07	0.07	0.05		0.06
10	12.10		0.21	0.22						0.04	0.05	0.05	0.05		0.06
11	12.00		0.23	0.24						0.04	0.05	0.06	0.05		0.06
12	12.40		0.21	0.27						0.04	0.05	0.05	0.05		0.06
13	12.30		0.24	0.25						0.05	0.06	0.05	0.06		0.06
14	11.70		0.33	0.35						0.04	0.05	0.04	0.05		0.06
15	11.30		0.31	0.38						0.04	0.05	0.07	0.07		0.06
16	9.92		0.23	0.32						0.05	0.06	0.08	0.06		0.06
17	9.91		0.29	0.30						0.05	0.06	0.10	0.06		0.09
18	9.90		0.32	0.30						0.18	0.13	0.10	0.05		0.10
19	8.94		0.26	0.27						0.05	0.06	0.12	0.05		0.07
20	9.85		0.23	0.24						0.05	0.05	0.09	0.06		0.07
21	10.00		0.22	0.25						0.05	0.05	0.08	0.05		0.06
22	10.10		0.22	0.25						0.05	0.06	0.12	0.05		0.07
23	9.80		0.23	0.25						0.05	0.05	0.14	0.05		0.07
24	9.70		0.26	0.23						0.04	0.06	0.11	0.06		0.07
25	10.30		0.47	0.23						0.05	0.06	0.12	0.05		0.06
26	10.70		0.26	0.24						0.05	0.06	0.11	0.05		0.07
27	10.80		0.21	0.24						0.05	0.06	0.10	0.06		0.07
28	11.30		0.28	0.23						0.05	0.05	0.11	0.05		0.07
29	10.90		0.37	0.24						0.05	0.05	0.05	0.05		0.05
30	10.60		0.26	0.29						0.06	0.07	0.06	0.05		0.06
31	10.20		0.26	0.27						0.05	0.06	0.06	0.05		0.06
AVERAGE	11.2	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.06	0.08	0.05	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2013

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
	ANALYTICAL RESULTS (MOL/L OR PPM UNLESS OTHERWISE SPECIFIED)										
1	0.10	0.82	0.21	0.03	0.10	0.01			1.97	0.1	7.1
2	0.11	0.88	0.23	0.03	0.10	0.01			1.91	0.0	7.0
3	0.06	0.84	0.28	0.03	0.07	0.01			2.00	0.0	7.4
4	0.09	0.86	0.29	0.03	0.07	0.01			2.00	0.0	7.1
5	0.08	0.88	0.27	0.03	0.07	0.01			2.00	0.0	7.0
6	0.03	0.82	0.19	0.03	0.08	0.01			2.00	0.7	6.8
7	0.05	0.80	0.21	0.03	0.08	0.01			1.90	0.1	7.0
8	0.07	0.83	0.22	0.03	0.09	0.01			1.96	0.0	7.1
9	0.06	0.85	0.23	0.03	0.08	0.01			1.75	0.0	7.0
10	0.07	0.87	0.21	0.03	0.08	0.01			2.00	0.0	7.1
11	0.06	0.92	0.23	0.03	0.08	0.01			1.90	0.0	7.0
12	0.07	0.89	0.21	0.01	0.09	0.01			1.80	0.3	6.9
13	0.06	0.86	0.17	0.03	0.09	0.01			1.90	0.0	6.8
14	0.04	0.83	0.18	0.03	0.08	0.01			1.95	0.0	10.5
15	0.07	0.86	0.23	0.03	0.07	0.01			1.95	0.0	7.6
16	0.09	0.88	0.25	0.03	0.06	0.01			2.00	0.0	8.1
17	0.08	0.87	0.24	0.03	0.06	0.01			1.90	0.0	8.2
18	0.07	0.87	0.21	0.03	0.07	0.01			1.75	0.2	8.3
19	0.05	0.87	0.22	0.03	0.07	0.01			1.90	0.8	9.7
20	0.12	0.81	0.23	0.03	0.06	0.01			1.85	0.0	8.7
21	0.16	0.92	0.23	0.03	0.06	0.01			1.80	0.0	8.7
22	0.17	0.87	0.21	0.03	0.07	0.01			1.90	0.0	8.6
23	0.15	0.88	0.23	0.03	0.07	0.01			1.85	0.0	8.4
24	0.14	0.86	0.23	0.03	0.07	0.01			1.95	0.0	8.1
25	0.15	0.87	0.21	0.03	0.07	0.01			1.90	0.6	7.9
26	0.13	0.86	0.20	0.03	0.07	0.01			1.75	0.0	7.8
27	0.13	0.89	0.21	0.03	0.06	0.01			1.90	0.0	8.5
28	0.14	0.98	0.23	0.03	0.06	0.01			1.85	0.0	8.5
29	0.13	0.94	0.21	0.03	0.05	0.01			1.95	0.0	8.4
30	0.15	0.97	0.21	0.03	0.07	0.01			1.65	0.0	8.8
31	0.08	0.87	0.20	0.03	0.05	0.01			1.92	0.0	8.9
AVERAGE	0.10	0.87	0.22	0.03	0.07	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	7.9
									1.65		
									Number of readings	31	2.78
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0600273

PLANT ID: A

REPORT MONTH/YEAR: 03/2013

APPLICABLE TO ALL PLANTS WITH FILTRATION

PAGE 6 OF 11

DAY	FILTER OPERATIONS										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No: 7	
		AREA (square feet)	FILT RUN HRS								
1	0										
2	30,000					15,000	98.50	15,000	98.50		
3	0										
4	0										
5	30,000	15,000	115	15000.00	115						
6	0										
7	42,000					23,000	106.90	19,000	106.90		
8	0										
9	28,000	14,000	90.40	14,000	90.40						
10	0										
11	40,000					20,000	96.70	20,000	96.70		
12	0										
13	31,000	16,000	94.80	15,000	94.80						
14	0										
15	36,000					18,000	100.00	18,000	100.00		
16	0										
17	0										
18	35,000	18,000	104.30	17,000	104.30						
19	0										
20	30,000					16,000	97.20	14,000	97.20		
21	0										
22	36,000	18,000	99.20	18,000	99.20						
23	0										
24	40,000					20,000	103.20	20,000	103.20		
25	0										
26	31,000	16,000	100.50	15,000	100.50						
27	0										
28	31,000					15,000	90.80	16,000	90.60		
29	0										
30	30,000	15,000	95.60	15,000	95.50						
31	0										
TOTAL	470,000	112,000	700.20	109,000	700.10	127,000	693.30	122,000	693.10	0	0.00
AVERAGE	15,161	16,000	100.029	15,571	100.014	18,143	99.043	17,429	99.014	#DIV/0!	#DIV/0!

COPY AS NEEDED



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

03/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>59,361,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,914,871</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>2,000,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>720.0</u>	Number of days of plant operation	<u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>	Number of lowest chlorine samples recorded	<u>31</u>
Highest single turbidity reading	<u>0.10</u>	Lowest single chlorine reading	<u>1.65</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>0</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU	<u>0</u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.5 mg/L	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>		

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>	Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

*Earl T. Alley*

Signature of Principal Executive Officer or Authorized Agent

04-17-2013

Date



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 03/2013  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,067,000	24.0	395.7	24.1	4.2	0.3			323.6	19.7	183.2	11.2
2	1,936,000	24.0	395.7	24.5	4.2	0.3			320.2	19.8	183.2	11.3
3	1,972,000	24.0	395.7	24.1	4.2	0.3			328.0	19.9	183.2	11.1
4	1,993,000	24.0	395.7	23.9	4.2	0.3			341.3	20.6	183.2	11.1
5	1,972,000	24.0	395.7	24.1	4.2	0.3			323.6	19.7	183.2	11.1
6	1,997,000	24.0	395.7	23.8	4.2	0.3			323.6	19.4	169.2	10.2
7	1,992,000	23.0	379.2	22.8	4.0	0.2			323.6	19.5	169.2	10.2
8	1,989,000	24.0	395.7	23.9	4.2	0.3			341.3	20.6	169.2	10.2
9	1,687,000	23.0	379.2	24.1	4.0	0.3			327.8	20.8	162.2	10.3
10	1,991,000	24.0	395.7	23.8	4.2	0.3			341.3	20.6	169.2	10.2
11	1,572,000	21.0	344.4	28.6	3.7	0.3			287.5	21.9	148.1	11.3
12	1,966,000	24.0	395.7	24.1	4.2	0.3			323.6	19.7	169.6	10.3
13	1,672,000	20.0	329.8	23.7	3.5	0.3			279.5	20.0	141.0	10.1
14	1,960,000	24.0	395.7	24.2	4.2	0.3			341.3	20.9	169.2	10.4
15	1,948,000	24.0	395.7	24.4	4.2	0.3			341.3	21.0	169.2	10.4
16	1,993,000	24.0	395.7	23.8	4.2	0.3			341.3	20.6	169.2	10.2
17	1,808,000	21.0	346.3	23.0	3.7	0.2			300.8	20.0	143.6	9.5
18	1,713,000	20.0	329.8	23.1	3.5	0.2			294.1	20.6	136.5	9.6
19	1,592,000	24.0	395.7	23.8	4.2	0.3			341.3	20.5	163.9	9.9
20	1,929,000	23.0	379.2	23.6	4.0	0.2			332.4	20.7	161.0	10.0
21	1,994,000	24.0	395.7	23.8	4.2	0.3			302.9	18.2	159.8	9.6
22	1,937,000	24.0	395.7	24.5	4.2	0.3			311.6	19.3	164.3	10.2
23	2,000,000	24.0	395.7	23.7	4.2	0.3			338.1	20.3	169.2	10.1
24	1,927,000	24.0	395.7	24.6	4.2	0.3			325.7	20.3	169.2	10.5
25	1,705,000	21.0	344.4	24.2	3.7	0.3			300.8	21.2	169.2	11.9
26	1,935,000	23.0	379.2	23.5	4.0	0.2			310.1	19.2	169.2	10.5
27	1,954,000	24.0	395.7	24.3	4.2	0.3			331.2	20.3	169.2	10.4
28	1,936,000	24.0	395.7	24.6	4.2	0.3			326.2	20.2	169.2	10.5
29	1,963,000	24.0	343.0	20.9	4.2	0.3			309.7	18.9	169.2	10.3
30	1,938,000	23.0	303.4	18.8	4.0	0.2			291.9	18.1	162.2	10.0
31	1,833,000	22.0	277.0	18.1	3.9	0.3			251.2	16.4	155.1	10.1
TOTAL	59,861,000		11653.1		125.9		0.0		9877.9		5151.8	
AVERAGE	1,914,871		375.9	23.6	4.1	0.3	#DIV/0!	#DIV/0!	318.6	20.0	166.2	10.4
MAX	2,000,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2013

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.57	7.26	7.21	30	27	70	69	0.64	0.56	1.85	1.78	13.70	0.21	0.06
2	7.44	7.30	7.25	32	29	74	71	0.66	0.58	1.82	1.77	12.50	0.21	0.07
3	7.62	7.30	7.25	20	19	70	68	0.76	0.65	1.91	1.86	11.70	0.23	0.06
4	7.53	7.30	7.18	21	19	72	70	0.80	0.71	1.88	1.81	11.80	0.23	0.07
5	7.51	7.22	7.13	23	20	73	71	0.74	0.66	1.93	1.86	11.70	0.23	0.07
6	7.35	7.27	7.21	28	25	70	69	0.70	0.62	1.78	1.72	14.10	0.26	0.06
7	7.59	7.35	7.28	27	24	68	68	0.67	0.59	1.72	1.65	13.80	0.26	0.07
8	7.50	7.30	7.19	29	28	70	68	0.74	0.66	1.90	1.83	12.30	0.23	0.06
9	7.49	7.33	7.17	28	25	71	70	0.71	0.63	1.93	1.87	12.20	0.20	0.07
10	7.48	7.32	7.18	29	28	72	70	0.74	0.67	2.01	1.93	12.10	0.20	0.07
11	7.48	7.20	7.07	28	25	71	64	0.70	0.63	1.94	1.87	12.00	0.21	0.07
12	7.44	7.19	7.14	29	28	75	73	0.67	0.60	1.91	1.84	12.40	0.22	0.06
13	7.41	7.26	7.20	32	31	78	76	0.71	0.64	1.86	1.80	12.30	0.21	0.06
14	7.41	7.25	7.18	36	35	79	77	0.74	0.67	1.95	1.88	11.70	0.24	0.06
15	7.61	7.34	7.24	22	21	77	74	0.76	0.69	1.91	1.84	11.30	0.26	0.06
16	7.69	7.52	7.37	34	34	84	82	0.75	0.68	1.91	1.83	9.92	0.30	0.07
17	7.68	7.53	7.33	35	34	85	84	0.77	0.69	1.90	1.84	9.91	0.26	0.06
18	7.67	7.42	7.22	36	35	84	83	0.76	0.68	1.84	1.77	9.90	0.27	0.07
19	7.14	7.45	7.27	38	37	86	85	0.72	0.64	1.84	1.77	8.94	0.23	0.07
20	7.72	7.56	7.46	38	36	74	71	0.77	0.69	1.87	1.79	9.85	0.21	0.06
21	7.80	7.52	7.44	41	40	104	100	0.75	0.68	1.79	1.74	10.00	0.22	0.07
22	7.81	7.51	7.44	42	41	105	103	0.68	0.61	1.86	1.79	10.10	0.22	0.07
23	7.76	7.61	7.47	43	41	106	104	0.75	0.67	1.90	1.82	9.80	0.22	0.06
24	7.67	7.48	7.39	44	42	107	105	0.69	0.61	1.89	1.82	9.70	0.21	0.07
25	7.63	7.51	7.37	46	43	109	107	0.72	0.63	1.89	1.82	10.30	0.23	0.07
26	7.62	7.47	7.37	47	46	112	110	0.74	0.66	1.95	1.87	10.70	0.22	0.07
27	7.75	7.59	7.49	37	34	89	87	0.80	0.72	1.93	1.86	10.80	0.21	0.07
28	7.84	7.57	7.50	44	42	85	84	0.82	0.72	1.89	1.80	11.30	0.21	0.07
29	7.79	7.56	7.46	41	39	80	77	0.71	0.63	1.89	1.81	10.90	0.23	0.06
30	7.71	7.57	7.46	44	42	87	86	0.77	0.67	1.90	1.81	10.60	0.24	0.06
31	7.72	7.46	7.39	40	38	85	83	0.73	0.64	1.97	1.91	10.20	0.23	0.06
AVERAGE	7.6	7.4	7.3	34	33	83	81	0.73	0.65	1.89	1.82	11.24	0.23	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

**ALL WATER SYSTEMS**

REPORT MONTH/YEAR: 03/2013

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS									
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)									
			NORTH		SOUTH		EAST		WEST			
			T	F	T	F	T	F	T	F		
1	5.8		1.44	1.39	1.08	0.97	1.40	1.36	1.04	0.98		
2	5.8		1.78	1.73	1.71	1.66	1.63	1.60	1.41	1.36		
3	5.8		1.62	1.58	1.75	1.71	0.88	0.83	0.79	0.74		
4	5.8		1.28	1.10	1.41	1.34	1.54	1.45	1.29	1.20		
5	5.8		1.48	1.43	1.04	1.01	1.18	1.17	1.33	1.29		
6	5.8		1.54	1.50	1.38	1.31	1.50	1.45	1.16	1.14		
7	5.8		1.28	1.25	1.30	1.26	1.03	0.98	1.20	1.18		
8	5.8		0.82	0.75	1.43	1.34	0.84	0.82	1.35	1.32		
9	5.8		1.82	1.58	1.89	1.65	1.74	1.68	1.53	1.48		
10	5.8		1.82	1.79	1.74	1.69	1.87	1.77	1.82	1.77		
11	0.0		1.59	1.43	1.58	1.50	1.32	1.25	1.70	1.64		
12	0.0		1.45	1.44	1.08	1.04	1.50	1.47	0.92	0.82		
13	5.8		1.52	1.43	0.38	0.37	1.45	1.40	1.22	1.18		
14	5.8		1.60	1.55	1.33	1.31	0.51	0.44	1.70	1.61		
15	0.0		1.33	1.28	1.30	1.27	1.56	1.49	0.78	0.69		
16	5.8		1.49	1.42	1.69	1.63	0.86	0.80	1.09	1.08		
17	0.0		1.59	1.53	1.61	1.58	0.55	0.48	0.30	0.24		
18	0.0		1.51	1.33	1.24	1.17	1.52	1.47	1.23	1.15		
19	5.8		1.46	1.35	0.91	0.87	1.33	1.30	1.27	1.26		
20	5.8		0.74	0.69	0.88	0.77	1.54	1.49	0.99	0.96		
21	5.8		1.28	1.21	1.39	1.37	1.46	1.39	1.33	1.28		
22	5.8		0.97	0.88	1.25	1.20	1.06	1.00	1.24	1.18		
23	0.0		1.66	1.55	1.73	1.67	1.86	1.78	1.73	1.68		
24	0.0		1.83	1.77	1.38	1.27	1.73	1.70	1.76	1.68		
25	5.8		1.58	1.37	1.87	1.64	1.67	1.59	1.31	1.23		
26	5.8		1.39	1.34	1.24	1.17	1.44	1.37	1.01	0.92		
27	5.8		1.17	1.13	1.07	1.04	1.81	1.79	1.02	1.00		
28	5.8		1.53	1.43	1.70	1.67	1.40	1.38	1.50	1.45		
29	5.8		1.31	1.28	1.25	1.19	1.08	0.99	0.97	0.88		
30	0.0		1.75	1.74	1.73	1.68	0.66	0.60	1.02	0.97		
31	5.8		0.74	0.69	0.86	0.77	1.54	1.49	0.99	0.86		
AVERAGE	4.3	#DIV/0!	Average	1.42	1.35	1.35	1.29	1.34	1.28	1.23	1.17	
TOTAL	134.3	0.0	Total	0.74		0.38		0.51		0.30		
			Free		0.69		0.37		0.44		0.24	

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	1	0	0	0	0	1	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.24
Number of Total Residuals	124	Minimum Monthly Total Residual	0.30
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 03/2013

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	For Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - 40	DAILY Maximum
1	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064
2	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064
3	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060
4	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.058
5	24.0	6	0.06	0.06	0.06	0.06	0.10	0.06	0.096
6	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060
7	23.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070
8	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.057
9	23.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061
10	24.0	6	0.06	0.05	0.05	0.05	0.06	0.05	0.055
11	21.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062
12	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.057
13	20.0	5	0.06	0.06	0.06	0.05	0.06	0.06	0.057
14	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.060
15	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060
16	24.0	6	0.06	0.06	0.05	0.05	0.06	0.06	0.063
17	21.0	6	0.06	0.09	0.06	0.06	0.06	0.06	0.094
18	20.0	5	0.07	0.10	0.07	0.07	0.06	0.07	0.099
19	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.070
20	23.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.070
21	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062
22	24.0	6	0.07	0.06	0.07	0.07	0.07	0.07	0.072
23	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.069
24	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.068
25	21.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061
26	23.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070
27	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070
28	24.0	6	0.07	0.07	0.07	0.06	0.05	0.05	0.071
29	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050
30	23.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060
31	22.0	6	0.06	0.06	0.06	0.06	0.06	0.05	0.057
<b>Total</b>	<b>720.0</b>	<b>184</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>					<b>186</b>	<b>0.099</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding --> 0.1 NTU 0 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding --> 1 NTU 0 5 NTU 0

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

04-17-2013  
 Date

**MARTIN CO. WATER DISTRICT**

387 E Main St. 140

INEZ, KY 41224-9406



Division of Water  
Compliance and Technical Assistance Branch  
200 Fair Oaks Ln, 4th Floor  
Frankfort, KY 40601

Phone: 502-564-3410

RECEIVED  
MAY 10 2013  
BY: \_\_\_\_\_

KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH  
MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 04/2013      Indicate one with "X"  SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY  
 DEP Form 4012--Revised 07/2006

PWS ID:	<u>KY0800273</u>	PLANT ID:	<u>A</u>	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS:	<u>3</u>	DIST. CLASS:	<u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>05-08-2013</u>		
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>		
	<u>Tug Fork</u>				
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>		
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>		
WTP SHIFT 3:	<u>Jerry L Belcher / Justin L Blackburn</u>	<u>1V-A / 111-A</u>	<u>21719 / 16310</u>		
DISTRIBUTION:	_____				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 0.9
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/16/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

05-07-2013  
DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0809273  
 PLANT ID : A

REPORT MONTH/YEAR: 04/2013  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,935,000	24.0	237.4	14.7	4.2	0.3			294.4	18.2	169.2	10.5
2	1,741,000	24.0	237.4	16.3	4.2	0.3			252.3	17.4	169.2	11.7
3	1,991,000	24.0	237.4	14.3	4.2	0.3			306.6	18.5	169.2	10.2
4	1,941,000	23.0	227.5	14.1	4.0	0.2			278.6	17.2	169.2	10.5
5	1,851,000	22.0	217.8	14.1	3.9	0.3			277.2	18.0	155.1	10.0
6	1,556,000	19.0	187.9	14.5	3.3	0.3			288.7	22.2	134.0	10.3
7	1,982,000	24.0	237.4	14.4	4.2	0.3			341.3	20.6	169.2	10.2
8	1,939,000	24.0	237.4	14.7	4.2	0.3			334.6	20.7	169.2	10.5
9	1,966,000	24.0	237.4	14.5	4.2	0.3			306.6	18.7	169.2	10.3
10	1,824,000	22.0	217.6	14.3	3.9	0.3			291.0	19.1	169.2	11.1
11	1,891,000	23.0	227.5	14.4	4.0	0.3			295.2	18.7	162.2	10.3
12	1,871,000	23.0	227.5	14.6	4.0	0.3			280.5	18.0	162.2	10.4
13	1,978,000	24.0	237.4	14.4	4.2	0.3			326.0	18.8	175.6	10.6
14	1,920,000	24.0	237.4	14.8	4.2	0.3			336.8	21.0	174.1	10.9
15	1,835,000	22.0	217.6	14.2	3.9	0.3			316.5	20.7	155.1	10.1
16	1,734,000	22.0	217.6	15.0	3.9	0.3			298.1	20.6	155.1	10.7
17	1,992,000	24.0	237.4	14.3	4.2	0.3			290.7	17.5	169.2	10.2
18	1,855,000	22.0	217.6	14.1	3.9	0.3			290.3	18.8	169.2	10.9
19	2,012,000	24.0	237.4	14.1	4.2	0.3			307.9	18.9	169.2	10.1
20	1,832,000	21.0	207.7	13.6	3.7	0.2			274.4	18.0	154.4	10.1
21	1,880,000	24.0	237.4	14.4	4.2	0.3			330.4	20.0	183.2	11.1
22	1,937,000	24.0	237.4	14.7	4.2	0.3			336.8	20.9	183.2	11.3
23	1,890,000	23.0	227.5	14.4	4.0	0.3			323.7	20.5	175.5	11.1
24	1,866,000	23.0	227.5	14.6	4.0	0.3			300.7	19.3	175.5	11.3
25	1,976,000	24.0	237.4	14.4	4.2	0.3			322.6	19.6	183.2	11.1
26	1,872,000	22.0	217.6	13.9	3.9	0.2			301.3	19.3	167.9	10.8
27	1,988,000	24.0	237.4	14.3	4.2	0.3			316.8	19.1	183.2	11.1
28	1,845,000	22.0	217.6	14.1	3.9	0.3			316.5	20.6	167.9	10.9
29	1,899,000	23.0	227.5	14.4	4.0	0.3			330.0	20.8	175.5	11.1
30	1,885,000	23.0	227.5	14.5	4.0	0.3			325.1	20.7	170.5	10.8
31												
TOTAL	56,784,000		6834.9		121.1		0.0		9191.8		5054.4	
AVERAGE	1,892,800		227.8	14.4	4.0	0.3	#DIV/0!	#DIV/0!	306.4	19.4	168.5	10.7
MAX	2,012,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 04/2013

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (G.D.L. OR PPM UNLESS OTHERWISE SPECIFIED)													
	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
1	7.64	7.62	7.45	49	46	97	96	0.76	0.68	2.03	1.97	9.89	0.26	0.07
2	7.62	7.57	7.42	48	47	98	96	0.69	0.62	2.00	1.94	9.88	0.22	0.07
3	7.75	7.82	7.53	44	42	97	94	0.72	0.63	1.87	1.81	9.33	0.25	0.06
4	7.78	7.62	7.53	47	45	93	90	0.78	0.69	1.88	1.80	8.99	0.24	0.06
5	7.71	7.57	7.43	43	41	95	92	0.70	0.62	1.87	1.80	8.86	0.22	0.05
6	7.76	7.48	7.34	44	42	96	94	0.78	0.70	2.09	2.03	8.83	0.22	0.06
7	7.71	7.39	7.24	45	43	97	95	0.80	0.71	2.08	2.00	8.81	0.21	0.06
8	7.72	7.42	7.28	47	46	98	95	0.80	0.72	1.96	1.88	8.73	0.21	0.06
9	7.53	7.48	7.39	48	46	97	96	0.68	0.60	1.83	1.75	7.56	0.22	0.06
10	7.69	7.53	7.44	40	38	87	88	0.74	0.65	1.92	1.82	7.05	0.21	0.06
11	7.65	7.54	7.44	47	43	79	77	0.74	0.64	1.88	1.79	6.69	0.20	0.05
12	7.83	7.56	7.48	42	40	92	89	0.77	0.67	1.90	1.80	6.33	0.20	0.06
13	7.65	7.50	7.37	45	42	88	85	0.71	0.61	1.87	1.78	5.72	0.20	0.05
14	7.63	7.50	7.34	46	45	89	87	0.71	0.62	1.94	1.85	5.71	0.19	0.06
15	7.68	7.41	7.27	47	46	88	86	0.75	0.66	1.95	1.86	5.72	0.19	0.05
16	7.62	7.43	7.35	48	46	89	87	0.78	0.69	2.00	1.93	5.68	0.20	0.05
17	7.56	7.51	7.40	38	37	96	93	0.76	0.66	1.89	1.81	4.11	0.19	0.05
18	7.61	7.52	7.44	42	39	87	86	0.79	0.68	1.98	1.88	5.29	0.19	0.05
19	7.62	7.47	7.34	44	40	89	88	0.81	0.70	1.99	1.90	5.50	0.18	0.06
20	7.42	7.33	7.22	43	41	86	84	0.70	0.61	1.89	1.82	5.37	0.17	0.05
21	7.44	7.30	7.26	46	42	101	99	0.70	0.59	1.95	1.85	5.29	0.19	0.05
22	7.47	7.55	7.41	47	46	100	99	0.67	0.57	2.04	1.93	5.28	0.21	0.06
23	7.87	7.47	7.36	48	46	101	98	0.68	0.59	1.96	1.87	5.21	0.21	0.05
24	7.51	7.37	7.32	49	47	100	99	0.69	0.62	2.00	1.92	4.87	0.23	0.05
25	7.42	7.37	7.32	47	46	103	101	0.69	0.61	1.98	1.91	5.08	0.20	0.05
26	7.52	7.47	7.39	44	40	87	86	0.77	0.68	1.94	1.86	5.45	0.26	0.05
27	7.53	7.48	7.42	45	43	88	86	0.77	0.68	1.91	1.82	5.39	0.24	0.05
28				44	41	89	87	0.67	0.60	1.92	1.83	5.38	0.22	0.06
29	7.60	7.60	7.60	45	44	88	87	0.69	0.60	1.88	1.80	5.41	0.22	0.06
30	7.60	7.45	7.41	44	43	89	86	0.60	0.58	1.91	1.82	5.46	0.29	0.06
31														
AVERAGE	7.6	7.5	7.4	45	43	93	91	0.73	0.64	1.94	1.86	6.56	0.21	0.06

**OPTIONAL INFORMATION-Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 04/2013

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PAGE 4 OF 11

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	9.89		0.27	0.30						0.05	0.06	0.14	0.13		0.08
2	9.88		0.27	0.44						0.05	0.05	0.13	0.11		0.06
3	9.33		0.26	0.28						0.05	0.05	0.06	0.06		0.06
4	8.99		0.26	0.24						0.05	0.07	0.05	0.05		0.06
5	8.86		0.27	0.24						0.05	0.05	0.05	0.04		0.05
6	8.83		0.25	0.23						0.05	0.05	0.10	0.08		0.07
7	8.81		0.29	0.24						0.05	0.06	0.06	0.05		0.06
8	8.73		0.34	0.24						0.06	0.06	0.09	0.04		0.06
9	7.56		0.31	0.26						0.06	0.05	0.08	0.07		0.06
10	7.05		0.26	0.30						0.05	0.05	0.10	0.06		0.07
11	6.69		0.24	0.23						0.05	0.05	0.06	0.05		0.06
12	6.33		0.24	0.21						0.06	0.05	0.06	0.05		0.06
13	5.72		0.21	0.27						0.08	0.05	0.10	0.05		0.06
14	5.71		0.24	0.23						0.06	0.04	0.08	0.05		0.06
15	5.72		0.21	0.22						0.05	0.05	0.05	0.05		0.05
16	5.68		0.22	0.24						0.06	0.05	0.05	0.04		0.07
17	4.11		0.22	0.34						0.06	0.05	0.05	0.05		0.05
18	5.29		0.18	0.44						0.05	0.05	0.08	0.06		0.06
19	5.50		0.20	0.24						0.05	0.05	0.06	0.05		0.06
20	5.37		0.20	0.19						0.06	0.04	0.06	0.05		0.06
21	5.29		0.19	0.24						0.06	0.06	0.07	0.05		0.06
22	5.28		0.22	0.27						0.06	0.05	0.07	0.06		0.06
23	5.21		0.28	0.23						0.06	0.05	0.06	0.05		0.06
24	4.87		0.33	0.24						0.07	0.06	0.07	0.05		0.06
25	5.08		0.24	0.22						0.06	0.05	0.07	0.05		0.06
26	5.45		0.35	0.29						0.06	0.05	0.07	0.06		0.06
27	5.39		0.24	0.28						0.06	0.05	0.05	0.05		0.06
28	5.38		0.23	0.27						0.06	0.06	0.08	0.05		0.06
29	5.41		0.23	0.24						0.07	0.07	0.11	0.05		0.07
30	5.46		0.45	0.46						0.06	0.06	0.17	0.07		0.09
31															
AVERAGE	6.6	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.05	0.08	0.06	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 04/2013

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.13	0.93	0.21	0.03	0.05	0.01			2.00	0.1	8.6
2	0.12	0.91	0.20	0.03	0.05	0.01			1.90	0.0	8.5
3	0.14	0.88	0.17	0.03	0.05	0.01			1.90	0.0	9.1
4	0.12	0.86	0.19	0.03	0.05	0.01			1.85	0.0	9.4
5	0.11	0.90	0.19	0.03	0.05	0.01			1.80	0.1	9.0
6	0.12	0.88	0.18	0.03	0.06	0.01			1.95	0.0	8.8
7	0.13	0.91	0.17	0.03	0.05	0.01			1.95	0.0	9.1
8	0.15	0.86	0.15	0.03	0.06	0.01			1.65	0.0	9.2
9	0.14	0.91	0.13	0.03	0.05	0.01			1.70	0.0	11.1
10	0.16	0.90	0.16	0.03	0.06	0.01			1.80	0.0	10.2
11	0.17	0.93	0.15	0.03	0.05	0.01			1.90	0.0	10.4
12	0.17	0.80	0.15	0.03	0.04	0.01			1.85	0.2	10.9
13	0.18	0.97	0.15	0.03	0.08	0.01			1.80	0.0	11.0
14	0.17	0.95	0.14	0.03	0.07	0.01			1.95	0.0	10.9
15	0.15	0.89	0.13	0.03	0.07	0.01			2.00	0.1	10.8
16	0.13	0.96	0.12	0.03	0.06	0.01			1.85	0.0	11.1
17	0.22	0.96	0.11	0.03	0.03	0.01			1.80	1.1	11.6
18	0.15	0.95	0.13	0.03	0.03	0.01			1.80	0.6	11.5
19	0.14	0.96	0.15	0.03	0.03	0.01			1.95	0.0	11.9
20	0.21	0.95	0.12	0.03	0.03	0.01			1.77	0.5	12.1
21	0.16	0.90	0.11	0.03	0.04	0.01			1.90	0.0	11.9
22	0.17	0.92	0.12	0.03	0.04	0.01			1.82	0.0	11.8
23	0.15	0.92	0.13	0.03	0.04	0.01			1.90	0.0	12.2
24	0.13	0.93	0.12	0.03	0.03	0.01			1.95	0.0	12.6
25	0.14	0.91	0.13	0.03	0.04	0.01			1.90	0.3	11.9
26	0.15	0.92	0.12	0.03	0.03	0.01			1.75	0.0	12.0
27	0.16	0.94	0.11	0.03	0.04	0.01			1.85	0.0	12.1
28	0.17	0.92	0.10	0.03	0.04	0.01			1.85	0.7	12.0
29	0.16	0.90	0.12	0.03	0.04	0.01			1.80	0.2	12.5
30	0.14	0.96	0.10	0.03	0.04	0.01			1.80	0.0	
31											
AVERAGE	0.15	0.92	0.14	0.03	0.05	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	10.8
									1.65		
									Number of readings	30	3.79
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)  N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 04/2013

APPLICABLE TO ALL PLANTS WITH FILTRATION

PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No: 7	
		AREA (square feet)	FILT RUN HRS								
1	31,000					16,000	99.00	15,000	98.90		
2	34,000					17,000	19.80	17,000	19.80		
3	0										
4	30,000	15,000	100.20	15,000	100.20						
5	0										
6	34,000					17,000	90.40	17,000	90.50		
7	0										
8	30,000	15,000	104.70	15,000	104.70						
9	0										
10	26,000					14,000	82.10	12,000	82.10		
11	0										
12	33,000	17,000	92.00	16,000	92.00						
13	0										
14	36,000					18,000	102.80	18,000	102.80		
15	0										
16	29,000	15,000	90.90	14,000	90.90						
17	0										
18	26,000					13,000	91.10	13,000	91.10		
19	0										
20	30,000	15,000	90.80	15,000	90.80						
21	0										
22	36,000					18,000	92.80	18,000	92.80		
23	0										
24	29,000	15,000	94.40	14,000	94.40						
25	0										
26	34,000					19,000	80.40	15,000	80.40		
27	0										
28	0										
29	30,000	15,000	103.20	15,000	103.20						
30	32,000					16,000	104.20	16,000	104.20		
31	0										
TOTAL	500,000	107,000	676.20	104,000	676.20	146,000	762.60	141,000	762.60	0	0.00
AVERAGE	16,129	15,286	96.600	14,857	96.600	16,444	84.733	15,667	84.733	#DIV/0!	#DIV/0!

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 04/2013

ALL WATER SYSTEMS

PAGE 7 OF 11

DAY	CHEMICALS ADDED		DISTRIBUTION SYSTEM OPERATION								
	CHLDRINE BOOSTER LBS	CHLORINE BOOSTER LBS	TEST RESULTS								
			TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1	5.8		1.48	1.44	1.39	1.29	1.83	1.70	1.34	1.24	
2	0.0		1.09	1.03	1.13	1.11	1.16	1.10	1.07	1.04	
3	5.8		1.31	1.28	0.80	0.78	1.16	1.05	1.09	1.02	
4	0.0		1.80	1.53	1.35	1.27	1.84	1.81	1.63	1.56	
5	0.0		0.96	0.88	1.43	1.39	1.75	1.70	1.48	1.41	
6	0.0		1.82	1.76	1.37	1.30	1.87	1.73	1.89	1.89	
7	0.0		1.83	1.76	1.87	1.61	1.75	1.70	1.54	1.52	
8	0.0		1.79	1.75	1.23	1.15	1.73	1.65	1.25	1.21	
9	0.0		0.95	0.89	1.19	1.12	1.22	1.16	1.70	1.65	
10	0.0		1.54	1.48	0.72	0.60	1.45	1.39	1.31	1.20	
11	0.0		1.36	1.33	1.39	1.31	1.30	1.21	1.37	1.30	
12	0.0		1.60	1.53	1.40	1.37	1.90	1.54	1.15	1.04	
13	0.0		1.36	1.27	1.10	1.02	1.37	1.29	1.65	1.59	
14	0.0		1.64	1.58	1.29	1.19	0.85	0.89	0.58	0.45	
15	0.0		1.62	1.52	1.00	0.97	1.47	1.40	1.09	1.04	
16	0.0		1.72	1.65	1.14	1.07	0.99	0.93	1.20	1.15	
17	0.0		1.67	1.52	1.41	1.38	1.52	1.45	0.47	0.41	
18	0.0		1.89	1.83	1.49	1.42	1.80	1.72	1.55	1.48	
19	0.0		1.66	1.56	1.29	1.19	1.34	1.28	1.29	1.20	
20	0.0		1.58	1.52	1.39	1.31	1.47	1.36	1.65	1.56	
21	0.0		1.41	1.33	1.51	1.42	1.47	1.37	1.49	1.43	
22	0.0		1.80	1.71	1.14	1.05	1.86	1.77	1.87	1.81	
23	0.0		1.10	1.02	1.45	1.46	1.63	1.57	0.96	0.88	
24	0.0		1.74	1.64	1.42	1.39	1.53	1.50	1.42	1.37	
25	0.0		1.51	1.41	1.68	1.62	1.70	1.64	1.47	1.40	
26	0.0		1.83	1.56	0.74	0.66	1.53	1.49	1.82	1.55	
27	0.0		1.73	1.59	0.53	0.47	0.50	0.45	0.74	0.66	
28	0.0		1.83	1.53	1.66	1.61	1.21	1.20	0.82	0.70	
29	0.0		1.69	1.60	1.81	1.53	1.63	1.57	0.96	0.88	
30	0.0		1.57	1.54	1.34	1.27	1.62	1.58	1.06	0.99	
31											
AVERAGE	0.4	#DIV/0!	Average	1.54	1.46	1.28	1.21	1.48	1.39	1.29	1.21
TOTAL	11.7	0.0	Total Minimum	0.95		0.53		0.50		0.47	
			Free Minimum		0.88		0.47		0.45		0.41

Total # Chlorine Samples		30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L		0	0	0	0	0	0	0	1
Number of Free Residuals	120	Minimum Monthly Free Residual	0.41						
Number of Total Residuals	120	Minimum Monthly Total Residual	0.47						
Total # Less than 0.2 mg/L	0	Disinfectant Chloramines? (Y/N)	N						
Total # Less than 0.5 mg/L		Number of days of operation?	30						

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 04/2013

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum
1	24.0	6	0.06	0.06	0.06	0.06	0.08	0.06	0.084
2	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.062
3	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.060
4	23.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.060
5	22.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051
6	19.0	5	0.05	0.06	0.05	0.05	0.05	0.07	0.067
7	24.0	6	0.06	0.05	0.05	0.05	0.05	0.05	0.055
8	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.057
9	24.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.060
10	22.0	6	0.05	0.05	0.07	0.06	0.05	0.05	0.070
11	23.0	6	0.05	0.06	0.06	0.05	0.06	0.06	0.060
12	23.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.062
13	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.058
14	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.058
15	22.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053
16	22.0	6	0.05	0.07	0.05	0.05	0.05	0.05	0.070
17	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050
18	22.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060
19	24.0	6	0.06	0.06	0.06	0.06	0.05	0.06	0.060
20	21.0	6	0.06	0.05	0.05	0.05	0.05	0.06	0.057
21	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.058
22	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.058
23	23.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.055
24	23.0	6	0.05	0.05	0.05	0.05	0.06	0.06	0.058
25	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060
26	22.0	6	0.06	0.06	0.06	0.06	0.06	0.05	0.060
27	24.0	6	0.05	0.06	0.06	0.05	0.05	0.05	0.055
28	22.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.059
29	23.0	6	0.06	0.06	0.06	0.07	0.06	0.07	0.073
30	23.0	6	0.07	0.07	0.07	0.07	0.09	0.07	0.090
31	0.0	0							0.000
<b>Total</b>	<b>691.0</b>	<b>179</b>						<b>180</b>	<b>0.090</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding → 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding → 1 NTU 0 5 NTU 0

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Carl T. Alley Signature of Principal Executive Officer or Authorized Agent 05-07-2013 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID KY0800273

MONITORING PERIOD (MMYYYY) 04/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>56,784,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,892,800</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>2,012,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N) _____	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>691.0</u>		Number of days of plant operation <u>30</u>	
Were samples taken every 4 hours of plant operation? (Y/N) <input checked="" type="checkbox"/>		Were samples taken each day of operation? (Y/N) <input checked="" type="checkbox"/>	
Number of samples taken <u>180</u>		Number of lowest chlorine samples recorded <u>30</u>	
Highest single turbidity reading <u>0.09</u>		Lowest single chlorine reading <u>1.65</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>0</u>		Was residual restored within 4 hours of plant operation? (Y/N) <input type="checkbox"/>	
Number of samples exceeded 0.3 NTU <u>0</u>		Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU _____		Number of samples under 0.5 mg/L _____	
Number of samples exceeded 5 NTU _____			

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>30</u>		Number of days of plant operation <u>30</u>	
Were samples taken each day of operation? (Y/N) <input type="checkbox"/>		Were samples taken each day of operation? (Y/N) <input type="checkbox"/>	
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

05-07-2013  
Date





**KENTUCKY DIVISION OF WATER**  
**DRINKING WATER BRANCH**  
**MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS**

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 05/2013      Indicate one with "X"       SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: <u>A</u>	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>06-06-2013</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	<b>OPERATOR(S) RESPONSIBLE / IN-CHARGE</b>	<b>CLASS</b>	<b>CERTIFICATION NUMBER</b>	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Jerry L Belcher / Justin L Blackburn</u>	<u>1V-A / 111-A</u>	<u>21719 / 16310</u>	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

**TREATMENT PLANTS COMPLETE:**

1. DESIGN CAPACITY (gpm):	<u>1,667</u>
2. TYPE OF FILTRATION USED:	<u>Dual Media</u>
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	<u>2.66</u>
4. PERCENT BACKWASH WATER USED:	<u>0.8</u>
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	<u>#2 - 3/18/10 #3 - 9/2/09</u>
6. DATE SETTLING BASIN(S) LAST CLEANED:	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

06-06-2013  
DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 05/2013

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APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,982,000	24.0	237.4	14.4	4.2	0.3			325.4	19.7	183.2	11.1
2	1,866,000	23.0	227.5	14.6	4.0	0.3			337.3	21.7	183.2	11.8
3	1,977,000	24.0	237.4	14.4	4.2	0.3			343.5	20.8	183.2	11.1
4	1,919,000	24.0	237.4	14.8	4.2	0.3			336.8	21.0	183.2	11.4
5	1,970,000	24.0	237.4	14.4	4.2	0.3			341.3	20.8	183.2	11.2
6	1,903,000	24.0	237.4	15.0	4.2	0.3			341.3	21.5	183.2	11.5
7	1,864,000	23.0	227.5	14.6	4.0	0.3			314.8	20.2	175.5	11.3
8	1,880,000	22.0	217.6	13.9	3.9	0.2			300.3	19.2	152.6	9.7
9	1,965,000	24.0	237.4	14.5	4.2	0.3			368.4	22.5	183.2	11.2
10	1,908,000	23.0	227.5	14.3	4.0	0.3			350.5	22.0	175.5	11.0
11	1,979,000	24.0	237.4	14.4	4.2	0.3			348.8	21.1	183.2	11.1
12	1,703,000	21.0	207.7	14.6	3.7	0.3			315.5	22.2	160.2	11.3
13	1,980,000	24.0	237.4	14.4	4.2	0.3			360.5	21.8	183.2	11.1
14	1,894,000	23.0	227.5	14.4	4.0	0.3			357.2	22.6	175.5	11.1
15	1,949,000	24.0	237.4	14.6	4.2	0.3			380.9	23.4	183.2	11.3
16	1,893,000	24.0	237.4	15.0	4.2	0.3			370.2	23.4	183.2	11.6
17	1,967,000	24.0	237.4	14.5	4.2	0.3			371.2	22.6	183.2	11.2
18	1,917,000	24.0	237.4	14.8	4.2	0.3			369.3	23.1	179.3	11.2
19	1,951,000	24.0	237.4	14.6	4.2	0.3			383.0	23.5	194.5	12.0
20	1,895,000	24.0	237.4	15.0	4.2	0.3			381.8	24.2	190.8	12.1
21	1,915,000	23.0	227.5	14.2	4.0	0.3			379.6	23.8	186.2	11.7
22	1,865,000	22.0	217.6	14.0	3.9	0.2			380.2	24.4	183.0	11.8
23	1,966,000	24.0	237.4	14.5	4.2	0.3			365.5	23.5	188.0	11.5
24	1,908,000	23.0	227.5	14.3	4.0	0.3			355.5	22.3	175.6	11.0
25	1,954,000	24.0	237.4	14.6	4.2	0.3			389.5	23.9	183.2	11.2
26	1,893,000	24.0	237.4	15.0	4.2	0.3			386.0	24.4	183.2	11.6
27	1,929,000	24.0	237.4	14.8	4.2	0.3			389.5	24.2	183.2	11.4
28	1,885,000	24.0	237.4	15.1	4.2	0.3			393.4	25.0	186.7	11.9
29	1,944,000	24.0	237.4	14.6	4.2	0.3			393.4	24.3	186.5	11.5
30	1,929,000	24.0	237.4	14.8	4.2	0.3			417.6	26.0	191.3	11.9
31	1,958,000	24.0	237.4	14.6	4.2	0.3			417.6	25.6	194.6	11.9
TOTAL	59,506,000		7230.6		127.8		0.0		11285.8		5644.0	
AVERAGE	1,919,548		233.2	14.6	4.1	0.3	#DIV/0!	#DIV/0!	364.1	22.7	182.1	11.4
MAX	1,982,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 05/2013

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	7.47	7.43	7.36	43	40	83	81	0.70	0.59	1.90	1.80	6.31	0.24	0.05	
2	7.43	7.39	7.31	37	36	74	71	0.68	0.59	1.87	1.79	7.02	0.22	0.05	
3	7.35	7.35	7.22	39	37	76	74	0.70	0.61	1.84	1.76	6.47	0.19	0.04	
4	7.34	7.33	7.22	38	36	75	74	0.65	0.57	1.87	1.80	6.43	0.20	0.05	
5	7.41	7.27	7.17	39	38	77	75	0.75	0.67	2.01	1.94	6.37	0.20	0.06	
6	7.47	7.21	7.08	38	36	78	76	0.68	0.58	1.92	1.83	6.39	0.16	0.05	
7	7.31	7.27	7.19	39	36	81	80	0.70	0.61	1.95	1.86	8.31	0.18	0.05	
8	7.38	7.35	7.28	35	35	66	63	0.75	0.63	1.93	1.81	5.66	0.16	0.05	
9	7.40	7.38	7.29	37	35	68	65	0.78	0.64	1.95	1.85	5.53	0.19	0.06	
10	7.33	7.33	7.27	40	38	72	69	0.84	0.74	1.96	1.86	5.33	0.19	0.05	
11	7.32	7.32	7.23	41	40	71	70	0.80	0.72	1.93	1.85	5.31	0.21	0.50	
12	7.33	7.28	7.16	43	41	72	70	0.67	0.58	1.89	1.80	5.40	0.21	0.05	
13	7.31	7.18	7.06	47	45	75	74	0.67	0.59	1.92	1.83	5.44	0.20	0.05	
14	7.31	7.24	7.19	48	46	76	74	0.66	0.57	1.89	1.81	5.41	0.23	0.05	
15	7.23	7.31	7.23	42	45	76	79	0.74	0.65	1.96	1.86	5.26	0.20	0.05	
16	7.28	7.37	7.31	45	49	87	93	0.74	0.63	1.97	1.88	5.08	0.19	0.05	
17	7.29	7.27	7.18	46	45	88	86	0.73	0.62	1.87	1.78	5.05	0.21	0.05	
18	7.33	7.42	7.30	48	47	89	87	0.74	0.63	1.95	1.85	5.03	0.19	0.05	
19	7.35	7.23	7.11	49	46	91	88	0.64	0.54	1.89	1.78	5.06	0.20	0.06	
20	7.33	7.28	7.22	48	45	92	91	0.66	0.56	1.96	1.87	4.87	0.15	0.06	
21	7.31	7.36	7.34	49	48	94	93	0.50	0.50	1.90	1.81	4.91	0.19	0.05	
22	7.47	7.39	7.33	63	60	115	113	0.78	0.67	1.94	1.82	3.52	0.16	0.06	
23	7.39	7.44	7.37	67	64	111	110	0.83	0.70	2.04	1.92	3.06	0.15	0.05	
24	7.51	7.48	7.41	62	60	116	113	0.76	0.64	1.97	1.85	3.55	0.18	0.05	
25	7.51	7.45	7.34	64	61	118	115	0.81	0.69	1.99	1.88	3.27	0.14	0.05	
26	7.50	7.41	7.29	65	64	121	120	0.80	0.72	2.01	1.93	3.25	0.14	0.05	
27	7.48	7.35	7.24	67	66	123	122	0.78	0.68	1.98	1.89	3.27	0.17	0.05	
28	7.40	7.39	7.31	71	70	120	119	0.73	0.62	1.96	1.85	4.94	0.17	0.05	
29	7.43	7.45	7.38	65	62	113	111	0.74	0.61	1.94	1.82	5.23	0.19	0.05	
30	7.41	7.42	7.37	67	65	115	112	0.71	0.60	1.94	1.84	5.91	0.19	0.05	
31	7.25	7.33	7.22	71	68	114	110	0.70	0.59	1.86	1.76	6.49	0.20	0.06	
AVERAGE	7.4	7.3	7.3	50	49	91	90	0.73	0.62	1.93	1.84	5.26	0.19	0.07	

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 05/2013

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA

COPY PAGE AS NEEDED

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	6.31		0.25	0.28						0.06	0.05	0.06	0.06		0.06
2	7.02		0.25	0.27						0.07	0.06	0.07	0.05		0.07
3	6.47		0.20	0.24						0.06	0.06	0.07	0.05		0.07
4	6.43		0.21	0.24						0.05	0.05	0.07	0.06		0.09
5	6.37		0.22	0.23						0.05	0.05	0.07	0.05		0.08
6	6.39		0.18	0.23						0.05	0.05	0.07	0.05		0.08
7	8.31		0.21	0.21						0.06	0.05	0.09	0.05		0.09
8	5.66		0.19	0.19						0.04	0.05	0.06	0.05		0.07
9	5.53		0.21	0.22						0.04	0.05	0.06	0.05		0.07
10	5.33		0.22	0.24						0.07	0.05	0.06	0.05		0.08
11	5.31		0.21	0.25						0.06	0.05	0.08	0.05		0.08
12	5.40		0.23	0.26						0.06	0.04	0.26	0.12		0.16
13	5.44		0.21	0.23						0.06	0.05	0.07	0.06		0.07
14	5.41		0.36	0.23						0.05	0.05	0.07	0.05		0.07
15	5.26		0.18	0.30						0.05	0.05	0.08	0.05		0.06
16	5.08		0.21	0.23						0.06	0.05	0.11	0.06		0.06
17	5.05		0.21	0.31						0.06	0.05	0.08	0.05		0.07
18	5.03		0.22	0.24						0.07	0.06	0.14	0.05		0.07
19	5.06		0.18	0.23						0.06	0.05	0.12	0.06		0.08
20	4.87		0.19	0.19						0.06	0.05	0.11	0.06		0.08
21	4.91		0.20	0.26						0.06	0.05	0.07	0.07		0.07
22	3.52		0.21	0.20						0.05	0.05	0.06	0.05		0.06
23	3.06		0.16	0.21						0.06	0.05	0.07	0.05		0.06
24	3.55		0.19	0.23						0.05	0.05	0.08	0.06		0.07
25	3.27		0.14	0.21						0.06	0.05	0.07	0.05		0.06
26	3.25		0.16	0.21						0.07	0.05	0.06	0.05		0.06
27	3.27		0.18	0.24						0.06	0.05	0.08	0.04		0.06
28	4.94		0.19	0.20						0.06	0.05	0.08	0.05		0.07
29	5.23		0.21	0.21						0.06	0.05	0.07	0.06		0.07
30	5.91		0.19	0.21						0.07	0.06	0.08	0.06		0.07
31	6.49		0.20	0.31						0.07	0.06	0.09	0.06		0.07
AVERAGE	5.3	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.05	0.08	0.06	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 05/2013

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE		RAW	TAP	Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP					
1	0.13	0.92	0.11	0.03	0.05	0.01			1.90	0.0	12.5
2	0.12	0.92	0.12	0.03	0.04	0.01			1.80	0.0	13.2
3	0.13	0.94	0.13	0.03	0.04	0.01			1.70	0.0	13.1
4	0.12	0.93	0.12	0.03	0.04	0.01			1.80	0.0	12.9
5	0.11	0.93	0.09	0.03	0.04	0.01			1.90	0.0	13.3
6	0.13	0.90	0.09	0.03	0.04	0.01			1.85	0.4	13.2
7	0.15	0.91	0.12	0.03	0.05	0.01			1.95	0.1	13.3
8	0.12	0.91	0.11	0.03	0.04	0.01			1.65	0.1	13.7
9	0.11	0.92	0.12	0.03	0.04	0.01			1.95	0.0	13.9
10	0.13	0.95	0.11	0.03	0.06	0.01			1.80	0.0	14.4
11	0.12	0.94	0.10	0.03	0.06	0.01			1.90	0.4	14.6
12	0.11	0.89	0.12	0.03	0.06	0.01			1.85	0.1	14.5
13	0.13	0.92	0.13	0.03	0.07	0.01			1.90	0.0	14.5
14	0.15	0.93	0.15	0.03	0.07	0.01			1.85	0.0	15.0
15	0.09	0.82	0.08	0.03	0.06	0.01			1.90	0.0	14.8
16	0.04	0.96	0.10	0.03	0.06	0.01			1.90	0.0	15.4
17	0.04	0.92	0.12	0.03	0.06	0.01			1.80	0.2	15.5
18	0.06	0.96	0.13	0.03	0.05	0.01			1.85	0.0	15.7
19	0.05	0.90	0.09	0.03	0.06	0.01			1.80	0.0	15.9
20	0.07	0.89	0.08	0.03	0.06	0.01			1.85	0.0	16.1
21	0.08	0.89	0.08	0.03	0.05	0.01			1.85	0.0	16.9
22	0.19	1.00	0.07	0.03	0.06	0.01			1.85	0.1	16.7
23	0.18	1.00	0.06	0.03	0.06	0.01			1.95	0.5	16.8
24	0.15	0.98	0.07	0.03	0.06	0.01			1.85	0.3	16.9
25	0.14	0.99	0.08	0.03	0.07	0.01			1.90	0.0	17.0
26	0.15	0.96	0.09	0.03	0.06	0.01			1.85	0.0	17.1
27	0.14	0.92	0.12	0.03	0.07	0.01			1.80	0.0	16.8
28	0.24	1.10	0.10	0.03	0.07	0.01			1.80	0.0	17.8
29	0.15	0.97	0.10	0.03	0.07	0.01			1.90	0.0	17.9
30	0.16	0.99	0.11	0.03	0.07	0.01			1.90	0.0	18.3
31	0.15	1.00	0.14	0.03	0.08	0.01			1.80	0.0	18.6
AVERAGE	0.12	0.94	0.10	0.03	0.06	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	15.4

	1.65	
Number of readings	31	2.18
For Free Chlorine, # less than 0.2 mg/L	0	
For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 05/2013

PAGE 6 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No: 7	
		AREA (square feet)	FILT RUN HRS								
1	0										
2	25,000	13,000	81.80	12,000	81.80						
3	0										
4	36,000					18,000	93.30	18,000	93.40		
5	0										
6	0										
7	30,000	15,000	106.30	15,000	106.30						
8	32,000					19,000	78.30	13,000	78.30		
9	0										
10	23,000	12,000	73.00	11,000	73.00						
11	0										
12	30,000					15,000	95.40	15,000	95.40		
13	0										
14	28,000	14,000	100.50	14,000	100.50						
15	0										
16	34,000					17,000	94.20	17,000	94.20		
17	0										
18	30,000	15,000	94.40	15,000	94.40						
19	0										
20	38,000					19,000	106.90	19,000	106.90		
21	0										
22	27,000	13,000	94.70	14,000	94.70						
23	0										
24	34,000					17,000	93.40	17,000	93.40		
25	0										
26	32,000	16,000	94.50	16,000	94.50						
27	0										
28	30,000					15,000	95.30	15,000	95.30		
29	0										
30	29,000	15,000	95.10	14,000	95.10						
31	0										
TOTAL	458,000	113,000	740.30	111,000	740.30	120,000	656.80	114,000	656.90	0	0.00
AVERAGE	14,774	14,125	92.538	13,875	92.538	17,143	93.829	16,286	93.843	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 05/2013

PAGE 7 OF 11

DAY	CHEMICALS ADDED		DISTRIBUTION SYSTEM OPERATION								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TEST RESULTS								
			TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
T	F	T	F	T	F	T	F				
1	0.0		0.90	0.82	0.71	0.63	0.88	0.82	1.56	1.51	
2	0.0		1.46	1.38	1.30	1.26	1.54	1.50	1.40	1.38	
3	0.0		1.62	1.53	0.98	0.91	1.40	1.35	1.07	0.95	
4	0.0		1.35	1.25	0.28	0.22	1.60	1.48	1.56	1.47	
5	0.0		1.66	1.60	1.38	1.30	1.74	1.68	1.72	1.64	
6	0.0		1.20	1.08	1.33	1.25	1.30	1.17	1.71	1.60	
7	0.0		1.44	1.36	1.29	1.22	1.51	1.46	1.59	1.52	
8	0.0		1.09	1.02	1.24	1.17	1.57	1.47	1.62	1.50	
9	0.0		1.64	1.50	1.45	1.33	1.70	1.63	1.02	0.95	
10	0.0		1.37	1.26	1.46	1.41	1.75	1.70	1.67	1.64	
11	0.0		1.67	1.58	1.40	1.34	0.60	0.53	1.12	1.05	
12	0.0		1.80	1.54	1.71	1.68	0.33	0.30	0.32	0.27	
13	0.0		1.60	1.57	0.97	0.87	1.59	1.48	0.95	0.87	
14	0.0		1.44	1.36	1.17	1.04	1.37	1.33	1.09	1.05	
15	0.0		1.17	1.06	1.30	1.20	1.68	1.64	1.64	1.55	
16	0.0		1.63	1.51	0.61	0.57	1.64	1.56	1.57	1.41	
17	0.0		0.69	0.57	1.27	1.16	1.46	1.34	0.82	0.72	
18	0.0		1.53	1.45	1.30	1.19	1.51	1.42	1.35	1.26	
19	0.0		1.60	1.49	1.53	1.46	1.59	1.49	1.37	1.26	
20	0.0		1.70	1.56	1.15	1.11	1.70	1.57	1.17	1.07	
21	0.0		1.49	1.41	1.65	1.50	1.49	1.38	1.51	1.36	
22	0.0		0.79	0.67	1.54	1.45	1.58	1.44	1.48	1.36	
23	0.0		1.45	1.33	1.27	1.17	1.61	1.56	1.64	1.55	
24	0.0		0.84	0.77	1.49	1.38	1.27	1.18	1.59	1.44	
25	0.0		1.38	1.27	1.58	1.50	0.62	0.55	1.20	1.10	
26	0.0		1.42	1.37	1.70	1.62	0.50	0.42	0.37	0.35	
27	0.0		0.47	0.37	1.15	1.07	1.30	1.21	1.42	1.34	
28	0.0		1.65	1.58	1.29	1.21	1.56	1.48	0.57	0.47	
29	0.0		1.40	1.31	1.08	1.02	1.34	1.29	1.02	0.94	
30	0.0		1.49	1.32	1.02	0.90	1.37	1.30	1.60	1.50	
31	0.0		0.72	0.51	1.03	0.98	1.46	1.37	0.73	0.65	
AVERAGE	0.0	#DIV/0!	Average	1.34	1.24	1.25	1.17	1.37	1.29	1.27	1.18
TOTAL	0.0	0.0	Total Minimum	0.47		0.28		0.33		0.32	
			Free Minimum		0.37		0.22		0.30		0.27

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	1	0	1	0	1	0	1	0	2

Number of Free Residuals	124	Minimum Monthly Free Residual	0.22
Number of Total Residuals	124	Minimum Monthly Total Residual	0.28
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 05/2013

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
2	23.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070	
3	24.0	6	0.07	0.06	0.06	0.06	0.06	0.07	0.069	
4	24.0	6	0.07	0.06	0.07	0.07	0.08	0.09	0.087	
5	24.0	6	0.07	0.07	0.07	0.07	0.08	0.07	0.077	
6	24.0	6	0.07	0.08	0.07	0.07	0.07	0.07	0.077	
7	23.0	6	0.08	0.07	0.09	0.07	0.09	0.06	0.090	
8	22.0	6	0.06	0.07	0.07	0.06	0.06	0.07	0.070	
9	24.0	6	0.06	0.06	0.07	0.05	0.06	0.06	0.070	
10	23.0	6	0.06	0.06	0.06	0.08	0.08	0.07	0.078	
11	24.0	6	0.07	0.07	0.07	0.08	0.08	0.07	0.079	
12	21.0	6	0.07	0.16	0.08	0.07	0.07	0.07	0.159	
13	24.0	6	0.07	0.06	0.06	0.06	0.07	0.06	0.066	
14	23.0	6	0.06	0.06	0.06	0.07	0.06	0.06	0.067	
15	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.061	
16	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061	
17	24.0	6	0.07	0.06	0.06	0.06	0.06	0.07	0.065	
18	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.074	
19	24.0	6	0.08	0.08	0.07	0.07	0.08	0.08	0.076	
20	24.0	6	0.08	0.07	0.07	0.08	0.08	0.07	0.079	
21	23.0	6	0.06	0.06	0.05	0.06	0.06	0.07	0.068	
22	22.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
23	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
24	23.0	6	0.06	0.07	0.06	0.06	0.07	0.07	0.070	
25	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.063	
26	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.063	
27	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061	
28	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070	
29	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.070	
30	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070	
31	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
<b>Total</b>	<b>731.0</b>	<b>186</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>186</b>	<b>0.159</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N)  Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 1 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

06-06-2013  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID KY0800273

MONITORING PERIOD (MMYYYY) 05/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>59,506,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,919,548</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,982,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>	ANALYTE CODE <u>0999</u>		
Number of hours of plant operation <u>731.0</u>	Number of days of plant operation <u>31</u>		
Were samples taken every 4 hours of plant operation? (Y/N) <input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N) <input checked="" type="checkbox"/> Y		
Number of samples taken <u>186</u>	Number of lowest chlorine samples recorded <u>31</u>		
Highest single turbidity reading <u>0.16</u>	Lowest single chlorine reading <u>1.65</u>		
For all filtration except slow sand filtration:	If less than required:		
Number of samples exceeded 0.1 NTU <u>1</u>	Was residual restored within 4 hours of plant operation? (Y/N) <input type="checkbox"/>		
Number of samples exceeded 0.3 NTU <u>0</u>	Free Chlorine (for all disinfectants except chloramine):		
Number of samples exceeded 1 NTU <u>0</u>	Number of samples under 0.2 mg/L <u>0</u>		
When filtration is slow sand filtration:	Total Chlorine (when disinfectant is Chloramine):		
Number of samples exceeded 1 NTU _____	Number of samples under 0.5 mg/L _____		
Number of samples exceeded 5 NTU _____			

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	ANALYTE CODE <u>1009</u>		
Number of days of plant operation <u>31</u>	Number of days of plant operation <u>31</u>		
Were samples taken each day of operation? (Y/N) <input type="checkbox"/>	Were samples taken each day of operation? (Y/N) <input type="checkbox"/>		
Number of samples taken <u>0</u>	Number of samples taken <u>0</u>		
Highest single chlorine dioxide reading <u>0.00</u>	Highest single chlorite reading <u>0.00</u>		
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>	Number of chlorite samples exceeded 1 mg/L <u>0</u>		

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

06-06-2013  
Date



**RECEIVED**  
 JUL 10 2013  
 BY: \_\_\_\_\_

**KENTUCKY DIVISION OF WATER**  
**DRINKING WATER BRANCH**  
**MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS**

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 06/2013      Indicate one with "X"  SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY  
 DEP Form 4012--Revised 07/2006

PWS ID:	<u>KY0800273</u>	PLANT ID:	<u>A</u>	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS:	<u>3</u>	DIST. CLASS:	<u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>07-08-2013</u>		
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>		
	<u>Tug Fork</u>				
	<b>OPERATOR(S) RESPONSIBLE / IN-CHARGE</b>	<b>CLASS</b>	<b>CERTIFICATION NUMBER</b>		
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>		
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>		
WTP SHIFT 3:	<u>Jerry L Belcher / Justin L Blackburn</u>	<u>1V-A / 111-A</u>	<u>21719 / 16310</u>		
DISTRIBUTION:	_____				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

**TREATMENT PLANTS COMPLETE:**

1. DESIGN CAPACITY (gpm):	<u>1,667</u>
2. TYPE OF FILTRATION USED:	<u>Dual Media</u>
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	<u>2.66</u>
4. PERCENT BACKWASH WATER USED:	<u>0.7</u>
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	<u>#2 - 3/18/10 #3 - 9/2/09</u>
6. DATE SETTLING BASIN(S) LAST CLEANED:	_____

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

07-08-2013  
 DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 06/2013

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,920,000	24.0	237.4	14.8	4.2	0.3			410.6	25.6	184.6	12.2
2	1,961,000	24.0	237.4	14.5	4.2	0.3			407.4	24.9	200.0	12.2
3	1,948,000	24.0	237.4	14.6	4.2	0.3			412.5	25.4	196.1	12.1
4	1,846,000	22.0	217.6	14.1	3.9	0.3			412.0	26.8	186.6	12.1
5	1,967,000	24.0	237.4	14.5	4.2	0.3			453.0	27.6	199.0	12.1
6	1,918,000	23.0	227.5	14.2	4.0	0.3			408.5	25.5	198.4	12.4
7	1,957,000	24.0	237.4	14.5	4.2	0.3			430.9	26.4	208.1	12.8
8	1,890,000	23.0	227.5	14.4	4.0	0.3			436.8	27.7	169.7	10.8
9	1,960,000	24.0	237.4	14.5	4.2	0.3			457.2	28.0	183.0	10.0
10	1,897,000	23.0	227.5	14.4	4.0	0.3			428.3	27.1	151.4	9.6
11	1,925,000	24.0	241.4	15.0	4.2	0.3			462.0	28.8	179.1	11.2
12	1,910,000	23.0	231.3	14.5	4.0	0.3			436.8	27.4	172.0	10.8
13	1,959,000	24.0	241.4	14.8	4.2	0.3			419.5	25.7	169.2	10.4
14	1,884,000	23.0	250.2	15.9	4.0	0.3			441.0	28.1	178.4	11.4
15	1,951,000	24.0	265.1	16.3	4.2	0.3			492.1	30.2	183.2	11.3
16	1,898,000	24.0	265.1	16.7	4.2	0.3			510.0	32.2	183.2	11.6
17	1,944,000	24.0	265.1	16.4	4.2	0.3			505.5	31.2	183.2	11.3
18	1,882,000	23.0	250.2	15.9	4.0	0.3			453.5	28.9	183.6	11.7
19	1,957,000	24.0	265.1	16.2	4.2	0.3			494.1	30.3	206.3	12.6
20	1,932,000	23.0	250.2	15.5	4.0	0.2			497.0	30.8	178.0	11.0
21	1,948,000	24.0	265.1	16.3	4.2	0.3			529.2	32.6	183.2	11.3
22	1,912,000	23.0	250.2	15.7	4.0	0.3			500.3	31.4	171.4	10.7
23	1,944,000	24.0	265.1	16.4	4.2	0.3			510.8	31.5	171.8	10.6
24	1,846,000	23.0	227.5	14.8	4.0	0.3			497.3	32.3	162.2	10.5
25	1,951,000	24.0	237.4	14.6	4.2	0.3			517.7	31.8	179.1	11.0
26	1,837,000	24.0	237.4	15.5	4.2	0.3			502.1	32.8	174.5	11.4
27	1,860,000	23.0	227.5	14.7	4.0	0.3			456.6	29.4	172.0	11.1
28	1,895,000	23.0	227.5	14.4	4.0	0.3			510.5	32.3	179.3	11.3
29	1,875,000	24.0	237.4	15.2	4.2	0.3			532.4	34.0	169.2	10.8
30	1,875,000	24.0	237.4	15.2	4.2	0.3			521.1	33.3	169.2	10.8
31												
TOTAL	57,449,000		7262.1		123.5		0.0		14046.6		5414.9	
AVERAGE	1,914,967		242.1	15.2	4.1	0.3	#DIV/0!	#DIV/0!	468.2	29.3	180.5	11.3
MAX	1,967,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 06/2013

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	7.24	7.30	7.17	72	70	115	113	0.70	0.59	1.95	1.85	6.48	0.18	0.06	
2	7.25	7.25	7.14	73	72	116	115	0.68	0.56	1.95	1.85	6.44	0.17	0.05	
3	7.29	7.33	7.25	74	72	119	116	0.73	0.62	1.92	1.81	6.57	0.18	0.05	
4	7.36	7.40	7.35	76	74	121	120	0.72	0.61	1.94	1.83	7.13	0.17	0.05	
5	7.45	7.44	7.39	63	60	105	103	0.86	0.72	2.07	1.91	6.18	0.23	0.05	
6	7.44	7.46	7.40	65	63	107	106	0.79	0.62	2.06	1.89	5.95	0.20	0.05	
7	7.41	7.44	7.39	70	67	114	112	0.82	0.68	2.12	1.97	5.63	0.20	0.04	
8	7.43	7.36	7.28	74	71	115	114	0.87	0.71	2.11	1.96	5.93	0.21	0.05	
9	7.20	7.30	7.20	79	76	125	121	0.91	0.76	2.08	1.94	6.18	0.14	0.05	
10	7.36	7.36	7.27	86	84	135	129	0.87	0.73	1.99	1.86	6.72	0.13	0.05	
11	7.29	7.42	7.30	84	81	138	135	0.84	0.68	2.12	1.96	9.13	0.16	0.05	
12	7.32	7.42	7.30	91	88	145	141	0.86	0.69	2.14	1.95	21.80	0.17	0.05	
13	7.35	7.44	7.33	97	94	148	146	0.84	0.68	2.07	1.90	22.30	0.18	0.05	
14	7.34	7.37	7.31	102	100	149	148	0.69	0.59	1.98	1.88	24.20	0.17	0.05	
15	7.40	7.40	7.32	108	98	154	146	0.70	0.58	1.97	1.88	18.40	0.17	0.05	
16	7.38	7.38	7.31	104	96	154	152	0.80	0.68	2.08	1.98	13.90	0.27	0.06	
17	7.35	7.38	7.30	98	93	150	145	0.88	0.76	2.04	1.91	10.90	0.12	0.05	
18	7.32	7.44	7.33	99	93	151	145	0.84	0.72	2.04	1.93	10.00	0.13	0.05	
19	7.38	7.43	7.33	98	92	155	148	0.80	0.67	2.07	1.94	9.02	0.13	0.04	
20	7.39	7.48	7.37	106	100	156	151	0.86	0.72	2.10	1.98	13.90	0.14	0.05	
21	7.43	7.49	7.36	114	100	153	148	0.93	0.82	2.12	1.99	15.50	0.14	0.05	
22	7.45	7.47	7.36	115	106	155	152	0.91	0.78	2.09	1.96	13.80	0.13	0.05	
23	7.43	7.48	7.37	115	109	155	151	0.84	0.72	2.02	1.91	11.40	0.13	0.05	
24	7.42	7.47	7.35	104	98	148	145	0.94	0.81	2.09	1.97	9.85	0.15	0.05	
25	7.40	7.48	7.35	94	91	145	140	0.82	0.69	2.02	1.90	8.47	0.14	0.05	
26	7.40	7.48	7.34	98	93	135	130	0.83	0.70	2.02	1.91	7.12	0.13	0.05	
27	7.36	7.47	7.35	98	94	145	141	0.76	0.62	2.02	1.87	6.27	0.15	0.05	
28	7.36	7.43	7.32	92	89	157	151	0.75	0.62	2.00	1.87	5.94	0.12	0.05	
29	7.39	7.46	7.33	109	101	155	150	0.81	0.69	1.99	1.86	5.73	0.13	0.06	
30	7.43	7.46	7.36	99	94	150	147	0.87	0.76	2.05	1.96	5.86	0.13	0.05	
31															
AVERAGE	7.4	7.4	7.3	92	87	139	135	0.82	0.69	2.04	1.91	10.22	0.16	0.05	

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 06/2013

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	6.48		0.19	0.21						0.06	0.05	0.11	0.08		0.07
2	6.44		0.18	0.19						0.06	0.05	0.11	0.07		0.07
3	6.57		0.24	0.18						0.06	0.05	0.07	0.06		0.07
4	7.13		0.19	0.18						0.08	0.06	0.07	0.06		0.11
5	6.18		0.20	0.25						0.06	0.05	0.08	0.06		0.07
6	5.95		0.20	0.29						0.06	0.05	0.09	0.08		0.07
7	5.63		0.28	0.23						0.06	0.05	0.06	0.06		0.06
8	5.93		0.52	0.28						0.07	0.06	0.06	0.06		0.07
9	6.18		0.16	0.19						0.06	0.06	0.06	0.06		0.06
10	6.72		0.18	0.17						0.06	0.05	0.08	0.08		0.07
11	9.13		0.19	0.26						0.06	0.06	0.07	0.06		0.06
12	21.80		0.22	0.27						0.08	0.07	0.08	0.07		0.07
13	22.30		0.22	0.23						0.07	0.07	0.06	0.07		0.06
14	24.20		0.16	0.25						0.06	0.05	0.09	0.09		0.07
15	18.40		0.21	0.34						0.06	0.05	0.07	0.07		0.06
16	13.90		0.34	0.19						0.07	0.06	0.08	0.06		0.07
17	10.90		0.12	0.15						0.06	0.06	0.07	0.06		0.06
18	10.00		0.18	0.21						0.06	0.05	0.08	0.09		0.07
19	9.02		0.14	0.17						0.06	0.05	0.06	0.06		0.06
20	13.90		0.16	0.20						0.07	0.06	0.06	0.06		0.07
21	15.50		0.18	0.18						0.07	0.06	0.07	0.07		0.06
22	13.80		0.16	0.18						0.06	0.06	0.08	0.08		0.07
23	11.40		0.15	0.16						0.06	0.06	0.07	0.07		0.06
24	9.85		0.28	0.21						0.08	0.07	0.06	0.07		0.07
25	8.47		0.14	0.19						0.07	0.06	0.07	0.07		0.07
26	7.12		0.16	0.16						0.07	0.06	0.08	0.08		0.07
27	6.27		0.19	0.21						0.07	0.07	0.07	0.08		0.07
28	5.94		0.14	0.16						0.07	0.06	0.08	0.07		0.07
29	5.73		0.17	0.19						0.07	0.06	0.10	0.07		0.07
30	5.86		0.20	0.17						0.07	0.06	0.09	0.09		0.07
31															
AVERAGE	10.2	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.06	0.08	0.07	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 06/2013

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (MILLI OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F <sup>0</sup> /C <sup>0</sup>
1	0.17	0.97	0.15	0.03	0.09	0.01			1.80	0.0	18.7
2	0.15	1.00	0.16	0.03	0.08	0.01			1.85	0.1	18.8
3	0.17	0.98	0.17	0.03	0.09	0.01			1.75	0.2	18.7
4	0.16	0.98	0.15	0.03	0.08	0.01			1.65	0.0	18.9
5	0.12	0.94	0.14	0.03	0.11	0.01			1.85	0.0	19.9
6	0.15	0.99	0.13	0.03	0.11	0.01			1.75	0.1	20.2
7	0.17	0.99	0.13	0.03	0.15	0.01			1.80	0.3	20.5
8	0.12	0.99	0.14	0.03	0.12	0.01			1.80	0.0	20.8
9	0.14	0.93	0.15	0.03	0.12	0.01			1.82	0.0	21.2
10	0.18	1.04	0.11	0.03	0.13	0.01			1.75	1.2	21.8
11	0.15	0.97	0.17	0.03	0.16	0.01			1.85	0.4	21.9
12	0.00	1.01	0.30	0.03	0.38	0.01			1.85	0.0	22.5
13	0.00	0.93	0.30	0.03	0.19	0.01			1.80	0.0	22.3
14	0.00	1.02	0.36	0.03	0.18	0.01			1.71	0.3	22.9
15	0.03	1.08	0.28	0.03	0.22	0.01			1.76	0.0	23.1
16	0.14	1.03	0.23	0.03	0.17	0.01			1.80	0.0	23.2
17	0.09	0.94	0.20	0.03	0.15	0.01			1.75	0.7	23.2
18	0.10	0.96	0.21	0.03	0.15	0.01			1.80	0.2	23.1
19	0.13	1.01	0.19	0.03	0.04	0.01			1.85	0.4	23.1
20	0.06	1.02	0.24	0.03	0.16	0.01			1.85	0.0	23.4
21	0.08	1.00	0.24	0.03	0.16	0.01			1.85	0.0	23.0
22	0.10	0.99	0.25	0.03	0.16	0.01			1.80	0.0	23.1
23	0.08	0.96	0.20	0.03	0.12	0.01			1.67	0.0	23.2
24	0.15	1.09	0.19	0.03	0.12	0.01			1.75	0.0	23.9
25	0.14	1.02	0.17	0.03	0.11	0.01			1.75	0.0	23.3
26	0.18	0.95	0.14	0.03	0.10	0.01			1.75	0.0	23.9
27	0.17	0.99	0.12	0.03	0.08	0.01			1.80	1.0	23.7
28	0.18	1.06	0.13	0.03	0.09	0.01			1.62	0.1	24.0
29	0.22	1.05	0.12	0.03	0.11	0.01			1.77	0.0	24.2
30	0.26	1.05	0.12	0.03	0.13	0.01			1.80	0.0	24.3
31											
AVERAGE	0.13	1.00	0.19	0.03	0.14	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	22.2
									1.62		
									30	4.89	
									0		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 06/2013

PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	180	AREA (square feet)	160	AREA (square feet)	160	AREA (square feet)	180	AREA (square feet)	FILT RUN
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	0										
3	0										
4	32,000	16,000	105.90	16,000	105.90						
5	0										
6	26,000					13,000	101.50	13,000	101.50		
7	0										
8	26,000	14,000	91.10	12,000	91.10						
9	0										
10	38,000					20,000	94.40	18,000	94.40		
11	0										
12	27,000	15,000	95.30	12,000	95.30						
13	0										
14	29,000					15,000	94.10	14,000	94.10		
15	0										
16	29,000	15,000	94.30	14,000	94.40						
17	0										
18	30,000					16,000	95.50	14,000	95.50		
19	0										
20	26,000	14,000	93.90	12,000	93.90						
21	0										
22	33,000					17,000	94.00	16,000	94.00		
23	0										
24	31,000	16,000	95.50	15,000	95.50						
25	0										
26	32,000					16,000	98.00	16,000	98.00		
27	0										
28	26,000	14,000	91.90	12,000	91.90						
29	0										
30	31,000					16,000	92.70	15,000	92.70		
31	0										
TOTAL	416,000	104,000	667.90	93,000	668.00	113,000	670.20	106,000	670.20	0	0.00
AVERAGE	13,419	14,857	95.414	13,286	95.429	16,143	95.743	15,143	95.743	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 06/2013

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DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1	0.0		1.01	0.92	0.57	0.49	1.33	1.22	1.51	1.42	
2	0.0		1.16	1.07	1.52	1.42	1.27	1.18	1.20	1.14	
3	0.0		1.42	1.21	0.81	0.65	1.52	1.36	1.05	0.91	
4	0.0		1.27	1.15	1.18	1.09	1.15	1.06	1.44	1.30	
5	0.0		1.71	1.55	1.29	1.15	1.60	1.45	0.67	0.54	
6	0.0		1.36	1.25	1.09	0.91	1.60	1.43	1.44	1.24	
7	0.0		1.69	1.49	0.86	0.77	1.69	1.80	0.93	0.81	
8	0.0		1.82	1.55	1.83	1.54	0.90	0.79	0.96	0.87	
9	0.0		1.61	1.48	1.43	1.30	1.38	1.22	0.80	0.93	
10	0.0		1.44	1.33	1.09	0.99	1.69	1.58	1.04	0.91	
11	0.0		1.61	1.45	1.37	1.25	1.25	1.11	1.11	1.00	
12	0.0		0.60	0.48	0.98	0.87	1.39	1.29	1.49	1.35	
13	0.0		1.50	1.37	0.93	0.80	1.70	1.52	1.70	1.54	
14	0.0		1.43	1.31	0.97	0.83	1.45	1.37	0.92	0.86	
15	0.0		1.13	1.06	0.53	0.45	1.23	1.15	1.47	1.36	
16	0.0		1.33	1.26	0.27	0.25	1.39	1.23	1.43	1.39	
17	0.0		0.68	0.50	1.00	0.89	1.56	1.45	1.54	1.46	
18	0.0		1.39	1.31	0.91	0.83	1.41	1.32	0.95	0.87	
19	0.0		1.54	1.42	0.95	0.84	1.50	1.44	1.64	1.55	
20	0.0		1.50	1.35	1.50	1.39	1.72	1.59	0.99	0.90	
21	0.0		1.68	1.53	0.79	0.69	1.53	1.39	0.78	0.66	
22	0.0		1.51	1.40	1.23	1.15	0.42	0.37	0.76	0.64	
23	0.0		1.45	1.35	1.53	1.43	1.31	1.20	0.80	0.67	
24	0.0		1.48	1.37	0.95	0.83	1.52	1.46	0.79	0.70	
25	0.0		1.45	1.33	0.89	0.80	1.53	1.43	1.57	1.46	
26	0.0		1.49	1.37	0.89	0.75	1.12	1.00	0.90	0.78	
27	0.0		0.89	0.74	1.02	0.91	1.69	1.54	1.66	1.57	
28	0.0		1.36	1.27	1.14	1.08	1.59	1.47	0.84	0.75	
29	0.0		1.38	1.25	1.31	1.21	1.44	1.37	0.86	0.76	
30	0.0		1.35	1.24	0.87	0.81	1.45	1.34	0.82	0.74	
31											
AVERAGE	0.0	#DIV/0!	Average	1.37	1.25	1.04	0.94	1.41	1.30	1.14	1.04
TOTAL	0.0	0.0	Total Minimum	0.60		0.27		0.42		0.67	
			Free Minimum		0.48		0.25		0.37		0.54

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	0	0	1	0	1	0	0	0	0

Number of Free Residuals	120	Minimum Monthly Free Residual	0.25
Number of Total Residuals	120	Minimum Monthly Total Residual	0.27
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **30**

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**PWS ID :** KY0800273  
**PLANT ID:** A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

**Report Period (MM/YYYY):** 06/2013

**PAGE:**  
**8 OF 11**

**PWS Name:** Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.07	0.07	0.06	0.06	0.06	0.07	0.068	
2	24.0	6	0.06	0.07	0.06	0.06	0.06	0.07	0.066	
3	24.0	6	0.07	0.06	0.07	0.06	0.06	0.06	0.066	
4	22.0	6	0.07	0.11	0.07	0.07	0.06	0.07	0.110	
5	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
6	23.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.070	
7	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
8	23.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070	
9	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.060	
10	23.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070	
11	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
12	23.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.070	
13	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
14	23.0	6	0.06	0.07	0.05	0.05	0.05	0.06	0.070	
15	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061	
16	24.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070	
17	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
18	23.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070	
19	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
20	23.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070	
21	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
22	23.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070	
23	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
24	23.0	6	0.06	0.07	0.07	0.06	0.06	0.07	0.070	
25	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
26	24.0	6	0.07	0.07	0.07	0.07	0.06	0.07	0.070	
27	23.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.070	
28	23.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.069	
29	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.072	
30	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
31	0.0	0							0.000	
<b>Total</b>	<b>707.0</b>	<b>180</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>180</b>	<b>0.110</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding --> 0.1 NTU 1 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding --> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

07-08-2013  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

06/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>57,449,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,914,967</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,967,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>707.0</u>	Number of days of plant operation	<u>30</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>180</u>	Number of lowest chlorine samples recorded	<u>30</u>
Highest single turbidity reading	<u>0.11</u>	Lowest single chlorine reading	<u>1.62</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>1</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU	<u>0</u>	<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>    </u>	Number of samples under 0.5 mg/L	<u>    </u>
Number of samples exceeded 5 NTU	<u>    </u>		

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>30</u>	Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

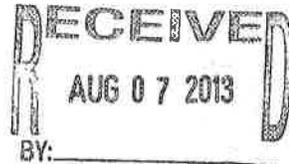
*Earl T. Alley*

Signature of Principal Executive Officer or Authorized Agent

07-08-2013

Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

07/2013

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	KY0800273	PLANT ID:	A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS:	3	DIST. CLASS:	2
AGENCY INTEREST (AI):	2987	DATE MAILED:	08-05-2013		
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin		
	Tug Fork				
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	Earl T Alley	1V-A	17562		
WTP SHIFT 2:	Michael Sartin	1V-A	21944		
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719		
DISTRIBUTION:					

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley

08-05-2013

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 07/2013  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,907,000	24.0	237.4	14.9	4.2	0.3			520.9	32.8	174.7	11.0
2	1,884,000	24.0	265.1	16.9	4.2	0.3			520.9	33.2	183.2	11.7
3	1,896,000	24.0	265.1	16.8	4.2	0.3			520.9	32.9	183.2	11.6
4	1,850,000	24.0	265.1	17.2	4.2	0.3			497.1	32.2	178.8	11.6
5	1,878,000	24.0	265.1	18.9	4.2	0.3			507.0	32.4	175.6	11.2
6	1,852,000	23.0	254.2	16.5	4.0	0.3			501.3	32.5	179.3	11.6
7	1,903,000	24.0	265.1	16.7	4.2	0.3			508.9	32.1	183.2	11.5
8	1,872,000	24.0	312.5	20.0	4.2	0.3			575.0	36.8	194.1	12.4
9	1,868,000	24.0	312.5	20.1	4.2	0.3			608.0	39.0	195.0	12.5
10	1,903,000	24.0	312.5	19.7	4.2	0.3			608.0	38.3	190.1	12.0
11	1,858,000	24.0	312.5	20.2	4.2	0.3			572.4	36.9	195.0	12.6
12	1,890,000	24.0	312.5	19.8	4.2	0.3			572.4	36.3	190.1	12.1
13	1,831,000	24.0	312.5	20.5	4.2	0.3			558.7	36.6	183.2	12.0
14	1,872,000	24.0	312.5	20.0	4.2	0.3			575.9	36.9	194.6	12.5
15	1,810,000	24.0	312.5	20.7	4.2	0.3			548.7	36.3	188.1	12.5
16	1,856,000	24.0	312.5	20.2	4.2	0.3			553.1	35.7	183.1	11.8
17	1,769,000	23.0	299.5	20.3	4.0	0.3			512.4	34.7	186.7	12.7
18	1,838,000	24.0	237.4	15.5	4.2	0.3			553.8	36.1	191.3	12.5
19	1,778,000	23.0	227.5	15.3	4.0	0.3			592.1	39.9	183.9	12.4
20	1,837,000	24.0	237.4	15.5	4.2	0.3			607.8	39.7	194.6	12.7
21	1,791,000	24.0	237.4	15.9	4.2	0.3			580.6	38.9	191.3	12.6
22	1,842,000	24.0	237.4	15.5	4.2	0.3			620.1	40.4	205.8	13.4
23	1,783,000	24.0	237.4	16.0	4.2	0.3			636.9	42.8	213.1	14.3
24	1,856,000	24.0	237.4	15.3	4.2	0.3			606.0	39.1	206.9	13.4
25	1,813,000	24.0	241.4	16.0	4.2	0.3			611.9	40.5	193.2	12.8
26	1,850,000	24.0	265.1	17.2	4.2	0.3			584.0	37.9	209.4	13.6
27	1,815,000	24.0	265.1	17.5	4.2	0.3			559.8	37.0	166.3	11.0
28	1,862,000	24.0	265.1	17.1	4.2	0.3			584.6	37.6	180.1	11.6
29	1,819,000	24.0	265.1	17.5	4.2	0.3			566.3	37.3	183.2	12.1
30	1,858,000	24.0	265.1	17.1	4.2	0.3			588.5	38.0	178.8	11.5
31	1,831,000	24.0	265.1	17.4	4.2	0.3			534.4	35.0	173.9	11.4
TOTAL	57,272,000		8413.0		129.6		0.0		17488.3		5829.8	
AVERAGE	1,847,484		271.4	17.6	4.2	0.3	#DIV/0!	#DIV/0!	564.1	36.6	188.1	12.2
MAX	1,907,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 07/2013

APPLICABLE TO ALL PLANTS

PAGE 2 OF 11

CHEMICALS ADDED														
DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
							Post							
	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	695.6	43.7	60.9	3.8										
2	704.1	44.8	60.9	3.9										
3	704.1	44.5	60.9	3.9										
4	675.9	43.8	60.9	3.9										
5	682.6	43.6	60.9	3.9										
6	680.8	44.1	58.4	3.8										
7	692.1	43.6	60.9	3.8										
8	769.1	49.3	60.9	3.9										
9	803.0	51.5	60.9	3.9										
10	798.1	50.3	60.9	3.8										
11	787.4	49.5	60.9	3.9										
12	762.5	48.4	60.9	3.9										
13	741.9	48.8	60.9	4.0										
14	770.5	49.4	60.9	3.9										
15	736.8	48.8	60.9	4.0										
16	736.2	47.6	60.9	3.9										
17	699.1	47.4	58.4	4.0									1.2	0.1
18	745.1	48.6	60.9	4.0									2.4	0.2
19	776.0	52.3	58.4	3.9									2.3	0.2
20	802.4	52.4	60.9	4.0									2.4	0.2
21	771.9	51.7	60.9	4.1									2.4	0.2
22	825.9	53.8	60.9	4.0									2.4	0.2
23	850.0	57.2	60.9	4.1									2.4	0.2
24	812.9	52.5	60.9	3.9									2.4	0.2
25	805.1	53.2	60.9	4.0									2.4	0.2
26	793.4	51.4	60.9	3.9									2.4	0.2
27	726.1	48.0	60.9	4.0									2.4	0.2
28	764.6	49.2	60.9	3.9									2.4	0.2
29	749.5	49.4	60.9	4.0									10.4	0.7
30	787.3	49.5	60.9	3.9									10.4	0.7
31	708.3	48.4	60.9	4.0									10.4	0.7
TOTAL	23,318.1		1,880.4		0.0		0.0		0.0		0.0		58.8	
AVERAGE	752.2	48.9	60.7	3.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	3.9	0.3

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 07/2013

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DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)													
	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.37	7.43	7.34	99	95	153	150	0.84	0.71	2.06	1.94	7.58	0.14	0.06
2	7.36	7.45	7.34	102	96	155	150	0.89	0.76	2.08	1.96	9.24	0.17	0.06
3	7.39	7.46	7.34	102	97	157	153	0.84	0.70	2.11	1.99	8.27	0.14	0.05
4	7.38	7.48	7.35	100	94	151	146	0.92	0.79	2.13	2.00	12.90	0.15	0.05
5	7.36	7.47	7.36	102	96	151	146	0.86	0.74	2.10	1.98	20.50	0.16	0.05
6	7.43	7.47	7.35	114	109	154	149	0.88	0.74	2.13	1.99	18.20	0.18	0.05
7	7.42	7.46	7.43	116	109	149	146	0.78	0.66	2.10	1.99	17.40	0.18	0.06
8	7.34	7.40	7.31	86	84	136	132	0.70	0.58	2.11	2.02	33.90	0.17	0.06
9	7.36	7.38	7.27	82	78	125	119	0.76	0.64	2.11	2.01	29.40	0.16	0.05
10	7.37	7.41	7.29	75	72	107	102	0.80	0.70	2.16	2.05	22.40	0.12	0.05
11	7.35	7.41	7.28	87	85	123	117	0.73	0.64	2.03	1.94	16.50	0.13	0.05
12	7.34	7.42	7.30	87	82	135	132	0.77	0.64	2.10	1.98	12.60	0.17	0.05
13	7.37	7.41	7.32	89	84	132	128	0.83	0.70	2.05	1.95	10.80	0.15	0.06
14	7.34	7.42	7.33	88	83	143	136	0.95	0.83	2.18	2.06	10.10	0.17	0.05
15	7.34	7.41	7.30	91	88	138	135	0.85	0.75	2.13	2.01	9.21	0.15	0.05
16	7.33	7.42	7.30	103	98	148	144	0.85	0.72	2.11	2.00	7.83	0.16	0.05
17	7.34	7.43	7.30	95	83	136	134	0.86	0.75	2.08	1.98	7.10	0.17	0.05
18	7.34	7.46	7.32	94	87	135	134	0.75	0.65	2.00	1.90	6.17	0.15	0.05
19	7.38	7.48	7.37	120	116	150	146	0.82	0.71	2.12	1.99	5.08	0.16	0.05
20	7.37	7.46	7.37	106	100	155	149	0.83	0.71	2.08	1.96	4.99	0.13	0.06
21	7.41	7.45	7.37	105	100	156	149	1.04	0.90	2.19	2.09	4.14	0.13	0.06
22	7.37	7.44	7.36	102	96	156	151	0.85	0.69	2.13	2.01	5.15	0.13	0.05
23	7.40	7.46	7.38	105	100	157	151	0.83	0.69	2.11	1.98	4.27	0.14	0.05
24	7.42	7.47	7.40	104	99	162	157	0.98	0.84	2.23	2.12	3.95	0.12	0.05
25	7.44	7.50	7.41	107	103	163	157	0.94	0.81	2.15	2.03	6.75	0.18	0.05
26	7.50	7.53	7.44	105	101	164	159	0.98	0.85	2.18	2.04	8.45	0.18	0.05
27	7.62	7.60	7.48	113	108	170	164	0.98	0.85	2.19	2.07	9.82	0.15	0.05
28	7.67	7.66	7.52	116	114	167	168	0.94	0.81	2.16	2.01	8.46	0.17	0.05
29	7.74	7.71	7.56	116	112	182	177	0.88	0.75	2.16	2.02	7.82	0.16	0.05
30	7.82	7.73	7.61	127	122	184	181	0.85	0.72	2.16	2.03	5.90	0.19	0.05
31	7.84	7.80	7.66	121	114	188	180	0.97	0.83	2.13	2.01	5.24	0.14	0.05
AVERAGE	7.4	7.5	7.4	102	97	151	147	0.86	0.74	2.12	2.00	10.97	0.15	0.05

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 07/2013

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	7.58		0.18	0.24						0.07	0.06	0.07	0.07		0.07
2	9.24		0.22	0.19						0.08	0.07	0.06	0.07		0.07
3	8.27		0.21	0.14						0.07	0.06	0.07	0.07		0.06
4	12.90		0.24	0.22						0.07	0.06	0.08	0.08		0.07
5	20.50		0.19	0.19						0.07	0.06	0.07	0.07		0.06
6	18.20		0.19	0.37						0.08	0.06	0.08	0.07		0.07
7	17.40		0.20	0.26						0.08	0.07	0.09	0.08		0.07
8	33.90		0.22	0.25						0.08	0.07	0.11	0.10		0.08
9	29.40		0.24	0.19						0.08	0.07	0.07	0.07		0.07
10	22.40		0.14	0.19						0.08	0.07	0.07	0.07		0.07
11	16.50		0.14	0.17						0.07	0.06	0.07	0.07		0.06
12	12.60		0.19	0.34						0.07	0.06	0.09	0.09		0.07
13	10.80		0.23	0.27						0.08	0.07	0.06	0.07		0.06
14	10.10		0.18	0.33						0.07	0.07	0.06	0.07		0.07
15	9.21		0.19	0.20						0.07	0.06	0.06	0.07		0.06
16	7.83		0.20	0.23						0.07	0.06	0.09	0.08		0.07
17	7.10		0.44	0.24						0.07	0.06	0.07	0.07		0.07
18	6.17		0.16	0.33						0.07	0.06	0.07	0.06		0.07
19	5.08		0.22	0.24						0.07	0.07	0.07	0.07		0.08
20	4.99		0.16	0.24						0.07	0.06	0.09	0.09		0.07
21	4.14		0.17	0.28						0.08	0.07	0.07	0.07		0.07
22	5.15		0.15	0.17						0.07	0.07	0.07	0.07		0.07
23	4.27		0.23	0.17						0.08	0.06	0.07	0.06		0.07
24	3.95		0.15	0.15						0.07	0.06	0.08	0.08		0.07
25	6.75		0.23	0.32						0.07	0.06	0.09	0.07		0.07
26	8.45		0.26	0.26						0.07	0.06	0.08	0.07		0.07
27	9.82		0.20	0.24						0.07	0.06	0.10	0.08		0.08
28	8.46		0.25	0.29						0.07	0.07	0.07	0.07		0.08
29	7.82		0.28	0.21						0.07	0.06	0.07	0.07		0.08
30	5.90		0.27	0.34						0.08	0.06	0.07	0.07		0.08
31	5.24		0.15	0.23						0.07	0.06	0.08	0.08		0.08
AVERAGE	11.0	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.06	0.08	0.07	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 07/2013

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.10	1.08	0.13	0.03	0.09	0.01			1.65	0.3	24.4
2	0.11	1.03	0.15	0.03	0.10	0.01			1.75	0.1	24.2
3	0.17	1.06	0.16	0.03	0.22	0.01			1.85	0.7	24.8
4	0.09	1.02	0.18	0.03	0.13	0.01			1.85	0.1	24.8
5	0.00	1.14	0.27	0.03	0.16	0.01			1.80	0.4	24.9
6	0.02	1.10	0.26	0.03	0.14	0.01			1.69	0.1	25.0
7	0.11	1.14	0.25	0.03	0.12	0.01			1.75	0.7	25.1
8	0.00	1.03	0.51	0.03	0.23	0.01			1.75	1.1	24.7
9	0.00	1.03	0.52	0.03	0.20	0.01			1.70	0.0	24.6
10	0.03	0.92	0.32	0.03	0.17	0.01			1.90	0.0	24.7
11	0.00	1.05	0.30	0.03	0.15	0.01			1.75	0.3	24.8
12	0.01	1.05	0.28	0.03	0.11	0.01			1.85	0.1	24.5
13	0.06	1.02	0.29	0.03	0.11	0.01			1.75	0.0	24.6
14	0.13	1.09	0.21	0.03	0.11	0.01			1.90	0.0	24.6
15	0.05	1.08	0.20	0.03	0.11	0.01			1.80	0.0	25.0
16	0.10	1.15	0.17	0.03	0.12	0.01			1.80	0.0	25.0
17	0.15	0.95	0.15	0.07	0.08	0.01			1.85	0.0	25.4
18	0.17	0.99	0.09	0.03	0.16	0.01			1.90	0.1	25.4
19	0.19	1.07	0.13	0.03	0.11	0.01			1.85	0.0	25.3
20	0.21	1.09	0.11	0.03	0.13	0.01			1.90	0.8	25.8
21	0.22	1.06	0.13	0.03	0.13	0.01			2.00	0.0	25.9
22	0.16	1.08	0.11	0.03	0.11	0.01			1.95	0.1	25.7
23	0.21	1.04	0.10	0.03	0.11	0.01			1.85	1.0	25.5
24	0.15	1.01	0.07	0.03	0.10	0.01			1.80	0.0	25.6
25	0.14	1.05	0.10	0.03	0.10	0.01			1.80	0.0	25.6
26	0.10	1.02	0.16	0.03	0.11	0.01			1.75	0.0	25.7
27	0.10	1.03	0.16	0.03	0.11	0.01			1.80	0.0	25.5
28	0.15	1.04	0.16	0.03	0.10	0.01			1.90	0.2	26.1
29	0.15	1.02	0.14	0.03	0.09	0.01			1.80	0.0	25.5
30	0.19	1.16	0.13	0.03	0.09	0.01			1.90	0.0	25.4
31	0.27	1.06	0.10	0.03	0.08	0.01			1.70	0.0	25.8
AVERAGE	0.11	1.05	0.19	0.03	0.13	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	25.2
									1.65		
									Number of readings	31	6.15
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 07/2013

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DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No: 7	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	25,000	14,000	95.00	11,000	95.00						
3	0										
4	29,000					16,000	90.70	13,000	90.70		
5	0										
6	29,000	15,000	95.00	14,000	95.00						
7	0										
8	25,000					13,000	94.90	12,000	94.90		
9	26,000	13,000	87.10	13,000	87.10						
10	0										
11	32,000					17,000	91.00	15,000	91.00		
12	0										
13	30,000	15,000	95.10	15,000	95.20						
14	0										
15	30,000					15,000	95.10	15,000	95.10		
16	0										
17	27,000	14,000	93.90	13,000	93.90						
18	0										
19	31,000					16,000	94.90	15,000	94.90		
20	0										
21	28,000	14,000	94.90	14,000	94.90						
22	0										
23	32,000					16,000	94.90	16,000	94.90		
24	0										
25	30,000	15,000	93.90	15,000	93.90						
26	0										
27	32,000					16,000	91.30	16,000	91.30		
28	0										
29	32,000	16,000	99.30	16,000	99.30						
30	0										
31	30,000					15,000	94.90	15,000	94.90		
TOTAL	468,000	116,000	754.20	111,000	754.30	124,000	747.70	117,000	747.70	0	0.00
AVERAGE	15,097	14,500	94.275	13,875	94.288	15,500	93.463	14,625	93.463	#DIV/0!	#DIV/0!

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

REPORT MONTH/YEAR: 07/2013

ALL WATER SYSTEMS

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DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1	0.0		0.62	0.48	0.85	0.77	1.60	1.53	0.87	0.77	
2	0.0		1.50	1.37	1.36	1.28	1.43	1.34	1.20	1.12	
3	0.0		1.15	1.07	0.71	0.58	1.36	1.25	1.63	1.40	
4	0.0		1.37	1.29	0.73	0.83	1.52	1.42	0.73	0.84	
5	0.0		1.48	1.39	1.45	1.34	0.57	0.46	0.88	0.76	
6	0.0		1.48	1.40	1.60	1.49	0.33	0.30	0.94	0.82	
7	0.0		1.53	1.41	1.44	1.37	0.25	0.23	0.34	0.23	
8	0.0		1.32	1.22	0.87	0.61	1.15	1.06	0.93	0.88	
9	0.0		1.53	1.44	0.94	0.86	1.44	1.37	0.59	0.53	
10	0.0		1.41	1.30	1.06	0.97	1.33	1.18	1.62	1.48	
11	0.0		1.25	1.17	1.17	1.09	1.41	1.33	1.12	1.06	
12	0.0		1.47	1.39	0.58	0.49	1.55	1.44	0.82	0.71	
13	0.0		1.19	1.09	1.01	0.91	1.23	1.13	1.52	1.44	
14	0.0		1.15	1.11	0.87	0.79	1.24	1.15	1.83	1.51	
15	0.0		1.35	1.28	0.78	0.68	1.48	1.38	0.81	0.72	
16	0.0		1.37	1.28	0.83	0.75	1.25	1.10	1.50	1.39	
17	0.0		0.72	0.63	0.33	0.28	1.47	1.35	0.79	0.65	
18	0.0		1.21	1.11	1.11	1.02	1.30	1.21	1.11	1.05	
19	0.0		1.16	1.06	0.70	0.64	1.17	1.14	0.79	0.74	
20	0.0		1.45	1.37	1.69	1.55	0.33	0.31	0.79	0.68	
21	0.0		1.57	1.46	1.51	1.43	0.21	0.20	0.30	0.27	
22	0.0		1.41	1.30	0.81	0.73	1.47	1.39	0.81	0.73	
23	0.0		0.85	0.69	0.81	0.71	1.28	1.21	1.46	1.39	
24	0.0		1.60	1.49	0.94	0.82	0.60	0.49	1.82	1.74	
25	0.0		0.95	0.79	1.35	1.28	1.56	1.49	0.81	0.73	
26	0.0		1.55	1.43	0.95	0.80	1.89	1.58	0.91	0.82	
27	0.0		1.18	1.08	0.98	0.89	1.23	1.14	1.60	1.51	
28	0.0		0.77	0.69	1.08	1.01	1.28	1.17	1.46	1.39	
29	0.0		1.36	1.23	0.87	0.68	1.48	1.35	0.99	0.86	
30	0.0		1.29	1.16	0.73	0.59	1.88	1.53	0.84	0.71	
31	0.0		1.28	1.41	0.81	0.72	1.17	1.07	0.42	0.34	
AVERAGE	0.0	#DIV/0!	Average	1.27	1.18	0.98	0.89	1.19	1.11	1.03	0.94
TOTAL	0.0	0.0	Total Minimum	0.62		0.33		0.21		0.30	
			Free Minimum		0.48		0.28		0.20		0.23

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	1	0	4	0	3	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.20
Number of Total Residuals	124	Minimum Monthly Total Residual	0.21
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

PWS ID : KY0800273  
 PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 07/2013

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
2	24.0	6	0.07	0.07	0.06	0.06	0.07	0.06	0.070	
3	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
4	24.0	6	0.06	0.07	0.07	0.06	0.06	0.06	0.070	
5	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
6	23.0	6	0.06	0.07	0.06	0.06	0.06	0.07	0.068	
7	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
8	24.0	6	0.07	0.08	0.07	0.06	0.06	0.06	0.080	
9	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
10	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
11	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
12	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.070	
13	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
14	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.070	
15	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
16	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.070	
17	23.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.070	
18	24.0	6	0.07	0.07	0.07	0.06	0.07	0.07	0.070	
19	23.0	6	0.08	0.07	0.08	0.06	0.06	0.06	0.080	
20	24.0	6	0.07	0.07	0.06	0.06	0.06	0.07	0.070	
21	24.0	6	0.07	0.06	0.07	0.07	0.06	0.07	0.070	
22	24.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070	
23	24.0	6	0.06	0.07	0.06	0.06	0.07	0.06	0.070	
24	24.0	6	0.07	0.07	0.06	0.06	0.06	0.07	0.070	
25	24.0	6	0.07	0.06	0.06	0.06	0.06	0.07	0.070	
26	24.0	6	0.07	0.07	0.06	0.06	0.07	0.06	0.070	
27	24.0	6	0.07	0.07	0.07	0.07	0.07	0.08	0.075	
28	24.0	6	0.08	0.08	0.07	0.07	0.07	0.07	0.080	
29	24.0	6	0.08	0.08	0.07	0.07	0.07	0.07	0.080	
30	24.0	6	0.08	0.08	0.08	0.07	0.07	0.07	0.080	
31	24.0	6	0.07	0.07	0.07	0.07	0.07	0.08	0.075	
<b>Total</b>	<b>741.0</b>	<b>186</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>186</b>	<b>0.080</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N)  Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding --> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Carl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

08-05-2013  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

07/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>57,272,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,847,484</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,907,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>741.0</u>		Number of days of plant operation <u>31</u>	
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken <u>186</u>		Number of lowest chlorine samples recorded <u>31</u>	
Highest single turbidity reading <u>0.08</u>		Lowest single chlorine reading <u>1.65</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>0</u>		Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU <u>0</u>		Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.5 mg/L <u>0</u>	
Number of samples exceeded 5 NTU <u>0</u>			

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>31</u>		Number of days of plant operation <u>31</u>	
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

08-05-2013  
Date



RECEIVED  
 SEP 10 2013  
 BY: V. Puges

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

Revised 01/04/07

MONTH & YEAR (mm/yyyy)

08/2013

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	09-05-2013	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartln	1V-A	21944	
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm):	1,667
2. TYPE OF FILTRATION USED:	Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	2.66
4. PERCENT BACKWASH WATER USED:	0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	#2 - 3/18/10 #3 - 9/2/ 09
6. DATE SETTLING BASIN(S) LAST CLEANED:	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

09-04-2013  
 DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 08/2015

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,779,000	23.0	254.1	17.1	4.0	0.3			503.8	34.0	175.6	11.8
2	1,856,000	24.0	265.1	17.1	4.2	0.3			572.9	37.0	195.0	12.6
3	1,879,000	24.0	265.1	16.9	4.2	0.3			574.7	36.7	173.9	11.1
4	1,838,000	24.0	265.1	17.3	4.2	0.3			550.8	35.9	173.9	11.3
5	1,871,000	24.0	265.1	17.0	4.2	0.3			557.1	35.7	183.1	11.7
6	1,722,000	22.0	265.1	18.5	4.2	0.3			547.9	38.2	183.1	12.7
7	1,891,000	24.0	265.1	16.8	4.2	0.3			506.7	32.1	169.1	10.7
8	1,858,000	24.0	265.1	17.1	4.2	0.3			468.9	30.3	169.1	10.9
9	1,898,000	24.0	265.1	16.7	4.2	0.3			450.0	28.4	186.2	11.8
10	1,868,000	24.0	265.1	17.0	4.2	0.3			442.3	28.4	177.6	11.4
11	1,900,000	24.0	265.1	16.7	4.2	0.3			460.2	29.0	194.3	12.3
12	1,875,000	24.0	265.1	17.0	4.2	0.3			459.1	29.4	179.2	11.5
13	1,897,000	24.0	265.1	16.8	4.2	0.3			483.6	30.6	202.0	12.8
14	1,898,000	24.0	265.1	16.7	4.2	0.3			515.8	32.6	193.1	12.2
15	1,824,000	23.0	299.5	19.7	4.0	0.3			490.5	32.2	175.5	11.5
16	1,906,000	24.0	265.1	16.7	4.2	0.3			499.4	31.4	183.2	11.5
17	1,837,000	23.0	254.1	16.6	4.0	0.3			492.8	32.2	166.3	10.9
18	1,834,000	23.0	254.1	16.6	4.0	0.3			456.9	29.9	181.7	11.9
19	1,920,000	24.0	265.1	18.6	4.2	0.3			479.0	29.9	183.1	11.4
20	1,864,000	23.0	231.4	14.9	4.0	0.3			471.7	30.3	175.5	11.3
21	1,920,000	24.0	241.4	15.1	4.2	0.3			488.0	30.5	190.3	11.9
22	1,908,000	24.0	241.4	15.2	4.2	0.3			484.2	30.4	194.6	12.2
23	1,846,000	23.0	231.4	15.0	4.0	0.3			513.0	33.3	229.3	14.9
24	1,880,000	24.0	241.4	15.4	4.2	0.3			560.8	35.8	213.1	13.6
25	1,875,000	24.0	241.4	15.4	4.2	0.3			557.7	35.7	198.2	12.7
26	1,773,000	23.0	231.4	15.6	4.0	0.3			527.9	35.7	191.9	13.0
27	1,859,000	23.0	231.4	14.9	4.0	0.3			534.2	34.5	191.9	12.4
28	1,898,000	23.0	231.4	14.6	4.0	0.3			525.6	33.2	198.3	12.5
29	1,928,000	24.0	241.4	15.0	4.2	0.3			492.8	30.6	183.1	11.4
30	1,911,000	24.0	241.4	15.1	4.2	0.3			571.5	35.9	190.8	12.0
31	1,947,000	24.0	241.4	14.9	4.2	0.3			514.5	31.7	189.3	11.7
TOTAL	57,960,000		7885.1		128.4		0.0		15754.3		5791.3	
AVERAGE	1,869,677		254.4	16.3	4.1	0.3	#DIV/0!	#DIV/0!	508.2	32.6	186.8	12.0
MAX	1,947,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 08/2013

APPLICABLE TO ALL PLANTS

PAGE 2 OF 11

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
1	679.4	45.6	58.4	3.9									10.4	0.7
2	767.9	49.6	60.9	3.9									10.4	0.7
3	748.6	47.8	60.9	3.9									10.4	0.7
4	724.7	47.3	60.9	4.0									10.4	0.7
5	740.2	47.4	60.9	3.9									10.4	0.7
6	731.0	50.9	60.9	4.2									10.4	0.7
7	675.8	42.9	60.9	3.9									10.4	0.7
8	638.0	41.2	60.9	3.9									10.4	0.7
9	636.2	40.2	60.9	3.8									10.4	0.7
10	619.9	39.8	60.9	3.9									10.4	0.7
11	654.5	41.3	60.9	3.6									10.4	0.7
12	638.3	40.8	60.9	3.9									10.4	0.7
13	685.6	43.3	60.9	3.8									13.8	0.9
14	708.9	44.8	60.9	3.8									13.8	0.9
15	666.0	43.8	58.4	3.8									13.2	0.9
16	682.6	42.9	60.9	3.8										
17	659.1	43.0	58.4	3.8										
18	638.6	41.8	58.4	3.8										
19	662.1	41.3	60.9	3.8										
20	647.2	41.6	58.4	3.8										
21	678.3	42.4	60.9	3.8										
22	678.8	42.4	60.9	3.6									3.4	0.2
23	742.3	49.2	58.4	3.8									3.4	0.2
24	773.9	49.4	60.9	3.9									3.4	0.2
25	755.9	48.3	60.9	3.9									3.4	0.2
26	719.8	48.7	58.4	3.9									3.4	0.2
27	726.1	46.8	58.4	3.6									3.4	0.2
28	723.9	45.7	58.4	3.7									3.4	0.2
29	675.9	42.0	60.9	3.8									3.4	0.2
30	762.3	47.8	60.9	3.8									3.4	0.2
31	703.8	43.3	60.9	3.8									3.4	0.2
TOTAL	21,645.6		1,865.4		0.0		0.0		0.0		0.0		189.6	
AVERAGE	695.0	44.6	60.2	3.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	8.0	0.5

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 08/2013

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	7.89	7.82	7.68	117	114	150	146	0.82	0.70	2.16	2.04	4.41	0.14	0.05	
2	7.87	7.85	7.67	138	133	168	166	0.81	0.69	2.08	1.94	4.23	0.13	0.05	
3	7.85	7.81	7.68	139	136	165	162	1.11	0.97	2.28	2.17	3.79	0.11	0.05	
4	7.88	7.82	7.69	140	136	208	203	0.88	0.75	2.09	1.98	3.63	0.10	0.05	
5	7.85	7.85	7.70	141	136	220	213	0.89	0.76	2.14	2.02	3.24	0.15	0.06	
6	7.92	7.90	7.73	143	140	212	207	1.05	0.92	2.11	1.98	3.18	0.16	0.06	
7	7.95	7.94	7.78	139	137	210	205	1.29	1.15	2.26	2.12	2.82	0.18	0.06	
8	7.93	7.95	7.79	150	146	207	204	1.20	1.04	2.18	2.06	2.66	0.14	0.06	
9	7.96	7.96	7.81	152	147	220	216	0.90	0.78	2.09	1.98	3.09	0.13	0.07	
10	8.00	7.91	7.78	154	149	217	213	0.89	0.77	2.14	2.04	6.78	0.14	0.06	
11	7.95	7.88	7.75	180	174	220	216	0.78	0.68	2.12	2.03	8.34	0.11	0.05	
12	7.98	7.88	7.74	181	174	222	216	0.84	0.73	2.03	1.94	6.26	0.13	0.06	
13	7.94	7.92	7.73	156	151	221	217	0.81	0.69	2.06	1.97	6.51	0.12	0.06	
14	7.88	7.85	7.71	154	149	224	219	0.85	0.71	2.06	1.91	5.46	0.16	0.06	
15	7.90	7.84	7.70	143	138	197	195	0.88	0.74	2.09	1.98	15.10	0.15	0.06	
16	7.98	7.85	7.69	133	129	196	192	0.90	0.79	2.08	2.00	10.50	0.15	0.07	
17	7.96	7.87	7.74	135	132	198	194	1.10	0.96	2.21	2.08	8.51	0.14	0.06	
18	7.93	7.86	7.72	140	136	199	195	0.96	0.87	2.12	2.04	6.54	0.11	0.06	
19	7.94	7.89	7.72	130	127	203	199	0.85	0.77	2.09	2.02	4.72	0.13	0.06	
20	7.92	7.85	7.71	163	157	203	198	0.85	0.75	2.16	2.10	4.08	0.13	0.06	
21	7.90	7.88	7.72	122	119	193	189	0.87	0.75	2.10	2.00	3.24	0.11	0.06	
22	7.88	7.87	7.72	131	129	185	180	0.83	0.72	2.09	2.01	3.93	0.11	0.07	
23	7.90	7.88	7.72	136	131	206	202	0.83	0.72	2.08	1.98	2.66	0.12	0.06	
24	7.97	7.88	7.74	145	140	212	207	1.02	0.88	2.13	1.99	2.95	0.11	0.05	
25	7.97	7.87	7.75	150	144	215	210	1.01	0.90	2.14	2.06	4.36	0.14	0.06	
26	7.93	7.87	7.74	155	149	208	203	0.88	0.79	2.01	1.93	5.13	0.16	0.06	
27	7.87	7.88	7.72	147	143	205	200	0.90	0.81	2.09	2.02	4.53	0.15	0.07	
28	7.91	7.90	7.73	153	150	193	188	0.92	0.81	2.16	2.08	4.35	0.11	0.06	
29	7.90	7.87	7.71	127	123	188	183	0.92	0.83	2.07	1.98	3.60	0.12	0.07	
30	7.93	7.90	7.73	142	138	202	198	0.91	0.81	2.06	2.00	3.20	0.13	0.06	
31	7.93	7.89	7.75	145	141	204	198	1.02	0.91	2.21	2.10	2.93	0.13	0.06	
AVERAGE	7.9	7.9	7.7	145	140	202	198	0.93	0.81	2.12	2.02	4.99	0.13	0.06	

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 08/2013

PAGE 4 OF 11

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	4.41		0.13	0.20						0.08	0.08	0.07	0.08		0.07
2	4.23		0.13	0.19						0.08	0.06	0.07	0.07		0.07
3	3.79		0.15	0.23						0.07	0.07	0.07	0.07		0.08
4	3.63		0.17	0.16						0.05	0.06	0.08	0.08		0.08
5	3.24		0.21	0.27						0.05	0.07	0.08	0.07		0.08
6	3.18		0.28	0.28						0.08	0.07	0.08	0.07		0.08
7	2.82		0.18	0.20						0.09	0.07	0.08	0.07		0.08
8	2.66		0.23	0.18						0.10	0.09	0.08	0.08		0.09
9	3.09		0.13	0.22						0.07	0.07	0.07	0.07		0.09
10	6.78		0.19	0.19						0.08	0.08	0.08	0.08		0.09
11	8.34		0.16	0.16						0.09	0.08	0.08	0.07		0.09
12	6.26		0.16	0.23						0.07	0.07	0.07	0.07		0.08
13	6.51		0.14	0.18						0.07	0.07	0.09	0.08		0.09
14	5.46		0.18	0.29						0.08	0.07	0.07	0.07		0.09
15	15.10		0.20	0.29						0.09	0.09	0.08	0.08		0.10
16	10.50		0.15	0.22						0.09	0.08	0.13	0.08		0.08
17	8.51		0.16	0.22						0.08	0.08	0.11	0.08		0.09
18	6.54		0.14	0.14						0.08	0.08	0.09	0.07		0.07
19	4.72		0.15	0.18						0.08	0.08	0.09	0.06		0.07
20	4.08		0.12	0.21						0.08	0.08	0.08	0.07		0.07
21	3.24		0.16	0.13						0.07	0.07	0.10	0.09		0.07
22	3.93		0.16	0.14						0.07	0.07	0.10	0.08		0.07
23	2.66		0.12	0.17						0.08	0.07	0.08	0.07		0.07
24	2.95		0.13	0.12						0.07	0.08	0.09	0.08		0.06
25	4.36		0.22	0.15						0.07	0.07	0.08	0.07		0.06
26	5.13		0.22	0.25						0.07	0.07	0.08	0.07		0.06
27	4.53		0.16	0.23						0.07	0.08	0.08	0.08		0.06
28	4.35		0.12	0.13						0.07	0.07	0.08	0.09		0.06
29	3.60		0.13	0.16						0.07	0.07	0.25	0.25		0.10
30	3.20		0.13	0.15						0.07	0.08	0.08	0.07		0.06
31	2.93		0.16	0.18						0.08	0.09	0.09	0.07		0.07
AVERAGE	5.0	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.08	0.07	0.09	0.08	#DIV/0!	0.08

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 08/2013

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.22	1.10	0.08	0.03	0.07	0.01			1.80	0.0	25.6
2	0.25	1.02	0.10	0.03	0.08	0.01			1.80	0.0	25.3
3	0.27	1.04	0.11	0.03	0.08	0.01			1.95	0.0	25.0
4	0.27	0.98	0.09	0.03	0.07	0.01			1.90	0.0	25.1
5	0.26	1.06	0.06	0.03	0.06	0.01			1.90	0.0	25.3
6	0.27	1.10	0.10	0.03	0.05	0.01			1.75	0.0	25.3
7	0.29	1.19	0.07	0.03	0.06	0.01			1.70	0.0	25.5
8	0.32	1.11	0.07	0.03	0.07	0.01			1.75	0.0	25.6
9	0.29	1.02	0.06	0.03	0.09	0.01			1.80	1.0	25.5
10	0.32	1.03	0.07	0.03	0.09	0.01			1.80	0.7	25.7
11	0.18	0.98	0.13	0.03	0.13	0.01			1.80	0.3	25.6
12	0.20	1.01	0.12	0.03	0.13	0.01			1.75	0.1	25.7
13	0.25	0.96	0.11	0.03	0.08	0.01			1.80	0.1	25.7
14	0.27	0.99	0.12	0.03					1.85	0.1	25.8
15	0.06	1.00	0.22	0.03					1.85	0.0	25.0
16	0.14	0.91	0.19	0.03					1.90	0.0	24.5
17	0.16	0.91	0.20	0.03					1.75	0.0	24.5
18	0.13	0.96	0.13	0.03					1.75	0.1	24.6
19	0.23	0.98	0.08	0.03					1.85	0.1	24.0
20	0.23	0.98	0.09	0.03	0.06	0.02			1.85	0.0	23.0
21	0.26	1.02	0.05	0.03	0.05	0.02			1.90	0.0	24.7
22	0.30	0.97	0.07	0.03	0.05	0.01			1.80	0.1	24.7
23	0.26	0.95	0.03	0.03	0.05	0.01			1.75	0.1	24.7
24	0.31	0.95	0.06	0.03	0.12	0.01			1.75	0.1	24.8
25	0.30	0.97	0.07	0.03	0.06	0.01			1.80	0.0	24.8
26	0.22	0.91	0.09	0.03	0.06	0.01			1.75	0.0	24.7
27	0.26	0.99	0.08	0.03	0.06	0.01			1.85	0.0	24.9
28	0.29	0.94	0.05	0.03	0.06	0.02			1.80	0.1	25.2
29	0.24	1.04	0.05	0.03	0.06	0.01			1.80	0.6	25.2
30	0.25	1.01	0.06	0.03	0.06	0.01			1.85	0.0	25.0
31	0.27	1.00	0.07	0.03	0.07	0.01			1.75	0.0	25.3
AVERAGE	0.24	1.00	0.09	0.03	0.07	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	25.0
									1.70		
									Number of readings	31	3.45
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID : A  
 REPORT MONTH/YEAR: 08/2013  
 PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)	160	AREA (square feet)	180	AREA (square feet)	160	AREA (square feet)	FILT RUN
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	26,000	13,000	94.00	13,000	94.00						
3	0										
4	32,000					16,000	94.00	16,000	94.00		
5	0										
6	30,000	15,000	95.00	15,000	95.00						
7	0										
8	29,000					14,000	94.30	15,000	94.30		
9	0										
10	30,000	15,000	94.70	15,000	94.70						
11	0										
12	30,000					16,000	98.90	14,000	98.90		
13	0										
14	0										
15	26,000	14,000	98.80	12,000	98.80						
16	0										
17	32,000					16,000	98.30	16,000	98.30		
18	29,000	15,000	89.60	14,000	89.60						
19											
20	32,000					16,000	89.80	16,000	89.80		
21	0										
22	0										
23	26,000	13,000	98.40	13,000	98.40						
24	32,000					16,000	90.00	16,000	90.00		
25	0										
26	30,000	15,000	89.90	15,000	89.90						
27	0										
28	30,000					15,000	98.10	15,000	98.10		
29	0										
30	26,000	15,000	92.70	11,000	92.70						
31	0										
TOTAL	440,000	115,000	753.10	108,000	753.10	109,000	663.40	108,000	663.40	0	0.00
AVERAGE	14,667	14,375	94.138	13,500	94.138	15,571	94.771	15,429	94.771	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 08/2013

ALL WATER SYSTEMS

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
	T	F	T	F	T	F	T	F			
1			1.51	1.37	1.53	1.43	1.69	1.57	1.11	0.94	
2			1.47	1.36	0.94	0.88	1.40	1.25	0.83	0.73	
3			1.55	1.49	1.53	1.46	0.31	0.25	0.79	0.65	
4			1.55	1.43	1.50	1.43	0.35	0.31	0.82	0.71	
5			1.54	1.23	1.28	1.17	1.27	0.95	0.77	0.62	
6			1.60	1.35	0.87	0.78	1.48	1.34	1.62	1.50	
7			0.48	0.40	1.15	1.03	1.77	1.52	1.31	1.18	
8			1.58	1.45	1.21	1.10	1.72	1.58	1.01	0.86	
9			1.53	1.44	0.91	0.82	1.55	1.46	0.89	0.79	
10			0.87	0.79	1.23	1.15	1.28	1.17	1.41	1.34	
11			0.92	0.84	1.13	1.07	1.24	1.19	1.54	1.49	
12			1.49	1.35	0.82	0.72	1.35	1.28	0.76	0.68	
13			0.43	0.35	0.85	0.77	1.47	1.36	0.87	0.80	
14			1.46	1.27	0.71	0.67	1.61	1.53	1.60	1.46	
15			1.54	1.52	1.29	1.24	1.46	1.41	1.37	1.35	
16			1.37	1.31	0.85	0.80	1.56	1.53	0.81	0.74	
17			0.96	0.87	1.43	1.34	0.39	0.35	0.80	0.69	
18			1.48	1.41	1.51	1.43	0.25	0.23	1.06	0.94	
19			0.91	0.82	0.78	0.74	1.37	1.33	0.78	0.78	
20			1.31	1.18	1.00	0.98	1.52	1.51	1.59	1.53	
21			1.48	1.43	0.93	0.89	1.55	1.52	0.72	0.65	
22			1.53	1.48	1.40	1.34	1.61	1.57	1.43	1.38	
23			1.18	1.13	1.09	1.00	1.52	1.45	0.81	0.71	
24			0.71	0.57	1.42	1.34	1.43	1.36	1.02	0.91	
25			1.27	1.15	0.81	0.72	0.80	0.81	1.53	1.44	
26			1.44	1.44	0.80	0.76	1.48	1.47	0.83	0.77	
27			1.35	1.28	0.71	0.68	1.58	1.57	1.44	1.41	
28			1.23	1.10	1.39	1.34	1.38	1.31	1.26	1.18	
29			1.32	1.31	1.25	1.04	1.41	1.36	1.20	1.19	
30			1.37	1.36	0.79	0.73	1.39	1.36	0.89	0.83	
31			1.28	1.18	1.15	1.02	1.24	1.14	1.19	1.13	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.28	1.18	1.11	1.02	1.31	1.23	1.10	1.01
TOTAL	0.0	0.0	Total Minimum	0.43		0.71		0.25		0.72	
			Free Minimum		0.35		0.57		0.23		0.62

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	2	0	0	0	0	4	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.23
Number of Total Residuals	124	Minimum Monthly Total Residual	0.25
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) N  
 Number of days of operation? 31

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 08/2013

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	23.0	6	0.07	0.07	0.07	0.07	0.06	0.07	0.070	
2	24.0	6	0.07	0.07	0.07	0.06	0.07	0.07	0.070	
3	24.0	6	0.08	0.07	0.07	0.06	0.07	0.07	0.080	
4	24.0	6	0.07	0.07	0.07	0.06	0.06	0.08	0.080	
5	24.0	6	0.08	0.08	0.08	0.06	0.06	0.07	0.080	
6	22.0	6	0.08	0.07	0.07	0.06	0.06	0.07	0.080	
7	24.0	6	0.08	0.08	0.08	0.07	0.08	0.08	0.084	
8	24.0	6	0.08	0.08	0.08	0.09	0.09	0.09	0.090	
9	24.0	6	0.09	0.08	0.08	0.07	0.07	0.08	0.090	
10	24.0	6	0.09	0.08	0.08	0.07	0.07	0.09	0.090	
11	24.0	6	0.09	0.09	0.08	0.07	0.07	0.08	0.090	
12	24.0	6	0.08	0.08	0.08	0.07	0.08	0.08	0.080	
13	24.0	6	0.09	0.08	0.09	0.08	0.09	0.09	0.090	
14	24.0	6	0.08	0.09	0.08	0.07	0.07	0.09	0.088	
15	23.0	6	0.09	0.09	0.10	0.08	0.08	0.09	0.099	
16	24.0	6	0.12	0.10	0.09	0.05	0.06	0.08	0.120	
17	23.0	6	0.09	0.09	0.08	0.06	0.06	0.07	0.090	
18	23.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
19	24.0	6	0.07	0.07	0.07	0.05	0.05	0.07	0.070	
20	23.0	6	0.07	0.07	0.06	0.05	0.05	0.06	0.066	
21	24.0	6	0.07	0.07	0.06	0.05	0.06	0.06	0.072	
22	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.064	
23	23.0	6	0.06	0.06	0.07	0.05	0.05	0.06	0.070	
24	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
25	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
26	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
27	23.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.060	
28	23.0	6	0.06	0.05	0.05	0.05	0.04	0.06	0.058	
29	23.0	6	0.06	0.05	0.05	0.04	0.05	0.05	0.058	
30	24.0	6	0.09	0.13	0.12	0.13	0.13	0.11	0.130	
31	24.0	6	0.06	0.06	0.05	0.05	0.05	0.06	0.060	
31	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.070	
<b>Total</b>	<b>733.0</b>	<b>186</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>186</b>	<b>0.130</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 6 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

09-04-2013  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

08/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>57,960,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,869,677</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,947,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Number of hours of plant operation	<u>733.0</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>
Highest single turbidity reading	<u>0.13</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU	<u>6</u>
Number of samples exceeded 0.3 NTU	<u>0</u>
Number of samples exceeded 1 NTU	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU	<u>    </u>
Number of samples exceeded 5 NTU	<u>    </u>

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0999</u>
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded	<u>31</u>
Lowest single chlorine reading	<u>1.70</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L	<u>    </u>

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorite reading	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

East T. Alley  
Signature of Principal Executive Officer or Authorized Agent

09-04-2013  
Date



OCT 07 2013  
BY: \_\_\_\_\_

**KENTUCKY DIVISION OF WATER**  
**DRINKING WATER BRANCH**  
**MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS**

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 09/2013

Indicate one with "X"  
 SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>10-04-2013</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartln</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Jerry L Belcher</u>	<u>1V-A</u>	<u>21719</u>	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 0.8
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

10-03-2013  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 09/2013

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	LBS	PPM	Pre		Post	
									LBS	PPM	LBS	PPM
1	1,788,000	22.0	221.3	14.8	3.9	0.3			482.8	32.4	178.4	12.0
2	1,946,000	24.0	241.4	14.9	4.2	0.3			539.4	33.2	207.0	12.8
3	1,900,000	24.0	241.4	15.2	4.2	0.3			520.7	32.9	194.6	12.3
4	1,926,000	24.0	241.4	15.0	4.2	0.3			546.3	34.0	212.4	13.2
5	1,883,000	24.0	241.4	15.4	4.2	0.3			535.6	34.1	213.1	13.6
6	1,918,000	24.0	241.4	15.1	4.2	0.3			542.0	33.9	213.1	13.3
7	1,900,000	24.0	241.4	15.2	4.2	0.3			535.5	33.8	213.1	13.4
8	1,907,000	24.0	241.4	15.2	4.2	0.3			535.5	33.7	213.1	13.4
9	1,871,000	24.0	241.4	15.5	4.2	0.3			522.9	33.5	187.6	12.0
10	1,977,000	24.0	241.4	14.6	4.2	0.3			555.9	33.7	206.9	12.5
11	1,917,000	24.0	241.4	15.1	4.2	0.3			526.8	33.0	205.8	12.9
12	1,897,000	24.0	241.4	15.3	4.2	0.3			526.7	33.3	191.7	12.1
13	1,884,000	23.0	231.3	14.7	4.0	0.3			521.4	33.2	204.2	13.0
14	1,912,000	24.0	241.4	15.1	4.2	0.3			552.0	34.6	202.3	12.7
15	1,887,000	24.0	241.4	15.3	4.2	0.3			598.9	38.1	209.3	13.3
16	1,919,000	24.0	241.4	15.1	4.2	0.3			482.6	30.2	192.7	12.0
17	1,920,000	24.0	241.4	15.1	4.2	0.3			557.2	34.8	190.1	11.9
18	1,969,000	24.0	241.4	14.7	4.2	0.3			541.0	32.9	183.1	11.2
19	1,921,000	24.0	241.4	15.1	4.2	0.3			570.0	35.6	190.0	11.9
20	1,889,000	24.0	241.4	15.3	4.2	0.3			573.1	36.4	194.6	12.4
21	1,870,000	22.0	221.3	14.2	3.6	0.2			498.3	32.0	177.5	11.4
22	1,875,000	23.0	231.3	14.8	4.0	0.3			520.1	33.3	191.5	12.2
23	1,598,000	20.0	201.2	15.1	3.5	0.3			473.5	35.5	154.9	11.6
24	1,900,000	24.0	241.4	15.2	4.2	0.3			481.9	30.4	185.1	11.7
25	1,883,000	24.0	241.4	15.4	4.2	0.3			545.4	34.7	177.8	11.3
26	1,898,000	24.0	241.4	15.3	4.2	0.3			539.2	34.1	181.4	11.5
27	1,745,000	22.0	221.3	15.2	4.2	0.3			493.1	33.9	178.0	12.2
28	1,855,000	23.0	231.3	15.0	4.0	0.3			531.1	34.3	182.3	11.8
29	1,838,000	23.0	231.3	15.1	4.0	0.3			494.2	32.2	186.5	12.2
30	1,887,000	24.0	241.4	15.3	4.2	0.3			507.3	32.2	189.6	12.0
31												
TOTAL	56,480,000		7101.1		123.6		0.0		15850.4		5807.7	
AVERAGE	1,882,667		236.7	15.1	4.1	0.3	#DIV/0!	#DIV/0!	528.3	33.7	193.6	12.3
MAX	1,977,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 09/2013

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
1	681.2	44.3	55.8	3.7									3.1	0.2
2	746.4	46.0	60.9	3.8									3.4	0.2
3	715.3	45.1	60.9	3.8									3.4	0.2
4	758.7	47.2	60.9	3.8									3.4	0.2
5	748.7	47.7	60.9	3.9									6.0	0.4
6	755.1	47.2	60.9	3.8									6.5	0.4
7	748.6	47.2	60.9	3.8									6.0	0.4
8	748.6	47.1	60.9	3.8									6.0	0.4
9	710.5	45.5	60.9	3.9									6.5	0.4
10	762.8	46.3	60.9	3.7									6.0	0.4
11	732.6	45.8	60.9	3.8									6.0	0.4
12	718.4	45.4	60.9	3.8									6.0	0.4
13	726.6	46.2	58.4	3.7									5.5	0.4
14	754.3	47.3	60.9	3.8									4.5	0.3
15	808.2	51.4	60.9	3.9									6.0	0.4
16	675.3	42.2	60.9	3.8									6.0	0.4
17	747.3	46.7	60.9	3.8									6.5	0.4
18	724.1	44.1	60.9	3.7									6.0	0.4
19	780.0	47.4	60.9	3.8									6.5	0.4
20	767.7	48.7	60.9	3.9									6.5	0.4
21	675.6	43.3	55.8	3.6									5.5	0.4
22	711.6	45.5	58.4	3.7									6.0	0.4
23	628.4	47.2	50.8	3.8									5.0	0.4
24	667.0	42.1	60.9	3.8									6.5	0.4
25	723.2	46.1	60.9	3.9									6.5	0.4
26	720.6	45.5	60.9	3.8									6.5	0.4
27	671.1	46.1	55.8	3.8									4.5	0.3
28	713.4	46.1	58.4	3.8									5.0	0.3
29	680.7	44.4	58.4	3.8									7.0	0.5
30	696.9	44.3	60.9	3.9									7.5	0.5
31														
TOTAL	21,658.1		1,791.6		0.0		0.0		0.0		0.0		169.8	
AVERAGE	721.9	46.0	59.7	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	5.7	0.4

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 09/2013

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)													
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.97	7.89	7.76	140	137	207	202	0.80	0.70	2.09	1.99	2.68	0.12	0.06
2	7.95	7.88	7.73	146	141	210	206	0.97	0.87	2.11	2.04	2.55	0.13	0.08
3	7.91	7.91	7.74	147	143	211	207	0.98	0.89	2.08	2.01	2.77	0.14	0.07
4	7.88	7.91	7.76	146	141	214	209	0.84	0.74	2.09	2.02	2.48	0.15	0.06
5	7.97	7.93	7.79	156	151	215	211	0.84	0.74	2.14	2.04	2.92	0.17	0.07
6	8.02	7.97	7.81	152	147	225	220	0.92	0.80	2.14	2.03	2.67	0.15	0.06
7	8.04	8.00	7.84	150	147	226	222	0.99	0.85	2.24	2.09	2.47	0.17	0.06
8	8.09	8.03	7.89	168	161	228	224	1.17	1.03	2.25	2.13	2.35	0.13	0.06
9	8.16	8.06	7.89	169	163	231	226	0.97	0.87	2.11	2.02	2.77	0.12	0.06
10	8.09	8.04	7.86	173	169	233	228	0.98	0.85	2.10	2.02	2.38	0.12	0.06
11	8.08	8.03	7.87	156	153	225	220	0.99	0.89	2.12	2.02	2.03	0.11	0.06
12	8.08	8.05	7.88	154	150	223	219	1.04	0.96	2.13	2.05	1.77	0.14	0.07
13	8.12	8.06	7.90	161	157	230	225	0.89	0.78	2.02	1.95	1.95	0.16	0.07
14	8.11	8.09	7.94	163	157	233	228	0.97	0.84	2.12	2.00	2.53	0.15	0.06
15	8.25	8.11	7.94	160	156	234	229	0.92	0.79	2.11	1.97	3.52	0.16	0.06
16	8.24	8.13	7.96	175	170	239	236	0.96	0.85	2.03	1.93	2.78	0.15	0.07
17	8.21	8.13	7.97	173	169	237	233	1.02	0.90	2.03	1.94	2.60	0.14	0.06
18	8.20	8.16	7.99	155	151	222	219	1.02	0.92	2.03	1.94	2.59	0.15	0.07
19	8.22	8.16	7.98	158	155	200	198	0.85	0.77	2.00	1.94	2.13	0.13	0.06
20	8.16	8.08	7.92	185	180	203	196	1.02	0.91	2.06	1.97	3.04	0.13	0.07
21	8.15	8.06	7.91	174	170	240	234	1.11	0.99	2.15	2.01	3.04	0.13	0.06
22	8.13	8.05	7.90	194	178	246	255	1.05	0.94	2.06	1.97	4.38	0.15	0.07
23	8.18	8.09	7.92	178	173	248	244	0.90	0.81	2.16	2.06	3.67	0.13	0.06
24	8.11	8.07	7.90	179	175	245	240	1.10	0.96	2.14	2.03	3.31	0.17	0.08
25	8.14	8.06	7.88	159	155	239	234	1.14	1.03	2.16	2.09	2.68	0.14	0.07
26	8.06	8.07	7.90	161	156	242	236	0.91	1.00	2.13	2.06	2.59	0.12	0.06
27	8.08	8.04	7.88	165	159	235	231	1.02	0.93	2.17	2.07	2.17	0.13	0.06
28	8.08	8.06	7.89	163	159	237	233	0.99	0.89	2.18	2.07	2.04	0.13	0.06
29	8.10	8.05	7.89	158	160	245	245	0.93	0.84	2.07	1.99	1.97	0.13	0.06
30	8.09	8.07	7.89	160	160	248	244	1.09	0.99	2.08	2.03	1.90	0.12	0.06
31														
AVERAGE	8.1	8.0	7.9	163	158	229	225	0.98	0.88	2.11	2.02	2.62	0.14	0.06

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 09/2013

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	2.68		0.16	0.16						0.07	0.08	0.09	0.09		0.06
2	2.55		0.15	0.16						0.06	0.07	0.08	0.08		0.06
3	2.77		0.19	0.13						0.07	0.08	0.08	0.08		0.06
4	2.48		0.23	0.19						0.07	0.08	0.09	0.08		0.06
5	2.92		0.22	0.22						0.07	0.09	0.11	0.10		0.07
6	2.67		0.21	0.23						0.07	0.09	0.10	0.08		0.07
7	2.47		0.23	0.23						0.07	0.09	0.12	0.07		0.07
8	2.35		0.21	0.16						0.08	0.09	0.09	0.05		0.07
9	2.77		0.15	0.16						0.07	0.07	0.09	0.05		0.06
10	2.38		0.15	0.13						0.06	0.07	0.09	0.05		0.06
11	2.03		0.14	0.12						0.06	0.07	0.08	0.06		0.06
12	1.77		0.16	0.18						0.08	0.08	0.09	0.06		0.06
13	1.95		0.18	0.23						0.07	0.08	0.09	0.06		0.06
14	2.53		0.18	0.18						0.07	0.08	0.09	0.06		0.06
15	3.52		0.22	0.25						0.07	0.09	0.09	0.05		0.06
16	2.78		0.19	0.16						0.08	0.09	0.08	0.06		0.06
17	2.60		0.19	0.18						0.07	0.08	0.07	0.05		0.06
18	2.59		0.16	0.17						0.06	0.07	0.09	0.05		0.06
19	2.13		0.18	0.12						0.08	0.09	0.08	0.05		0.05
20	3.04		0.15	0.13						0.07	0.08	0.08	0.05		0.06
21	3.04		0.18	0.14						0.07	0.08	0.08	0.08		0.05
22	4.38		0.22	0.21						0.07	0.08	0.09	0.08		0.08
23	3.67		0.21	0.18						0.08	0.08	0.08	0.08		0.06
24	3.31		0.19	0.23						0.08	0.08	0.09	0.07		0.06
25	2.68		0.16	0.16						0.07	0.07	0.08	0.07		0.05
26	2.59		0.15	0.17						0.08	0.07	0.09	0.08		0.05
27	2.17		0.19	0.16						0.08	0.07	0.07	0.07		0.05
28	2.04		0.19	0.20						0.08	0.08	0.08	0.07		0.05
29	1.97		0.16	0.20						0.06	0.07	0.09	0.08		0.05
30	1.90		0.14	0.13						0.06	0.07	0.07	0.07		0.05
31															
AVERAGE	2.6	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.08	0.09	0.07	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 09/2013

\*Please answer Y/N question below this chart.

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DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)										
1	0.27	0.98	0.07	0.03	0.05	0.01			1.75	0.2	25.3
2	0.21	0.91	0.07	0.03	0.06	0.01			1.90	0.0	25.3
3	0.23	0.92	0.06	0.03	0.06	0.01			1.90	0.1	25.5
4	0.27	0.90	0.05	0.03	0.23	0.01			1.80	0.0	25.6
5	0.26	0.93	0.06	0.03	0.08	0.01			1.85	0.0	25.5
6	0.24	0.99	0.08	0.03	0.08	0.01			1.85	0.0	25.3
7	0.28	0.97	0.07	0.03	0.08	0.01			1.90	0.0	25.3
8	0.27	1.03	0.05	0.03	0.08	0.01			1.95	0.0	25.0
9	0.29	1.00	0.06	0.03	0.07	0.01			1.75	0.0	25.2
10	0.28	1.04	0.06	0.03	0.06	0.02			1.90	0.0	25.0
11	0.36	1.10	0.07	0.03	0.06	0.01			1.90	0.0	25.6
12	0.34	1.04	0.03	0.03	0.06	0.01			1.85	0.0	25.6
13	0.33	1.03	0.07	0.03	0.07	0.01			1.75	0.8	25.5
14	0.31	1.04	0.06	0.03	0.07	0.01			1.75	0.0	25.2
15	0.31	1.00	0.08	0.03	0.07	0.01			1.75	0.0	25.0
16	0.33	1.00	0.07	0.03	0.09	0.02			1.80	0.0	24.0
17	0.33	1.04	0.06	0.03	0.07	0.01			1.85	0.0	24.0
18	0.32	0.93	0.03	0.03	0.07	0.01			1.75	0.0	23.5
19	0.38	0.93	0.04	0.04	0.09	0.02			1.85	0.1	23.1
20	0.33	0.99	0.06	0.03	0.09	0.02			1.75	0.3	22.8
21	0.37	1.00	0.08	0.03	0.08	0.01			1.75	0.0	23.0
22	0.40	1.00	0.09	0.03	0.11	0.03			1.70	0.7	22.6
23	0.39	1.01	0.08	0.03	0.11	0.01			1.40	0.0	22.3
24	0.41	1.02	0.07	0.03	0.09	0.01			1.80	0.0	22.2
25	0.26	0.97	0.06	0.03	0.09	0.01			1.90	0.0	21.6
26	0.28	0.99	0.08	0.03	0.09	0.01			1.90	0.1	20.6
27	0.30	1.05	0.05	0.03	0.11	0.01			1.85	0.0	21.7
28	0.31	0.88	0.05	0.03	0.11	0.01			1.85	0.0	21.5
29	0.29	0.95	0.05	0.03	0.10	0.04			1.90	0.0	21.5
30	0.22	1.04	0.05	0.03	0.05	0.01			1.90	0.0	21.7
31											
AVERAGE	0.31	0.99	0.06	0.03	0.08	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	23.9
									1.40		
									Number of readings	30	2.30
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N) N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID : A  
 REPORT MONTH/YEAR: 09/2013  
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DAY	FILTER OPERATION											
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:		
		AREA (square feet)	160	AREA (square feet)	FILT RUN HRS							
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS		
1	28,000						14,000	87.80	14,000	87.80		
2	0											
3	28,000	14,000	90.20	14,000	90.20							
4	0											
5	30,000					15,000.00	95.10	15,000	95.10			
6	0											
7	25,000	13,000	99.00	12,000	99.00							
8	0											
9	30,000					15,000	98.50	15,000	98.50			
10	0											
11	0											
12	30,000	15,000	115.80	15,000	115.80							
13	31,000					16,000	91.20	15,000	91.20			
14	0											
15	29,000	14,000	74.90	15,000	74.90							
16	0											
17	30,000					15,000	98.40	15,000	98.40			
18	0											
19	0											
20	27,000	15,000	98.70	12,000	98.70							
21	0											
22	29,000					15,000	97.10	14,000	97.10			
23	0											
24	27,000	15,000	89.60	12,000	89.60							
25	28,000					14,000	86.70	14,000	86.70			
26	0											
27	0											
28	30,000	15,000	94.50	15,000	94.50							
29	28,000					14,000	89.30	14,000	89.30			
30	0											
31	0											
TOTAL	430,000	101,000	662.70	95,000	662.70	118,000	744.10	116,000	744.10	0	0.00	
AVERAGE	13,871	14,429	94.671	13,571	94.671	14,750	93.013	14,500	93.013	#DIV/0!	#DIV/0!	

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 08/2013

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DAY	CHEMICALS ADDED			TEST RESULTS							
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
				NORTH		SOUTH		EAST		WEST	
				T	F	T	F	T	F	T	F
1	0.0			1.40	1.30	1.46	1.33	1.56	1.48	1.43	1.33
2	0.0			1.37	1.29	1.32	1.28	1.42	1.40	1.36	1.31
3	0.0			1.40	1.38	1.49	1.47	1.55	1.54	1.64	1.63
4	0.0			1.46	1.40	0.75	0.69	1.52	1.43	0.87	0.82
5	0.0			1.35	1.22	1.47	1.34	0.97	0.88	1.05	0.96
6	0.0			1.44	1.39	0.85	0.81	1.48	1.44	0.90	0.82
7	0.0			1.61	1.49	1.37	1.26	1.49	1.36	1.58	1.47
8	0.0			1.48	1.37	1.60	1.44	0.33	0.29	0.84	0.71
9	0.0			1.53	1.50	0.55	0.49	1.54	1.53	0.53	0.49
10	0.0			1.31	1.29	1.49	1.45	1.44	1.40	1.67	1.64
11	0.0			1.00	0.96	0.69	0.61	1.66	1.62	0.57	0.50
12	0.0			1.68	1.56	1.36	1.34	0.74	0.69	1.31	1.30
13	0.0			1.46	1.42	1.10	1.05	1.50	1.48	1.10	1.07
14	0.0			1.51	1.38	1.82	1.52	0.45	0.37	1.61	1.50
15	0.0			1.13	1.02	0.87	0.77	1.20	1.10	1.46	1.37
16	0.0			1.43	1.38	0.81	0.76	1.36	1.32	0.81	0.75
17	0.0			1.08	1.05	0.95	0.94	1.46	1.42	1.16	1.12
18	0.0			1.54	1.56	0.80	0.77	1.57	1.53	0.80	0.76
19	0.0			1.46	1.44	1.36	1.35	1.57	1.58	1.08	1.04
20	0.0			1.39	1.28	0.96	0.91	1.11	1.06	0.89	0.84
21	0.0			1.53	1.44	1.52	1.41	1.45	1.40	1.54	1.46
22	0.0			1.55	1.44	1.50	1.40	0.33	0.25	0.71	0.60
23	0.0			0.98	0.89	1.49	1.39	1.40	1.32	1.53	1.43
24	0.0			1.58	1.47	0.88	0.81	1.59	1.50	0.86	0.77
25	0.0			1.53	1.39	1.04	1.01	1.65	1.61	1.18	1.14
26	0.0			1.62	1.53	1.49	1.47	1.52	1.51	0.72	0.68
27	0.0			1.52	1.48	1.03	1.00	1.61	1.59	1.41	1.36
28	0.0			1.09	1.00	1.35	1.25	1.35	1.30	1.77	1.69
29	0.0			1.50	1.42	1.59	1.48	1.41	1.38	1.60	1.45
30	0.0			1.66	1.53	1.14	1.09	1.21	1.15	1.44	1.34
31	0.0										
AVERAGE	0.0	#DIV/0!	Average	1.42	1.34	1.20	1.13	1.31	1.26	1.18	1.11
TOTAL	0.0	0.0	Total Minimum	0.98		0.55		0.33		0.53	
			Free Minimum		0.89		0.49		0.25		0.49

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	0	0	0	0	3	0	0	0	0

Number of Free Residuals	120	Minimum Monthly Free Residual	0.25
Number of Total Residuals	120	Minimum Monthly Total Residual	0.33
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N)

N

Number of days of operation?

30

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 09/2013

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hour Plant Operated	Hourly Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	22.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
2	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
3	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.058	
4	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
5	24.0	6	0.06	0.06	0.07	0.05	0.05	0.07	0.073	
6	24.0	6	0.07	0.07	0.07	0.05	0.05	0.07	0.070	
7	24.0	6	0.07	0.07	0.06	0.05	0.05	0.06	0.070	
8	24.0	6	0.07	0.06	0.06	0.05	0.05	0.05	0.070	
9	24.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.060	
10	24.0	6	0.06	0.05	0.05	0.04	0.04	0.05	0.058	
11	24.0	6	0.05	0.05	0.05	0.04	0.04	0.06	0.055	
12	24.0	6	0.06	0.05	0.05	0.04	0.06	0.06	0.060	
13	23.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
14	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
15	24.0	6	0.06	0.06	0.06	0.04	0.05	0.05	0.060	
16	24.0	6	0.06	0.06	0.05	0.05	0.04	0.05	0.058	
17	24.0	6	0.05	0.06	0.09	0.05	0.05	0.05	0.092	
18	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.058	
19	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
20	24.0	6	0.05	0.06	0.06	0.05	0.04	0.05	0.058	
21	22.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
22	23.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.060	
23	20.0	5	0.06	0.06	0.05		0.05	0.05	0.060	
24	24.0	6	0.05	0.06	0.06	0.04	0.05	0.05	0.061	
25	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
26	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.054	
27	22.0	6	0.05	0.05	0.04	0.04	0.04	0.04	0.047	
28	23.0	6	0.04	0.05	0.05	0.04	0.04	0.04	0.049	
29	23.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.051	
30	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.047	
31	0.0	0							0.000	
<b>Total</b>	<b>706.0</b>	<b>179</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>179</b>	<b>0.092</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)  
 Number of samples exceeding ---> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Carl T. Adley 10-03-2013  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

09/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>56,480,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,882,667</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,977,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Number of hours of plant operation	<u>706.0</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>179</u>
Highest single turbidity reading	<u>0.09</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU	<u>0</u>
Number of samples exceeded 0.3 NTU	<u>0</u>
Number of samples exceeded 1 NTU	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU	<u>    </u>
Number of samples exceeded 5 NTU	<u>    </u>

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION	
APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0999</u>
Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded	<u>30</u>
Lowest single chlorine reading	<u>1.40</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Free Chlorine (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L	<u>0</u>
Total Chlorine (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L	<u>    </u>

CHLORINE DIOXIDE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>
Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>

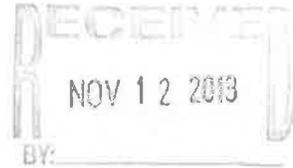
CHLORITE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorite reading	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

10-03-2013  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 10/2013

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	<u>KY0800273</u>	PLANT ID:	<u>A</u>	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS:	<u>3</u>	DIST. CLASS:	<u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>11-06-2013</u>		
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>		
	<u>Tug Fork</u>				
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>		
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>		
WTP SHIFT 3:	<u>Jerry L Belcher</u>	<u>1V-A</u>	<u>21719</u>		
DISTRIBUTION:					

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

11-06-2013  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 10/2013

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	LBS	PPM	Pre		Post	
1	1,825,000	23.0	204.1	13.4	4.0	0.3			508.9	33.4	194.6	12.8
2	1,786,000	23.0	189.5	12.7	4.0	0.3			485.5	32.6	169.7	11.4
3	1,756,000	23.0	189.5	12.9	4.0	0.3			442.5	30.2	175.0	11.9
4	1,878,000	24.0	197.8	12.6	4.2	0.3			481.8	30.8	178.7	11.4
5	1,887,000	24.0	197.8	12.6	4.2	0.3			476.4	30.3	158.4	10.1
6	1,806,000	23.0	189.5	12.6	4.0	0.3			458.8	30.5	158.6	10.5
7	1,806,000	23.0	189.5	12.6	4.0	0.3			458.8	30.5	153.2	10.2
8	1,784,000	23.0	189.5	12.7	4.0	0.3			458.8	30.8	158.1	10.6
9	1,781,000	23.0	189.5	12.8	4.0	0.3			458.8	30.9	167.8	11.3
10	1,800,000	24.0	197.8	13.2	4.2	0.3			476.4	31.7	174.4	11.6
11	1,838,000	24.0	197.8	12.9	4.2	0.3			487.3	31.8	167.7	10.9
12	1,816,000	24.0	197.8	13.1	4.2	0.3			508.1	33.5	173.5	11.5
13	1,853,000	24.0	197.8	12.8	4.2	0.3			520.3	33.7	177.3	11.5
14	1,816,000	24.0	197.8	13.1	4.2	0.3			488.8	32.3	175.5	11.6
15	1,851,000	24.0	197.8	12.8	4.2	0.3			527.2	34.2	183.1	11.9
16	1,810,000	23.0	189.5	12.6	4.0	0.3			521.0	34.5	183.1	12.1
17	1,843,000	24.0	197.8	12.9	4.2	0.3			520.9	33.9	183.1	11.9
18	1,808,000	23.0	189.5	12.6	4.0	0.3			510.3	33.8	175.5	11.6
19	1,854,000	24.0	197.8	12.8	4.2	0.3			520.5	33.7	183.1	11.8
20	1,773,000	23.0	189.5	12.8	4.0	0.3			479.5	32.4	153.2	10.4
21	1,845,000	24.0	197.8	12.9	4.2	0.3			536.2	34.6	184.7	10.7
22	1,797,000	23.0	189.5	12.6	4.0	0.3			480.6	32.1	148.4	9.9
23	1,750,000	23.0	189.5	13.0	4.0	0.3			464.6	31.8	153.2	10.5
24	1,733,000	23.0	189.5	13.1	4.0	0.3			451.1	31.2	146.5	10.1
25	1,811,000	24.0	197.8	13.1	4.2	0.3			487.8	32.3	159.8	10.6
26	1,784,000	23.0	189.5	12.7	4.0	0.3			487.5	32.8	153.2	10.3
27	1,675,000	22.0	181.3	13.0	3.9	0.3			465.6	33.3	146.5	10.5
28	1,789,000	24.0	197.8	13.3	4.2	0.3			459.0	30.8	158.0	10.6
29	1,746,000	23.0	189.5	13.0	4.0	0.3			472.8	32.5	153.2	10.5
30	1,811,000	24.0	197.8	13.1	4.2	0.3			469.6	31.1	159.8	10.6
31	1,752,000	23.0	189.5	13.0	4.0	0.3			460.4	31.5	153.2	10.5
TOTAL	55,864,000		5997.4		128.7		0.0		15025.8		5140.1	
AVERAGE	1,802,065		193.5	12.9	4.1	0.3	#DIV/0!	#DIV/0!	484.7	32.2	165.8	11.0
MAX	1,887,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 10/2013

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Point		LBS	PPM	LBS	PPM	LBS	PPM
1	703.5	46.2	58.4	3.8									7.5	0.5
2	655.2	44.0	58.4	3.9									6.5	0.4
3	617.5	42.2	58.4	4.0									7.0	0.5
4	660.5	42.2	60.9	3.9									7.0	0.4
5	634.8	40.3	60.9	3.9									7.0	0.4
6	617.4	41.0	58.4	3.9									7.0	0.5
7	612.0	40.6	58.4	3.9									8.0	0.4
8	616.9	41.5	58.4	3.9									6.5	0.4
9	626.6	42.2	58.4	3.9									6.5	0.4
10	650.8	43.4	60.9	4.1									7.5	0.5
11	655.0	42.7	60.9	4.0									8.0	0.5
12	681.6	45.0	60.9	4.0									8.5	0.6
13	697.6	45.1	60.9	3.9									8.0	0.5
14	664.3	43.9	60.9	4.0									9.5	0.6
15	710.3	46.0	60.9	3.9									11.0	0.7
16	704.1	46.6	58.4	3.9									10.0	0.7
17	704.0	45.8	60.9	4.0									10.0	0.7
18	685.8	45.5	58.4	3.9									10.0	0.7
19	703.6	45.5	60.9	3.9									10.0	0.6
20	632.7	42.8	58.4	3.9									10.0	0.7
21	700.9	45.8	60.9	4.0									10.5	0.7
22	629.0	42.0	58.4	3.9									10.0	0.7
23	617.8	42.3	58.4	4.0									9.5	0.7
24	597.6	41.3	58.4	4.0									12.0	0.8
25	647.6	42.9	60.9	4.0									10.0	0.7
26	640.7	43.1	58.4	3.9									10.5	0.7
27	612.1	43.8	55.9	4.0									13.5	1.0
28	617.0	41.4	60.9	4.1									11.0	0.7
29	626.0	43.0	58.4	4.0									10.0	0.7
30	629.4	41.7	60.9	4.0									11.0	0.7
31	613.6	42.0	58.4	4.0									5.0	0.3
TOTAL	20,165.9		1,842.9		0.0		0.0		0.0		0.0		278.5	
AVERAGE	650.5	43.3	59.4	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	8.9	0.6

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 10/2013

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	8.25	8.11	7.95	157	155	243	240	0.97	0.92	1.97	1.90	1.97	0.12	0.05
2	8.18	8.10	7.92	163	160	243	241	1.00	0.93	2.11	1.94	1.92	0.13	0.07
3	8.21	8.11	7.94	165	163	250	247	0.92	0.85	2.03	1.95	2.45	0.14	0.06
4	8.09	8.10	7.92	165	164	246	244	0.93	0.84	2.14	2.06	1.90	0.11	0.06
5	8.10	8.07	7.91	168	166	249	244	0.96	0.85	2.07	1.98	1.47	0.12	0.05
6	8.11	8.06	7.90	175	170	257	253	1.04	0.95	2.08	2.00	1.46	0.12	0.05
7	8.13	8.15	7.98	172	167	259	254	0.92	0.84	2.08	2.00	1.25	0.15	0.05
8	8.12	8.12	7.95	175	171	253	248	0.88	0.79	2.01	1.95	1.23	0.16	0.06
9	8.22	8.13	7.96	164	162	254	251	0.84	0.76	2.01	1.94	1.63	0.16	0.06
10	8.17	8.16	7.98	186	184	250	247	0.90	0.80	2.06	1.97	1.40	0.15	0.06
11	8.17	8.11	7.95	186	181	250	245	0.78	0.68	2.02	1.95	1.92	0.15	0.06
12	8.14	8.09	7.95	188	184	252	247	0.92	0.82	2.09	1.99	3.25	0.12	0.06
13	8.15	8.10	7.96	175	171	270	262	0.89	0.77	2.10	1.99	4.77	0.12	0.06
14	8.22	8.15	8.01	178	172	272	265	0.90	0.81	2.08	2.00	3.64	0.12	0.05
15	8.17	8.14	8.00	189	184	276	272	0.89	0.79	2.05	1.92	3.63	0.12	0.05
16	8.20	8.13	7.99	194	191	276	272	0.89	0.81	1.96	1.91	2.85	0.11	0.06
17	8.14	8.13	7.98	203	202	272	269	0.85	0.75	2.01	1.91	2.54	0.14	0.06
18	8.21	8.17	8.03	189	185	169	166	0.96	0.82	2.15	2.15	2.18	0.15	0.07
19	8.16	8.13	7.99	185	182	273	269	0.98	0.84	2.07	1.94	2.15	0.12	0.05
20	8.14	8.12	7.98	186	183	274	270	0.95	0.86	2.01	1.91	2.06	0.12	0.06
21	8.14	8.10	7.98	186	184	273	271	0.96	0.85	1.86	1.81	2.15	0.18	0.06
22	8.15	8.12	7.99	189	186	276	270	1.26	1.16	2.16	2.04	2.20	0.12	0.06
23	8.20	8.13	8.01	190	187	278	280	0.94	0.83	1.89	1.86	1.67	0.15	0.06
24	8.18	8.13	8.02	192	188	299	295	0.90	0.76	1.98	1.84	3.72	0.14	0.05
25	8.20	8.13	8.07	195	193	287	285	0.75	0.67	1.92	1.84	2.42	0.14	0.06
26	8.21	8.15	8.04	199	201	288	290	0.77	0.57	1.94	1.84	2.81	0.15	0.06
27	8.03	8.13	8.01	190	188	287	288	0.92	0.82	1.93	1.82	3.77	0.14	0.06
28	8.20	8.16	8.03	192	194	284	283	0.88	0.82	1.94	1.86	3.06	0.14	0.06
29	8.22	8.18	8.04	208	201	312	300	0.92	0.50	1.95	1.90	2.94	0.14	0.05
30	8.21	8.15	8.04	203	200	305	300	0.75	0.67	2.05	1.96	2.47	0.13	0.05
31	8.19	8.15	8.02	203	200	294	291	0.85	0.77	1.94	1.85	2.08	0.14	0.06
AVERAGE	8.2	8.1	8.0	184	181	267	263	0.91	0.80	2.02	1.93	2.42	0.14	0.06

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 10/2013

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	1.97		0.15	0.14						0.06	0.07	0.07	0.07		0.05
2	1.92		0.14	0.21						0.06	0.07	0.08	0.07		0.05
3	2.45		0.17	0.18						0.08	0.09	0.13	0.07		0.05
4	1.95		0.13	0.12						0.06	0.07	0.08	0.08		0.05
5	1.47		0.15	0.15						0.06	0.08	0.07	0.06		0.05
6	1.46		0.13	0.25						0.07	0.07	0.06	0.06		0.05
7	1.25		0.26	0.19						0.06	0.07	0.06	0.06		0.04
8	1.23		0.18	0.25						0.06	0.07	0.10	0.09		0.06
9	1.63		0.18	0.24						0.06	0.07	0.10	0.07		0.05
10	1.54		0.20	0.20						0.06	0.07	0.08	0.06		0.05
11	1.92		0.17	0.17						0.06	0.07	0.09	0.06		0.05
12	3.25		0.18	0.11						0.06	0.07	0.09	0.07		0.05
13	4.77		0.18	0.12						0.06	0.07	0.07	0.06		0.05
14	3.64		0.17	0.11						0.06	0.07	0.07	0.06		0.05
15	3.63		0.16	0.13						0.06	0.07	0.06	0.06		0.05
16	2.85		0.13	0.14						0.06	0.06	0.08	0.07		0.05
17	2.54		0.12	0.10						0.05	0.07	0.06	0.06		0.04
18	2.18		0.17	0.13						0.06	0.07	0.07	0.06		0.04
19	2.15		0.12	0.12						0.06	0.07	0.08	0.06		0.05
20	2.06		0.12	0.12						0.06	0.07	0.08	0.06		0.05
21	2.15		0.18	0.18						0.06	0.07	0.09	0.06		0.06
22	2.20		0.12	0.12						0.06	0.07	0.07	0.06		0.06
23	1.67		0.17	0.13						0.05	0.07	0.07	0.06		0.06
24	3.72		0.15	0.12						0.06	0.06	0.09	0.07		0.06
25	2.42		0.12	0.16						0.05	0.06	0.08	0.06		0.06
26	2.81		0.13	0.16						0.05	0.06	0.08	0.06		0.06
27	3.77		0.17	0.18						0.05	0.06	0.09	0.05		0.06
28	3.06		0.14	0.17						0.05	0.06	0.10	0.06		0.06
29	2.94		0.15	0.18						0.05	0.06	0.07	0.06		0.05
30	2.47		0.13	0.13						0.06	0.07	0.06	0.06		0.06
31	2.08		0.16	0.14						0.05	0.06	0.06	0.05		0.05
AVERAGE	2.4	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.07	0.08	0.06	#DIV/0!	0.05

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 10/2013

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F <sup>0</sup> /C <sup>0</sup>
1	0.33	1.00	0.05	0.03	0.07	0.01			1.85	0.0	21.4
2	0.35	1.03	0.07	0.03	0.08	0.01			1.90	0.0	21.6
3	0.31	1.06	0.04	0.03	0.08	0.01			1.95	0.0	21.8
4	0.39	1.00	0.06	0.03	0.06	0.01			1.80	0.2	21.9
5	0.35	1.11	0.06	0.03	0.10	0.01			1.80	0.0	22.0
6	0.35	1.12	0.05	0.03	0.06	0.01			1.75	0.0	22.0
7	0.35	1.06	0.05	0.03	0.06	0.07			1.85	0.2	22.3
8	0.34	1.08	0.06	0.03	0.06	0.01			1.50	0.0	22.1
9	0.34	1.13	0.03	0.03	0.08	0.01			1.85	0.0	21.7
10	0.39	1.15	0.06	0.03	0.09	0.01			1.75	0.0	21.2
11	0.40	1.03	0.06	0.03	0.11	0.01			1.75	0.0	20.8
12	0.39	1.01	0.05	0.03	0.18	0.01			1.80	0.0	20.7
13	0.31	1.03	0.12	0.03	0.13	0.01			1.80	0.0	20.4
14	0.32	1.00	0.11	0.03	0.13	0.01			1.85	0.0	20.5
15	0.34	1.03	0.10	0.03	0.11	0.01			1.90	0.0	20.4
16	0.32	1.05	0.10	0.03	0.10	0.01			1.50	0.0	20.5
17	0.30	0.95	0.06	0.03	0.09	0.01			1.85	0.2	20.4
18	0.42	1.19	0.05	0.03	0.08	0.01			1.80	0.2	20.1
19	0.36	0.90	0.05	0.03	0.11	0.01			1.90	0.0	19.8
20	0.41	1.05	0.05	0.03	0.10	0.01			1.90	0.1	19.0
21	0.40	1.04	0.03	0.03	0.09	0.01			1.85	0.0	18.5
22	0.43	1.05	0.07	0.03	0.09	0.01			1.85	0.1	17.9
23	0.36	1.06	0.08	0.03	0.07	0.01			1.90	0.1	17.6
24	0.38	0.96	0.09	0.05	0.10	0.02			1.85	0.3	16.5
25	0.32	0.93	0.07	0.03	0.09	0.01			1.80	0.1	16.1
26	0.45	1.08	0.09	0.03	0.09	0.01			1.85	0.0	15.3
27	0.42	1.13	0.11	0.03	0.09	0.01			1.80	0.0	14.9
28	0.41	1.13	0.10	0.03	0.09	0.01			1.95	0.0	14.3
29	0.31	0.85	0.15	0.03	0.11	0.01			1.85	0.1	14.6
30	0.45	1.20	0.11	0.03	0.08	0.01			1.85	0.5	18.0
31	0.39	1.05	0.11	0.03	0.08	0.01			1.80	0.2	14.4
AVERAGE	0.37	1.05	0.07	0.03	0.09	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	19.3

	1.50	
Number of readings	31	2.18
For Free Chlorine, # less than 0.2 mg/L	0	
For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N) N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID : A  
 REPORT MONTH/YEAR: 10/2013

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DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: <u>3</u>		No: <u>4</u>		No: <u>5</u>		No: <u>6</u>		No: <u>7</u>	
		AREA (square feet) 160									
	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	
1	30,000	15,000	89.10	15,000	89.10						
2	0										
3	30,000					15,000	96.40	15,000	96.40		
4	0										
5	0										
6	27,000	14,000	96.40	13,000	96.40						
7	0										
8	29,000					14,000	97.00	15,000	97.00		
9											
10	28,000	14,000	95.80	14,000	95.80						
11	0										
12	30,000					15,000	93.50	15,000	93.50		
13	0										
14	30,000	15,000	90.60	15,000	90.60						
15	0										
16	30,000					15,000	99.00	15,000	99.00		
17	0										
18	30,000	15,000	95.10	15,000	95.10						
19	0										
20	29,000					15,000	99.20	14,000	99.20		
21	0										
22	30,000	15,000	98.50	15,000	98.50						
23	0										
24	45,000					24,000	92.80	21,000	92.80		
25	0										
26	34,000	17,000	93.10	17,000	93.20						
27	0										
28	34,000					17,000	88.60	17,000	88.80		
29	0										
30	30,000	15,000	92.10	15,000	92.10						
31	0										
TOTAL	466,000	120,000	750.70	119,000	750.80	115,000	666.50	112,000	666.70	0	0.00
AVERAGE	15,533	15,000	93.838	14,875	93.850	16,429	95.214	16,000	95.243	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 10/2013

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DAY	DISTRIBUTION SYSTEM OPERATION										
	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER	CHLORINE BOOSTER	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
LBS	LBS	T	F	T	F	T	F	T	F		
1	0.0		1.56	1.56	0.89	0.88	1.62	1.62	0.88	0.84	
2	0.0		0.93	0.89	1.12	1.11	1.43	1.39	1.62	1.61	
3	0.0		1.33	1.30	1.36	1.33	1.66	1.66	1.17	1.15	
4	0.0		1.67	1.59	0.80	0.69	1.67	1.58	0.78	0.68	
5	0.0		1.57	1.49	1.45	1.40	1.61	1.53	1.10	1.01	
6	0.0		1.54	1.47	1.31	1.22	0.41	0.34	1.27	1.21	
7	0.0		1.34	1.31	0.95	0.90	1.46	1.43	0.86	0.92	
8	0.0		1.45	1.43	0.87	0.86	1.51	1.50	1.27	1.21	
9	0.0		1.12	1.08	0.82	0.79	1.61	1.59	1.58	1.55	
10	0.0		1.30	1.25	1.11	1.08	1.30	1.27	1.42	1.41	
11	0.0		1.33	1.30	0.92	0.87	1.56	1.54	0.92	0.88	
12	0.0		1.06	0.97	0.31	0.26	1.21	1.09	1.35	1.27	
13	0.0		1.06	1.00	0.44	0.31	0.91	0.81	1.55	1.49	
14	0.0		1.52	1.49	1.18	1.12	1.63	1.60	0.89	0.82	
15	0.0		1.47	1.40	1.05	1.00	1.62	1.59	1.66	1.60	
16	0.0		1.80	1.59	1.15	1.13	1.55	1.52	1.05	1.02	
17	0.0		1.36	1.31	1.63	1.60	1.64	1.61	1.57	1.54	
18	0.0		1.67	1.64	1.73	1.71	1.76	1.71	0.74	0.70	
19	0.0		1.57	1.49	1.65	1.53	0.63	0.56	0.78	0.66	
20	0.0		1.54	1.44	1.52	1.41	0.49	0.41	1.09	0.98	
21	0.0		1.31	1.24	0.69	0.59	1.63	1.52	1.40	1.35	
22	0.0		1.69	1.53	1.33	1.25	1.57	1.52	1.68	1.59	
23	0.0		1.03	1.00	1.11	1.08	1.14	1.10	0.90	0.86	
24	0.0		1.21	1.14	1.44	1.36	1.33	1.28	1.31	1.23	
25	0.0		1.47	1.46	1.43	1.42	1.70	1.66	0.63	0.58	
26	0.0		1.09	1.02	1.06	0.99	0.93	0.81	1.60	1.51	
27	0.0		0.85	0.79	1.54	1.49	1.33	1.25	1.65	1.54	
28	0.0		1.39	1.31	1.15	1.10	1.30	1.26	0.89	0.81	
29	0.0		1.56	1.52	1.21	1.15	1.59	1.55	1.03	0.96	
30	0.0		1.51	1.43	1.64	1.62	1.31	1.25	0.59	0.50	
31	0.0		1.38	1.29	1.08	1.03	1.40	1.35	1.31	1.25	
AVERAGE	0.0	#DIV/0!	Average	1.37	1.31	1.16	1.11	1.37	1.32	1.18	1.12
TOTAL	0.0	0.0	Total Minimum	0.85		0.31		0.41		0.59	
			Free Minimum		0.79		0.26		0.34		0.50

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	2	0	2	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.26
Number of Total Residuals	124	Minimum Monthly Total Residual	0.31
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 10/2013

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	23.0	6	0.05	0.05	0.05	0.04	0.04	0.04	0.046	
2	23.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.047	
3	23.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.046	
4	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.051	
5	24.0	6	0.05	0.05	0.04	0.04	0.04	0.04	0.050	
6	23.0	6	0.04	0.05	0.05	0.04	0.04	0.04	0.050	
7	23.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.044	
8	23.0	6	0.04	0.06	0.05	0.04	0.04	0.05	0.058	
9	23.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.050	
10	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.049	
11	24.0	6	0.05	0.05	0.05	0.04	0.05	0.05	0.050	
12	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
13	24.0	6	0.05	0.05	0.05	0.04	0.05	0.05	0.050	
14	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
15	24.0	6	0.05	0.05	0.04	0.04	0.04	0.04	0.045	
16	23.0	6	0.04	0.04	0.05	0.04	0.04	0.04	0.049	
17	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.044	
18	23.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.044	
19	24.0	6	0.04	0.04	0.05	0.04	0.04	0.05	0.053	
20	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
21	24.0	6	0.05	0.06	0.06	0.05	0.05	0.06	0.059	
22	23.0	6	0.06	0.06	0.06	0.06	0.05	0.06	0.062	
23	23.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.058	
24	23.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.063	
25	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.059	
26	23.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.062	
27	22.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
28	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
29	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
30	24.0	6	0.05	0.05	0.06	0.05	0.05	0.05	0.059	
31	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
<b>Total</b>	<b>726.0</b>	<b>186</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>186</b>	<b>0.063</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 0 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding ---> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Carol T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

11-06-2013  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

**10/2013**

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>55,864,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,802,065</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,887,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>726.0</u>	Number of days of plant operation	<u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>	Number of lowest chlorine samples recorded	<u>31</u>
Highest single turbidity reading	<u>0.06</u>	Lowest single chlorine reading	<u>1.50</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>0</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU	<u>0</u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.5 mg/L	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>		

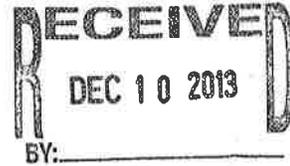
CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>	Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

11-06-2013  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

11/2013

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	12-06-2013	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley

12-05-2013

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE

12



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 11/2013

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,722,000	22.5	185.4	12.9	3.9	0.3			458.2	31.9	149.9	10.4
2	1,749,000	22.5	185.4	12.7	3.9	0.3			463.6	31.8	167.6	11.5
3	1,814,000	22.5	185.4	12.3	3.9	0.3			458.2	30.3	154.5	10.2
4	1,749,000	22.5	185.4	12.7	3.9	0.3			452.6	31.0	149.9	10.3
5	1,825,000	23.5	193.6	12.7	4.1	0.3			469.4	30.8	156.5	10.3
6	1,756,000	22.5	185.4	12.7	3.9	0.3			452.8	30.9	149.8	10.2
7	1,758,000	22.5	185.4	12.6	3.9	0.3			452.6	30.9	143.7	9.8
8	1,733,000	22.0	181.3	12.5	3.9	0.3			444.4	30.7	146.5	10.1
9	1,763,000	22.5	185.4	12.6	3.9	0.3			457.4	31.1	152.3	10.4
10	1,736,000	22.5	185.4	12.8	3.9	0.3			452.8	31.3	143.0	9.9
11	1,751,000	22.0	181.3	12.4	3.9	0.3			428.2	29.3	146.5	10.0
12	1,786,000	22.5	185.4	12.4	3.9	0.3			414.0	27.8	150.6	10.1
13	1,666,000	21.0	173.0	12.5	3.7	0.3			401.7	28.9	139.9	10.1
14	1,912,000	24.0	197.8	12.4	4.2	0.3			412.1	25.8	145.9	9.1
15	1,805,000	22.5	185.4	12.3	3.9	0.3			360.0	23.9	131.3	8.7
16	1,852,000	23.0	189.5	12.3	4.0	0.3			370.8	24.0	141.5	9.2
17	1,807,000	22.5	185.4	12.3	3.9	0.3			362.4	24.0	144.0	9.6
18	1,767,000	22.0	181.3	12.3	3.9	0.3			364.4	24.7	143.0	9.7
19	1,821,000	22.0	181.3	11.9	3.9	0.3			374.1	24.6	149.0	9.8
20	1,793,000	22.0	181.3	12.1	3.9	0.3			373.7	25.0	146.5	9.8
21	1,850,000	23.0	189.5	12.3	4.0	0.3			368.0	23.9	153.2	9.9
22	1,752,000	22.5	185.4	12.7	3.9	0.3			362.4	24.8	156.2	10.7
23	1,844,000	22.5	185.4	12.1	3.9	0.3			378.2	24.6	167.9	10.9
24	1,834,000	22.5	185.4	12.1	3.9	0.3			378.2	24.7	160.9	10.5
25	1,845,000	22.5	185.4	12.0	3.9	0.3			383.0	24.9	133.8	8.7
26	1,976,000	24.0	197.8	12.0	4.2	0.3			382.0	23.2	159.9	9.7
27	1,930,000	24.0	197.8	12.3	4.2	0.3			382.0	23.7	159.9	9.9
28	1,860,000	22.5	185.4	12.0	3.9	0.3			360.8	23.3	149.9	9.7
29	1,938,000	23.5	193.6	12.0	4.1	0.3			357.8	22.1	156.5	9.7
30	1,984,000	24.0	197.8	12.0	4.2	0.3			366.6	22.2	155.3	9.4
31												
TOTAL	54,378,000		5603.4		118.6		0.0		12142.4		4505.3	
AVERAGE	1,812,600		186.8	12.4	4.0	0.3	#DIV/0!	#DIV/0!	404.7	26.9	150.2	9.9
MAX	1,984,000											

NUMBER DAYS IN OPERATION

30



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 11/2013

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	8.18	8.17	8.02	210	200	311	302	0.74	0.69	1.86	1.84	2.68	0.14	0.06
2	8.17	8.14	8.01	220	210	291	309	0.79	0.74	1.93	1.88	2.34	0.11	0.05
3	8.17	8.14	8.02	214	210	303	301	0.89	0.80	2.03	1.94	2.17	0.13	0.06
4	8.15	8.15	8.01	215	204	302	300	0.86	0.80	1.92	1.87	1.89	0.16	0.06
5	8.15	8.14	8.00	195	192	296	286	0.79	0.71	1.94	1.88	2.42	0.16	0.06
6	8.15	8.11	7.98	190	188	290	287	0.84	0.79	1.96	1.80	1.76	0.14	0.05
7	8.15	8.10	7.98	188	186	312	296	0.86	0.78	2.03	1.97	1.76	0.15	0.06
8	8.15	8.13	7.99	191	188	290	285	0.80	0.73	1.94	1.88	1.71	0.15	0.06
9	8.15	8.12	7.98	185	179	296	283	0.84	0.79	2.04	1.97	1.73	0.15	0.06
10	8.16	8.12	7.98	183	179	287	276	0.91	0.83	2.04	1.98	1.64	0.14	0.06
11	8.19	8.16	8.03	183	178	308	291	0.91	0.84	2.01	1.94	1.61	0.17	0.06
12	8.19	8.18	8.02	190	185	308	303	0.85	0.78	1.96	1.90	1.75	0.15	0.05
13	8.21	8.16	8.03	185	182	285	280	0.87	0.80	2.13	2.07	1.22	0.16	0.06
14	8.21	8.18	8.05	193	190	289	284	0.89	0.81	1.98	1.90	1.33	0.14	0.06
15	8.25	8.20	8.06	194	191	309	301	0.82	0.75	1.93	1.86	1.63	0.17	0.06
16	8.22	8.18	8.03	188	183	310	300	0.85	0.78	1.94	1.89	1.51	0.15	0.06
17	8.23	8.17	8.04	186	181	312	304	0.93	0.86	1.99	1.92	1.56	0.16	0.06
18	8.26	8.19	8.05	184	181	315	308	0.83	0.77	1.93	1.88	1.54	0.16	0.06
19	8.22	8.17	8.04	184	181	310	305	0.81	0.74	1.92	1.85	1.66	0.17	0.06
20	8.22	8.17	8.05	195	192	295	293	0.83	0.75	1.94	1.86	1.83	0.16	0.05
21	8.20	8.18	8.05	190	188	295	293	0.77	0.69	1.93	1.85	2.05	0.16	0.05
22	8.25	8.20	8.05	195	190	306	301	0.73	0.68	1.87	1.82	2.02	0.17	0.05
23	8.21	8.17	8.02	183	179	309	304	0.71	0.66	1.93	1.89	1.82	0.16	0.05
24	8.21	8.17	8.03	200	194	283	279	0.72	0.66	1.93	1.86	1.85	0.16	0.05
25	8.24	8.19	8.05	187	182	301	293	0.83	0.78	1.91	1.85	1.82	0.19	0.06
26	8.24	8.22	8.06	181	177	306	301	0.84	0.78	1.50	1.90	1.82	0.19	0.06
27	8.24	8.19	8.03	180	183	283	280	0.50	0.68	1.87	1.79	2.82	0.25	0.07
28	8.23	8.17	8.03	183	183	288	285	0.93	0.87	1.95	1.89	3.32	0.19	0.06
29	8.22	8.16	8.00	181	178	285	281	0.93	0.87	1.94	1.89	4.82	0.21	0.06
30	8.19	8.12	7.97	178	176	280	276	0.96	0.89	1.96	1.88	5.85	0.21	0.06
31														
AVERAGE	8.2	8.2	8.0	191	187	299	293	0.83	0.77	1.94	1.89	2.13	0.16	0.06

**OPTIONAL INFORMATION-Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 11/2013

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	2.68		0.24	0.16						0.05	0.06	0.13	0.12		0.08
2	2.34		0.11	0.13						0.05	0.06	0.07	0.05		0.05
3	2.17		0.19	0.15						0.06	0.06	0.08	0.05		0.06
4	1.89		0.16	0.19						0.05	0.06	0.10	0.06		0.07
5	2.42		0.17	0.21						0.05	0.06	0.09	0.07		0.07
6	1.76		0.12	0.13						0.05	0.06	0.08	0.06		0.06
7	1.76		0.29	0.25						0.09	0.11	0.08	0.06		0.07
8	1.71		0.18	0.17						0.05	0.06	0.07	0.05		0.06
9	1.73		0.15	0.32						0.05	0.06	0.10	0.07		0.06
10	1.64		0.16	0.15						0.05	0.07	0.07	0.06		0.05
11	1.61		0.34	0.21						0.07	0.09	0.08	0.06		0.06
12	1.75		0.16	0.19						0.06	0.07	0.08	0.06		0.05
13	1.22		0.26	0.18						0.05	0.07	0.07	0.06		0.05
14	1.33		0.15	0.15						0.05	0.07	0.07	0.07		0.05
15	1.63		0.24	0.19						0.07	0.08	0.09	0.09		0.05
16	1.51		0.16	0.16						0.06	0.07	0.09	0.06		0.05
17	1.56		0.18	0.18						0.06	0.07	0.09	0.08		0.06
18	1.54		0.15	0.18						0.05	0.07	0.07	0.07		0.05
19	1.66		0.23	0.19						0.07	0.07	0.07	0.06		0.05
20	1.83		0.19	0.17						0.05	0.06	0.06	0.06		0.04
21	2.05		0.17	0.22						0.05	0.06	0.08	0.07		0.05
22	2.02		0.24	0.18						0.05	0.06	0.07	0.06		0.04
23	1.82		0.19	0.18						0.06	0.07	0.06	0.06		0.05
24	1.85		0.18	0.20						0.05	0.06	0.06	0.06		0.04
25	1.82		0.18	0.32						0.05	0.06	0.10	0.08		0.05
26	1.82		0.20	0.24						0.05	0.06	0.09	0.06		0.05
27	2.82		0.32	0.32						0.06	0.09	0.12	0.06		0.06
28	3.32		0.23	0.20						0.05	0.06	0.09	0.06		0.05
29	4.82		0.23	0.25						0.05	0.06	0.10	0.08		0.05
30	5.85		0.25	0.23						0.05	0.06	0.08	0.06		0.04
31															
AVERAGE	2.1	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.07	0.08	0.07	#DIV/0!	0.05

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 11/2013

APPLICABLE TO ALL PLANTS

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)									RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL		
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.33	0.99	0.12	0.03	0.07	0.01			1.80	0.3	14.9
2	0.40	1.20	0.10	0.03	0.08	0.02			1.85	0.0	15.2
3	0.41	1.05	0.08	0.03	0.09	0.01			1.70	0.0	14.6
4	0.48	0.96	0.16	0.03	0.08	0.01			1.90	0.0	14.9
5	0.36	0.97	0.13	0.03	0.08	0.02			1.75	0.0	14.1
6	0.39	1.07	0.09	0.03	0.09	0.01			1.85	0.0	14.4
7	0.12	0.88	0.09	0.03	0.08	0.02			1.95	0.6	14.3
8	0.36	0.89	0.07	0.03	0.08	0.01			1.80	0.1	14.9
9	0.44	0.96	0.04	0.03	0.09	0.01			1.85	0.0	14.7
10	0.38	1.09	0.10	0.03	0.09	0.02			1.85	0.0	13.7
11	0.38	0.98	0.10	0.03	0.08	0.04			1.75	0.0	13.6
12	0.37	0.95	0.11	0.03	0.05	0.01			1.85	0.1	12.8
13	0.42	0.85	0.06	0.03	0.06	0.03			1.70	0.1	11.4
14	0.40	0.98	0.09	0.03	0.07	0.02			1.80	0.0	10.9
15	0.46	1.01	0.12	0.03	0.06	0.03			1.80	0.0	11.1
16	0.45	0.98	0.13	0.03	0.04	0.01			1.85	0.1	10.3
17	0.41	1.00	0.14	0.03	0.05	0.01			1.75	0.0	10.1
18	0.34	1.00	0.14	0.03	0.06	0.01			1.75	0.4	11.4
19	0.36	0.89	0.11	0.04	0.06	0.01			1.65	0.0	11.6
20	0.40	0.96	0.15	0.03	0.08	0.04			1.75	0.0	10.1
21	0.30	0.95	0.14	0.03	0.08	0.02			1.65	0.0	10.2
22	0.37	0.91	0.13	0.03	0.11	0.02			1.70	0.5	11.2
23	0.29	0.78	0.11	0.03	0.05	0.01			1.75	0.4	11.2
24	0.47	1.01	0.09	0.03	0.06	0.01			1.85	0.0	10.4
25	0.43	0.99	0.10	0.03	0.07	0.04			1.80	0.0	11.2
26	0.29	0.90	0.12	0.03	0.05	0.01			1.90	0.2	10.2
27	0.33	0.92	0.13	0.03	0.07	0.02			1.75	1.1	8.6
28	0.38	1.03	0.06	0.03	0.06	0.03			1.85	0.0	8.8
29	0.21	0.84	0.06	0.03	0.08	0.03			1.75	0.0	8.9
30	0.23	1.00	0.07	0.03	0.09	0.03			1.85	0.0	8.0
31											
AVERAGE	0.37	0.97	0.10	0.03	0.07	0.02	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	11.9

	1.65
Number of readings	30
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N) N

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 11/2013

PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER	No: 3		No: 4		No: 5		No: 6		No: 6	
	GALLONS	AREA (square feet)	FILT RUN HRS								
1	28,000					14,000	90.60	14,000	90.80		
2	0										
3	29,000	14,000	86.80	15,000	86.90						
4	0										
5	32,000					17,000.00	87.60	15,000	87.60		
6	0										
7	30,000	15,000	92.10	15,000	92.10						
8	0										
9	28,000					14,000	90.00	14,000	90.00		
10	0										
11	27,000	14,000	88.00	13,000	88.00						
12	0										
13	28,000					14,000	92.60	14,000	92.60		
14	0										
15	26,000	13,000	89.10	13,000	89.00						
16	0										
17	30,000					16,000	86.30	14,000	86.30		
18	0										
19	24,000	12,000	89.20	12,000	89.20						
20	0										
21	30,000					15,000	92.20	15,000	92.20		
22	0										
23	24,000	12,000	88.00	12,000	88.10						
24	0										
25	25,000					12,000	84.80	13,000	84.80		
26	0										
27	28,000	14,000	94.90	14,000	94.90						
28	0										
29	25,000					13,000	92.60	12,000	92.60		
30	0										
31	0										
TOTAL	414,000	94,000	628.10	94,000	628.20	115,000	716.70	111,000	716.90	0	0.00
AVERAGE	13,355	13,429	89.729	13,429	89.743	14,375	89.588	13,875	89.613	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 11/2013

ALL WATER SYSTEMS

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1	0.0		1.40	1.31	0.91	0.87	1.38	1.29	0.99	0.89	
2	0.0		1.47	1.44	1.44	1.36	0.81	0.76	0.94	0.89	
3	0.0		1.49	1.43	1.51	1.46	0.82	0.54	0.82	0.75	
4	0.0		1.18	1.02	1.43	1.39	1.59	1.57	1.29	1.22	
5	0.0		1.60	1.54	1.37	1.28	1.14	1.06	1.39	1.28	
6	0.0		0.97	0.87	1.09	1.03	1.58	1.49	1.06	0.97	
7	0.0		1.39	1.32	1.38	1.32	0.93	0.86	1.42	1.34	
8	0.0		1.16	1.09	0.96	0.89	1.59	1.50	1.01	0.93	
9	0.0		1.57	1.49	1.67	1.60	0.47	0.37	0.93	0.84	
10	0.0		1.51	1.43	1.57	1.56	0.47	0.42	0.72	0.62	
11	0.0		1.40	1.33	1.53	1.47	1.44	1.38	1.42	1.37	
12	0.0		1.41	1.36	1.43	1.27	1.60	1.57	1.04	0.96	
13	0.0		0.94	0.81	1.34	1.31	1.49	1.42	1.05	0.96	
14	0.0		1.21	1.13	1.21	1.19	1.55	1.47	1.48	1.39	
15	0.0		1.40	1.28	1.07	1.01	1.52	1.46	1.06	0.99	
16	0.0		1.36	1.30	1.46	1.38	0.99	0.94	0.86	0.80	
17	0.0		1.07	1.05	1.56	1.49	0.98	0.87	0.45	0.38	
18	0.0		1.49	1.39	0.81	0.52	1.54	1.42	1.64	1.53	
19	0.0		0.88	0.79	1.14	1.06	1.40	1.31	1.01	0.92	
20	0.0		1.40	1.23	1.43	1.35	1.62	1.58	1.61	1.52	
21	0.0		1.62	1.47	1.66	1.56	1.64	1.55	1.62	1.53	
22	0.0		0.76	0.63	0.44	0.39	1.29	1.24	0.90	0.78	
23	0.0		0.68	0.65	1.05	1.00	1.26	1.21	1.44	1.38	
24	0.0		1.42	1.37	1.60	1.57	1.21	1.15	1.56	1.50	
25	0.0		1.47	1.39	0.94	0.84	1.50	1.43	1.01	0.86	
26	0.0		1.38	1.29	1.27	1.15	1.45	1.36	1.56	1.52	
27	0.0		1.49	1.40	1.42	1.29	1.17	1.12	1.60	1.55	
28	0.0		1.52	1.44	1.55	1.46	1.42	1.28	0.97	0.88	
29	0.0		1.51	1.42	1.60	1.49	1.04	0.92	1.48	1.40	
30	0.0		1.53	1.49	1.53	1.46	0.98	0.91	1.13	1.08	
31	0.0										
AVERAGE	0.0	#DIV/0!	Average	1.32	1.24	1.31	1.23	1.26	1.18	1.18	1.10
TOTAL	0.0	0.0	Total Minimum	0.68		0.44		0.47		0.45	
			Free Minimum		0.63		0.39		0.37		0.38

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	0	0	1	0	2	0	1	0	0

Number of Free Residuals	120
Number of Total Residuals	120
Total # Less than 0.2 mg/L	0
Total # Less than 0.5 mg/L	

Minimum Monthly Free Residual: 0.37  
 Minimum Monthly Total Residual: 0.44

Disinfectant Chloramines? (Y/N)  
 Number of days of operation?

N  
 30

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 11/2013

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 1 am	1 am - 5 am	5 am - Noon	Noon - 4 pm	4 pm - 8 am	8 pm - Mid	Daily Maximum	
1	22.5	6	0.05	0.08	0.06	0.05	0.05	0.06	0.079	
2	22.5	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
3	22.5	6	0.05	0.06	0.08	0.05	0.05	0.06	0.060	
4	22.5	6	0.06	0.06	0.06	0.06	0.06	0.07	0.065	
5	23.5	6	0.07	0.06	0.06	0.06	0.06	0.06	0.065	
6	22.5	6	0.06	0.06	0.06	0.05	0.06	0.06	0.058	
7	22.5	6	0.06	0.07	0.06	0.05	0.05	0.06	0.072	
8	22.0	6	0.05	0.05	0.06	0.05	0.06	0.06	0.057	
9	22.5	6	0.06	0.06	0.05	0.05	0.05	0.05	0.060	
10	22.5	6	0.05	0.05	0.05	0.04	0.05	0.05	0.050	
11	22.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.060	
12	22.5	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
13	21.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
14	24.0	6	0.05	0.05	0.05	0.04	0.05	0.05	0.050	
15	22.5	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
16	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
17	22.5	6	0.06	0.06	0.05	0.05	0.05	0.05	0.060	
18	22.0	6	0.05	0.05	0.05	0.04	0.04	0.04	0.048	
19	22.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.049	
20	22.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.042	
21	23.0	6	0.04	0.04	0.05	0.04	0.04	0.04	0.050	
22	22.5	6	0.04	0.04	0.04	0.04	0.04	0.04	0.041	
23	22.5	6	0.04	0.05	0.04	0.04	0.04	0.04	0.050	
24	22.5	6	0.04	0.04	0.04	0.04	0.04	0.04	0.040	
25	22.5	6	0.04	0.05	0.05	0.04	0.05	0.05	0.049	
26	24.0	6	0.05	0.05	0.04	0.04	0.04	0.05	0.046	
27	24.0	6	0.05	0.05	0.06	0.05	0.05	0.05	0.060	
28	22.5	6	0.05	0.05	0.05	0.04	0.04	0.04	0.050	
29	23.5	6	0.04	0.05	0.05	0.04	0.04	0.04	0.050	
30	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.042	
31	0.0	0							0.000	
<b>Total</b>	<b>680.0</b>	<b>180</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>180</b>	<b>0.079</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 0 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding ---> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Evelyn T. Alley 12-05-2013  
 Signature of Principal Executive Officer of Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID KY0800273

MONITORING PERIOD (MMYYYY) 11/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>54,378,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,812,600</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,984,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>680.0</u>		Number of days of plant operation <u>30</u>	
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken <u>180</u>		Number of lowest chlorine samples recorded <u>30</u>	
Highest single turbidity reading <u>0.08</u>		Lowest single chlorine reading <u>1.65</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>0</u>		Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU <u>0</u>		<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.5 mg/L <u>0</u>	
Number of samples exceeded 5 NTU <u>0</u>			

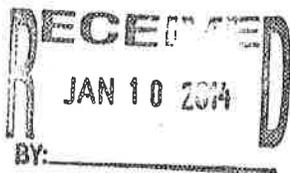
CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>30</u>		Number of days of plant operation <u>30</u>	
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Evel T. Allmy  
Signature of Principal Executive Officer or Authorized Agent

12-05-2013  
Date





KENTUCKY DIVISION OF WATER

Revised 01/04/07

DRINKING WATER BRANCH

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

12/2013

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	KY0800273	PLANT ID:	A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS:	3	DIST. CLASS:	2
AGENCY INTEREST (AI):	2987	DATE MAILED:	01-08-2014		
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin		
	Tug Fork				
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	Earl T Alley	1V-A	17562		
WTP SHIFT 2:	Michael Sartin	1V-A	21944		
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719		
DISTRIBUTION:					

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.7
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

01-07-2014  
DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 12/2013

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,932,000	23.5	193.7	12.0	4.1	0.3			352.0	21.8	113.5	7.0
2	1,955,000	24.0	197.8	12.1	4.2	0.3			302.2	18.5	150.5	9.2
3	1,923,000	23.5	193.7	12.1	4.1	0.3			298.4	18.6	126.7	7.9
4	1,948,000	24.0	197.8	12.2	4.2	0.3			297.6	18.3	129.4	8.0
5	1,910,000	23.0	189.6	11.9	4.0	0.3			271.8	17.1	153.2	9.6
6	1,975,000	24.0	265.1	16.1	4.2	0.3			268.8	16.3	159.8	9.7
7	1,975,000	24.0	265.1	16.1	4.2	0.3			268.8	16.3	159.8	9.7
8	1,920,000	23.0	254.2	15.9	4.0	0.2			257.6	16.1	153.2	9.6
9	1,956,000	23.5	259.7	15.9	4.1	0.3			283.2	16.1	156.5	9.6
10	1,976,000	24.0	312.5	19.0	4.2	0.3			268.8	16.3	159.8	9.7
11	1,886,000	24.0	312.5	19.9	4.2	0.3			272.6	17.3	159.8	10.2
12	1,938,000	24.0	312.5	19.3	4.2	0.3			278.2	17.2	159.8	9.9
13	1,940,000	24.0	312.5	19.3	4.2	0.3			280.6	17.3	159.8	9.9
14	1,955,000	24.0	312.5	19.2	4.2	0.3			278.2	17.1	159.8	9.8
15	1,905,000	24.0	312.5	19.7	4.2	0.3			275.0	17.3	159.8	10.1
16	1,945,000	24.0	312.5	19.3	4.2	0.3			276.3	17.0	159.8	9.9
17	1,902,000	23.5	306.0	19.3	4.1	0.3			263.2	16.6	156.5	9.9
18	1,915,000	24.0	312.5	19.6	4.2	0.3			283.0	17.7	159.8	10.0
19	1,870,000	24.0	312.5	20.0	4.2	0.3			283.0	18.1	159.8	10.2
20	1,910,000	24.0	312.5	19.6	4.2	0.3			277.2	17.4	159.8	10.0
21	1,916,000	24.0	312.5	19.6	4.2	0.3			283.0	17.7	159.8	10.0
22	1,886,000	23.0	299.5	19.0	4.0	0.3			257.6	16.4	153.2	9.7
23	1,911,000	23.5	352.3	22.1	4.1	0.3			275.0	17.3	179.3	11.3
24	1,932,000	24.0	359.9	22.3	4.2	0.3			277.2	17.2	183.1	11.4
25	1,863,000	24.0	359.9	23.2	4.2	0.3			297.8	19.2	183.1	11.8
26	1,930,000	24.0	359.9	22.4	4.2	0.3			325.8	20.2	169.1	10.5
27	1,896,000	24.0	359.9	22.8	4.2	0.3			329.0	20.8	159.8	10.1
28	1,921,000	24.0	359.9	22.5	4.2	0.3			329.0	20.5	159.8	10.0
29	1,903,000	24.0	359.9	22.7	4.2	0.3			323.2	20.4	159.8	10.1
30	1,951,000	24.0	359.9	22.1	4.2	0.3			309.2	19.0	159.8	9.8
31	1,906,000	23.5	352.3	22.2	4.1	0.3			319.4	20.1	156.5	9.8
TOTAL	59,649,000		9283.5		129.0		0.0		8942.7		4880.4	
AVERAGE	1,924,161		299.5	18.7	4.2	0.3	#DIV/0!	#DIV/0!	288.5	18.0	157.4	9.8
MAX	1,976,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 12/2013

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
							TOTAL	FREE	TOTAL	FREE					
1	8.19	8.13	7.98	175	171	292	288	1.08	0.99	1.97	1.88	5.50	0.19	0.06	
2	8.17	8.12	7.98	175	171	290	287	0.87	0.92	1.93	1.86	4.62	0.19	0.06	
3	8.18	8.13	8.00	175	169	295	292	0.90	0.87	1.78	1.69	4.05	0.18	0.06	
4	8.15	8.10	7.96	177	174	278	272	0.75	0.67	1.96	1.87	3.72	0.17	0.06	
5	8.14	8.08	7.96	185	183	273	268	0.72	0.63	1.95	1.87	3.46	0.18	0.06	
6	8.14	8.09	7.97	174	170	287	281	0.76	0.70	1.93	1.85	3.26	0.17	0.06	
7	8.11	8.05	7.90	174	169	286	281	0.73	0.67	1.93	1.87	3.44	0.14	0.05	
8	8.09	8.01	7.90	175	172	278	274	0.68	0.61	1.89	1.80	5.25	0.17	0.06	
9	8.12	8.01	7.90	165	161	250	246	0.78	0.72	2.01	1.92	6.69	0.19	0.06	
10	8.05	7.99	7.83	157	154	266	259	0.81	0.78	1.92	1.82	7.71	0.18	0.05	
11	8.06	8.01	7.88	168	162	250	247	0.82	0.73	1.95	1.91	7.44	0.18	0.06	
12	8.00	7.96	7.82	168	165	250	246	0.68	0.61	1.96	1.87	7.85	0.18	0.05	
13	7.97	7.93	7.78	166	158	254	244	0.63	0.56	1.92	1.86	7.98	0.18	0.05	
14	7.96	7.87	7.75	170	167	258	255	0.66	0.58	1.96	1.88	7.96	0.15	0.05	
15	7.93	7.83	7.72	161	155	254	248	0.69	0.61	1.96	1.88	8.87	0.15	0.06	
16	7.91	7.84	7.72	159	155	251	245	0.68	0.61	1.91	1.83	8.61	0.15	0.05	
17	7.88	7.87	7.72	154	148	249	243	0.67	0.61	1.99	1.91	7.93	0.17	0.05	
18	7.88	7.84	7.72	151	146	225	221	0.64	0.55	2.03	1.97	7.88	0.14	0.06	
19	7.85	7.86	7.72	151	146	230	224	0.67	0.60	1.92	1.87	7.87	0.16	0.05	
20	7.87	7.85	7.73	145	140	235	229	0.61	0.55	1.96	1.89	8.01	0.16	0.05	
21	7.90	7.80	7.68	140	137	224	220	0.62	0.53	1.98	1.91	7.85	0.14	0.05	
22	7.86	7.76	7.65	143	139	225	220	0.60	0.52	1.89	1.82	8.12	0.17	0.06	
23	7.74	7.69	7.61	114	111	215	210	0.58	0.52	1.89	1.82	13.40	0.26	0.05	
24	7.73	7.66	7.57	112	108	206	200	0.68	0.63	1.95	1.87	13.90	0.18	0.06	
25	7.64	7.58	7.52	114	109	180	178	0.50	0.42	1.93	1.82	15.30	0.16	0.06	
26	7.65	7.60	7.49	100	96	115	112	0.69	0.61	1.98	1.88	17.40	0.19	0.06	
27	7.67	7.59	7.46	97	92	165	161	0.72	0.66	1.99	1.92	17.00	0.17	0.05	
28	7.61	7.54	7.43	76	72	158	155	0.71	0.64	2.03	1.95	19.80	0.16	0.05	
29	7.59	7.52	7.41	106	103	152	148	0.74	0.65	2.00	1.94	19.80	0.17	0.06	
30	7.60	7.48	7.37	78	73	139	134	0.70	0.64	1.91	1.84	18.70	0.17	0.05	
31	7.57	7.47	7.36	68	64	142	137	0.78	0.73	1.97	1.88	18.50	0.16	0.05	
AVERAGE	7.9	7.8	7.7	144	140	231	227	0.71	0.65	1.95	1.87	9.61	0.17	0.05	

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 12/2013

COPY PAGE AS NEEDED

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT						INDIVIDUAL FILTER EFFLUENT							CFE DAILY MAXIMUM
		DAILY MAXIMUM						DAILY MAXIMUM							
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	5.50		0.29	0.19						0.06	0.07	0.10	0.06		0.05
2	4.62		0.23	0.19						0.05	0.07	0.09	0.06		0.05
3	4.05		0.28	0.20						0.05	0.07	0.10	0.07		0.09
4	3.72		0.19	0.18						0.05	0.06	0.08	0.06		0.04
5	3.46		0.27	0.19						0.06	0.07	0.11	0.06		0.06
6	3.26		0.23	0.23						0.05	0.06	0.10	0.06		0.06
7	3.44		0.18	0.14						0.04	0.06	0.08	0.06		0.05
8	5.25		0.25	0.23						0.04	0.06	0.07	0.06		0.05
9	6.69		0.24	0.19						0.05	0.07	0.08	0.06		0.05
10	7.71		0.22	0.17						0.05	0.06	0.08	0.06		0.06
11	7.44		0.19	0.18						0.05	0.06	0.09	0.07		0.05
12	7.85		0.21	0.20						0.05	0.06	0.08	0.06		0.06
13	7.98		0.24	0.26						0.06	0.07	0.10	0.07		0.06
14	7.96		0.18	0.16						0.05	0.06	0.09	0.06		0.06
15	8.87		0.16	0.15						0.05	0.06	0.09	0.07		0.06
16	8.61		0.17	0.16						0.05	0.06	0.07	0.06		0.05
17	7.88		0.19	0.19						0.05	0.07	0.08	0.05		0.05
18	7.88		0.17	0.18						0.05	0.06	0.07	0.05		0.05
19	7.85		0.17	0.19						0.05	0.06	0.09	0.07		0.06
20	8.01		0.18	0.17						0.05	0.06	0.07	0.06		0.05
21	7.85		0.17	0.16						0.06	0.07	0.08	0.05		0.05
22	8.12		0.24	0.19						0.05	0.06	0.08	0.05		0.06
23	13.40		0.28	0.24						0.05	0.06	0.10	0.07		0.07
24	13.90		0.24	0.20						0.05	0.06	0.10	0.06		0.06
25	15.30		0.23	0.19						0.07	0.07	0.10	0.06		0.07
26	17.40		0.22	0.20						0.05	0.07	0.10	0.06		0.06
27	17.00		0.20	0.18						0.05	0.06	0.16	0.06		0.07
28	19.80		0.20	0.16						0.05	0.06	0.08	0.05		0.06
29	19.80		0.21	0.17						0.05	0.07	0.08	0.06		0.06
30	18.70		0.19	0.17						0.05	0.06	0.08	0.05		0.06
31	18.50		0.18	0.14						0.04	0.06	0.09	0.06		0.06
AVERAGE	9.6	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.06	0.09	0.06	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 12/2013

\*Please answer Y/N question below this chart.

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DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)								Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	FLUORIDE		IRON		MANGANESE		RAW	TAP			
	RAW	TAP	RAW	TAP	RAW	TAP					
1	0.30	0.94	0.05	0.03	0.07	0.02			1.75	0.0	8.2
2	0.33	0.94	0.15	0.03	0.09	0.03			1.80	0.0	10.4
3	0.45	1.05	0.11	0.03	0.06	0.02			1.70	0.0	9.5
4	0.49	1.00	0.03	0.03	0.07	0.03			1.80	0.0	8.8
5	0.44	0.83	0.05	0.03	0.04	0.02			1.85	0.0	8.3
6	0.35	0.99	0.12	0.03	0.06	0.03			1.80	2.2	9.8
7	0.32	0.88	0.11	0.03	0.09	0.03			1.75	1.6	9.4
8	0.35	1.02	0.10	0.03	0.11	0.02			1.75	0.5	8.6
9	0.33	1.01	0.23	0.03	0.11	0.02			1.65	0.5	10.1
10	0.34	0.84	0.25	0.03	0.09	0.01			1.85	0.2	10.4
11	0.37	0.89	0.10	0.03	0.09	0.02			1.80	0.0	8.9
12	0.24	0.95	0.18	0.03	0.09	0.02			1.80	0.0	8.3
13	0.31	0.98	0.24	0.03	0.09	0.02			1.75	0.0	9.1
14	0.33	1.02	0.27	0.03	0.10	0.02			1.85	0.0	8.6
15	0.27	0.95	0.25	0.03	0.10	0.01			1.85	0.2	9.9
16	0.27	0.99	0.28	0.03	0.11	0.02			1.80	0.0	9.6
17	0.26	1.05	0.23	0.03	0.15	0.03			1.70	0.0	9.3
18	0.25	0.96	0.15	0.03	0.11	0.01			1.80	0.2	8.4
19	0.19	0.90	0.20	0.03	0.09	0.03			1.80	0.0	9.1
20	0.29	1.24	0.25	0.03	0.11	0.04			1.85	0.0	10.7
21	0.32	1.19	0.15	0.03	0.09	0.01			1.80	0.0	10.1
22	0.31	1.17	0.28	0.06	0.07	0.03			1.73	1.0	10.3
23	0.06	0.92	0.46	0.03	0.11	0.01			1.60	0.3	9.6
24	0.19	0.97	0.40	0.03	0.09	0.01			1.75	0.0	10.0
25	0.18	0.96	0.25	0.03	0.12	0.01			1.85	0.0	9.1
26	0.23	1.03	0.24	0.03	0.12	0.01			1.85	0.0	8.3
27	0.20	1.10	0.49	0.03	0.11	0.01			1.75	0.0	9.0
28	0.05	1.08	0.29	0.03	0.12	0.01			1.90	0.0	7.9
29	0.12	1.01	0.55	0.03	0.07	0.01			1.75	0.7	9.0
30	0.07	1.02	0.51	0.03	0.11	0.02			1.80	0.3	7.6
31	0.08	1.02	0.52	0.03	0.11	0.01			1.75	0.0	8.6
AVERAGE	0.27	1.00	0.24	0.03	0.09	0.02	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	9.2

	1.60
Number of readings	31
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 12/2013

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DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	24,000	12,000	89.50	12,000	89.40						
2	0										
3	24,000					12,000	94.60	12,000	94.60		
4	0										
5	28,000	14,000	99	14000.00	99						
6	0										
7	30,000					15,000	95.10	15,000	95.20		
8	0										
9	26,000	13,000	90.00	13,000	90.00						
10	0										
11	28,000					14,000	97.50	14,000	97.50		
12	0										
13	27,000	14,000	94.90	13,000	94.90						
14	0										
15	32,000					17,000	90.80	15,000	91.00		
16	0										
17	24,000	12,000	95.20	12,000	95.20						
18	0										
19	24,000					12,000	94.90	12,000	94.90		
20	23,000	11,000	91.20	12,000	91.20						
21	0										
22	0										
23	30,000					15,000	93.60	15,000	93.80		
24	0										
25	30,000	15,000	99.10	15,000	99.10						
26	0										
27	27,000					15,000	94.90	12,000	95.00		
28	0										
29	26,000	14,000	93.70	12,000	93.70						
30	0										
31	25,000					13,000	94.70	12,000	94.70		
TOTAL	428,000	105,000	752.50	103,000	752.40	113,000	756.10	107,000	756.70	0	0.00
AVERAGE	13,806	13,125	94.063	12,875	94.050	14,125	94.513	13,375	94.588	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 12/2013

PAGE 7 OF 11

DAY	CHEMICALS ADDED			TEST RESULTS							
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
				NORTH		SOUTH		EAST		WEST	
				T	F	T	F	T	F	T	F
1				1.57	1.48	1.59	1.50	0.97	0.90	1.52	1.44
2				1.49	1.32	1.23	1.18	1.59	1.55	1.11	1.02
3				1.38	1.30	1.37	1.34	1.04	1.01	1.01	0.80
4				1.37	1.29	1.20	1.12	1.52	1.45	0.97	0.87
5				1.43	1.29	1.37	1.33	1.63	1.57	1.30	1.25
6				1.58	1.52	0.85	0.77	1.31	1.24	0.93	0.90
7				1.18	1.11	0.98	0.92	1.08	0.99	1.46	1.42
8				1.22	1.15	0.65	0.46	1.33	1.28	1.50	1.44
9				1.56	1.48	1.83	1.77	1.53	1.45	1.19	1.15
10				1.50	1.44	1.24	1.20	1.51	1.35	0.53	0.45
11				1.28	1.15	1.16	1.08	1.60	1.58	0.99	0.91
12				1.34	1.27	1.27	1.20	1.24	1.17	1.50	1.43
13				1.34	1.32	1.35	1.29	1.43	1.37	1.52	1.48
14				1.46	1.45	1.20	1.14	1.63	1.55	1.18	1.11
15				1.54	1.47	1.57	1.52	1.11	1.06	1.09	1.06
16				0.88	0.73	1.02	0.98	1.28	1.18	1.38	1.35
17				1.26	1.18	0.94	0.86	1.59	1.53	1.04	0.96
18				1.42	1.30	1.27	1.20	1.69	1.65	1.62	1.60
19				1.33	1.27	1.07	1.01	1.47	1.45	1.20	1.13
20				1.67	1.51	1.17	1.13	1.72	1.67	1.19	1.14
21				1.29	1.21	1.31	1.23	1.47	1.38	1.60	1.50
22				0.94	0.85	1.24	1.17	1.47	1.41	1.65	1.55
23				1.14	1.07	1.73	1.68	1.75	1.73	1.73	1.69
24				1.43	1.38	1.52	1.47	0.40	0.32	1.27	1.17
25				1.47	1.42	0.90	0.84	1.35	1.28	0.88	0.80
26				1.50	1.42	1.49	1.44	1.53	1.44	1.39	1.33
27				1.49	1.39	1.12	1.09	1.72	1.69	1.62	1.57
28				1.67	1.60	1.85	1.59	0.67	0.58	1.23	1.18
29				1.16	1.09	1.72	1.67	0.67	0.49	0.27	0.23
30		0.0		1.69	1.62	1.58	1.49	1.34	1.31	1.44	1.39
31				1.44	1.39	1.09	1.03	1.17	1.11	1.36	1.31
AVERAGE	#DIV/0!	0.0	Average	1.38	1.31	1.28	1.22	1.35	1.28	1.25	1.18
TOTAL	0.0	0.0	Total Minimum	0.86		0.55		0.40		0.27	
			Free Minimum		0.73		0.46		0.32		0.23

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	0	0	1	0	1	1	0

Number of Free Residuals	124
Number of Total Residuals	124
Total # Less than 0.2 mg/L	0
Total # Less than 0.5 mg/L	

Minimum Monthly Free Residual  
 Minimum Monthly Total Residual  
**0.23**  
**0.27**

Disinfectant Chloramines? (Y/N)  
 Number of days of operation?

**N**  
**31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY):

12/2013

PAGE:  
8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	23.5	6	0.04	0.05	0.05	0.05	0.05	0.05	0.049	
2	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.047	
3	23.5	6	0.09	0.05	0.04	0.04	0.05	0.04	0.090	
4	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.043	
5	23.0	6	0.05	0.05	0.06	0.05	0.06	0.06	0.064	
6	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
7	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
8	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
9	23.5	6	0.05	0.06	0.06	0.05	0.05	0.05	0.056	
10	24.0	6	0.05	0.06	0.05	0.05	0.05	0.06	0.060	
11	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
12	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
13	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
14	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.057	
15	24.0	6	0.06	0.06	0.05	0.05	0.07	0.05	0.068	
16	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
17	23.5	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
18	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
19	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.057	
20	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
21	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
22	23.0	6	0.05	0.05	0.05	0.05	0.06	0.06	0.060	
23	23.5	6	0.06	0.07	0.06	0.06	0.06	0.06	0.065	
24	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.059	
25	24.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.066	
26	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
27	24.0	6	0.07	0.06	0.06	0.05	0.06	0.06	0.070	
28	24.0	6	0.06	0.05	0.05	0.05	0.05	0.06	0.060	
29	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.060	
30	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.060	
31	23.5	6	0.05	0.06	0.05	0.05	0.05	0.05	0.057	
Total	738.0	186	TOTAL # OF TURBIDITY SAMPLES TAKEN --						186	0.090

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding --> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above  
Carl T. Alley 01-07-2014  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

12/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>59,649,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,924,161</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,976,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Were measurements recorded every 15 minutes? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was there a failure of the continuous monitoring equipment? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) .....	
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) .....	
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION	
APPLICABLE TO ALL PLANTS WITH FILTRATION		APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>738.0</u>	Number of days of plant operation	<u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>186</u>	Number of lowest chlorine samples recorded	<u>31</u>
Highest single turbidity reading	<u>0.09</u>	Lowest single chlorine reading	<u>1.60</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>0</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Number of samples exceeded 0.3 NTU	<u>0</u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.5 mg/L	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>		

CHLORINE DIOXIDE ENTRY POINT MONITORING		CHLORITE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>	Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

01-07-2014  
Date



PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987

## ANNUAL WATER SYSTEM DATA APPLICABLE TO ALL WATER SYSTEMS

TO BE SUBMITTED WITH DECEMBER MOR

NUMBER OF METERS: \_\_\_\_\_ SYSTEM POPULATION: \_\_\_\_\_

RESIDENTIAL: 3310  
 COMMERCIAL: 264  
 INDUSTRIAL: \_\_\_\_\_

TOTAL POPULATION SERVED IN CONSECUTIVE SYSTEMS: (REFER TO TABLE BELOW) \_\_\_\_\_

**CONSECUTIVE SYSTEM POPULATIONS:**  
 (INFORMATION ON THE SYSTEMS/AREA TO WHOM YOU SELL WATER)

PWSID #	# OF METERS	PWSID #	# OF METERS

**CONTACT INFORMATION:**

	<u>WATER SYSTEM MANAGER/SUPERINT.</u>	<u>PLANT A</u>	<u>PLANT B</u>
NAME	<u>John Mills</u>	<u>Earl T Alley</u>	_____
TITLE	<u>General Manager</u>	<u>Plant Manager</u>	_____
OFFICE PHONE	<u>606-298-3885</u>	<u>606-298-7439 ext 5</u>	_____
CELL PHONE	<u>606-626-7741</u>	_____	_____
AFTER-HOURS PHONE	<u>606-626-7741</u>	<u>606-395-5613</u>	_____
MAILING ADDRESS	<u>387 E Main St, Suite 140 Inez, KY 41224</u>	<u>14 Flat Hollow Inez, KY 41224</u>	_____
EMAIL ADDRESS	<u>jmills@bellsouth.net</u>	<u>etalley47@bellsouth.net</u>	_____
	<u>PLANT C</u>	<u>DISTRIBUTION</u>	<u>MOR CONTACT</u>
NAME	_____	_____	<u>Earl T Alley</u>
TITLE	_____	_____	<u>Plant Manager</u>
OFFICE PHONE	_____	_____	<u>606-298-7439 ext 5</u>
CELL PHONE	_____	_____	_____
AFTER-HOURS PHONE	_____	_____	<u>606-395-5613</u>
MAILING ADDRESS	_____	_____	<u>14 Flat Hollow Inez, KY 41224</u>
EMAIL ADDRESS	_____	_____	<u>etalley47@bellsouth.net</u>

red.  
6/27/13

**Standard Monitoring Report**

for

**Initial Distribution System Evaluation (IDSE)**

**Stage 2 Disinfectants and Disinfection Byproducts Rule  
(Stage 2 DBPR)**



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## Instructions / Addresses

A copy of this report is to be sent to U.S. EPA and the Kentucky Division of Water at the addresses listed below. All analysis results for Stage 1 and the IDSE should be entered as mg/L which is the same as ppm. Some laboratories have reported the IDSE results to water systems in ug/L which is the same as ppb. The Record Keeping Package available on the Kentucky Rural Water Association website ([www.krwa.org](http://www.krwa.org)) has a spreadsheet entitled "IDSE Report to DOW" that converts values from the "IDSE" page to the appropriate values to use in this report.

An example of a completed IDSE Report form is available for download (PDF)

Kentucky Rural Water Association

[www.krwa.org](http://www.krwa.org)

U.S. EPA  
Stage 2 DBP - IPMC  
P.O. Box 98  
Dayton, OH 45401

or by e-mail to:

[stage2ndbp@epa.gov](mailto:stage2ndbp@epa.gov)

Insert submittal date on  
page 1

Kentucky needs copies of all the reports, regardless of the Schedule

send copies to:

Division of Water  
Drinking Water Compliance and Technical Assistance Section  
200 Fair Oaks Lane 4th Floor  
Frankfort, KY 40601

An example of a completed IDSE Report form is available for download (PDF)

Kentucky Rural Water Association

[www.krwa.org](http://www.krwa.org)

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# IDSE Report for Standard Monitoring

## I. GENERAL INFORMATION

### A. PWS Information\*

B. Date Submitted\* 12/17/2009

PWSID: KY0800273

PWS Name: Martin County Water District

PWS Address: HC69 Box 875

City: Inez

State: KY

Zip: 41224

Population Served: 11,748

System Type: (X)		Source Water Type: (X)		Buying / Selling Relationships: (X)	
<input checked="" type="checkbox"/>	CWS	<input checked="" type="checkbox"/>	Surface/GUDI (subpart H)	<input checked="" type="checkbox"/>	Consecutive System
<input type="checkbox"/>	NTNCWS	<input type="checkbox"/>	Ground	<input type="checkbox"/>	Wholesale System
					Neither

### C. PWS Operations

Residual Disinfectant Type: (X)

Chlorine

Chloramines

Other:

Number of Disinfected Sources:

2 Surface

GWUDI

Ground

1 Purchased

### D. Contact Person\*

Name: Joe Hammond

Title: Utility Manager

Phone #: (606) 298-7439

Fax #: (606) 298-7439

E-mail: jhammond58@bellsouth.net

## II. STAGE 2 REQUIREMENTS\*

### A. Number of Compliance Monitoring Sites

1 Existing Stage 1

2 Highest TTHM

1 Highest HAA5

4 Total

### B. Schedule

Schedule 1

Schedule 2

Schedule 3

Schedule 4

### C. Compliance Monitoring Frequency

During peak historical month  
(1 monitoring period)

Every 90 days (4 monitoring periods)

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# IDSE Report for Standard Monitoring

Page 2 of 10

## III. MONITORING RESULTS\*

A. Did you deviate in any way from your approved standard monitoring plan?  Yes  No

If YES, explain (attach additional pages if necessary).

B. Where were your TTHM and HAA5 samples analyzed?

In-House

Is your in-house laboratory certified?  Yes  No

Certified Laboratory

Name of certified laboratory: Appalician States Analytical

C. What method(s) was used to analyze your TTHM and HAA5 samples?

TTHM

HAA5

EPA 502.2

EPA 552.1

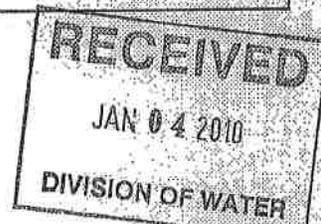
EPA 524.2

EPA 552.2

EPA 551.1

EPA 552.3

SM 6251 B



IDSE Report for Standard Monitoring

III. MONITORING RESULTS (Continued)\*

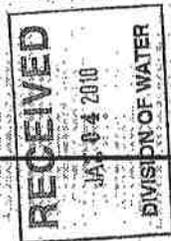
D. IDSE Standard Monitoring Results - TTHM

KY0800273

Site ID <sup>1</sup>	Data Type	TTHM (mg/L)						LRAA
		10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
SM1	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.081	0.048	0.033	0.037	0.060	0.097	0.059
SM2	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.075	0.051	0.033	0.034	0.057	0.099	0.058
SM3	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.080	0.058	0.034	0.035	0.083	0.093	0.080
SM4	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.047	0.072	0.039	0.043	0.078	0.117	0.066
SM5	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.123	0.088	0.035	0.045	0.099	0.138	0.088
SM6	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.116	0.085	0.028	0.049	0.087	0.123	0.081
SM7	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.145	0.094	0.044	0.066	0.099	0.137	0.098
SM8	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.148	0.099	0.060	0.060	0.112	0.117	0.099

\*Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.

Attach additional sheets as needed for IDSE standard monitoring results.



IDSE Report for Standard Monitoring

III. MONITORING RESULTS (Continued)

E. IDSE Standard Monitoring Results - HAA5

KY0800273

Site ID <sup>1</sup>	Data Type	HAA5 (mg/L)						LRAA
		10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
SM1	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.042	0.022	0.066	0.060	0.073	0.104	0.058
SM2	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.044	0.020	0.063	0.049	0.071	0.100	0.058
SM3	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.043	0.020	0.070	0.048	0.072	0.119	0.062
SM4	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.051	0.029	0.070	0.067	0.085	0.154	0.078
SM5	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.086	0.036	0.042	0.055	0.113	0.048	0.063
SM6	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.086	0.033	0.037	0.066	0.110	0.121	0.076
SM7	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.091	0.037	0.035	0.062	0.127	0.162	0.086
SM8	Sample Date	10/8/2008	12/11/2008	2/18/2009	4/15/2009	6/11/2009	8/13/2009	
	Sample Result	0.040	0.042	0.115	0.066	0.127	0.162	0.092

<sup>1</sup>Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.

Attach additional sheets as needed for IDSE standard monitoring results.

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**IDSE Report for Standard Monitoring**

**III. MONITORING RESULTS (Continued)\***

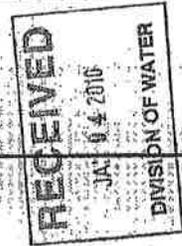
**F. Stage 1 DBPR Compliance Monitoring Results - TTHM**

KY0900273

Site ID <sup>1</sup>	Data Type	TTHM (mg/L)				LRAA
008	Sample Date	11/24/2008	1/26/2009	4/27/2009	7/27/2009	
	Sample Result	0.064	0.073	0.049	0.096	0.071
085	Sample Date	11/24/2008	1/26/2009	4/27/2009	7/27/2009	
	Sample Result	0.068	0.040	0.045	0.104	0.064
102	Sample Date	11/24/2008	1/26/2009	4/27/2009	7/27/2009	
	Sample Result	0.067	0.039	0.052	0.105	0.066
088	Sample Date	11/24/2008	1/26/2009	4/27/2009	7/27/2009	
	Sample Result	0.061	0.043	0.047	0.096	0.062
	Sample Date					
	Sample Result					#DIV/0!
	Sample Date					
	Sample Result					#DIV/0!
	Sample Date					
	Sample Result					#DIV/0!
	Sample Date					
	Sample Result					#DIV/0!

\*Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.

Attach additional sheets as needed for IDSE standard monitoring results.



**IDSE Report for Standard Monitoring**

Page 8 of 10

**III. MONITORING RESULTS (Continued)**

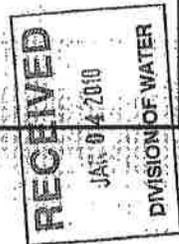
**G. Stage 1 DBPR Compliance Monitoring Results - HAA5**

KY0000273

Site ID <sup>1</sup>	Data Type	HAA5 (mg/L)				LRAA
008	Sample Date	11/24/2008	1/26/2009	4/27/2009	7/27/2009	
	Sample Result	0.033	0.073	0.074	0.096	0.089
085	Sample Date	11/24/2008	1/26/2009	4/27/2009	7/27/2009	
	Sample Result	0.033	0.040	0.074	0.104	0.063
102	Sample Date	11/24/2008	1/26/2009	4/27/2009	7/27/2009	
	Sample Result	0.030	0.039	0.070	0.105	0.061
088	Sample Date	11/24/2008	1/26/2009	4/27/2009	7/27/2009	
	Sample Result	0.030	0.043	0.075	0.096	0.081
	Sample Date					
	Sample Result					#DIV/0!
	Sample Date					
	Sample Result					#DIV/0!
	Sample Date					
	Sample Result					#DIV/0!
	Sample Date					
	Sample Result					#DIV/0!

<sup>1</sup>Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.

Attach additional sheets as needed for IDSE standard monitoring results.



# IDSE Report for Standard Monitoring

## IV. JUSTIFICATION OF STAGE 2 DBPR COMPLIANCE MONITORING SITES\*

KY0800273

Stage 2 Compliance Monitoring Site ID	Site Type	Justification
SM8	X Highest TTHM	Highest TTHM LRAA @ ( 0.099 ) potentially travels through/by four tanks. High residence time with low customer base
	Highest HAA5	
	Stage 1 DBPR	
SM5	X Highest TTHM	2nd highest TTHM LRAA @ ( 0.088 ) In south western portion of system influenced by three tanks and two pumping stations
	Highest HAA5	
	Stage 1 DBPR	
SM7	X Highest TTHM	Highest HAA5 LRAA (.086) of all sites other than the two listed above. Is influenced by drain fill cycles of two storage tanks and one pumping station
	Highest HAA5	
	Stage 1 DBPR	
008	X Highest TTHM	Highest Stage 1 HAA5 LRAA ( 0.069 ) in northern portion of system influenced by two storage tanks.
	Highest HAA5	
	Stage 1 DBPR	
	Highest TTHM	
	Highest HAA5	
	Stage 1 DBPR	
	Highest TTHM	
	Highest HAA5	
	Stage 1 DBPR	
	Highest TTHM	
	Highest HAA5	
	Stage 1 DBPR	
	Highest TTHM	
	Highest HAA5	
	Stage 1 DBPR	

Attach additional copies of this sheet if you need more room.

**RECEIVED**  
 JAN 04 2010  
 DIVISION OF WATER

# IDSE Report for Standard Monitoring

## V. PEAK HISTORICAL MONTH AND STAGE 2 DBPR COMPLIANCE MONITORING SCHEDULE

A. Peak Historical Month\* August KY

B. Is Your Peak Historical Month the Same as in Your IDSE Standard Monitoring Plan?

Yes  No

If no, explain how you selected your new peak historical month (attach additional sheets if needed)

### C. Proposed Stage 2 DBPR Compliance Monitoring Schedule\*

Stage 2 Compliance Monitoring Site ID	Projected Sampling Date (date or week) <sup>1</sup>			
	period 1	period 2	period 3	period 4
SM8	4th week Nov 2013	4th week Feb 2014	4th week May 2014	4th week August 2014
SM7	4th week Nov 2013	4th week Feb 2014	4th week May 2014	4th week August 2014
SM4	4th week Nov 2013	4th week Feb 2014	4th week May 2014	4th week August 2014
008	4th week Nov 2013	4th week Feb 2014	4th week May 2014	4th week August 2014

<sup>1</sup> period = monitoring period. Complete for the number of monitoring periods from Section II.C.

Attach additional copies of this sheet if you need more room.

# IDSE Report for Standard Monitoring

Page 9 of 10

## VI. DISTRIBUTION SYSTEM SCHEMATIC\*

**ATTACH a schematic of your distribution system if it has changed since you submitted your Standard Monitoring Plan.**

## VII. ATTACHMENTS

- ~ Additional sheets for explaining how and why you deviated from your standard monitoring plan (Section III).
- ~ Additional sheets for Standard Monitoring Results (Section III). **REQUIRED** if you are a surface/GUDI system serving more than 49,999 people or a ground water system serving more than 499,999 people.
- ~ Additional sheets for Stage 2 DBPR Compliance Monitoring Sites (Section IV). **REQUIRED** if you are a surface/GUDI system serving more than 249,999 people.
- ~ Additional sheets for explaining how you selected the peak historical month (Section V).
- ~ Additional sheets for proposed Stage 2 DBPR peak historical month and compliance monitoring schedule (Section V). **REQUIRED** if you are a surface/GUDI system serving more than 249,999 people.
- ~ Distribution system schematic\* (Section VI). **REQUIRED** if it has changed from your approved IDSE standard monitoring plan.
- ~ Compliance calculation procedures (for Stage 2 Compliance Monitoring Plan).

Total Number of Pages in Your Report: 12

Note: Fields with an asterisk (\*) are required by the Stage 2 DBPR.

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JAN 04 2010

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**Stage 2 - Compliance Determination**

Page 10 of 10

**KY0800273**

**Martin County Water District**

**Joe Hammond**

**(606) 298-7439**

**jhammond58@bellsouth.net**

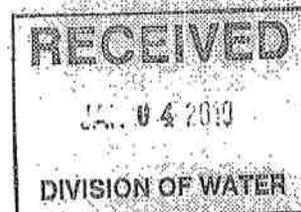
Stage 2 DBP Rule compliance is based on locational running annual averages of approved monitoring sites, calculated quarterly. Accordingly, compliance with the Stage 2 DBP Rule will conform to 401 KAR 8:510, 40 CFR 141.620 (General Requirements), 141.621 (Routine Monitoring), 141.626 (Operational Evaluation Levels) and 141.629 (Reporting and Recordkeeping Requirements).

Signed: \_\_\_\_\_

*Joe Hammond*

Date: \_\_\_\_\_

*12/30/09*



## Specific Site Information Chemical, THM, HAA and TOC Monitoring Plan

PWSID: Ky 0800273  
 Name: Martin County Water District  
 Address: HC 69 Box 875  
 City/State/Zip: Inez, Ky, 41224  
 County: Martin County

Service Connections: 3629  
 System Population Served: 10,500

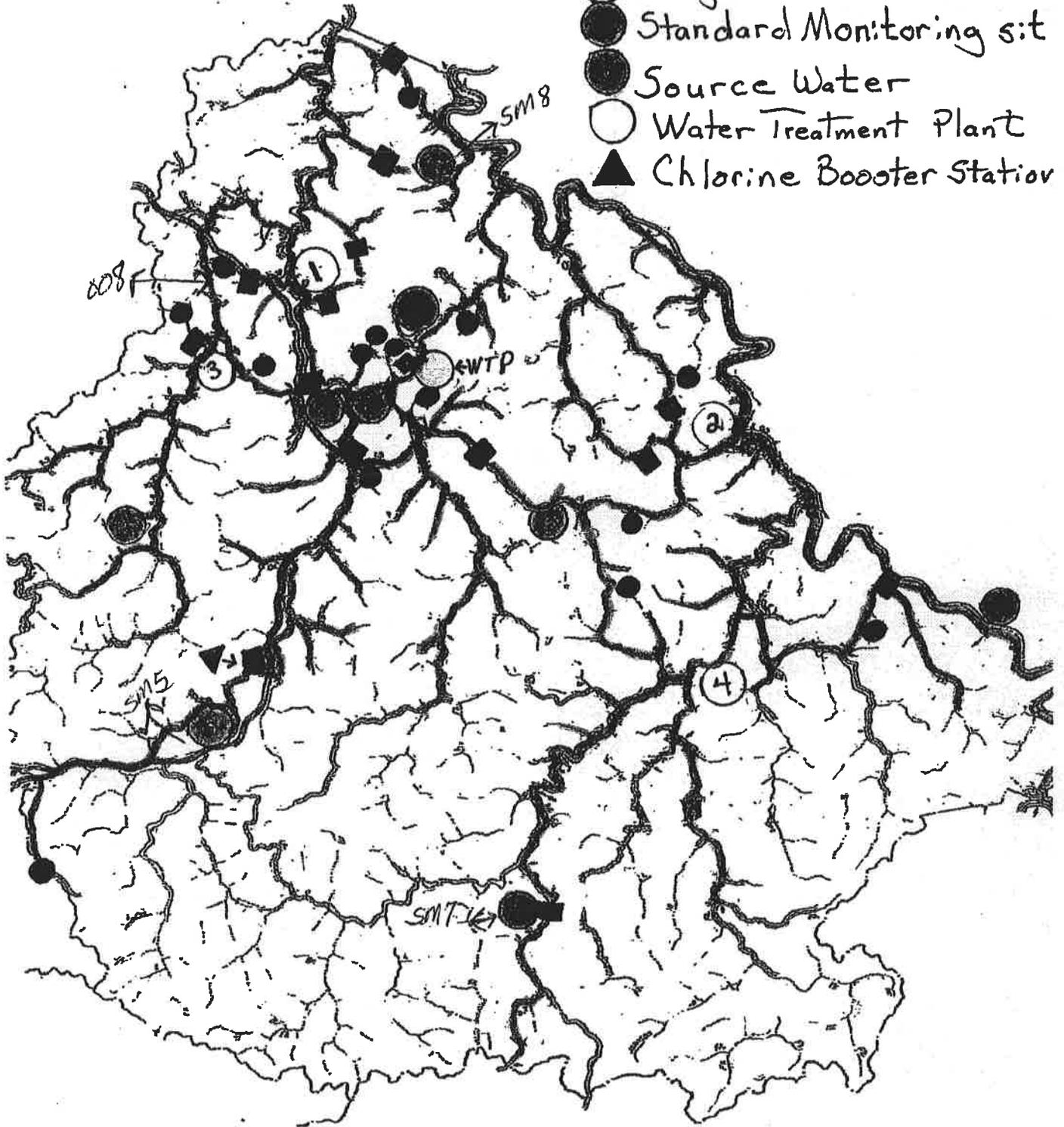
Revised:  OR New:

Sampling Site No.	Sampling Site Location	Type of Facility	
Name:	Residential:	Medical:	
SM8	Name: <u>Calf Creek Church</u>	Commercial:	
	Address: <u>3520 Tug River Road</u>	School:	Public Bldg:
	City: <u>Inez</u>	Other(specify): <input checked="" type="checkbox"/>	<u>church</u>
	State/Zip: <u>Ky / 41224</u>		
SM7	Name: <u>Meathouse Pump Station</u>	Commercial:	Medical:
	Address: <u>about half mile below Pike Co. &amp; Martin Co. Line.</u>	School:	Public Bldg:
	City:	Other(specify): <input checked="" type="checkbox"/>	<u>Pump Station</u>
	State/Zip:		
SM5	Name: <u>Sand Lick Hydrant</u>	Commercial:	Medical:
	Address: <u>Davella Road</u>	School:	Public Bldg:
	City:	Other(specify): <input checked="" type="checkbox"/>	<u>Hydrant</u>
	State/Zip:		
008	Name: <u>Wilderness Lane</u>	Commercial:	Medical:
	Address: <u>Highway 3 North Inez</u>	School:	Public Bldg:
	City: <u>Inez</u>	Other <input checked="" type="checkbox"/>	<u>Hydrant</u>
	State/Zip: <u>41224</u>		
	Name:	Commercial:	Medical:
	Address:	School:	Public Bldg:
	City:	Other(specify):	
	State/Zip:		

Prepared By: Kyle W. Sammons Page 1 of 1  
 Date: 7-24-13

# Martin County Water District

- Ground Storage Tank
- Pump Station
- Stage 1 DBPR site
- Standard Monitoring site
- Source Water
- Water Treatment Plant
- ▲ Chlorine Booster Station





ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
[www.water.ky.gov](http://www.water.ky.gov)

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: Stage 2/D/DBPR Site Sampling Plan

Dear Mr. Mills,

According to Division of Water (DOW) records, your facility has not submitted the Specific Site Information Form for Stage 2 Disinfectants and Disinfection Byproducts Rule (D/DBPR) sampling locations. Although your Initial Distribution System Evaluation (IDSE) Report has been approved, it did not contain specific information that DOW must have on file, in the State Drinking Water Inventory System (SDWIS), for each monitoring location.

You must submit the attached form before you begin Stage 2 D/DBPR compliance monitoring. If you fail to do so, your facility will receive Monitoring and Reporting Violations, each quarter, until the form is submitted. Be sure to include all Stage 2 D/DBPR locations and a site map.

Please submit the attached site sampling form and a site map, to Division of Water, Attn: Kellee Husband, 200 Fair Oaks Lane, 4<sup>th</sup> Floor, Frankfort, KY 40601 or [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

If you have any questions you may contact me at 502-564-3410 ext. 4984 or [linda.metts@ky.gov](mailto:linda.metts@ky.gov).

Sincerely,

Linda Metts  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch

## Specific Site Information Chemical, THM, HAA and TOC Monitoring Plan

PWSID: Ky 0800 273  
 Name: Martin County Water District  
 Address: 387 East Main Street, Suite 140  
 City/State/Zip: Inez / Ky / 41224  
 County: Martin County

Service Connections: 3600  
 System Population Served: 10692

Revised:  OR New:

Sampling Site No.

Sampling Site Location

Type of Facility

Sampling Site No.	Sampling Site Location	Type of Facility
118 5/2	Name: <u>Babe DeLong Road</u>	Residential: <input type="checkbox"/> Medical: <input type="checkbox"/>
	Address: <u>New Route 3</u>	Commercial: <input type="checkbox"/> Public Bldg: <input type="checkbox"/>
	City: <input type="checkbox"/>	School: <input type="checkbox"/> <u>Hydrant</u>
	State/Zip: <input type="checkbox"/>	Other(specify): <input checked="" type="checkbox"/>
119 5/3	Name: <u>Old Route 3</u>	Residential: <input type="checkbox"/> Medical: <input type="checkbox"/>
	Address: <u>Across from Fitch Branch</u>	Commercial: <input type="checkbox"/> Public Bldg: <input type="checkbox"/>
	City: <input type="checkbox"/>	School: <input type="checkbox"/> <u>Hydrant</u>
	State/Zip: <input type="checkbox"/>	Other(specify): <input checked="" type="checkbox"/>
	Name: <input type="checkbox"/>	Residential: <input type="checkbox"/> Medical: <input type="checkbox"/>
	Address: <input type="checkbox"/>	Commercial: <input type="checkbox"/> Public Bldg: <input type="checkbox"/>
	City: <input type="checkbox"/>	School: <input type="checkbox"/> <input type="checkbox"/>
	State/Zip: <input type="checkbox"/>	Other(specify): <input type="checkbox"/>
	Name: <input type="checkbox"/>	Residential: <input type="checkbox"/> Medical: <input type="checkbox"/>
	Address: <input type="checkbox"/>	Commercial: <input type="checkbox"/> Public Bldg: <input type="checkbox"/>
	City: <input type="checkbox"/>	School: <input type="checkbox"/> <input type="checkbox"/>
	State/Zip: <input type="checkbox"/>	Other(specify): <input type="checkbox"/>
	Name: <input type="checkbox"/>	Residential: <input type="checkbox"/> Medical: <input type="checkbox"/>
	Address: <input type="checkbox"/>	Commercial: <input type="checkbox"/> Public Bldg: <input type="checkbox"/>
	City: <input type="checkbox"/>	School: <input type="checkbox"/> <input type="checkbox"/>
	State/Zip: <input type="checkbox"/>	Other(specify): <input type="checkbox"/>

Prepared By: Kyle W. Sammons Page 1 of 1  
 Date: 10-21-13

# MARTIN COUNTY UTILITY BOARD

387 East Main Street, Suite 140  
INEZ, KY 41224

606-298-3885 OFFICE

606-298-4913

October 21, 2013

Russell Neal, Environmental Scientist II  
Division of Water  
200 Fair Oaks Lane  
Frankfort, Ky 40601

Dear Russell:

We are altering our stage II site number on Davela from SM5 to 118 and the location from Sandlick to Babe Delong Road. Due to Prestonsburg Utility's supplying water to the industrial site and also Davella Road the water at the original Stage II Site is not always Martin County Water Districts Water. (Due to MCWD and Prestonsburg Utilities both pumping to the same location we cannot insure which water is being tested.

We are altering our Stage II site number on Wilderness Lane from 008 to 119 and the location from Wilderness Lane to Old Route 3 Across from Fitch Branch due to the lack of customer demand in the area.

Sincerely,

Kyle W Sammons

**Specific Site Information  
Chemical, THM, HAA  
and TOC Monitoring Plan**

PWSID: Ky 0800273  
 Name: Martin County Water District  
 Address: HC 69 Box 875  
 City/State/Zip: Inez, Ky, 41224  
 County: Martin County

Service Connections: 3629  
 System Population Served: 10,500

Revised:  OR New:

Sampling Site No.	Sampling Site Location	Type of Facility	
Name:	Residential:	Medical:	
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	Address: <u>3520 Tug River Road</u>	School:	Public Bldg:
	City: <u>Inez</u>	Other(specify): <input checked="" type="checkbox"/>	<u>church</u>
	State/Zip: <u>Ky / 41224</u>		
SM7	Name: <u>Meathouse Pump Station</u>	Commercial:	
	Address: <u>about half mile below Pike Co. &amp; Martin Co. line.</u>	School:	Public Bldg:
	City:	Other(specify): <input checked="" type="checkbox"/>	<u>Pump Station</u>
	State/Zip:		
SM5	Name: <u>Sand Lick Hydrant</u>	Commercial:	
	Address: <u>Davella Road</u>	School:	Public Bldg:
	City:	Other(specify): <input checked="" type="checkbox"/>	<u>Hydrant</u>
	State/Zip:		
008	Name: <u>Wilderness Lane</u>	Commercial:	
	Address: <u>Highway 3 North Inez</u>	School:	Public Bldg:
	City: <u>Inez</u>	Other <input checked="" type="checkbox"/>	<u>Hydrant</u>
	State/Zip: <u>41224</u>		
	Name:	Commercial:	
	Address:	School:	Public Bldg:
	City:	Other(specify):	
	State/Zip:		

Prepared By: Kyle W. Sammons Page 1 of 1  
 Date: 7-24-13

Steven L. Beshear  
Governor

ENERGY AND ENVIRONMENT CABINET

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov  
September 16, 2014

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

John Mills  
Martin Co. Water Dist.  
287 E. Main St. Suite 140  
Inez, KY 41224

RE: PWSID KY0800273  
Lead and Copper Monitoring/Reporting

Dear Mr. Mills:

Our records indicate that you have not exceeded the lead and copper action levels for the 2014 monitoring period.

You again qualify for reduced monitoring at a frequency of once every three years. Therefore, you are required to submit the analytical results of **30** samples for lead and copper by October 10, 2017. Samples collected for reduced monitoring must be taken from the same sites as before (if possible), and must be taken in the warm weather months of **June, July, August or September of 2017**. Samples collected outside these months will not be in compliance with the Lead and Copper Rule.

Enclosed are your 90<sup>th</sup> percentile sheet, the results notification form and a copy of the results delivery certification. Once you have posted the results on a bulletin board or something similar please mail me a filled out sample copy of the results notification form and the results delivery certification form.

If you have any questions regarding this matter, please contact me at 502-564-3410, extension 4981.

Sincerely,



Todd Ritter  
Lead/Copper Rule Manager  
Division of Water

C: Lead/Copper File

## Lead and Copper-90th Percentile

System Name: Martin Co.  
PWSID: 0800273

Date: 8/5/2014

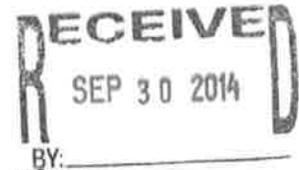
Sample #
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

Site Loc.	Copper
25	0.000
32	0.000
66	0.000
79	0.000
40	0.000
45	0.000
29	0.000
55	0.000
61	0.000
59	0.000
73	0.000
76	0.000
67	0.000
78	0.000
70	0.000
71	0.000
8	0.010
50	0.010
57	0.010
43	0.010
54	0.010
69	0.010
75	0.010
37	0.020
14	0.030
63	0.030
47	0.040
33	0.080
62	0.090
77	0.270

Site Loc.	Lead
8	0.000
14	0.000
25	0.000
32	0.000
50	0.000
66	0.000
57	0.000
43	0.000
40	0.000
45	0.000
29	0.000
37	0.000
55	0.000
61	0.000
59	0.000
54	0.000
69	0.000
73	0.000
76	0.000
67	0.000
78	0.000
75	0.000
70	0.000
71	0.000
63	0.001
62	0.004
33	0.005
79	0.006
47	0.006
77	0.006

grey area is system's 90th percentile  
Action Level: Copper 1.3 mg/l  
Lead 0.015 mg/l

# Kentucky



## Lead/Copper Results Delivery Certification

Name of System: Martin County Water District

PWSID: 0800273

I certify that each residence from where lead/copper tap water samples were collected has been informed of the lead/copper test results along with the following information: MCLGs, ALs and their definitions, a fact sheet on the health effects of lead/copper which includes steps to reduce exposure to lead/copper in drinking water, and contact information for the water utility.

### DELIVERY METHOD (choose 1 method):

Municipal system with a population greater than 3,300 people:

Residents were notified by U.S. Mail on September 22, 2014.

Municipal system with a population of 3,300 or fewer people (choose at least one):

Residents were notified by U.S. Mail on (date) .

Residents were notified by hand/direct delivery on (date) .

Nonmunicipal systems (colleges, prisons, etc.): The lead/copper results were posted on (date) within the facility in which the samples were collected and that the posting will stay up until the next lead/copper results are reported.

Signature:

*Earl T. Alley*

Title: Water Plant Manager

Print Name: Earl T Alley

Phone: 606-298-7439

Date: September 22, 2014

**This form must be completed and returned along with a sample of the resident's notification of the lead/copper results by September 30 to:**

Division of Water  
200 Fair Oaks Ln, 4<sup>th</sup> Floor  
Frankfort, KY 40601  
(502) 564 - 3410 ext. 4981

09-22-14

Gregory Sammons  
PO Box 161  
Warfield, KY 41267

Dear Homeowner:

Martin County Water would like to thank you for your participation in our Lead and Copper Compliance Program. You have helped us determine the extent to which household plumbing and fixtures contribute to the lead and copper concentrations in drinking water. Your results show that your lead and copper water quality are below the action levels. The results from the sample you collected at your residence on 08-05-2014 are as follows:

Analyte	Typical Concentration Leaving Plant	Your Results	EPA Action Level (AL) <sup>†</sup>	EPA Maximum Contaminant Level Goal (MCLG) <sup>††</sup>
Lead	<0.001 ppm*	<b>0.001 ppm</b>	0.015 ppm	0 ppm
Copper	<0.02 ppm	<b>0.03 ppm</b>	1.3 ppm	1.3 ppm

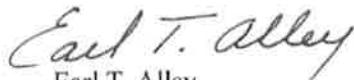
Lead is a common metal found throughout the environment in lead-based paint, air, soil, household dust, food, certain types of pottery porcelain and pewter, and water. Lead can pose a significant risk to your health if too much of it enters your body. Lead builds up in the body over many years and can cause damage to the brain, red blood cells and kidneys. The greatest risk is to young children and pregnant women. Amounts of lead that won't hurt adults can slow down normal mental and physical development of growing bodies. In addition, a child at play often comes into contact with sources of lead contamination - like dirt and dust - that rarely affect an adult. It is important to wash children's hands and toys often, and to try to make sure they only put food in their mouths.

Below is a list of steps you can take to reduce exposure to lead in drinking water:

- Let water run from tap before using for drinking/cooking any time water has gone unused for > 6 hours.
- Do not cook with, or drink water from the hot water tap; lead is dissolved more quickly in hot water. This also applies when preparing baby formula or mixing with concentrated juices.
- Boiling water does not reduce lead levels - in fact, it may make lead levels more concentrated.

If you would like more information on reducing lead exposure around your home and the health effects of lead, visit EPA's website at [www.epa.gov/lead](http://www.epa.gov/lead) or contact the National Lead Information Center (NLIC) at 1(800) 424-5323. If you have any questions or concerns about your drinking water, please do not hesitate to contact me.

Sincerely,



Earl T. Alley  
Martin County Water District #0800273  
14 Flat Hollow  
Inez, KY 41224  
606-298-7439  
Etalley47@bellsouth.net

\* ppm = parts per million or mg/L

<sup>†</sup> Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

<sup>††</sup> Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

System: Marlin Co Water Dist #1

PWSID: KY0800273

Sample Date: Aug-14 All lab results with a "less than sign" (<) should be entered as zero (0).

Water system personnel, not the contract labs, are responsible for submitting results to Division of Water.

Copper AL= 1.3 mg/L

Lead AL= 0.015 mg/L

Site Code	Analysis Results	Site Code
037	0.02	
029	0	
045	0	
047	0.04	
040	0	
079	0	
033	0.08	
043	0.01	
057	0.01	
066	0	
077	0.27	
071	0	
070	0	
075	0.01	
078	0	
067	0	
076	0	
073	0	
062	0.09	
069	0.01	
054	0.01	
059	0	
063	0.03	
061	0	
055	0	
032	0	
025	0	
014	0.03	
008	0.01	
050	0.01	

Site Code	Analysis Results	Site Code
037	0	
029	0	
045	0	
047	0.006	
040	0	
079	0.006	
033	0.006	
043	0	
067	0	
066	0	
077	0.006	
071	0	
070	0	
075	0	
078	0	
067	0	
076	0	
073	0	
062	0.004	
069	0	
054	0	
059	0	
063	0.001	
061	0	
055	0	
032	0	
025	0	
014	0	
008	0	
060	0	

30

Total Samples

30

0.040

90<sup>th</sup> percentile

0.005

0.000

to

0.270

Range

0.000

to

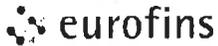
0.006

0

sites above the action level

0

Results and 90<sup>th</sup> percentile calculations should be submitted to DOW by October 10 each sample year.



Eaton Analytical

JUL 01 2014

KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
RADIONUCLIDES ANALYSIS REPORT FORM

SAMPLE CATEGORY = GE  
ENTRY POINT SAMPLING

Rev. 06/01/2011

This Section To Be Completed By Collector.

PWS ID	KY0800273	Plant ID	A	Plant Name	Martin County Water District Plant	Location Code	TPA
PWS Name	Martin County Water District	PWS Contact	Joe Hammond				
PWS Address	287 East Main Street Suite 140 Inex, KY 41224		PWS Phone	606-298-3885			
Sample Date (MMDDYYYY)	05222014	Sample Type	RT	Collector Name	Dustin Bentley 5-22-14		
Sample Time	09:12	RT = Routine (For Compliance) SP = Special (Not for Compliance)					

This Section To Be Completed By Lab.

EEA Report # 318289

Lab ID	90056	Lab Sample Number	3032795	Lab Phone	574-233-4777
Reviewed By	<i>[Signature]</i>	Digitally signed by Ryan Miller Date: 2014.06.24 15:41:51 -04'00'	Finalized By	<i>[Signature]</i>	Digitally signed by James Vernon Date: 2014.06.24 15:41:51 -04'00'

Analyte Code	Analyte Name	Analysis Method Code	<	Result (pCi/L) -or- Lab Minimum Reporting Limit (pCi/L)	Analysis Date (MMDDYYYY)	Counting Error (+/-)
4 0 0 0	GROSS ALPHA (excl. Radon and Uranium) (pCi/L)					
4 0 0 2	GROSS ALPHA (incl. Radon and Uranium) (pCi/L)	8 6 3	<	3 . 0	0 6 1 3 2 0 1 4	
4 0 0 6	URANIUM (ug/L)					
4 0 1 0	COMBINED RADIUM (pCi/L)					
4 0 2 0	RADIUM-226 (pCi/L)					
4 0 3 0	RADIUM-228 (pCi/L)	9 4 8	<	1 . 0	0 6 1 2 2 0 1 4	
4 0 4 4	POTASSIUM-40 TOTAL (pCi/L)					
4 1 0 0	GROSS BETA (pCi/L)					
4 1 0 1	MAN-MADE BETA PARTICLE & PHOTON EMITTERS (mrem/yr)					
4 1 0 2	TRITIUM (pCi/L)					
4 1 7 4	STRONTIUM-90 (pCi/L)					
4 2 6 4	IODINE-131 (pCi/L)					
4 2 7 0	CAESIUM-134 (pCi/L)					

The signatories of this form certify by their signatures that collection and analysis of the water sample analyzed and the resulting data hereby submitted, were completed in accordance with the provisions of 401 KAR Chapter 8; and that the data submitted on this form is a true and accurate report of the results of collection and analysis performed pursuant to the above-referenced regulations. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Note This report may not be reproduced, except in full without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Note The results presented relate only to the samples provided for analysis. The Lab Sample Number provided is the lowest EEA sample number used for the samples combined in this report.

Note See attached page for additional comments

110 South Hill Street  
South Bend, IN 46617  
Tel: (574) 233-4777  
Fax: (574) 233-8207  
1 800 332 4345

**ENERGY AND ENVIRONMENT CABINET**

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov  
August 13, 2014

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

John Mills  
Martin Co. Water District  
287 E. Main St., Suite 140  
Inez, KY 41224

RE: PWSID# KY0800273  
Radionuclide Monitoring Frequency

Dear Mr. Mills:

A review of our records indicates the following compliance status.

A sample on 5/22/2014 from Martin Co. Water Dist. had the following RADIONUCLIDE results:

Analyte	Result	Detection Limit	Max Contaminant Level
Gross Alpha Particle	<3.0 pCi/L	3pCi/L	15pCi/L
Radium-226	1.5 pCi/L	1pCi/L	Combined radium of 5pCi/L
Radium-228	<1.0 pCi/L	1pCi/L	Combined radium of 5pCi/L
Uranium	2.2 µg/L	1µg/L	30µg/L

IF	THEN
All are less than detect level	Sample in nine (9) years
Any are $\geq$ detect and $\leq$ ½ MCL	Sample in six (6) years
Any are $>$ ½ MCL and $\leq$ MCL	Sample in three (3) years
Any are $>$ MCL	Begin quarterly

In accordance with KAR 8:550 Section 1, you are now required to sample for radionuclide analytes 6 (six) years from the last sampling date. Your next sample needs to be collected from the entry point to the distribution system during any quarter in the 2020 calendar year. Your future monitoring requirements will be based upon a review of your next sample.

Please forward a copy of your monitoring requirements on to your certified laboratory.

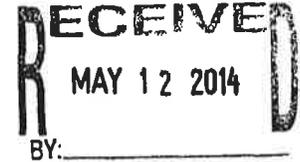
If you have any questions or need further assistance please contact Todd Ritter at (502) 564-3410 ext. 4981 or Todd.Ritter@ky.gov.

Sincerely,



Todd Ritter  
Compliance Officer

Consumer Confidence Report (CCR) Certification



PWS Name: Martin County Water District PWSID#: KY0800273 Population Served: 10395

I, the undersigned, certify that our system's Consumer Confidence Report for calendar year 2013 was prepared and distributed according to the requirements for our system in 40 CFR 141.153, 141.154, and 141.155 and appropriate notices of availability have been given. Also, I certify that the report contains information that is correct and consistent with the compliance monitoring data previously submitted to the Division of Water.

Date information to purchasers: \_\_\_\_\_  Written agreed alternative date on file. (Required if after April 1)  
PWSIDs of purchasers: \_\_\_\_\_

Date CCR distributed to customers: 5/2/2014 Date CCR sent to Division of Water: 5-8-14

1. CCR main/primary distribution method:  Mailed  Hand Delivery  Electronic Delivery\*  Newspaper\*\*

\*Electronic Delivery list URL: www.krwa.org/2013ccr/martincounty.pdf

\*Electronic Delivery CCR Final Packet sent to DOW shall include hard copies of: Copy of CCR from Website, Bill insert/bill with notification of e-delivery, email notification to e-pay/auto-pay e-delivery including subject line, the # of emails sent and the # bounce back emails with a statement that indicates hardcopies were mailed to the bounced back email customers along with a copy of the notification Good Faith Effort Distribution method for e-delivery must be a non-electronic method.

\*\*Name of newspaper & date printed with the newspaper clipping of CCR showing the date the report was printed is required. To use newspaper as the primary distribution method, your system must:

- a) Have a POPULATION less than 10,000; b) Publish the report in a local newspaper by July 1; c) Notify your customers by July 1<sup>st</sup> that the report will not be mailed unless requested, and it is available upon request.

Indicate how you notified customers that CCR will not be mailed unless requested. (example: Message on water bill, statement in newspaper, etc.) (Required if published in newspaper): Message on water bill

If your system serves a population of less than 500, you only need to notify your customers by July 1 that the report is available upon request. Indicate how customers were notified & how the report was made available upon request: \_\_\_\_\_

2. CCR secondary/"Good faith" efforts (GFEs) to reach the non-bill-paying customers (indicate methods used)

Posting the CCR on the Internet URL: \_\_\_\_\_ (N/A with E-delivery as main distribution method)

- a)  Delivering multiple copies to non-bill-paying consumers at apartments, rest homes, hospitals, schools, factories, & etc. (list locations).
- b)  Delivering to community organizations (attach list).
- c)  Posting the CCR or an announcement of its availability in public places (attach list of locations).
- d)  Publishing CCR or an announcement of its availability in local newspaper (attach copy).
- e)  Advertising availability of the CCR in news media. (attach copy of announcement) (N/A with E-delivery as main distribution method)
- f)  Mailing CCR to postal patrons within the service area (attach zip codes used).
- g)  Other (attach description of additional methods used or explanation or use back of sheet).

Name: John Mills Signature: \_\_\_\_\_

Title: General Manager Phone: (606) 298-3885 email: j.mills@bellouth.net

Address: 387 E. Main St. Date: 5-8-14

Site 140 Jrez, KY 41204  
Mail CCR & certification to:

Kentucky Division of Water  
Compliance Technical Assistance Section  
200 Fair Oaks Lane, 4th Floor  
Frankfort, KY 40601

ATTN: CCR

46

## Martin County Water District Water Quality Report 2013

Water System ID: KY0800273  
Manager: John Mills  
606-298-3885

CCR Contact: Tom Alley  
606-298-7439  
etalley47@bellsouth.net

Mailing Address:  
387 E Main St. Suite 140  
Inez, KY 41224

Meeting location and time:  
Water District Office  
Fourth Monday at 4:00 PM

Martin County Water District treats surface water withdrawn from Crum Reservoir and replenished from Tug River. Finished water was also purchased from Prestonsburg Utilities to supply water to the Industrial Park. The source for Prestonsburg is surface water from the Levisa Fork of the Big Sandy River. Potential contaminant sources of concern include major roads, bridges and culverts. Other potential impacts include the coal industry, oil and gas industries, and straight pipes. Many of the potential contaminant sites are located along the Tug Fork of the Big Sandy. With each rainfall, herbicides, pesticides, fertilizers, animal manure and household chemicals are washed from impervious surfaces and other land areas into storm drains, ditches, sinkholes or streams that flow into our nearby waterways. Source Water Assessment Plans have been developed for both water systems. The assessments are available for review at each of the respective water system offices and/or local public libraries.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

### Information About Lead:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

### Some or all of these definitions may be found in this report:

**Maximum Contaminant Level (MCL)** - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG)** - the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**Maximum Residual Disinfectant Level (MRDL)** - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG)** - the level of a drinking water disinfectant below which there is no known or expected risk to health.

MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Below Detection Levels (BDL)** - laboratory analysis indicates that the contaminant is not present.

**Not Applicable (N/A)** - does not apply.

**Parts per million (ppm)** - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb)** - or micrograms per liter, ( $\mu\text{g/L}$ ). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**Parts per trillion (ppt)** - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

**Parts per quadrillion (ppq)** - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

**Picocuries per liter (pCi/L)** - a measure of the radioactivity in water.

**Millirems per year (mrem/yr)** - measure of radiation absorbed by the body.

**Million Fibers per Liter (MFL)** - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

**Nephelometric Turbidity Unit (NTU)** - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

**Variations & Exemptions (V&E)** - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

**Action Level (AL)** - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

**Treatment Technique (TT)** - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Unless otherwise noted, the report level is the highest level detected.

	Allowable Levels	Source	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity
Turbidity (NTU) TT * Representative samples of filtered water	No more than 1 NTU Less than 0.3 NTU in 95% monthly samples	M= P=	0.16 0.265	100 100	No	Soil runoff

### Regulated Contaminant Test Results

Contaminant [code] (units)	MCL	MCLG	Source	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Alpha emitters [4000] (pCi/L)	15	0	M=	1.7	1.7 to 1.7	Aug-08	No	Erosion of natural deposits
Combined radium (pCi/L)	5	0	P=	0.7	0.7 to 0.7	Jul-11	No	Erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	M=	0.030 (90 <sup>th</sup> percentile)	0 to 0.28	Aug-11	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	M= P=	0.85 0.85	0.85 to 0.85 0.85 to 0.85	Apr-13 Apr-13	No	Water additive which promotes strong teeth
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	M=	3 (90 <sup>th</sup> percentile)	0 to 6	Aug-11	No	Corrosion of household plumbing systems
Nitrate [1040] (ppm)	10	10	M= P=	0.23 0.35	0.23 to 0.23 0.35 to 0.35	Oct-13 Jul-13	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Total Organic Carbon (ppm) (report level=lowest avg. range of monthly ratios)	TT*	N/A	M= P=	1.68 1.00	1.00 to 4.23 0.67 to 1.38	N/A	No	Naturally present in environment.
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.								
Chlorine (ppm)	MRDL = 4	MRDLG = 4	M=	1.11 (highest average)	0.54 to 1.65	N/A	No	Water additive used to control microbes.
HAA (ppb) (all sites) [Haloacetic acids]	60	N/A	M= P=	68 41 (average)	44 to 89 14 to 80 (range of system sites)	N/A	No	Byproduct of drinking water disinfection
HAA (ppb) [Haloacetic acids] (Individual Sites)	60	N/A	M=	N/A (high site average)	20 to 31 (range of individual sites)	N/A	No	Byproduct of drinking water disinfection
TTHM (ppb) (all sites) [total trihalomethanes]	80	N/A	M= P=	84 65 (average)	36 to 106 26 to 136 (range of system sites)	N/A	No *	Byproduct of drinking water disinfection
TTHM (ppb) [total trihalomethanes] (Individual Sites)	80	N/A	M=	N/A (high site average)	60 to 100 (range of individual sites)	N/A	No	Byproduct of drinking water disinfection.

\* Less than one year of sampling where results of all sample sites were combined and averaged. Each site will now be averaged individually.

**Violations**

During 2013 public notifications were distributed for several violations after our water system violated drinking water requirements. Even though these were not emergencies, as our customers, you have a right to know what happened and what we are doing to correct these situations. We had several violations for not completing all reporting requirements or failing to meet required water quality levels. The table below lists the violations that we performed public notification for during 2013.

<b>Violation</b>	<b>Begin Date</b>	<b>End Date</b>	<b>Explanation</b>
9951145 MOR	2/1/2013	2/28/2013	Monthly Operation Report arrived late at Division of Water
9951146 Chlorine	2/1/2013	2/28/2013	Report within late arriving MOR
9951147 Turbidity	2/1/2013	2/28/2013	Report within late arriving MOR
9951148 HAA	1/1/2013	3/31/2013	Exceeded haloacetic acids (HAA) MCL
9951149 THM	1/1/2013	3/31/2013	Exceeded trihalomethanes (THM) MCL
9951150 HAA	4/1/2013	6/30/2013	Exceeded haloacetic acids (HAA) MCL

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

There are no health effects for failing to submit required documentation or clerical errors. In the future we will make efforts to submit correct documents at the proper time to the regulatory agencies. We have requested the Kentucky Rural Water Association to assist with monitoring, reporting, and operational activities in an effort to prevent future violations of this type.

## Water Quality – Consumer Confidence Report “Good Faith Effort”

System: Martin County Water District    PWSID: KY0800273

State and Federal regulations require that a community water system provide an annual report to its customers containing information on the quality of the water delivered by the system. The report must also include the risks from exposure to contaminants detected in the drinking water.

The water system must also make a good-faith effort to reach consumers who do not get water bills. A good-faith effort is to be tailored to the consumer who is served by the system but is not a bill-paying customer, such as a renter or worker.

Date	Name of Facility
05/06/14	Martin County Court House
05/06/14	Martin Co. Public Libraries
05/06/14	Quail Hollow Apts.
05/06/14	Dempsey Housing
05/06/14	Martin County Health Dept.
05/06/14	Inez Post Office
05/06/14	Warfield Post Office

I, the undersigned, confirm that a copy of the Consumer Confidence Report was prepared and distributed to the above listed facilities. Information contained in the report furnished to the facilities is identical to information provided to the billed consumers.

Printed Name: John Mills

Signature: \_\_\_\_\_ Date: 5-6-14

Martin County Water District  
87 East Main St., Suite 140  
Inez, KY 41224 (606) 298-3885

BILL DATE 5/20/2014  
ACCOUNT [REDACTED]  
Bring Entire Card When Paying  
In Person

PRESORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

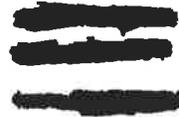
Return Service Requested

LOCATION 192 Marcumtown Rd

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
---------	---------	------------	------------	-----------	-----------	-------	--------

Previous Due [REDACTED] NET DUE NOW [REDACTED]

After Hours Emergency Number: (606) 298-7439



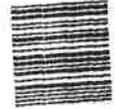
In 2013, Martin County Water District detected 11 contaminants in the drinking water and none of them were above the EPA accepted level for drinking water. Please go to [www.krwa.org/2013ccr/martincounty.pdf](http://www.krwa.org/2013ccr/martincounty.pdf) to view your 2013 annual water quality report and learn more about your drinking water. This report contains important information about the source and quality of your drinking water. To speak with someone about the report, please call (606) 298-3885. If you would like a paper copy of the 2013 Annual Water Quality Report mailed to your home please check the paper copy box and mail back with your payment or call (606) 298-3885. Mail a copy

MARTIN CO WATER DISTRICT NO 1

Martin County Utility Board  
387 E Main St Suite 140  
Inez, KY 41224  
(606)298-3885



7013 0600 0001 0072 0188



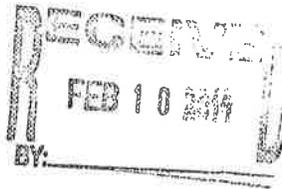
U.S. POSTAGE  
PAID  
1961257  
MAY 08 14  
AMOUNT

\$7.19

1000

Handwritten address:  
Compliance Technical Assistance  
200 West Oaks Lane  
Franklin, VA 24050





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

01/2014

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	KY0800273	PLANT ID:	A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS:	3	DIST. CLASS:	2
AGENCY INTEREST (AI):	2987	DATE MAILED:	02-07-2014		
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin		
	Tug Fork				
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	Earl T Alley	1V-A	17562		
WTP SHIFT 2:	Michael Sartin	1V-A	21944		
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719		
DISTRIBUTION:					

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm):	1,667
2. TYPE OF FILTRATION USED:	Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	2.66
4. PERCENT BACKWASH WATER USED:	1.1
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	#2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED:	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

*Earl T. Alley*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

02-07-2014

DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 01/2014  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,933,000	24.0	359.9	22.3	4.2	0.3			306.6	19.0	159.8	9.9
2	1,868,000	24.0	359.9	23.1	4.2	0.3			288.8	17.3	159.8	10.3
3	1,926,000	24.0	359.9	22.4	4.2	0.3			283.0	17.6	147.8	9.2
4	1,880,000	24.0	359.9	23.0	4.2	0.3			283.0	18.0	159.8	10.2
5	1,964,000	24.0	359.9	22.0	4.2	0.3			302.6	18.5	161.8	9.9
6	1,916,000	23.5	352.3	22.0	4.1	0.3			302.6	18.9	156.8	9.8
7	1,987,000	24.0	359.9	21.7	4.2	0.3			309.2	18.7	159.8	9.6
8	1,932,000	24.0	359.9	22.3	4.2	0.3			263.2	16.3	159.8	9.9
9	1,945,000	24.0	359.9	22.2	4.2	0.3			258.5	15.9	151.6	9.3
10	1,866,000	24.0	359.9	21.9	4.2	0.3			268.8	16.4	159.8	9.7
11	1,929,000	24.0	359.9	22.4	4.2	0.3			263.2	16.4	159.8	9.9
12	2,036,000	24.0	454.7	26.8	4.2	0.2			312.4	18.4	165.7	9.8
13	2,002,000	24.0	454.7	27.2	4.2	0.3			304.1	18.2	172.0	10.3
14	2,030,000	24.0	391.4	23.1	4.2	0.2			295.7	17.5	169.2	10.0
15	2,011,000	24.0	328.2	19.6	4.2	0.3			297.1	17.7	163.5	9.7
16	2,051,000	24.0	312.5	18.3	4.2	0.2			304.6	17.8	159.8	9.3
17	1,985,000	23.0	299.5	18.1	4.0	0.2			306.6	18.5	162.1	9.8
18	2,052,000	24.0	312.5	18.3	4.2	0.2			319.0	18.6	169.2	9.9
19	1,987,000	23.0	282.9	17.1	4.0	0.2			312.3	18.8	169.2	10.2
20	2,043,000	24.0	265.1	15.6	4.2	0.2			292.3	17.2	169.2	9.9
21	2,022,000	24.0	265.1	15.7	4.2	0.2			289.5	17.2	169.2	10.0
22	2,036,000	24.0	265.1	15.6	4.2	0.2			319.0	18.8	169.2	10.0
23	2,024,000	24.0	265.1	15.7	4.2	0.2			296.4	17.7	164.7	9.8
24	2,028,000	24.0	265.1	15.7	4.2	0.2			302.6	17.9	169.2	10.0
25	1,993,000	24.0	265.1	15.9	4.2	0.3			295.7	17.8	169.2	10.2
26	1,925,000	24.0	265.1	16.5	4.2	0.3			283.3	17.6	169.2	10.5
27	1,928,000	24.0	265.1	16.5	4.2	0.3			286.4	17.8	169.2	10.5
28	1,927,000	23.5	259.7	16.2	4.1	0.3			283.4	17.6	165.7	10.3
29	1,804,000	23.0	254.2	16.9	4.0	0.3			268.0	17.8	163.2	10.2
30	1,984,000	24.0	265.1	16.0	4.2	0.3			304.6	18.4	165.1	10.0
31	2,039,000	24.0	265.1	15.6	4.2	0.2			311.9	18.3	163.2	10.8
TOTAL	61,153,000		9952.6		129.4		0.0		9096.6		5083.4	
AVERAGE	1,972,677		321.1	19.5	4.2	0.3	#DIV/0!	#DIV/0!	293.4	17.8	164.0	10.0
MAX	2,052,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 01/2014

PAGE 3 OF 11

DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.54	7.48	7.34	71	69	141	135	0.77	0.70	2.03	1.95	17.70	0.17	0.05
2	7.50	7.45	7.30	71	65	123	115	0.70	0.63	1.99	1.91	16.50	0.16	0.05
3	7.49	7.45	7.30	64	60	126	122	0.71	0.65	1.92	1.86	16.40	0.16	0.05
4	7.51	7.42	7.31	43	40	123	120	0.66	0.59	1.99	1.91	17.50	0.14	0.05
5	7.46	7.41	7.30	45	41	115	111	0.73	0.65	2.03	1.95	17.00	0.16	0.04
6	7.48	7.39	7.29	52	47	114	108	0.85	0.80	2.15	2.05	16.90	0.18	0.06
7	7.44	7.34	7.24	46	42	125	121	0.70	0.65	1.86	1.79	16.40	0.19	0.05
8	7.45	7.38	7.29	77	72	90	86	0.61	0.50	1.86	1.82	16.40	0.20	0.06
9	7.38	7.31	7.21	70	66	115	109	0.78	0.70	1.98	1.94	16.00	0.20	0.04
10	7.41	7.35	7.24	60	55	115	110	0.75	0.67	1.94	1.88	15.80	0.23	0.04
11	7.43	7.30	7.19	62	59	112	110	0.74	0.63	2.06	1.98	15.60	0.23	0.05
12	7.28	7.21	7.10	38	34	102	100	0.74	0.65	2.01	1.91	47.10	0.42	0.07
13	7.21	7.22	7.11	54	50	108	103	0.59	0.52	1.94	1.89	37.30	0.30	0.06
14	7.27	7.23	7.13	44	38	96	90	0.68	0.58	1.99	1.89	26.70	0.30	0.06
15	7.27	7.24	7.10	53	45	80	78	0.66	0.56	1.99	1.92	21.20	0.26	0.06
16	7.16	7.19	7.08	51	44	78	75	0.70	0.63	1.92	1.86	19.40	0.20	0.04
17	7.24	7.18	7.06	44	39	88	84	0.58	0.53	1.88	1.82	19.20	0.24	0.06
18	7.20	7.19	7.15	50	46	79	73	0.75	0.70	1.99	1.94	17.30	0.29	0.05
19	7.10	7.14	7.04	40	35	68	65	0.61	0.54	2.00	1.93	14.90	0.21	0.04
20	7.19	7.10	7.03	38	34	79	75	0.77	0.71	1.92	1.82	13.50	0.26	0.06
21	7.19	7.09	7.02	47	41	87	83	0.82	0.77	1.97	1.89	12.80	0.39	0.06
22	7.15	7.08	6.99	30	25	70	64	0.68	0.55	1.87	1.82	11.50	0.37	0.08
23	7.11	7.16	7.20	40	37	74	70	0.74	0.68	1.90	1.83	10.40	0.31	0.05
24	7.07	7.08	7.14	39	35	82	77	0.80	0.75	1.96	1.90	10.40	0.36	0.05
25	7.08	7.09	7.14	24	22	92	90	0.82	0.75	2.00	1.92	9.89	0.54	0.05
26	7.15	7.12	7.19	27	23	94	90	0.71	0.64	1.94	1.86	9.44	2.19	0.23
27	7.12	7.06	7.16	32	27	94	91	0.71	0.64	2.01	1.94	9.18	2.14	0.30
28	7.00	7.01	7.11	42	37	77	72	0.77	0.69	2.01	1.91	9.07	2.17	0.63
29	7.15	7.09	7.21	64	60	61	58	0.77	0.66	1.90	1.82	8.83	2.07	0.24
30	7.03	7.08	7.16	52	45	55	52	0.74	0.64	1.89	1.81	8.59	0.50	0.10
31	7.12	7.10	7.22	48	44	71	65	0.70	0.63	1.94	1.87	7.12	0.43	0.10
AVERAGE	7.3	7.2	7.2	49	44	95	90	0.72	0.64	1.96	1.89	16.32	0.52	0.09

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 01/2014

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	17.70		0.17	0.16						0.04	0.05	0.07	0.05		0.05
2	16.50		0.18	0.16						0.05	0.06	0.08	0.05		0.05
3	16.40		0.18	0.16						0.04	0.06	0.08	0.05		0.05
4	17.50		0.15	0.14						0.04	0.05	0.07	0.06		0.05
5	17.00		0.18	0.17						0.04	0.05	0.06	0.05		0.05
6	16.90		0.19	0.16						0.05	0.06	0.07	0.05		0.06
7	16.40		0.19	0.19						0.05	0.05	0.07	0.05		0.05
8	16.40		0.20	0.19						0.05	0.05	0.07	0.06		0.05
9	16.00		0.22	0.26						0.05	0.06	0.06	0.05		0.05
10	15.80		0.24	0.33						0.05	0.06	0.05	0.05		0.05
11	15.60		0.32	0.31						0.05	0.06	0.11	0.07		0.06
12	47.10		1.24	0.99						0.09	0.12	0.43	0.21		0.19
13	37.30		0.35	0.35						0.06	0.08	0.13	0.05		0.07
14	26.70		0.30	0.30						0.06	0.07	0.12	0.05		0.07
15	21.20		0.24	0.27						0.05	0.06	0.12	0.06		0.06
16	19.40		0.22	0.26						0.04	0.06	0.06	0.05		0.05
17	19.20		0.34	0.34						0.07	0.09	0.07	0.05		0.06
18	17.30		0.36	0.35						0.06	0.07	0.08	0.05		0.06
19	14.90		0.28	0.26						0.05	0.06	0.09	0.07		0.06
20	13.50		0.35	0.35						0.05	0.06	0.06	0.05		0.05
21	12.80		0.43	0.43						0.07	0.10	0.06	0.06		0.06
22	11.50		0.42	0.41						0.06	0.08	0.09	0.05		0.06
23	10.40		0.38	0.33						0.05	0.06	0.09	0.08		0.06
24	10.40		0.43	0.39						0.05	0.06	0.08	0.07		0.06
25	9.89		0.47	1.48						0.06	0.09	0.06	0.06		0.06
26	9.44		0.45	4.37						0.05	0.07	1.38	0.33		0.40
27	9.18		0.41	4.20						0.05	0.08	1.55	0.93		0.50
28	9.07		0.61	3.95						0.04	0.05	0.22	1.22		0.71
29	8.83		0.47	4.01						0.06	0.05	1.39	0.45		0.46
30	8.59		0.43	0.69						0.07	0.05	0.27	0.06		0.11
31	8.49		0.44	0.58						0.06	0.04	0.31	0.06		0.11
AVERAGE	16.4	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.06	0.24	0.15	#DIV/0!	0.12

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 01/2014

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)								Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	FLUORIDE		IRON		MANGANESE		RAW	TAP			
	RAW	TAP	RAW	TAP	RAW	TAP					
1	0.08	0.79	0.27	0.03	0.09	0.01			1.90	0.0	8.1
2	0.03	1.00	0.32	0.04	0.09	0.01			1.75	0.0	7.5
3	0.16	1.02	0.50	0.03	0.10	0.01			1.75	0.2	7.4
4	0.17	1.00	0.52	0.03	0.08	0.01			1.75	0.0	7.2
5	0.06	0.85	0.27	0.03	0.10	0.01			1.90	0.0	6.8
6	0.15	0.92	0.49	0.03	0.08	0.01			1.70	0.4	7.1
7	0.08	0.87	0.46	0.03	0.08	0.01			1.80	0.0	8.1
8	0.05	0.97	0.32	0.03	0.08	0.01			1.85	0.0	7.2
9	0.11	0.81	0.25	0.03	0.09	0.01			1.75	0.0	7.1
10	0.11	1.01	0.44	0.03	0.08	0.01			1.75	0.2	8.2
11	0.10	1.00	0.42	0.03	0.07	0.01			1.75	0.4	8.0
12	0.00	0.90	0.49	0.03	0.21	0.01			1.80	0.4	7.0
13	0.00	0.90	0.95	0.03	0.16	0.01			1.80	0.0	7.1
14	0.06	0.96	0.70	0.03	0.11	0.01			1.90	0.4	8.1
15	0.02	0.79	0.29	0.03	0.10	0.01			1.75	0.0	7.2
16	0.12	0.96	0.15	0.04	0.10	0.01			1.75	0.0	7.2
17	0.04	0.84	0.51	0.03	0.09	0.01			1.85	0.0	7.8
18	0.00	0.84	0.27	0.03	0.09	0.01			1.80	0.0	7.0
19	0.16	0.83	0.23	0.03	0.09	0.01			1.85	0.0	6.8
20	0.17	0.83	0.37	0.03	0.08	0.01			1.85	0.0	8.5
21	0.14	0.89	0.37	0.03	0.08	0.01			1.85	0.1	8.0
22	0.17	0.97	0.21	0.03	0.07	0.01			1.85	0.2	6.6
23	0.16	0.97	0.34	0.03	0.07	0.01			1.75	0.0	7.3
24	0.24	0.94	0.25	0.03	0.06	0.01			1.75	0.0	7.8
25	0.17	0.93	0.21	0.03	0.07	0.01			1.80	0.0	6.1
26	0.19	0.91	0.20	0.03	0.07	0.01			1.75	0.1	6.5
27	0.16	0.92	0.27	0.03	0.07	0.01			1.75	0.0	7.5
28	0.24	0.80	0.08	0.03	0.06	0.01			1.65	0.0	7.9
29	0.14	0.81	0.22	0.03	0.06	0.01			1.65	0.0	7.0
30	0.14	0.84	0.22	0.03	0.06	0.01			1.75	0.0	5.9
31	0.14	0.93	0.27	0.03	0.06	0.01			1.80	0.0	6.1
AVERAGE	0.11	0.90	0.35	0.03	0.09	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	TOTAL Rainfall	7.3

Number of readings	31
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 01/2014

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DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	180	AREA (square feet)	FILT RUN HRS						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	28,000	14,000	95.90	14,000	95.90						
3	0										
4	25,000					13,000	94.90	12,000	94.90		
5	0										
6	24,000	12,000	93.70	12,000	93.70						
7	0										
8	28,000					14,000	94.30	14,000	94.30		
9	22,000	11,000	91.10	11,000	91.10						
10	0										
11	24,000					12,000	87.30	12,000	87.40		
12	0										
13	24,000	12,000	91.10	12,000	91.10						
14	0										
15	38,000					18,000	91.00	18,000	91.20		
16	0										
17	31,000	16,000	91.80	15,000	91.90						
18	0										
19	31,000					15,000	94.40	16,000	94.40		
20	0										
21	26,000	13,000	98.00	13,000	97.90						
22	0										
23	34,000					17,000	98.70	17,000	98.70		
24	0										
25	28,000	14,000	95.40	14,000	95.40						
26	66,000					33,000	70.40	33,000	70.40		
27	64,000					34,000	19.60	30,000	20.00		
28	59,000					31,000	21.10	28,000	21.30		
29	70,000					36,000	24.20	34,000	24.30		
30	27,000	13,000	109.60	14,000	109.60						
31	0										
TOTAL	647,000	105,000	766.60	105,000	766.60	223,000	695.90	214,000	696.90	0	0.00
AVERAGE	20,871	13,125	95.825	13,125	95.825	22,300	69.590	21,400	69.690	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 01/2014

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
	T	F	T	F	T	F	T	F			
1			1.38	1.32	1.62	1.60	1.55	1.52	1.69	1.63	
2			1.67	1.60	1.53	1.49	1.79	1.76	1.82	1.80	
3			1.63	1.56	1.79	1.73	1.75	1.66	1.35	1.28	
4			1.41	1.34	1.22	1.15	1.52	1.46	1.67	1.59	
5			1.52	1.44	1.21	1.14	1.43	1.37	1.77	1.71	
6			1.39	1.34	1.17	1.12	1.60	1.57	1.48	1.43	
7			1.45	1.37	1.40	1.36	1.28	1.23	1.45	1.37	
8			1.25	1.20	1.69	1.66	1.69	1.65	1.61	1.56	
9			1.74	1.69	1.61	1.57	1.53	1.47	1.44	1.40	
10			1.67	1.61	1.04	1.02	1.49	1.45	1.25	1.16	
11			1.43	1.34	1.77	1.65	1.12	0.98	1.50	1.38	
12			1.82	1.75	1.79	1.71	1.19	1.10	0.75	0.67	
13			1.54	1.46	1.69	1.65	1.60	1.55	1.61	1.55	
14			1.52	1.46	1.55	1.38	1.58	1.55	1.36	1.31	
15			0.85	0.60	1.57	1.50	1.56	1.49	1.64	1.62	
16			1.53	1.46	1.72	1.69	1.65	1.62	1.70	1.63	
17			1.40	1.33	1.22	1.18	1.14	1.04	1.35	1.32	
18			1.46	1.39	0.51	0.44	1.35	1.26	1.63	1.53	
19			1.31	1.26	1.06	0.99	1.55	1.46	1.14	1.09	
20			0.87	0.79	1.46	1.41	1.64	1.58	1.67	1.64	
21			1.65	1.56	1.75	1.71	1.71	1.62	1.77	1.73	
22			1.20	1.15	0.93	0.85	1.12	0.98	1.13	1.04	
23			1.48	1.40	1.27	1.24	1.50	1.46	1.49	1.44	
24			1.53	1.46	1.44	1.38	1.63	1.56	1.05	0.97	
25			1.58	1.51	1.33	1.26	0.98	0.91	1.24	1.19	
26			1.59	1.53	1.48	1.40	0.89	0.83	1.66	1.59	
27			1.67	1.58	0.86	0.64	1.57	1.50	1.78	1.72	
28			1.53	1.49	1.32	1.19	1.67	1.55	1.60	1.53	
29			1.43	1.33	1.32	1.22	1.40	1.34	1.68	1.61	
30			1.18	1.12	1.66	1.49	1.62	1.53	1.65	1.59	
31			1.63	1.54	1.37	1.31	1.63	1.56	1.69	1.59	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.46	1.39	1.39	1.33	1.47	1.41	1.50	1.44
TOTAL	0.0	0.0	Total Minimum	0.65		0.51		0.89		0.75	
			Free Minimum		0.60		0.44		0.83		0.67

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	0	0	0	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.44
Number of Total Residuals	124	Minimum Monthly Total Residual	0.51
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 01/2014

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.048	
2	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
3	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
4	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
5	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
6	23.5	6	0.05	0.06	0.05	0.05	0.05	0.05	0.055	
7	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
8	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
9	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
10	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
11	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
12	24.0	6	0.19	0.05	0.05	0.05	0.05	0.05	0.194	
13	24.0	6	0.05	0.05	0.06	0.07	0.06	0.07	0.071	
14	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.068	
15	24.0	6	0.06	0.06	0.06	0.06	0.05	0.05	0.062	
16	24.0	6	0.05	0.04	0.05	0.05	0.05	0.05	0.050	
17	23.0	6	0.05	0.05	0.05	0.05	0.06	0.06	0.064	
18	24.0	6	0.06	0.06	0.06	0.06	0.06	0.05	0.059	
19	23.0	6	0.05	0.05	0.05	0.06	0.06	0.05	0.057	
20	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
21	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
22	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.061	
23	24.0	6	0.06	0.06	0.05	0.06	0.06	0.06	0.063	
24	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.060	
25	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
26	24.0	6	0.13	0.21	0.21	0.40	0.19	0.09	0.399	
27	24.0	6	0.12	0.34	0.22	0.47	0.31	0.50	0.503	
28	23.5	6	0.71	0.25	0.44	0.57	0.07	0.14	0.708	
29	23.0	6	0.26	0.30	0.41	0.47	0.26	0.10	0.467	
30	24.0	6	0.08	0.08	0.10	0.10	0.11	0.10	0.110	
31	24.0	6	0.11	0.11	0.11	0.10	0.10	0.10	0.110	
Total	740.0	186	TOTAL # OF TURBIDITY SAMPLES TAKEN --						186	0.708

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 26 0.3 NTU 10 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley Signature of Principal Executive Officer or Authorized Agent 02-07-2014 Date

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

APPLICABLE TO ALL SURFACE WATER PLANTS WITH FILTRATION

**INDIVIDUAL FILTER TURBIDITY EXCEEDANCE REPORT**

PWS Name: Martin County Water District  
PWS ID: KY0800273  
PLANT ID: A  
Report Period (MM/YYYY): 01/2014

If any filter exceeded any one of the individual filter turbidity triggers below, (also listed on the Summary Sheet), complete the following and submit the appropriate report(s).

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Date	Filter Number	Turbidity Reading (NTU)	Trigger Level (see below)	Reason for Exceedance (if known)	Date and Time State was Contacted
1-26-14	5	↑			
1-27-14	5 + 6	See attached		Mechanical	2-7-14
1-28-14	5 + 6	Sheets		Failure	9:30AM
1-29-14	5	↓			

- Trigger Levels:**
- A. Any one filter has a measured turbidity level of greater than 1.0 NTU in 2 consecutive measurements taken 15 minutes apart.
  - B. Any one filter has a measured turbidity level of greater than 0.5 NTU in 2 consecutive measurements taken 15 minutes apart at the end of the first 4 hours of operation following a backwash or return to service.
  - C. Any one filter has a measured turbidity level of greater than 1.0 NTU in 2 consecutive measurements taken 15 minutes apart at any time in each of 3 consecutive months.
  - D. Any one filter has a measured turbidity level of greater than 2.0 NTU in 2 consecutive measurements taken 15 minutes apart at any time in each of 2 consecutive months.

- Report Required:**
- For Trigger A.: Filter number, the turbidity measurement, the date of exceedance and filter profile within 7 days of the exceedance, if no obvious reason for the exceedance
  - For Trigger B.: Filter number, the turbidity measurement, the date of exceedance and filter profile within 7 days of the exceedance, if no obvious reason for the exceedance
  - For Trigger C.: Filter number, the turbidity measurement, the date of exceedance and a filter self-assessment within 14 days of the exceedance
  - For Trigger D.: Filter number, the turbidity measurement, the date of exceedance and arrange for a Comprehensive Performance Evaluation (CPE) with the Drinking Water Branch no later than 30 days following the exceedance

**MAKE COPIES AS NEEDED**

25/01/2014 12:45:00 PM	0.048415	0.044079	0.057627	0.056723	0.050958	1.82
25/01/2014 1:00:00 PM	0.048583	0.044309	0.057865	0.056501	0.051386	1.82
25/01/2014 1:15:00 PM	0.048286	0.04483	0.058037	0.05666	0.050936	1.81
25/01/2014 1:30:00 PM	0.048317	0.042666	0.057889	0.056505	0.051283	1.83
25/01/2014 1:45:00 PM	0.048478	0.044148	0.057636	0.056191	0.050974	1.85
25/01/2014 2:00:00 PM	0.048372	0.043637	0.057521	0.056329	0.051023	1.85
25/01/2014 2:15:00 PM	0.048497	0.044351	0.057392	0.05601	0.050199	1.86
25/01/2014 2:30:00 PM	0.048748	0.043398	0.057913	0.056501	0.048897	1.87
25/01/2014 2:45:00 PM	0.048368	0.044088	0.058057	0.056442	0.050947	1.88
25/01/2014 3:00:00 PM	0.048078	0.043163	0.058128	0.056329	0.04733	1.88
25/01/2014 3:15:00 PM	0.048039	0.044227	0.057646	0.056144	0.050128	1.88
25/01/2014 3:30:00 PM	0.04809	0.044181	0.058401	0.056036	0.050302	1.88
25/01/2014 3:45:00 PM	0.048137	0.043495	0.058109	0.05573	0.050779	1.88
25/01/2014 4:00:00 PM	0.047961	0.043006	0.057154	0.055562	0.051478	1.88
25/01/2014 4:15:00 PM	0.047671	0.043812	0.057727	0.05609	0.051017	1.88
25/01/2014 4:30:00 PM	0.048133	0.043812	0.057292	0.055491	0.051148	1.87
25/01/2014 4:45:00 PM	0.048118	0.043343	0.057044	0.05557	0.050795	1.88
25/01/2014 5:00:00 PM	0.047969	0.043909	0.057388	0.055797	0.050627	1.91
25/01/2014 5:15:00 PM	0.047918	0.043646	0.057435	0.055462	0.047292	1.96
25/01/2014 5:30:00 PM	0.050646	0.046432	0.057407	0.055214	0.049152	2.02
25/01/2014 5:45:00 PM	0.050497	0.050253	0.057708	0.060552	0.050247	2.01
25/01/2014 6:00:00 PM	0.050446	0.231759	0.139568	0.057062	0.050323	2.35
25/01/2014 6:15:00 PM	0.049902	0.291312	0.134508	0.05591	0.050714	2.45
25/01/2014 6:30:00 PM	0.120769	0.299673	0.132922	0.05552	0.050833	2.53
25/01/2014 6:45:00 PM	0.093973	0.270005	0.206755	0.054745	0.050302	2.44
25/01/2014 7:00:00 PM	0.076973	0.151114	0.168307	0.054159	0.05015	2.34
25/01/2014 7:15:00 PM	0.06877	0.105787	0.131794	0.053547	0.05034	2.25
25/01/2014 7:30:00 PM	0.063944	0.084995	0.111703	0.052328	0.04881	2.18
25/01/2014 7:45:00 PM	0.061545	0.076068	0.100676	0.051264	0.048534	2.13
25/01/2014 8:00:00 PM	0.059917	0.07174	0.094049	0.050635	0.047666	2.08
25/01/2014 8:15:00 PM	0.058344	0.068112	0.090556	0.04999	0.047135	2.05
25/01/2014 8:30:00 PM	0.057498	0.06832	0.087981	0.049542	0.046234	2.03
25/01/2014 8:45:00 PM	0.056653	0.064397	0.086519	0.049424	0.046479	2.01
25/01/2014 9:00:00 PM	0.056489	0.06268	0.08445	0.049596	0.046251	2.01
25/01/2014 9:15:00 PM	0.057119	0.062224	0.082653	0.04898	0.04643	2
25/01/2014 9:30:00 PM	0.072292	0.062251	0.081746	0.136195	0.045866	2
25/01/2014 9:45:00 PM	0.078475	0.058937	0.079825	0.116508	0.045947	1.99
25/01/2014 10:00:00 PM	0.082397	0.060235	0.078554	0.14268	0.046511	1.98
25/01/2014 10:15:00 PM	0.088936	0.05802	0.077116	0.164013	0.046516	1.97
25/01/2014 10:30:00 PM	0.093312	0.057698	0.076409	0.187207	0.046798	1.96
25/01/2014 10:45:00 PM	0.097965	0.055143	0.076065	0.20526	0.047064	1.96
25/01/2014 11:00:00 PM	0.103632	0.054968	0.075649	0.22482	0.047243	1.95
25/01/2014 11:15:00 PM	0.107185	0.053849	0.075257	0.24447	0.047357	1.95
25/01/2014 11:30:00 PM	0.112747	0.055493	0.073637	0.257805	0.047791	1.95
25/01/2014 11:45:00 PM	0.116144	0.05337	0.073332	0.273152	0.04797	1.95

2  
2 ← Turbidity  
going up  
on #5 filter

On 1/24/14 - The Motor and Gear box that turns  
The Rake in #3 Clarifier went Down.  
This is what keeps the Sludge Blanket  
going in order to keep Turbidity Low on  
Top of Filters.

Time	Combined	Turb # 3	Turb # 4	Turb # 5	Turb # 6	Post CL2
26/01/2014 12:00:00 AM	0.118762	0.052937	0.072734	0.290044	0.048496	1.95
26/01/2014 12:15:00 AM	0.123411	0.053269	0.071956	0.299223	0.047688	1.94
26/01/2014 12:30:00 AM	0.127254	0.054093	0.072037	0.31369	0.048675	1.93
26/01/2014 12:45:00 AM	0.131133	0.052951	0.071263	0.326397	0.048219	1.93
26/01/2014 1:00:00 AM	0.135175	0.051722	0.070914	0.342577	0.04816	1.92
26/01/2014 1:15:00 AM	0.139394	0.054217	0.070814	0.353223	0.048301	1.92
26/01/2014 1:30:00 AM	0.143073	0.051676	0.070293	0.369767	0.048349	1.91
26/01/2014 1:45:00 AM	0.147722	0.053306	0.070236	0.381854	0.048425	1.9
26/01/2014 2:00:00 AM	0.142909	0.051455	0.069495	0.392496	0.048284	1.98
26/01/2014 2:15:00 AM	0.157369	0.051634	0.068931	0.379684	0.04785	2.04
26/01/2014 2:30:00 AM	0.161674	0.049342	0.06756	0.41235	0.047682	2
26/01/2014 2:45:00 AM	0.163647	0.050405	0.068305	0.434111	0.048111	1.96
26/01/2014 3:00:00 AM	0.163729	0.050893	0.069065	0.453617	0.048881	1.93
26/01/2014 3:15:00 AM	0.171478	0.051312	0.069361	0.457589	0.048583	1.9
26/01/2014 3:30:00 AM	0.173125	0.051699	0.068941	0.472537	0.048756	1.88
26/01/2014 3:45:00 AM	0.178076	0.05192	0.069342	0.480858	0.049526	1.86
26/01/2014 4:00:00 AM	0.184612	0.049719	0.06852	0.492966	0.049575	1.85
26/01/2014 4:15:00 AM	0.190494	0.048697	0.067426	0.510076	0.050312	1.83
26/01/2014 4:30:00 AM	0.194822	0.04814	0.068009	0.525959	0.050931	1.83
26/01/2014 4:45:00 AM	0.200634	0.044019	0.06734	0.542076	0.050659	1.84
26/01/2014 5:00:00 AM	0.202622	0.044199	0.067999	0.55663	0.050594	1.85
26/01/2014 5:15:00 AM	0.21421	0.044185	0.067503	0.563246	0.051934	1.86
26/01/2014 5:30:00 AM	0.213917	0.049742	0.067311	0.59186	0.051728	1.87
26/01/2014 5:45:00 AM	0.731555	0.051252	0.066709	0.555227	0.0515	1.84
26/01/2014 6:00:00 AM	0.706884	0.052928	0.067135	1.34573	0.073142	1.78
26/01/2014 6:15:00 AM	0.699049	0.052836	0.067464	1.4139	0.089823	1.74
26/01/2014 6:30:00 AM	0.701726	0.050005	0.066432	2.09393	0.253454	1.72
26/01/2014 6:45:00 AM	0.108837	0.051547	0.067789	1.49616	0.472089	1.84
26/01/2014 7:00:00 AM	0.056438	0.051188	0.066079	0.86975	0.264175	1.88
26/01/2014 7:15:00 AM	0.19721	0.051648	0.065668	0.640183	0.254848	1.92
26/01/2014 7:30:00 AM	0.148709	0.05012	0.066093	0.351878	0.270574	1.94
26/01/2014 7:45:00 AM	0.149703	0.052362	0.064918	0.347265	0.153876	1.94
26/01/2014 8:00:00 AM	0.138146	0.050516	0.064784	0.354107	0.108385	1.95
26/01/2014 8:15:00 AM	0.13307	0.051367	0.064454	0.346209	0.084313	1.94
26/01/2014 8:30:00 AM	0.133743	0.053135	0.064368	0.343892	0.07388	1.94
26/01/2014 8:45:00 AM	0.131453	0.052528	0.064378	0.346783	0.072698	1.92
26/01/2014 9:00:00 AM	0.130244	0.052477	0.064607	0.355091	0.067389	1.91
26/01/2014 9:15:00 AM	0.135747	0.052049	0.065644	0.361669	0.064276	1.92
26/01/2014 9:30:00 AM	0.173478	0.051506	0.06616	0.449905	0.083744	1.89
26/01/2014 9:45:00 AM	0.171263	0.052592	0.066251	0.605439	0.068647	1.88
26/01/2014 10:00:00 AM	0.205499	0.051271	0.06509	0.515066	0.066244	1.87
26/01/2014 10:15:00 AM	0.209381	0.050935	0.065061	0.519963	0.179314	1.87
26/01/2014 10:30:00 AM	0.215748	0.050488	0.064545	0.528619	0.193489	1.86
26/01/2014 10:45:00 AM	0.219588	0.050847	0.065037	1.82607	0.361156	1.85
26/01/2014 11:00:00 AM	0.230577	0.050166	0.064607	0.645667	0.263156	1.84
26/01/2014 11:15:00 AM	0.43489	0.049646	0.064664	1.25786	0.262467	1.84
26/01/2014 11:30:00 AM	0.358438	0.052178	0.064043	1.14463	0.270579	1.83
26/01/2014 11:45:00 AM	0.369697	0.052942	0.063432	1.17711	0.270872	1.83
26/01/2014 12:00:00 PM	0.373012	0.0511	0.063957	1.20972	0.273481	1.83
26/01/2014 12:15:00 PM	0.355166	0.050847	0.064316	1.32636	0.281663	1.83
26/01/2014 12:30:00 PM	0.382988	0.051119	0.063503	1.3185	0.283551	1.84

6:04 AM  
# Sand # 6  
Filter wash

26/01/2014 12:45:00 PM	0.396486	0.050626	0.062787	1.30769	0.275194	1.83
26/01/2014 1:00:00 PM	0.387958	0.049788	0.063613	1.30588	0.259718	1.82
26/01/2014 1:15:00 PM	0.393308	0.049646	0.063069	1.31145	0.263031	1.82
26/01/2014 1:30:00 PM	0.399131	0.051344	0.062261	1.36319	0.298951	1.81
26/01/2014 1:45:00 PM	0.401945	0.049945	0.061372	1.37433	0.300356	1.8
26/01/2014 2:00:00 PM	0.411541	0.04901	0.061559	1.38467	0.316244	1.79
26/01/2014 2:15:00 PM	0.417404	0.048775	0.06078	1.4019	0.300236	1.78
26/01/2014 2:30:00 PM	0.419572	0.047551	0.060856	1.30609	0.272157	1.76
26/01/2014 2:45:00 PM	0.427289	0.047983	0.060259	1.34108	0.256106	1.75
26/01/2014 3:00:00 PM	0.425094	0.04692	0.060068	1.33955	0.256675	1.75
26/01/2014 3:15:00 PM	0.428514	0.047408	0.060388	1.34773	0.249409	1.74
26/01/2014 3:30:00 PM	0.431078	0.047325	0.060842	1.36058	0.254219	1.73
26/01/2014 3:45:00 PM	0.434036	0.048389	0.060493	1.36538	0.260824	1.74
26/01/2014 4:00:00 PM	0.476886	0.047739	0.06111	1.37144	0.264246	1.74
26/01/2014 4:15:00 PM	0.461831	0.047795	0.061095	1.37621	0.297633	1.75
26/01/2014 4:30:00 PM	0.463952	0.050134	0.061253	1.39231	0.317942	1.74
26/01/2014 4:45:00 PM	0.463373	0.048554	0.061186	1.39843	0.317177	1.75
26/01/2014 5:00:00 PM	0.486432	0.049088	0.06174	1.40468	0.323229	1.77
26/01/2014 5:15:00 PM	0.474053	0.049061	0.061521	1.39482	0.321233	1.81
26/01/2014 5:28:03 PM						
26/01/2014 5:30:00 PM	0.459197	0.048301	0.060966	1.24604	0.318641	1.85
26/01/2014 5:45:00 PM	0.063455	0.047735	0.060952	1.22595	0.302568	1.86
26/01/2014 6:00:00 PM	0.05515	0.048076	0.061258	1.13766	0.303886	2.09
26/01/2014 6:15:00 PM	0.143347	0.047449	0.061291	1.14366	0.55426	2.28
26/01/2014 6:30:00 PM	0.07736	0.048619	0.059939	1.1155	0.445252	2.38
26/01/2014 6:45:00 PM	0.142521	0.046708	0.059199	0.98741	0.445214	2.4
26/01/2014 7:00:00 PM	0.218546	0.047095	0.058162	0.95916	0.438164	2.32
26/01/2014 7:15:00 PM	0.140795	0.044774	0.056943	0.506502	0.231291	2.18
26/01/2014 7:30:00 PM	0.112367	0.044047	0.055835	0.297728	0.1588	2.09
26/01/2014 7:45:00 PM	0.105581	0.042993	0.055128	0.241763	0.114762	2.02
26/01/2014 8:00:00 PM	0.097699	0.042914	0.054674	0.229526	0.088445	1.97
26/01/2014 8:15:00 PM	0.093535	0.043798	0.055132	0.216102	0.08043	1.95
26/01/2014 8:30:00 PM	0.093057	0.044411	0.055973	0.217363	0.070805	1.9
26/01/2014 8:45:00 PM	0.092662	0.045645	0.056437	0.215038	0.068565	1.88
26/01/2014 9:00:00 PM	0.092693	0.044314	0.05724	0.217577	0.063191	1.85
26/01/2014 9:15:00 PM	0.095112	0.045378	0.056972	0.219994	0.062118	1.83
26/01/2014 9:30:00 PM	0.096407	0.046943	0.057058	0.228855	0.059564	1.81
26/01/2014 9:45:00 PM	0.098407	0.045576	0.057077	0.234683	0.059461	1.8
26/01/2014 10:00:00 PM	0.101241	0.045686	0.057693	0.241964	0.057785	1.8
26/01/2014 10:15:00 PM	0.103867	0.047302	0.057679	0.254977	0.057237	1.8
26/01/2014 10:30:00 PM	0.105569	0.045672	0.057622	0.258475	0.056982	1.79
26/01/2014 10:45:00 PM	0.107213	0.045884	0.05745	0.268853	0.056803	1.79
26/01/2014 11:00:00 PM	0.107878	0.046971	0.057928	0.275607	0.056283	1.78
26/01/2014 11:15:00 PM	0.109263	0.047809	0.058066	0.281397	0.055746	1.78
26/01/2014 11:30:00 PM	0.111113	0.046216	0.057521	0.286642	0.05599	1.79
26/01/2014 11:45:00 PM	0.115627	0.04704	0.057913	0.289307	0.055263	1.81

5:33 p.m.  
~~the~~ Sand of 6  
Filter wash

Time	Combined	Turb # 3	Turb # 4	Turb # 5	Turb # 6	Post CL2
27/01/2014 12:00:00 AM	0.114461	0.0475	0.058472	0.302034	0.055404	1.81
27/01/2014 12:15:00 AM	0.114938	0.047146	0.058329	0.306061	0.05509	1.83
27/01/2014 12:30:00 AM	0.117881	0.045741	0.057975	0.309923	0.055025	1.84
27/01/2014 12:45:00 AM	0.120194	0.046289	0.058037	0.314909	0.054586	1.85
27/01/2014 1:00:00 AM	0.123262	0.045958	0.058248	0.322475	0.054916	1.85
27/01/2014 1:15:00 AM	0.131183	0.046211	0.057861	0.335115	0.054618	1.85
27/01/2014 1:30:00 AM	0.288596	0.045953	0.058276	0.37265	0.054623	1.85
27/01/2014 1:45:00 AM	0.290283	0.046819	0.058267	0.904478	0.059119	1.85
27/01/2014 2:00:00 AM	0.296415	0.046722	0.058319	0.984251	0.058983	1.85
27/01/2014 2:15:00 AM	0.303663	0.045866	0.057579	0.999757	0.057986	1.85
27/01/2014 2:30:00 AM	0.308176	0.046008	0.058004	1.01826	0.056695	1.85
27/01/2014 2:45:00 AM	0.316511	0.046077	0.057722	1.0374	0.055654	1.85
27/01/2014 3:00:00 AM	0.321783	0.047652	0.057827	1.07297	0.054417	1.85
27/01/2014 3:15:00 AM	0.325164	0.047514	0.057789	1.07964	0.054043	1.85
27/01/2014 3:30:00 AM	0.32628	0.047325	0.057899	1.09347	0.052731	1.84
27/01/2014 3:45:00 AM	0.331998	0.046344	0.057392	1.0978	0.051484	1.85
27/01/2014 4:00:00 AM	0.335704	0.0468	0.057593	1.13264	0.050649	1.85
27/01/2014 4:15:00 AM	0.341179	0.045506	0.057789	1.15615	0.050074	1.84
27/01/2014 4:30:00 AM	0.421153	0.048283	0.057756	1.1612	0.050735	1.84
27/01/2014 4:45:00 AM	0.396666	0.045902	0.057493	1.12196	0.051115	1.75
27/01/2014 5:00:00 AM	0.369153	0.046616	0.057541	1.02678	0.050546	1.7
27/01/2014 5:15:00 AM	0.400567	0.04622	0.057665	1.07301	0.08216	1.7
27/01/2014 5:30:00 AM	0.070507	0.045654	0.057842	0.906711	0.063246	1.81
27/01/2014 5:45:00 AM	0.051757	0.046303	0.057822	0.925568	0.388725	1.86
27/01/2014 6:00:00 AM	0.213651	0.047146	0.057904	1.50515	0.366291	1.89
27/01/2014 6:15:00 AM	0.145292	0.046312	0.057865	0.452457	0.326618	1.9
27/01/2014 6:30:00 AM	0.124382	0.047242	0.057025	0.331604	0.14398	1.91
27/01/2014 6:45:00 AM	0.120625	0.045787	0.056824	0.314691	0.103868	1.9
27/01/2014 7:00:00 AM	0.113584	0.045778	0.057039	0.289776	0.085907	1.9
27/01/2014 7:15:00 AM	0.110551	0.045341	0.057158	0.283856	0.076537	1.89
27/01/2014 7:30:00 AM	0.108551	0.046041	0.057402	0.278552	0.069075	1.88
27/01/2014 7:45:00 AM	0.109389	0.044945	0.057025	0.283328	0.064883	1.88
27/01/2014 8:00:00 AM	0.110097	0.046395	0.057464	0.282943	0.062232	1.87
27/01/2014 8:15:00 AM	0.231763	0.047251	0.05744	0.284794	0.059715	1.86
27/01/2014 8:30:00 AM	0.159526	0.046225	0.057732	0.512799	0.05887	1.86
27/01/2014 8:45:00 AM	0.203886	0.046234	0.057732	0.488387	0.058598	1.86
27/01/2014 9:00:00 AM	0.211925	0.046294	0.057163	0.499719	0.21222	1.85
27/01/2014 9:15:00 AM	0.216695	0.04605	0.057125	0.515585	0.228358	1.85
27/01/2014 9:30:00 AM	0.219705	0.04645	0.057397	0.537978	0.233737	1.85
27/01/2014 9:45:00 AM	0.222797	0.044461	0.056943	0.53515	0.239968	1.85
27/01/2014 10:00:00 AM	0.247906	0.046704	0.057364	0.562052	0.243449	1.84
27/01/2014 10:15:00 AM	0.30308	0.045152	0.056862	0.794602	0.243444	1.84
27/01/2014 10:30:00 AM	0.302223	0.046308	0.057206	0.940667	0.25083	1.84
27/01/2014 10:45:00 AM	0.314711	0.045474	0.056838	0.925426	0.251811	1.83
27/01/2014 11:00:00 AM	0.414159	0.045355	0.057125	1.41014	0.256079	1.82
27/01/2014 11:15:00 AM	0.416566	0.045649	0.056518	1.39852	0.256225	1.82
27/01/2014 11:30:00 AM	0.421212	0.045161	0.056982	1.39658	0.261778	1.81
27/01/2014 11:45:00 AM	0.400266	0.046667	0.056523	1.42028	0.263063	1.81
27/01/2014 12:00:00 PM	0.429207	0.048545	0.056628	1.52277	0.268302	1.81
27/01/2014 12:15:00 PM	0.440717	0.046294	0.055343	1.51465	0.270954	1.8
27/01/2014 12:30:00 PM	0.444314	0.04535	0.055524	1.51953	0.270997	1.79

5:00 AM  
 Sand to  
 Filter wash

27/01/2014 12:45:00 PM	0.451045	0.044535	0.055285	1.55048	0.274896	1.78
27/01/2014 1:00:00 PM	0.459972	0.044959	0.055376	1.57728	0.27989	1.78
27/01/2014 1:15:00 PM	0.467682	0.045157	0.054669	1.58357	0.292129	1.79
27/01/2014 1:30:00 PM	0.472519	0.045037	0.054502	1.61405	0.296251	1.8
27/01/2014 1:45:00 PM	0.474804	0.045815	0.054473	1.6253	0.295296	1.8
27/01/2014 2:00:00 PM	0.479415	0.044125	0.054282	1.63591	0.299895	1.8
27/01/2014 2:15:00 PM	0.58615	0.044484	0.054129	1.64157	0.300345	1.81
27/01/2014 2:30:00 PM	0.512899	0.044922	0.053819	1.90101	0.304916	1.82
27/01/2014 2:45:00 PM	0.552454	0.044116	0.0539	1.7877	0.304314	1.83
27/01/2014 3:00:00 PM	0.529469	0.04546	0.053446	1.77797	0.300009	1.87
27/01/2014 3:15:00 PM	0.520002	0.045055	0.053188	1.58532	0.2829	1.91
27/01/2014 3:30:00 PM	0.057001	0.045396	0.053145	2.06756	0.278556	1.92
27/01/2014 3:45:00 PM	0.050951	0.044282	0.052963	1.54521	0.329481	1.91
27/01/2014 4:00:00 PM	0.051683	0.046128	0.052075	1.01248	0.945257	2.32
27/01/2014 4:15:00 PM	0.130017	0.043541	0.042519	0.96588	0.708294	2.44
27/01/2014 4:30:00 PM	0.162128	0.04337	0.046456	1.01817	0.67958	2.52
27/01/2014 4:45:00 PM	0.323415	0.04331	0.045128	0.992178	0.654559	2.49
27/01/2014 5:00:00 PM	0.372217	0.04128	0.045099	0.708255	0.28592	2.32
27/01/2014 5:15:00 PM	0.310034	0.042362	0.044397	0.668538	0.412515	2.22
27/01/2014 5:30:00 PM	0.296505	0.040534	0.043565	0.684333	0.386713	2.13
27/01/2014 5:45:00 PM	0.290255	0.042173	0.043307	0.693973	0.379723	2.06
27/01/2014 6:00:00 PM	0.297327	0.041888	0.043876	0.691183	0.378633	2.01
27/01/2014 6:15:00 PM	0.416922	0.043297	0.044119	0.697412	0.396447	2.03
27/01/2014 6:30:00 PM	0.338494	0.041018	0.043493	0.711636	0.423789	2.07
27/01/2014 6:45:00 PM	0.318022	0.04262	0.042438	0.722751	0.440323	2.02
27/01/2014 7:00:00 PM	0.326468	0.042486	0.042681	0.748839	0.443365	1.98
27/01/2014 7:15:00 PM	0.329101	0.042721	0.043656	0.780161	0.450344	1.94
27/01/2014 7:30:00 PM	0.359193	0.043987	0.040804	0.80459	0.47088	1.92
27/01/2014 7:45:00 PM	0.358207	0.043347	0.045333	0.866692	0.483206	1.9
27/01/2014 8:00:00 PM	0.367869	0.042136	0.045773	0.908512	0.494941	1.89
27/01/2014 8:15:00 PM	0.378835	0.043835	0.046308	0.942155	0.513459	1.87
27/01/2014 8:30:00 PM	0.394165	0.04396	0.045624	0.968293	0.526284	1.87
27/01/2014 8:45:00 PM	0.504888	0.043168	0.045386	0.999874	0.542596	1.86
27/01/2014 9:00:00 PM	0.503914	0.043076	0.044478	1.02702	0.909771	1.86
27/01/2014 9:15:00 PM	0.513431	0.043729	0.045147	1.05507	0.985879	1.86
27/01/2014 9:30:00 PM	0.530769	0.044323	0.046164	1.15532	0.980343	1.86
27/01/2014 9:45:00 PM	0.539911	0.044972	0.045424	1.13858	1.00771	1.86
27/01/2014 10:00:00 PM	0.557808	0.0439	0.045113	1.17141	1.03407	1.86
27/01/2014 10:15:00 PM	0.610817	0.04546	0.041893	1.179	1.05373	1.85
27/01/2014 10:30:00 PM	0.616613	0.043126	0.04368	1.34308	1.04965	1.85
27/01/2014 10:45:00 PM	0.634698	0.04302	0.0468	1.38525	1.06962	1.86
27/01/2014 11:00:00 PM	0.640341	0.04523	0.04679	1.43356	1.08187	1.87
27/01/2014 11:15:00 PM	0.647456	0.043946	0.045132	1.47599	1.10411	1.87
27/01/2014 11:30:00 PM	0.659667	0.043835	0.045032	1.4802	1.10955	1.88
27/01/2014 11:45:00 PM	0.664046	0.044254	0.045472	1.50641	1.13742	1.88

3:22 pm  
 #5 and #6  
 filter wash

Time	Combined	Turb # 3	Turb # 4	Turb # 5	Turb # 6	Post CL2
28/01/2014 12:00:00 AM	0.669642	0.044926	0.043618	1.51629	1.15597	1.88
28/01/2014 12:15:00 AM	0.680784	0.043112	0.043823	1.54159	1.14957	1.88
28/01/2014 12:30:00 AM	0.704861	0.043472	0.047526	1.55861	1.16465	1.88
28/01/2014 12:45:00 AM	0.710097	0.04587	0.046174	1.59555	1.20101	1.88
28/01/2014 1:00:00 AM	1.05733	0.044609	0.045682	1.55479	1.1584	1.81
28/01/2014 1:15:00 AM	0.942717	0.044452	0.046126	1.86458	1.17064	1.75
28/01/2014 1:30:00 AM	0.975939	0.044259	0.047101	2.19935	0.965229	1.73
28/01/2014 1:45:00 AM	1.33512	0.043748	0.045983	1.795	1.20494	1.73
28/01/2014 2:00:00 AM	0.060774	0.043352	0.047421	1.40644	1.40233	1.93
28/01/2014 2:15:00 AM	0.289547	0.045313	0.047206	1.33486	1.44122	1.98
28/01/2014 2:30:00 AM	0.15407	0.045594	0.045897	0.844626	1.37326	1.97
28/01/2014 2:45:00 AM	0.246126	0.044475	0.045524	0.315114	0.357257	1.95
28/01/2014 3:00:00 AM	0.19638	0.045686	0.046203	0.606	0.149343	1.94
28/01/2014 3:15:00 AM	0.193136	0.043117	0.046198	0.590189	0.112441	1.92
28/01/2014 3:30:00 AM	0.189011	0.045069	0.045371	0.678932	0.093163	1.9
28/01/2014 3:45:00 AM	0.195088	0.045258	0.045873	0.629035	0.07998	1.89
28/01/2014 4:00:00 AM	0.210019	0.043264	0.045529	0.65708	0.074829	1.88
28/01/2014 4:15:00 AM	0.237715	0.04279	0.045008	0.727138	0.070393	1.85
28/01/2014 4:30:00 AM	0.2415	0.043955	0.044444	0.830951	0.06894	1.86
28/01/2014 4:45:00 AM	0.245057	0.044977	0.043947	0.837889	0.066846	1.85
28/01/2014 5:00:00 AM	0.288604	0.044434	0.044564	0.861493	0.065268	1.84
28/01/2014 5:15:00 AM	0.3058	0.047021	0.042466	1.03154	0.065588	1.84
28/01/2014 5:30:00 AM	0.306579	0.045106	0.04302	1.1101	0.06612	1.84
28/01/2014 5:45:00 AM	0.30598	0.04407	0.044306	1.11097	0.065979	1.83
28/01/2014 6:00:00 AM	0.35877	0.04453	0.045558	1.15829	0.065691	1.84
28/01/2014 6:15:00 AM	0.339551	0.0436	0.044459	1.26953	0.064694	1.83
28/01/2014 6:30:00 AM	0.348329	0.04576	0.043608	1.29442	0.06554	1.83
28/01/2014 6:45:00 AM	0.354595	0.044503	0.044115	1.28973	0.064569	1.84
28/01/2014 7:00:00 AM	0.404477	0.043927	0.043981	1.45814	0.065648	1.98
28/01/2014 7:15:00 AM	0.376957	0.044024	0.043575	1.43603	0.06708	1.99
28/01/2014 7:30:00 AM	0.392815	0.04564	0.043054	1.43216	0.063951	1.95
28/01/2014 7:45:00 AM	0.397675	0.044365	0.041721	1.49248	0.064585	1.94
28/01/2014 8:00:00 AM	0.394028	0.042647	0.042872	1.49769	0.065095	1.92
28/01/2014 8:15:00 AM	0.401667	0.046133	0.046102	1.51644	0.064775	1.91
28/01/2014 8:30:00 AM	0.400114	0.044995	0.045663	1.5117	0.065496	1.89
28/01/2014 8:45:00 AM	0.40609	0.043172	0.045753	1.55909	0.066727	1.89
28/01/2014 9:00:00 AM	0.451601	0.042588	0.045204	1.57675	0.066141	1.88
28/01/2014 9:15:00 AM	0.434393	0.04366	0.042734	1.68644	0.068159	1.87
28/01/2014 9:30:00 AM	0.438596	0.044171	0.040746	1.68146	0.067866	1.87
28/01/2014 9:45:00 AM	0.449194	0.044498	0.041496	1.70198	0.068294	1.86
28/01/2014 10:00:00 AM	0.532913	0.042509	0.042514	1.70699	0.068359	1.86
28/01/2014 10:15:00 AM	0.475998	0.043287	0.041401	1.92264	0.068994	1.85
28/01/2014 10:30:00 AM	0.486209	0.043398	0.041635	1.85085	0.069753	1.85
28/01/2014 10:45:00 AM	0.498098	0.042914	0.040092	1.91235	0.070306	1.84
28/01/2014 11:00:00 AM	0.499957	0.046358	0.03991	1.91181	0.070642	1.83
28/01/2014 11:15:00 AM	0.53595	0.043361	0.038864	2.15071	0.071884	1.83
28/01/2014 11:30:00 AM	0.544466	0.04291	0.042356	2.07812	0.07414	1.82
28/01/2014 11:45:00 AM	0.550301	0.046211	0.046131	2.08983	0.073684	1.81
28/01/2014 12:00:00 PM	0.554818	0.04401	0.045615	2.12888	0.074455	1.81
28/01/2014 12:15:00 PM	0.559663	0.044392	0.041912	2.15018	0.074986	1.8
28/01/2014 12:30:00 PM	0.566429	0.044121	0.04507	2.17408	0.076754	1.8

1:17 AM  
 # Sand # 6  
 f: 140 w.m.

28/01/2014 12:45:00 PM	0.570629	0.042601	0.046843	2.19099	0.077627	1.8
28/01/2014 1:00:00 PM	0.575399	0.043909	0.045658	2.19799	0.077361	1.79
28/01/2014 1:15:00 PM	0.575454	0.04221	0.045687	2.19358	0.078787	1.78
28/01/2014 1:30:00 PM	0.580385	0.0446	0.045777	2.21763	0.080365	1.78
28/01/2014 1:45:00 PM	0.584091	0.044429	0.045481	2.24202	0.080897	1.78
28/01/2014 2:00:00 PM	0.595002	0.041694	0.044186	2.28307	0.082225	1.77
28/01/2014 2:15:00 PM	0.572671	0.044682	0.043986	2.21273	0.085029	1.78
28/01/2014 2:30:00 PM	0.544932	0.045497	0.044497	1.99735	0.081851	1.8
28/01/2014 2:45:00 PM	0.05969	0.043011	0.043637	2.65511	0.090652	1.83
28/01/2014 3:00:00 PM	0.052571	0.044641	0.041128	1.61436	0.163437	1.82
28/01/2014 3:15:00 PM	0.054391	0.041575	0.04249	0.894997	0.938598	1.8
28/01/2014 3:30:00 PM	0.319071	0.042426	0.0426	0.856788	1.112	1.77
28/01/2014 3:45:00 PM	0.153123	0.041087	0.042323	0.588136	0.907352	1.64
28/01/2014 4:00:00 PM	0.120339	0.041519	0.042027	0.311608	0.253622	1.64
28/01/2014 4:15:00 PM	0.097578	0.041248	0.040206	0.223593	0.148963	1.69
28/01/2014 4:30:00 PM	0.084702	0.041119	0.039509	0.189436	0.118889	1.73
28/01/2014 4:45:00 PM	0.077622	0.040801	0.037918	0.166137	0.094356	1.75
28/01/2014 5:00:00 PM	0.072057	0.041768	0.03775	0.162442	0.080984	1.76
28/01/2014 5:15:00 PM	0.070785	0.040921	0.043212	0.149576	0.072757	1.78
28/01/2014 5:30:00 PM	0.070969	0.04099	0.04132	0.149974	0.067378	1.79
28/01/2014 5:45:00 PM	0.067502	0.041174	0.043379	0.145177	0.066358	1.8
28/01/2014 6:00:00 PM	0.066742	0.041883	0.043914	0.141226	0.06234	1.81
28/01/2014 6:15:00 PM	0.068128	0.041634	0.044435	0.138993	0.060296	1.81
28/01/2014 6:30:00 PM	0.067791	0.041367	0.042958	0.14064	0.05926	1.82
28/01/2014 6:45:00 PM	0.068895	0.042739	0.044153	0.142479	0.058821	1.82
28/01/2014 7:00:00 PM	0.067267	0.04209	0.041363	0.146719	0.057324	1.82
28/01/2014 7:15:00 PM	0.07037	0.043918	0.044736	0.156464	0.057102	1.84
28/01/2014 7:30:00 PM	0.071423	0.043071	0.043078	0.157038	0.056738	1.85
28/01/2014 7:45:00 PM	0.075951	0.043798	0.045156	0.161148	0.056592	1.85
28/01/2014 8:00:00 PM	0.074793	0.046602	0.045854	0.167972	0.055713	1.86
28/01/2014 8:15:00 PM	0.072695	0.042187	0.045777	0.174697	0.055621	1.87
28/01/2014 8:30:00 PM	0.076937	0.044742	0.044559	0.176326	0.054857	1.87
28/01/2014 8:45:00 PM	0.153925	0.042974	0.043503	0.182255	0.054743	1.87
28/01/2014 9:00:00 PM	0.133093	0.042362	0.036221	0.430411	0.054705	1.88
28/01/2014 9:15:00 PM	0.135391	0.042537	0.044798	0.415987	0.054439	1.88
28/01/2014 9:30:00 PM	0.13725	0.045262	0.035524	0.426683	0.055638	1.88
28/01/2014 9:45:00 PM	0.141672	0.043785	0.036131	0.435363	0.054428	1.88
28/01/2014 10:00:00 PM	0.144224	0.042486	0.036823	0.449817	0.055079	1.88
28/01/2014 10:15:00 PM	0.145104	0.04372	0.04582	0.459156	0.054472	1.89
28/01/2014 10:30:00 PM	0.149538	0.042035	0.046002	0.477272	0.05343	1.89
28/01/2014 10:45:00 PM	0.161091	0.042684	0.046102	0.492115	0.054238	1.88
28/01/2014 11:00:00 PM	0.241214	0.04337	0.045878	0.832229	0.054596	1.88
28/01/2014 11:15:00 PM	0.249687	0.044972	0.044411	0.900632	0.055106	1.88
28/01/2014 11:30:00 PM	0.254454	0.041262	0.045629	0.933013	0.055263	1.88
28/01/2014 11:45:00 PM	0.26432	0.044461	0.043871	0.938145	0.054764	1.88

1:55 pm  
 # Sand #  
 Filter wool

Time	Combined Turb	Turb # 3	Turb # 4	Turb # 5	Turb # 6	Post CL2
29/01/2014 12:00:00 AM	0.264429	0.041271	0.0455	0.967501	0.054575	1.88
29/01/2014 12:15:00 AM	0.264922	0.043628	0.044463	0.988638	0.054992	1.88
29/01/2014 12:30:00 AM	0.270429	0.042367	0.045553	1.00385	0.05426	1.88
29/01/2014 12:45:00 AM	0.275939	0.043255	0.043747	1.04179	0.055583	1.88
29/01/2014 1:00:00 AM	0.280585	0.04453	0.043943	1.05692	0.055453	1.88
29/01/2014 1:15:00 AM	0.282185	0.044705	0.04379	1.05983	0.054981	1.88
29/01/2014 1:30:00 AM	0.282162	0.044153	0.045768	1.07086	0.055209	1.88
29/01/2014 1:45:00 AM	0.291187	0.041634	0.044272	1.08488	0.055903	1.88
29/01/2014 2:00:00 AM	0.292736	0.041943	0.047641	1.12067	0.055871	1.87
29/01/2014 2:15:00 AM	0.293398	0.043002	0.045844	1.1153	0.055632	1.88
29/01/2014 2:30:00 AM	0.299746	0.044719	0.043135	1.13611	0.056088	1.88
29/01/2014 2:45:00 AM	0.301542	0.043379	0.046059	1.15972	0.056109	1.88
29/01/2014 3:00:00 AM	0.307894	0.042583	0.045247	1.14431	0.057709	1.79
29/01/2014 3:15:00 AM	0.294478	0.042988	0.045347	1.21037	0.057199	1.76
29/01/2014 3:30:00 AM	0.156254	0.042449	0.046484	0.974523	0.054971	1.75
29/01/2014 3:45:00 AM	0.0524616	0.044337	0.045949	0.916963	0.055757	1.74
29/01/2014 4:00:00 AM	0.0495538	0.040553	0.046977	1.33579	0.064151	1.73
29/01/2014 4:15:00 AM	0.0491977	0.041929	0.04583	1.07313	0.066375	1.92
29/01/2014 4:30:00 AM	0.0475814	0.04332	0.044253	0.775753	0.075214	1.93
29/01/2014 4:45:00 AM	0.136709	0.041773	0.044674	0.756657	0.241915	2.01
29/01/2014 5:00:00 AM	0.0497534	0.043835	0.044005	0.754646	0.245873	2.07
29/01/2014 5:15:00 AM	0.283481	0.041717	0.041625	0.760847	0.246925	2.08
29/01/2014 5:30:00 AM	0.293136	0.039093	0.042586	0.563443	0.421489	2
29/01/2014 5:45:00 AM	0.3281	0.041731	0.040163	0.574285	0.423051	1.93
29/01/2014 6:00:00 AM	0.317948	0.037597	0.040655	0.720363	0.422796	1.87
29/01/2014 6:15:00 AM	0.309753	0.039434	0.042801	0.751508	0.407211	1.82
29/01/2014 6:30:00 AM	0.311917	0.042634	0.040947	0.786433	0.409852	0
29/01/2014 6:44:23 AM	0.365627	0.038996	0.041678	0.746598	0.410302	1.76
29/01/2014 6:45:00 AM	0.376456	0.037578	0.042084	0.751261	0.412319	1.76
29/01/2014 7:00:00 AM	0.429274	0.039006	0.041965	0.756372	0.406739	0
29/01/2014 7:15:00 AM	0.350098	0.036796	0.035352	0.781556	0.415492	1.9
29/01/2014 7:30:00 AM	0.385297	0.039867	0.040335	0.925279	0.333971	1.89
29/01/2014 7:45:00 AM	0.357326	0.039319	0.036112	0.942046	0.327453	1.87
29/01/2014 8:00:00 AM	Bad	Bad	Bad	Bad	Bad	Bad
29/01/2014 8:09:06 AM						
29/01/2014 8:15:00 AM	Bad	Bad	Bad	Bad	Bad	Bad
29/01/2014 8:30:00 AM	Bad	Bad	Bad	Bad	Bad	Bad
29/01/2014 9:26:04 AM	Bad	Bad	Bad	Bad	Bad	Bad
29/01/2014 9:30:00 AM	1.1109	Bad	0.046919	1.21254	0.460549	0
29/01/2014 9:45:00 AM	0.475258	Bad 0.073	0.046699	1.32452	0.487522	1.77
29/01/2014 10:00:00 AM	0.438486	Bad 0.068	0.046145	1.21497	0.426522	1.77
29/01/2014 10:15:00 AM	0.436623	Bad 0.066	0.046059	1.28052	0.431451	1.78
29/01/2014 10:30:00 AM	0.415173	Bad 0.063	0.045663	1.1901	0.419195	1.79
29/01/2014 10:40:16 AM						
29/01/2014 10:45:00 AM	0.428659	0.061809	0.046059	1.22185	0.41374	1.77
29/01/2014 10:59:59 AM	0.422969	0.061745	0.045242	1.21152	0.414841	1.76
29/01/2014 11:00:00 AM	0.422969	0.061745	0.045242	1.21152	0.413718	1.76
29/01/2014 11:15:00 AM	0.379203	0.061579	0.046217	1.2358	0.423268	1.76
29/01/2014 11:30:00 AM	0.439703	0.06052	0.04519	1.35471	0.436825	1.76
29/01/2014 11:45:00 AM	0.445499	0.060543	0.045577	1.30939	0.449753	1.74
29/01/2014 12:00:00 PM	0.458735	0.058066	0.04442	1.31583	0.444081	1.72

3:45 am  
 #5 and #6  
 filter was

Electricity  
 Blinked a few  
 Times then off  
 at 8:30 am.  
 On again at  
 9:27 am

11:00 am - Motor and Gear Box unit installed on  
 #3 Clarifier. Rake is now Turning.

29/01/2014 12:15:00 PM	0.461021	0.059075	0.044554	1.34241	0.450913	1.72
29/01/2014 12:30:00 PM	0.52082	0.055129	0.04508	1.44042	0.458174	1.7
29/01/2014 12:45:00 PM	0.46504	0.056211	0.044291	1.41212	0.457182	1.69
29/01/2014 1:00:00 PM	0.467036	0.055419	0.04487	1.39325	0.452291	1.69
29/01/2014 1:15:00 PM	0.443222	0.054457	0.045166	1.34308	0.44978	1.68
29/01/2014 1:30:00 PM	0.504176	0.055456	0.044463	1.31103	0.439666	1.68
29/01/2014 1:45:00 PM	0.449159	0.055028	0.043689	1.38978	0.435908	1.67
29/01/2014 2:00:00 PM	0.421548	0.059618	0.042992	1.31007	0.413068	1.67
29/01/2014 2:15:00 PM	0.402947	0.058076	0.043135	1.25014	0.415161	1.66
29/01/2014 2:30:00 PM	0.400481	0.058181	0.041826	1.1776	0.383112	1.65
29/01/2014 2:45:00 PM	0.37347	0.05832	0.032308	1.10988	0.373894	1.65
29/01/2014 3:00:00 PM	0.342427	0.055879	0.032772	1.05696	0.342247	1.64
29/01/2014 3:15:00 PM	0.322249	0.056874	0.041525	0.979002	0.325799	1.64
29/01/2014 3:30:00 PM	0.311514	0.056229	0.041463	0.914428	0.302378	1.64
29/01/2014 3:45:00 PM	0.28408	0.054411	0.041711	0.854986	0.298322	1.64
29/01/2014 4:00:00 PM	0.285962	0.05436	0.042619	0.814884	0.269782	1.64
29/01/2014 4:15:00 PM	0.281172	0.055295	0.043446	0.762309	0.261274	1.63
29/01/2014 4:30:00 PM	0.271008	0.056298	0.042232	0.740444	0.247598	1.62
29/01/2014 4:45:00 PM	0.287903	0.059765	0.043183	0.741302	0.232897	1.62
29/01/2014 5:00:00 PM	0.263932	0.055691	0.043689	0.699285	0.224302	1.61
29/01/2014 5:15:00 PM	0.236921	0.055912	0.043756	0.602573	0.226509	1.63
29/01/2014 5:30:00 PM	0.274206	0.055161	0.043255	1.05502	0.209427	1.64
29/01/2014 5:45:00 PM	0.0543558	0.058246	0.042643	1.12852	0.392163	1.68
29/01/2014 6:00:00 PM	0.0497769	0.060152	0.042777	0.792558	0.534933	1.7
29/01/2014 6:15:00 PM	0.0488925	0.057574	0.035624	0.504102	0.536696	1.81
29/01/2014 6:30:00 PM	0.186839	0.055299	0.035591	0.461531	0.490971	1.86
29/01/2014 6:45:00 PM	0.13786	0.055115	0.033517	0.309496	0.444108	1.88
29/01/2014 7:00:00 PM	0.122225	0.057307	0.041296	0.264689	0.251139	1.86
29/01/2014 7:15:00 PM	0.109921	0.052215	0.041726	0.20774	0.188376	1.85
29/01/2014 7:30:00 PM	0.0937852	0.053669	0.042227	0.179104	0.148529	1.83
29/01/2014 7:45:00 PM	0.104109	0.055391	0.042361	0.164725	0.133422	1.81
29/01/2014 8:00:00 PM	0.0842752	0.059701	0.041492	0.150665	0.11192	1.8
29/01/2014 8:15:00 PM	0.0875352	0.056266	0.041955	0.148252	0.099535	1.8
29/01/2014 8:30:00 PM	0.0957616	0.054682	0.043618	0.190713	0.091205	1.79
29/01/2014 8:45:00 PM	0.093206	0.057767	0.043809	0.21976	0.086694	1.79
29/01/2014 9:00:00 PM	0.0953546	0.053794	0.042557	0.188447	0.078961	1.78
29/01/2014 9:15:00 PM	0.0944818	0.055539	0.043465	0.182058	0.073695	1.78
29/01/2014 9:30:00 PM	0.0866468	0.054471	0.043971	0.181341	0.071033	1.79
29/01/2014 9:45:00 PM	0.0849992	0.05494	0.044033	0.168517	0.069737	1.85
29/01/2014 10:00:00 PM	0.0792736	0.057228	0.041649	0.164847	0.068983	1.84
29/01/2014 10:15:00 PM	0.0806669	0.054959	0.041439	0.164399	0.066852	1.83
29/01/2014 10:30:00 PM	0.0796298	0.054959	0.043106	0.161583	0.066467	1.83
29/01/2014 10:45:00 PM	0.0771055	0.055939	0.042586	0.161474	0.06535	1.82
29/01/2014 11:00:00 PM	0.0769998	0.055493	0.041224	0.155844	0.064059	1.81
29/01/2014 11:15:00 PM	0.0761897	0.056575	0.041343	0.15956	0.061597	1.82
29/01/2014 11:30:00 PM	0.0758806	0.055815	0.041702	0.152597	0.062779	1.82
29/01/2014 11:45:00 PM	0.0755518	0.056211	0.043078	0.157201	0.061554	1.82

5:29 p m  
 #5 and #6  
 Filter Wash

**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID     KY0800273    

MONITORING PERIOD (MMYYYY)     01/2014    

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>    A    </u>	TOTAL WATER TREATED (gallons)	<u>    61,153,000    </u>
PLANT NAME	<u>    Martin County Water District    </u>	AVE. DAILY PRODUCTION (gallons)	<u>    1,972,677    </u>
AGENCY INTEREST	<u>    2987    </u>	MAXIMUM PUMPAGE (gallons per day)	<u>    2,052,000    </u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>    0100    </u>
Was each filter monitored continuously? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Were measurements recorded every 15 minutes? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>    0100    </u>	ANALYTE CODE	<u>    0999    </u>
Number of hours of plant operation	<u>    740.0    </u>	Number of days of plant operation	<u>    31    </u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>    186    </u>	Number of lowest chlorine samples recorded	<u>    31    </u>
Highest single turbidity reading	<u>    0.71    </u>	Lowest single chlorine reading	<u>    1.65    </u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>    26    </u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Number of samples exceeded 0.3 NTU	<u>    10    </u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>    0    </u>	Number of samples under 0.2 mg/L	<u>    0    </u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>    0    </u>	Number of samples under 0.5 mg/L	<u>    0    </u>
Number of samples exceeded 5 NTU	<u>    0    </u>		

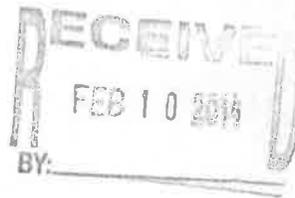
CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>    1008    </u>	ANALYTE CODE	<u>    1009    </u>
Number of days of plant operation	<u>    31    </u>	Number of days of plant operation	<u>    31    </u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>    0    </u>	Number of samples taken	<u>    0    </u>
Highest single chlorine dioxide reading	<u>    0.00    </u>	Highest single chlorite reading	<u>    0.00    </u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>    0    </u>	Number of chlorite samples exceeded 1 mg/L	<u>    0    </u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

    Earl T. Alley      
Signature of Principal Executive Officer or Authorized Agent

    02-07-2014      
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

01/2014

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>02-07-2014</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	<b>OPERATOR(S) RESPONSIBLE / IN-CHARGE</b>	<b>CLASS</b>	<b>CERTIFICATION NUMBER</b>	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartln</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Jerry L Belcher</u>	<u>1V-A</u>	<u>21719</u>	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 1.1
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_



I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley

02-07-2014

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 01/2014

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,933,000	24.0	359.9	22.3	4.2	0.3			306.6	18.0	159.8	9.9
2	1,868,000	24.0	359.9	23.1	4.2	0.3			268.8	17.3	159.8	10.3
3	1,926,000	24.0	359.9	22.4	4.2	0.3			283.0	17.6	147.8	9.2
4	1,880,000	24.0	359.9	23.0	4.2	0.3			283.0	18.0	159.8	10.2
5	1,964,000	24.0	359.9	22.0	4.2	0.3			302.6	18.5	161.8	9.9
6	1,916,000	23.5	352.3	22.0	4.1	0.3			302.6	18.9	156.6	9.8
7	1,987,000	24.0	359.9	21.7	4.2	0.3			309.2	18.7	159.8	9.6
8	1,932,000	24.0	359.9	22.3	4.2	0.3			263.2	16.3	159.8	9.9
9	1,945,000	24.0	359.9	22.2	4.2	0.3			258.5	15.9	151.6	9.3
10	1,966,000	24.0	359.9	21.9	4.2	0.3			268.8	16.4	159.8	9.7
11	1,929,000	24.0	359.9	22.4	4.2	0.3			263.2	16.4	159.8	9.9
12	2,036,000	24.0	454.7	26.8	4.2	0.2			312.4	18.4	165.7	9.8
13	2,002,000	24.0	454.7	27.2	4.2	0.3			304.1	18.2	172.0	10.3
14	2,030,000	24.0	391.4	23.1	4.2	0.2			295.7	17.5	169.2	10.0
15	2,011,000	24.0	328.2	19.6	4.2	0.3			297.1	17.7	183.5	9.7
16	2,051,000	24.0	312.5	18.3	4.2	0.2			304.8	17.8	158.8	9.3
17	1,985,000	23.0	299.5	18.1	4.0	0.2			308.6	18.5	162.1	9.8
18	2,052,000	24.0	312.5	18.3	4.2	0.2			319.0	18.6	169.2	9.9
19	1,987,000	23.0	282.9	17.1	4.0	0.2			312.3	18.8	169.2	10.2
20	2,043,000	24.0	265.1	15.6	4.2	0.2			292.3	17.2	169.2	9.9
21	2,022,000	24.0	285.1	15.7	4.2	0.2			289.5	17.2	169.2	10.0
22	2,036,000	24.0	265.1	15.6	4.2	0.2			319.0	18.8	169.2	10.0
23	2,024,000	24.0	265.1	15.7	4.2	0.2			298.4	17.7	164.7	9.8
24	2,028,000	24.0	265.1	15.7	4.2	0.2			302.6	17.9	169.2	10.0
25	1,993,000	24.0	265.1	15.9	4.2	0.3			295.7	17.8	169.2	10.2
26	1,925,000	24.0	265.1	16.5	4.2	0.3			283.3	17.6	169.2	10.5
27	1,928,000	24.0	265.1	16.5	4.2	0.3			286.4	17.8	169.2	10.5
28	1,927,000	23.5	259.7	16.2	4.1	0.3			283.4	17.6	165.7	10.3
29	1,804,000	23.0	254.2	16.9	4.0	0.3			268.0	17.8	153.2	10.2
30	1,984,000	24.0	265.1	16.0	4.2	0.3			304.6	18.4	165.1	10.0
31	2,039,000	24.0	265.1	15.6	4.2	0.2			311.9	18.3	183.2	10.8
TOTAL	61,153,000		9952.6		129.4		0.0		9096.8		5083.4	
AVERAGE	1,972,677		321.1	19.5	4.2	0.3	#DIV/0!	#DIV/0!	293.4	17.8	164.0	10.0
MAX	2,052,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0600273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 01/2014

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.54	7.48	7.34	71	69	141	135	0.77	0.70	2.03	1.95	17.70	0.17	0.05
2	7.50	7.45	7.30	71	65	123	115	0.70	0.63	1.99	1.91	16.50	0.16	0.05
3	7.49	7.45	7.30	64	60	126	122	0.71	0.65	1.92	1.86	16.40	0.16	0.05
4	7.51	7.42	7.31	43	40	123	120	0.66	0.59	1.99	1.91	17.50	0.14	0.05
5	7.46	7.41	7.30	45	41	115	111	0.73	0.65	2.03	1.95	17.00	0.16	0.04
6	7.48	7.39	7.29	52	47	114	108	0.85	0.80	2.15	2.05	16.90	0.18	0.06
7	7.44	7.34	7.24	46	42	125	121	0.70	0.65	1.86	1.79	16.40	0.19	0.05
8	7.45	7.38	7.29	77	72	90	86	0.81	0.50	1.86	1.82	16.40	0.20	0.06
9	7.38	7.31	7.21	70	66	115	109	0.78	0.70	1.98	1.94	16.00	0.20	0.04
10	7.41	7.35	7.24	60	55	115	110	0.75	0.67	1.94	1.88	15.80	0.23	0.04
11	7.43	7.30	7.19	62	59	112	110	0.74	0.63	2.06	1.98	15.60	0.23	0.05
12	7.28	7.21	7.10	38	34	102	100	0.74	0.65	2.01	1.91	47.10	0.42	0.07
13	7.21	7.22	7.11	54	50	108	103	0.59	0.52	1.94	1.89	37.30	0.30	0.06
14	7.27	7.23	7.13	44	38	96	90	0.68	0.58	1.99	1.89	26.70	0.30	0.06
15	7.27	7.24	7.10	53	45	80	78	0.66	0.56	1.99	1.92	21.20	0.26	0.06
16	7.16	7.19	7.08	51	44	78	75	0.70	0.63	1.92	1.86	19.40	0.20	0.04
17	7.24	7.18	7.06	44	39	88	84	0.58	0.53	1.88	1.82	19.20	0.24	0.06
18	7.20	7.19	7.15	50	46	79	73	0.75	0.70	1.99	1.94	17.30	0.29	0.05
19	7.10	7.14	7.04	40	35	68	65	0.81	0.54	2.00	1.93	14.90	0.21	0.04
20	7.19	7.10	7.03	38	34	79	75	0.77	0.71	1.92	1.82	13.50	0.26	0.06
21	7.19	7.09	7.02	47	41	87	83	0.82	0.77	1.97	1.89	12.80	0.39	0.06
22	7.15	7.08	6.99	30	25	70	64	0.68	0.55	1.87	1.82	11.50	0.37	0.08
23	7.11	7.16	7.20	40	37	74	70	0.74	0.68	1.90	1.83	10.40	0.31	0.05
24	7.07	7.08	7.14	39	35	82	77	0.80	0.75	1.96	1.90	10.40	0.36	0.05
25	7.08	7.09	7.14	24	22	92	90	0.82	0.75	2.00	1.92	9.89	0.54	0.05
26	7.15	7.12	7.19	27	23	94	90	0.71	0.64	1.94	1.86	9.44	2.19	0.23
27	7.12	7.06	7.16	32	27	94	91	0.71	0.64	2.01	1.94	9.18	2.14	0.30
28	7.00	7.01	7.11	42	37	77	72	0.77	0.69	2.01	1.91	9.07	2.17	0.63
29	7.15	7.09	7.21	64	60	61	58	0.77	0.66	1.90	1.82	8.83	2.07	0.24
30	7.03	7.08	7.16	52	45	55	52	0.74	0.64	1.89	1.81	8.59	0.50	0.10
31	7.12	7.10	7.22	48	44	71	65	0.70	0.63	1.94	1.87	7.12	0.43	0.10
AVERAGE	7.3	7.2	7.2	49	44	95	90	0.72	0.64	1.96	1.89	16.32	0.52	0.09

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 01/2014

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	17.70		0.17	0.16						0.04	0.05	0.07	0.05		0.05
2	16.50		0.18	0.16						0.05	0.06	0.08	0.05		0.05
3	16.40		0.18	0.16						0.04	0.06	0.08	0.05		0.05
4	17.50		0.15	0.14						0.04	0.05	0.07	0.06		0.05
5	17.00		0.18	0.17						0.04	0.05	0.06	0.05		0.05
6	16.90		0.19	0.16						0.05	0.06	0.07	0.05		0.06
7	16.40		0.19	0.19						0.05	0.05	0.07	0.05		0.05
8	16.40		0.20	0.19						0.05	0.05	0.07	0.06		0.05
9	16.00		0.22	0.26						0.05	0.06	0.06	0.05		0.05
10	15.80		0.24	0.33						0.05	0.06	0.05	0.05		0.05
11	15.60		0.32	0.31						0.05	0.06	0.11	0.07		0.06
12	47.10		1.24	0.99						0.09	0.12	0.43	0.21		0.19
13	37.30		0.35	0.35						0.06	0.08	0.13	0.05		0.07
14	26.70		0.30	0.30						0.06	0.07	0.12	0.05		0.07
15	21.20		0.24	0.27						0.05	0.06	0.12	0.06		0.06
16	19.40		0.22	0.26						0.04	0.06	0.06	0.05		0.05
17	19.20		0.34	0.34						0.07	0.09	0.07	0.05		0.06
18	17.30		0.36	0.35						0.06	0.07	0.08	0.05		0.06
19	14.90		0.28	0.26						0.05	0.06	0.09	0.07		0.06
20	13.50		0.35	0.35						0.05	0.06	0.06	0.05		0.05
21	12.80		0.43	0.43						0.07	0.10	0.06	0.06		0.06
22	11.50		0.42	0.41						0.06	0.08	0.09	0.05		0.06
23	10.40		0.38	0.33						0.05	0.06	0.09	0.08		0.06
24	10.40		0.43	0.39						0.05	0.06	0.08	0.07		0.06
25	9.89		0.47	1.48						0.06	0.09	0.06	0.06		0.06
26	9.44		0.45	4.37						0.05	0.07	1.38	0.33		0.40
27	9.18		0.41	4.20						0.05	0.06	1.55	0.93		0.50
28	9.07		0.61	3.95						0.04	0.05	0.22	1.22		0.71
29	8.83		0.47	4.01						0.06	0.05	1.39	0.45		0.46
30	8.59		0.43	0.69						0.07	0.05	0.27	0.06		0.11
31	8.49		0.44	0.56						0.06	0.04	0.31	0.06		0.11
AVERAGE	16.4	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.06	0.24	0.15	#DIV/0!	0.12

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 01/2014

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F°/C°
1	0.08	0.79	0.27	0.03	0.09	0.01			1.90	0.0	8.1
2	0.03	1.00	0.32	0.04	0.09	0.01			1.75	0.0	7.5
3	0.16	1.02	0.50	0.03	0.10	0.01			1.75	0.2	7.4
4	0.17	1.00	0.52	0.03	0.08	0.01			1.75	0.0	7.2
5	0.06	0.85	0.27	0.03	0.10	0.01			1.90	0.0	6.8
6	0.15	0.92	0.49	0.03	0.08	0.01			1.70	0.4	7.1
7	0.08	0.87	0.46	0.03	0.08	0.01			1.80	0.0	8.1
8	0.05	0.97	0.32	0.03	0.08	0.01			1.85	0.0	7.2
9	0.11	0.81	0.25	0.03	0.09	0.01			1.75	0.0	7.1
10	0.11	1.01	0.44	0.03	0.08	0.01			1.75	0.2	8.2
11	0.10	1.00	0.42	0.03	0.07	0.01			1.75	0.4	8.0
12	0.00	0.90	0.49	0.03	0.21	0.01			1.80	0.4	7.0
13	0.00	0.90	0.95	0.03	0.18	0.01			1.80	0.0	7.1
14	0.06	0.96	0.70	0.03	0.11	0.01			1.90	0.4	8.1
15	0.02	0.79	0.29	0.03	0.10	0.01			1.75	0.0	7.2
16	0.12	0.96	0.15	0.04	0.10	0.01			1.75	0.0	7.2
17	0.04	0.84	0.51	0.03	0.09	0.01			1.85	0.0	7.8
18	0.00	0.84	0.27	0.03	0.09	0.01			1.80	0.0	7.0
19	0.16	0.83	0.23	0.03	0.09	0.01			1.85	0.0	6.8
20	0.17	0.83	0.37	0.03	0.08	0.01			1.85	0.0	8.5
21	0.14	0.89	0.37	0.03	0.08	0.01			1.85	0.1	8.0
22	0.17	0.97	0.21	0.03	0.07	0.01			1.85	0.2	6.6
23	0.16	0.97	0.34	0.03	0.07	0.01			1.75	0.0	7.3
24	0.24	0.94	0.25	0.03	0.06	0.01			1.75	0.0	7.8
25	0.17	0.93	0.21	0.03	0.07	0.01			1.80	0.0	6.1
26	0.19	0.91	0.20	0.03	0.07	0.01			1.75	0.1	6.5
27	0.16	0.92	0.27	0.03	0.07	0.01			1.75	0.0	7.5
28	0.24	0.80	0.08	0.03	0.06	0.01			1.65	0.0	7.9
29	0.14	0.81	0.22	0.03	0.06	0.01			1.65	0.0	7.0
30	0.14	0.84	0.22	0.03	0.06	0.01			1.75	0.0	5.9
31	0.14	0.93	0.27	0.03	0.06	0.01			1.80	0.0	6.1
AVERAGE	0.11	0.90	0.35	0.03	0.09	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	7.3

	1.85	
Number of readings	31	2.51
For Free Chlorine, # less than 0.2 mg/L	0	
For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N) **N**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 01/2014

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DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION										
		No: 3		No: 4		No: 5		No: 6		No:		
		AREA (square feet) 160	WASHWATER GALLONS	FILT RUN HRB	AREA (square feet) 160	WASHWATER GALLONS	FILT RUN HRB	AREA (square feet) 160	WASHWATER GALLONS	FILT RUN HRB	AREA (square feet) 160	WASHWATER GALLONS
1	0											
2	28,000		14,000	95.90	14,000	95.90						
3	0											
4	25,000						13,000	94.90	12,000	94.90		
5	0											
6	24,000		12,000	93.70	12,000	93.70						
7	0											
8	28,000						14,000	94.30	14,000	94.30		
9	22,000		11,000	91.10	11,000	91.10						
10	0											
11	24,000						12,000	87.30	12,000	87.40		
12	0											
13	24,000		12,000	91.10	12,000	91.10						
14	0											
15	36,000						18,000	91.00	18,000	91.20		
16	0											
17	31,000		16,000	91.80	15,000	91.90						
18	0											
19	31,000						15,000	94.40	16,000	94.40		
20	0											
21	26,000		13,000	98.00	13,000	97.90						
22	0											
23	34,000						17,000	98.70	17,000	98.70		
24	0											
25	28,000		14,000	95.40	14,000	95.40						
26	66,000						33,000	70.40	33,000	70.40		
27	64,000						34,000	19.60	30,000	20.00		
28	59,000						31,000	21.10	28,000	21.30		
29	70,000						36,000	24.20	34,000	24.30		
30	27,000		13,000	109.60	14,000	109.60						
31	0											
TOTAL	647,000		105,000	766.60	105,000	766.60	223,000	695.90	214,000	696.90	0	0.00
AVERAGE	20,871		13.125	95.825	13.125	95.825	22,300	69.590	21,400	69.690	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 01/2014  
 PAGE 7 OF 11

DAY	DISTRIBUTION SYSTEM OPERATION											
	CHEMICALS ADDED			TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
				NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F		
1				1.38	1.32	1.62	1.60	1.55	1.52	1.69	1.63	
2				1.67	1.60	1.53	1.49	1.79	1.76	1.82	1.80	
3				1.63	1.56	1.79	1.73	1.75	1.66	1.35	1.28	
4				1.41	1.34	1.22	1.15	1.52	1.46	1.07	1.59	
5				1.52	1.44	1.21	1.14	1.43	1.37	1.77	1.71	
6				1.39	1.34	1.17	1.12	1.60	1.57	1.48	1.43	
7				1.45	1.37	1.40	1.36	1.28	1.23	1.45	1.37	
8				1.25	1.20	1.69	1.66	1.69	1.65	1.61	1.56	
9				1.74	1.69	1.61	1.57	1.53	1.47	1.44	1.40	
10				1.67	1.61	1.04	1.02	1.49	1.45	1.25	1.16	
11				1.43	1.34	1.77	1.65	1.12	0.98	1.50	1.38	
12				1.82	1.75	1.79	1.71	1.19	1.10	0.75	0.67	
13				1.54	1.46	1.69	1.65	1.60	1.55	1.61	1.55	
14				1.52	1.46	1.55	1.38	1.58	1.55	1.36	1.31	
15				0.65	0.60	1.57	1.50	1.56	1.49	1.64	1.62	
16				1.53	1.46	1.72	1.69	1.65	1.62	1.70	1.63	
17				1.40	1.33	1.22	1.18	1.14	1.04	1.35	1.32	
18				1.46	1.39	0.51	0.44	1.35	1.26	1.63	1.53	
19				1.31	1.26	1.06	0.99	1.55	1.46	1.14	1.09	
20				0.87	0.79	1.46	1.41	1.64	1.58	1.67	1.64	
21				1.65	1.56	1.75	1.71	1.71	1.62	1.77	1.73	
22				1.20	1.15	0.93	0.85	1.12	0.96	1.13	1.04	
23				1.48	1.40	1.27	1.24	1.50	1.46	1.49	1.44	
24				1.53	1.46	1.44	1.38	1.63	1.56	1.05	0.97	
25				1.58	1.51	1.33	1.26	0.98	0.91	1.24	1.19	
26				1.59	1.53	1.46	1.40	0.89	0.83	1.66	1.59	
27				1.67	1.58	0.68	0.64	1.57	1.50	1.78	1.72	
28				1.53	1.49	1.32	1.19	1.57	1.55	1.60	1.53	
29				1.43	1.33	1.32	1.22	1.40	1.34	1.66	1.61	
30				1.18	1.12	1.56	1.49	1.62	1.53	1.65	1.59	
31				1.63	1.54	1.37	1.31	1.63	1.56	1.69	1.59	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.46	1.39	1.39	1.33	1.47	1.41	1.50	1.44	
TOTAL	0.0	0.0	Total Minimum	0.65		0.51		0.89		0.75		
			Free Minimum		0.60		0.44		0.83		0.67	

Total # Chlorine Samples	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	0	0	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.44
Number of Total Residuals	124	Minimum Monthly Total Residual	0.51
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

**TURBIDITY REPORT**

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 01/2014

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.048	
2	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
3	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
4	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
5	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
6	23.5	6	0.05	0.06	0.05	0.05	0.05	0.05	0.055	
7	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
8	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
9	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
10	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
11	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
12	24.0	6	0.19	0.05	0.05	0.05	0.05	0.05	0.194	
13	24.0	6	0.05	0.05	0.06	0.07	0.06	0.07	0.071	
14	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.068	
15	24.0	6	0.06	0.06	0.06	0.06	0.05	0.05	0.062	
16	24.0	6	0.05	0.04	0.05	0.05	0.05	0.05	0.050	
17	23.0	6	0.05	0.05	0.05	0.05	0.06	0.06	0.064	
18	24.0	6	0.06	0.06	0.06	0.06	0.06	0.05	0.059	
19	23.0	6	0.05	0.05	0.05	0.06	0.06	0.05	0.057	
20	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
21	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
22	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.061	
23	24.0	6	0.06	0.06	0.05	0.06	0.06	0.06	0.063	
24	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.060	
25	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
26	24.0	6	0.13	0.21	0.21	0.40	0.19	0.09	0.399	
27	24.0	6	0.12	0.34	0.22	0.47	0.31	0.50	0.503	
28	23.5	6	0.71	0.25	0.44	0.57	0.07	0.14	0.708	
29	23.0	6	0.26	0.30	0.41	0.47	0.26	0.10	0.467	
30	24.0	6	0.08	0.08	0.10	0.10	0.11	0.10	0.110	
31	24.0	6	0.11	0.11	0.11	0.10	0.10	0.10	0.110	
Total	740.0	186	TOTAL # OF TURBIDITY SAMPLES TAKEN --						186	0.708

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 26 0.3 NTU 10 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU            5 NTU           

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Carl T. Alley 01-07-2014  
 Signature of Principal Executive Officer or Authorized Agent Date

APPLICABLE TO ALL SURFACE WATER PLANTS WITH FILTRATION

**INDIVIDUAL FILTER TURBIDITY EXCEEDANCE REPORT**

PWS Name: Martin County Water District  
 PWS ID: KY0800273  
 PLANT ID: A  
 Report Period (MM/YYYY): 01/2014

If any filter exceeded any one of the individual filter turbidity triggers below, (also listed on the Summary Sheet), complete the following and submit the appropriate report(s).

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Date	Filter Number	Turbidity Reading (NTU)	Trigger Level (see below)	Reason for Exceedance (if known)	Date and Time State was Contacted
1-26-14	5	↑			
1-27-14	5 + 6	See attached		Mechanical	2-7-14
1-28-14	5 + 6	Sheets		Failure	9:30AM
1-29-14	5	↓			

- Trigger Levels:**
- A. Any one filter has a measured turbidity level of greater than 1.0 NTU in 2 consecutive measurements taken 15 minutes apart.
  - B. Any one filter has a measured turbidity level of greater than 0.5 NTU in 2 consecutive measurements taken 15 minutes apart at the end of the first 4 hours of operation following a backwash or return to service.
  - C. Any one filter has a measured turbidity level of greater than 1.0 NTU in 2 consecutive measurements taken 15 minutes apart at any time in each of 3 consecutive months.
  - D. Any one filter has a measured turbidity level of greater than 2.0 NTU in 2 consecutive measurements taken 15 minutes apart at any time in each of 2 consecutive months.

**Report Required:**

**For Trigger A.:** Filter number, the turbidity measurement, the date of exceedance and filter profile within 7 days of the exceedance, if no obvious reason for the exceedance

**For Trigger B.:** Filter number, the turbidity measurement, the date of exceedance and filter profile within 7 days of the exceedance, if no obvious reason for the exceedance

**For Trigger C.:** Filter number, the turbidity measurement, the date of exceedance and a filter self-assessment within 14 days of the exceedance

**For Trigger D.:** Filter number, the turbidity measurement, the date of exceedance and arrange for a Comprehensive Performance Evaluation (CPE) with the Drinking Water Branch no later than 30 days following the exceedance

**MAKE COPIES AS NEEDED**

25/01/2014 12:45:00 PM	0.048415	0.044079	0.057627	0.056723	0.050958	1.82
25/01/2014 1:00:00 PM	0.048583	0.044309	0.057865	0.056501	0.051386	1.82
25/01/2014 1:15:00 PM	0.048286	0.04483	0.058037	0.05666	0.050936	1.81
25/01/2014 1:30:00 PM	0.048317	0.042666	0.057889	0.056505	0.051283	1.83
25/01/2014 1:45:00 PM	0.048478	0.044148	0.057636	0.056191	0.050974	1.85
25/01/2014 2:00:00 PM	0.048372	0.043637	0.057521	0.056329	0.051023	1.85
25/01/2014 2:15:00 PM	0.048497	0.044351	0.057392	0.05601	0.050199	1.86
25/01/2014 2:30:00 PM	0.048748	0.043398	0.057913	0.056501	0.048897	1.87
25/01/2014 2:45:00 PM	0.048368	0.044088	0.058057	0.056442	0.050947	1.88
25/01/2014 3:00:00 PM	0.048078	0.043163	0.058128	0.056329	0.04733	1.88
25/01/2014 3:15:00 PM	0.048039	0.044227	0.057646	0.056144	0.050128	1.88
25/01/2014 3:30:00 PM	0.04809	0.044181	0.058401	0.056036	0.050302	1.88
25/01/2014 3:45:00 PM	0.048137	0.043495	0.058109	0.05573	0.050779	1.88
25/01/2014 4:00:00 PM	0.047961	0.043006	0.057154	0.055562	0.051478	1.88
25/01/2014 4:15:00 PM	0.047671	0.043812	0.057727	0.05609	0.051017	1.88
25/01/2014 4:30:00 PM	0.048133	0.043812	0.057292	0.055491	0.051148	1.87
25/01/2014 4:45:00 PM	0.048118	0.043343	0.057044	0.05557	0.050795	1.88
25/01/2014 5:00:00 PM	0.047969	0.043909	0.057388	0.055797	0.050627	1.91
25/01/2014 5:15:00 PM	0.047918	0.043646	0.057435	0.055462	0.047292	1.96
25/01/2014 5:30:00 PM	0.050646	0.046432	0.057407	0.055214	0.049152	2.02
25/01/2014 5:45:00 PM	0.050497	0.050253	0.057708	0.060552	0.050247	2.01
25/01/2014 6:00:00 PM	0.050446	0.231759	0.139568	0.057062	0.050323	2.35
25/01/2014 6:15:00 PM	0.049902	0.291312	0.134508	0.05591	0.050714	2.45
25/01/2014 6:30:00 PM	0.120769	0.299673	0.132922	0.05552	0.050833	2.53
25/01/2014 6:45:00 PM	0.093973	0.270005	0.206755	0.054745	0.050302	2.44
25/01/2014 7:00:00 PM	0.076973	0.151114	0.168307	0.054159	0.05015	2.34
25/01/2014 7:15:00 PM	0.06877	0.105787	0.131794	0.053547	0.05034	2.25
25/01/2014 7:30:00 PM	0.063944	0.084995	0.111703	0.052328	0.04881	2.18
25/01/2014 7:45:00 PM	0.061545	0.076068	0.100676	0.051264	0.048534	2.13
25/01/2014 8:00:00 PM	0.059917	0.071174	0.094049	0.050635	0.047666	2.08
25/01/2014 8:15:00 PM	0.058344	0.068112	0.090556	0.04999	0.047135	2.05
25/01/2014 8:30:00 PM	0.057498	0.06832	0.087981	0.049542	0.046234	2.03
25/01/2014 8:45:00 PM	0.056653	0.064397	0.086519	0.049424	0.046479	2.01
25/01/2014 9:00:00 PM	0.056489	0.06268	0.08445	0.049596	0.046251	2.01
25/01/2014 9:15:00 PM	0.057119	0.062224	0.082653	0.04898	0.04643	2
25/01/2014 9:30:00 PM	0.072292	0.062251	0.081746	0.136195	0.045866	2
25/01/2014 9:45:00 PM	0.078475	0.058937	0.079825	0.116508	0.045947	1.99
25/01/2014 10:00:00 PM	0.082397	0.060235	0.078554	0.14268	0.046511	1.98
25/01/2014 10:15:00 PM	0.088936	0.05802	0.077116	0.164013	0.046516	1.97
25/01/2014 10:30:00 PM	0.093312	0.057698	0.076409	0.187207	0.046798	1.96
25/01/2014 10:45:00 PM	0.097965	0.055143	0.076065	0.20526	0.047064	1.96
25/01/2014 11:00:00 PM	0.103632	0.054968	0.075649	0.22462	0.047243	1.95
25/01/2014 11:15:00 PM	0.107185	0.053849	0.075257	0.24447	0.047357	1.95
25/01/2014 11:30:00 PM	0.112747	0.055493	0.073637	0.257805	0.047791	1.95
25/01/2014 11:45:00 PM	0.116144	0.05337	0.073332	0.273152	0.04797	1.95

← Turbidity  
going up  
on #5 filter

On 1/24/14 - The Motor and Gear box that turns  
The Rake in #3 Clarifier went Down.  
This is what keeps the Sludge Blanket  
going in order to keep Turbidity Low on  
Top of Filters.

Time	Combined	Turb # 3	Turb # 4	Turb # 5	Turb # 6	Post CL2
26/01/2014 12:00:00 AM	0.118762	0.052937	0.072734	0.290044	0.048496	1.95
26/01/2014 12:15:00 AM	0.123411	0.053269	0.071956	0.299223	0.047688	1.94
26/01/2014 12:30:00 AM	0.127254	0.054093	0.072037	0.31369	0.048675	1.93
26/01/2014 12:45:00 AM	0.131133	0.052951	0.071263	0.326397	0.048219	1.93
26/01/2014 1:00:00 AM	0.135175	0.051722	0.070914	0.342577	0.04816	1.92
26/01/2014 1:15:00 AM	0.139394	0.054217	0.070814	0.353223	0.048301	1.92
26/01/2014 1:30:00 AM	0.143073	0.051676	0.070293	0.369767	0.048349	1.91
26/01/2014 1:45:00 AM	0.147722	0.053306	0.070236	0.381854	0.048425	1.9
26/01/2014 2:00:00 AM	0.142909	0.051455	0.069495	0.392496	0.048284	1.98
26/01/2014 2:15:00 AM	0.157369	0.051634	0.068931	0.379684	0.04785	2.04
26/01/2014 2:30:00 AM	0.161674	0.049342	0.06756	0.41235	0.047682	2
26/01/2014 2:45:00 AM	0.163647	0.050405	0.068305	0.434111	0.048111	1.96
26/01/2014 3:00:00 AM	0.163729	0.050893	0.069065	0.453617	0.048881	1.93
26/01/2014 3:15:00 AM	0.171478	0.051312	0.069361	0.457589	0.048583	1.9
26/01/2014 3:30:00 AM	0.173125	0.051699	0.068941	0.472537	0.048756	1.88
26/01/2014 3:45:00 AM	0.178076	0.05192	0.069342	0.480858	0.049526	1.86
26/01/2014 4:00:00 AM	0.184612	0.049719	0.06852	0.492966	0.049575	1.85
26/01/2014 4:15:00 AM	0.190494	0.048697	0.067426	0.510076	0.050312	1.83
26/01/2014 4:30:00 AM	0.194822	0.04814	0.068009	0.525959	0.050931	1.83
26/01/2014 4:45:00 AM	0.200634	0.044019	0.06734	0.542076	0.050659	1.84
26/01/2014 5:00:00 AM	0.202622	0.044199	0.067999	0.55663	0.050594	1.85
26/01/2014 5:15:00 AM	0.21421	0.044185	0.067503	0.563246	0.051934	1.86
26/01/2014 5:30:00 AM	0.213917	0.049742	0.067311	0.59186	0.051728	1.87
26/01/2014 5:45:00 AM	0.731555	0.051252	0.066709	0.555227	0.0515	1.84
26/01/2014 6:00:00 AM	0.706884	0.052928	0.067135	1.34573	0.073142	1.78
26/01/2014 6:15:00 AM	0.699049	0.052836	0.067464	1.4139	0.089823	1.74
26/01/2014 6:30:00 AM	0.701726	0.050005	0.066432	2.09393	0.253454	1.72
26/01/2014 6:45:00 AM	0.108837	0.051547	0.067789	1.49616	0.472089	1.84
26/01/2014 7:00:00 AM	0.056438	0.051188	0.066079	0.86975	0.264175	1.88
26/01/2014 7:15:00 AM	0.19721	0.051648	0.065668	0.640183	0.254848	1.92
26/01/2014 7:30:00 AM	0.148709	0.05012	0.066093	0.351878	0.270574	1.94
26/01/2014 7:45:00 AM	0.149703	0.052362	0.064918	0.347265	0.153876	1.94
26/01/2014 8:00:00 AM	0.138146	0.050516	0.064784	0.354107	0.108385	1.95
26/01/2014 8:15:00 AM	0.13307	0.051367	0.064454	0.346209	0.084313	1.94
26/01/2014 8:30:00 AM	0.133743	0.053135	0.064368	0.343892	0.07388	1.94
26/01/2014 8:45:00 AM	0.131453	0.052528	0.064378	0.346783	0.072698	1.92
26/01/2014 9:00:00 AM	0.130244	0.052477	0.064607	0.355091	0.067389	1.91
26/01/2014 9:15:00 AM	0.135747	0.052049	0.065644	0.361669	0.064276	1.92
26/01/2014 9:30:00 AM	0.173478	0.051506	0.06616	0.449905	0.083744	1.89
26/01/2014 9:45:00 AM	0.171263	0.052592	0.066251	0.605439	0.068647	1.88
26/01/2014 10:00:00 AM	0.205499	0.051271	0.06509	0.515066	0.066244	1.87
26/01/2014 10:15:00 AM	0.209381	0.050935	0.065061	0.519963	0.179314	1.87
26/01/2014 10:30:00 AM	0.215748	0.050488	0.064545	0.528619	0.193489	1.86
26/01/2014 10:45:00 AM	0.219588	0.050847	0.065037	1.82607	0.361156	1.85
26/01/2014 11:00:00 AM	0.230577	0.050166	0.064607	0.645667	0.263156	1.84
26/01/2014 11:15:00 AM	0.43489	0.049646	0.064664	1.25786	0.262467	1.84
26/01/2014 11:30:00 AM	0.358438	0.052178	0.064043	1.14463	0.270579	1.83
26/01/2014 11:45:00 AM	0.369697	0.052942	0.063432	1.17711	0.270872	1.83
26/01/2014 12:00:00 PM	0.373012	0.0511	0.063957	1.20972	0.273481	1.83
26/01/2014 12:15:00 PM	0.355166	0.050847	0.064316	1.32636	0.281663	1.83
26/01/2014 12:30:00 PM	0.382988	0.051119	0.063503	1.3185	0.283551	1.84

6:04 AM  
 # Sand # 6  
 filter wash

26/01/2014 12:45:00 PM	0.396486	0.050626	0.062787	1.30769	0.275194	1.83
26/01/2014 1:00:00 PM	0.387958	0.049788	0.063613	1.30588	0.259718	1.82
26/01/2014 1:15:00 PM	0.393308	0.049646	0.063069	1.31145	0.263031	1.82
26/01/2014 1:30:00 PM	0.399131	0.051344	0.062261	1.36319	0.298951	1.81
26/01/2014 1:45:00 PM	0.401945	0.049945	0.061372	1.37433	0.300356	1.8
26/01/2014 2:00:00 PM	0.411541	0.04901	0.061559	1.38467	0.316244	1.79
26/01/2014 2:15:00 PM	0.417404	0.048775	0.06078	1.4019	0.300236	1.78
26/01/2014 2:30:00 PM	0.419572	0.047551	0.060856	1.30609	0.272157	1.76
26/01/2014 2:45:00 PM	0.427289	0.047983	0.060259	1.34108	0.256106	1.75
26/01/2014 3:00:00 PM	0.425094	0.04692	0.060068	1.33955	0.256675	1.75
26/01/2014 3:15:00 PM	0.428514	0.047408	0.060388	1.34773	0.249409	1.74
26/01/2014 3:30:00 PM	0.431078	0.047325	0.060842	1.36058	0.254219	1.73
26/01/2014 3:45:00 PM	0.434036	0.048389	0.060493	1.36538	0.260824	1.74
26/01/2014 4:00:00 PM	0.476886	0.047739	0.06111	1.37144	0.264246	1.74
26/01/2014 4:15:00 PM	0.461831	0.047795	0.061095	1.37621	0.297633	1.75
26/01/2014 4:30:00 PM	0.463952	0.050134	0.061253	1.39231	0.317942	1.74
26/01/2014 4:45:00 PM	0.463373	0.048554	0.061186	1.39843	0.317177	1.75
26/01/2014 5:00:00 PM	0.486432	0.049088	0.06174	1.40468	0.323229	1.77
26/01/2014 5:15:00 PM	0.474053	0.049061	0.061521	1.39482	0.321233	1.81
26/01/2014 5:28:03 PM						
26/01/2014 5:30:00 PM	0.459197	0.048301	0.060966	1.24604	0.318641	1.85
26/01/2014 5:45:00 PM	0.063455	0.047735	0.060952	1.22595	0.302568	1.86
26/01/2014 6:00:00 PM	0.05515	0.048076	0.061258	1.13766	0.303886	2.09
26/01/2014 6:15:00 PM	0.143347	0.047449	0.061291	1.14366	0.55426	2.28
26/01/2014 6:30:00 PM	0.07736	0.048619	0.059939	1.1155	0.445252	2.38
26/01/2014 6:45:00 PM	0.142521	0.046708	0.059199	0.98741	0.445214	2.4
26/01/2014 7:00:00 PM	0.218546	0.047095	0.058162	0.95916	0.438164	2.32
26/01/2014 7:15:00 PM	0.140795	0.044774	0.056943	0.506502	0.231291	2.18
26/01/2014 7:30:00 PM	0.112367	0.044047	0.055835	0.297728	0.1588	2.09
26/01/2014 7:45:00 PM	0.105581	0.042993	0.055128	0.241763	0.114762	2.02
26/01/2014 8:00:00 PM	0.097699	0.042914	0.054674	0.229526	0.088445	1.97
26/01/2014 8:15:00 PM	0.093535	0.043798	0.055132	0.216102	0.08043	1.95
26/01/2014 8:30:00 PM	0.093057	0.044411	0.055973	0.217363	0.070805	1.9
26/01/2014 8:45:00 PM	0.092662	0.045645	0.056437	0.215038	0.068565	1.88
26/01/2014 9:00:00 PM	0.092693	0.044314	0.05724	0.217577	0.063191	1.85
26/01/2014 9:15:00 PM	0.095112	0.045378	0.056972	0.219994	0.062118	1.83
26/01/2014 9:30:00 PM	0.096407	0.046943	0.057058	0.228855	0.059564	1.81
26/01/2014 9:45:00 PM	0.098407	0.045576	0.057077	0.234683	0.059461	1.8
26/01/2014 10:00:00 PM	0.101241	0.045686	0.057693	0.241964	0.057785	1.8
26/01/2014 10:15:00 PM	0.103867	0.047302	0.057679	0.254977	0.057237	1.8
26/01/2014 10:30:00 PM	0.105569	0.045672	0.057622	0.258475	0.056982	1.79
26/01/2014 10:45:00 PM	0.107213	0.045884	0.05745	0.268853	0.056803	1.79
26/01/2014 11:00:00 PM	0.107878	0.046971	0.057928	0.275607	0.056283	1.78
26/01/2014 11:15:00 PM	0.109263	0.047809	0.058066	0.281397	0.055746	1.78
26/01/2014 11:30:00 PM	0.11113	0.046216	0.057521	0.286642	0.05599	1.79
26/01/2014 11:45:00 PM	0.115627	0.04704	0.057913	0.289307	0.055263	1.81

5:33 pm  
 # Sand #6  
 Filter wash

Time	Combined	Turb # 3	Turb # 4	Turb # 5	Turb # 6	Post CL2
27/01/2014 12:00:00 AM	0.114461	0.0475	0.058472	0.302034	0.055404	1.81
27/01/2014 12:15:00 AM	0.114938	0.047146	0.058329	0.306061	0.05509	1.83
27/01/2014 12:30:00 AM	0.117881	0.045741	0.057975	0.309923	0.055025	1.84
27/01/2014 12:45:00 AM	0.120194	0.046289	0.058037	0.314909	0.054586	1.85
27/01/2014 1:00:00 AM	0.123262	0.045958	0.058248	0.322475	0.054916	1.85
27/01/2014 1:15:00 AM	0.131183	0.046211	0.057861	0.335115	0.054618	1.85
27/01/2014 1:30:00 AM	0.288596	0.045953	0.058276	0.37265	0.054623	1.85
27/01/2014 1:45:00 AM	0.290283	0.046819	0.058267	0.904478	0.059119	1.85
27/01/2014 2:00:00 AM	0.296415	0.046722	0.058319	0.984251	0.058983	1.85
27/01/2014 2:15:00 AM	0.303663	0.045866	0.057579	0.999757	0.057986	1.85
27/01/2014 2:30:00 AM	0.308176	0.046008	0.058004	1.01826	0.056695	1.85
27/01/2014 2:45:00 AM	0.316511	0.046077	0.057722	1.0374	0.055654	1.85
27/01/2014 3:00:00 AM	0.321783	0.047652	0.057827	1.07297	0.054417	1.85
27/01/2014 3:15:00 AM	0.325164	0.047514	0.057789	1.07964	0.054043	1.85
27/01/2014 3:30:00 AM	0.32628	0.047325	0.057899	1.09347	0.052731	1.84
27/01/2014 3:45:00 AM	0.331998	0.046344	0.057392	1.0978	0.051484	1.85
27/01/2014 4:00:00 AM	0.335704	0.0468	0.057593	1.13264	0.050649	1.85
27/01/2014 4:15:00 AM	0.341179	0.045506	0.057789	1.15615	0.050074	1.84
27/01/2014 4:30:00 AM	0.421153	0.048283	0.057756	1.1612	0.050735	1.84
27/01/2014 4:45:00 AM	0.396666	0.045902	0.057493	1.12196	0.051115	1.75
27/01/2014 5:00:00 AM	0.369153	0.046616	0.057541	1.02678	0.050546	1.7
27/01/2014 5:15:00 AM	0.400567	0.04622	0.057665	1.07301	0.08216	1.7
27/01/2014 5:30:00 AM	0.070507	0.045654	0.057842	0.906711	0.063246	1.81
27/01/2014 5:45:00 AM	0.051757	0.046303	0.057822	0.925568	0.388725	1.86
27/01/2014 6:00:00 AM	0.213651	0.047146	0.057904	1.50515	0.366291	1.89
27/01/2014 6:15:00 AM	0.145292	0.046312	0.057865	0.452457	0.326618	1.9
27/01/2014 6:30:00 AM	0.124382	0.047242	0.057025	0.331604	0.14398	1.91
27/01/2014 6:45:00 AM	0.120625	0.045787	0.056824	0.314691	0.103868	1.9
27/01/2014 7:00:00 AM	0.113584	0.045778	0.057039	0.289776	0.085907	1.9
27/01/2014 7:15:00 AM	0.110551	0.045341	0.057158	0.283856	0.076537	1.89
27/01/2014 7:30:00 AM	0.108551	0.046041	0.057402	0.278552	0.069075	1.88
27/01/2014 7:45:00 AM	0.109389	0.044945	0.057025	0.283328	0.064883	1.88
27/01/2014 8:00:00 AM	0.110097	0.046395	0.057464	0.282943	0.062232	1.87
27/01/2014 8:15:00 AM	0.231763	0.047251	0.05744	0.284794	0.059715	1.86
27/01/2014 8:30:00 AM	0.159526	0.046225	0.057732	0.512799	0.05887	1.86
27/01/2014 8:45:00 AM	0.203886	0.046234	0.057732	0.488387	0.058598	1.86
27/01/2014 9:00:00 AM	0.211925	0.046294	0.057163	0.499719	0.21222	1.85
27/01/2014 9:15:00 AM	0.216695	0.04605	0.057125	0.515585	0.228358	1.85
27/01/2014 9:30:00 AM	0.219705	0.04645	0.057397	0.537978	0.233737	1.85
27/01/2014 9:45:00 AM	0.222797	0.044461	0.056943	0.53515	0.239968	1.85
27/01/2014 10:00:00 AM	0.247906	0.046704	0.057364	0.562052	0.243449	1.84
27/01/2014 10:15:00 AM	0.30308	0.045152	0.056862	0.794602	0.243444	1.84
27/01/2014 10:30:00 AM	0.302223	0.046308	0.057206	0.940667	0.25083	1.84
27/01/2014 10:45:00 AM	0.314711	0.045474	0.056838	0.925426	0.251811	1.83
27/01/2014 11:00:00 AM	0.414159	0.045355	0.057125	1.41014	0.256079	1.82
27/01/2014 11:15:00 AM	0.416566	0.045649	0.056518	1.39852	0.256225	1.82
27/01/2014 11:30:00 AM	0.421212	0.045161	0.056982	1.39658	0.261778	1.81
27/01/2014 11:45:00 AM	0.400266	0.046667	0.056523	1.42028	0.263063	1.81
27/01/2014 12:00:00 PM	0.429207	0.048545	0.056628	1.52277	0.268302	1.81
27/01/2014 12:15:00 PM	0.440717	0.046294	0.055343	1.51465	0.270954	1.8
27/01/2014 12:30:00 PM	0.444314	0.04535	0.055524	1.51953	0.270997	1.79

5:00 AM  
 # Sand # 6  
 Filter wash

27/01/2014 12:45:00 PM	0.451045	0.044535	0.055285	1.55048	0.274896	1.78
27/01/2014 1:00:00 PM	0.459972	0.044959	0.055376	1.57728	0.27989	1.78
27/01/2014 1:15:00 PM	0.467682	0.045157	0.054669	1.58357	0.292129	1.79
27/01/2014 1:30:00 PM	0.472519	0.045037	0.054502	1.61405	0.296251	1.8
27/01/2014 1:45:00 PM	0.474804	0.045815	0.054473	1.6253	0.295296	1.8
27/01/2014 2:00:00 PM	0.479415	0.044125	0.054282	1.63591	0.299895	1.8
27/01/2014 2:15:00 PM	0.58615	0.044484	0.054129	1.64157	0.300345	1.81
27/01/2014 2:30:00 PM	0.512899	0.044922	0.053819	1.90101	0.304916	1.82
27/01/2014 2:45:00 PM	0.552454	0.044116	0.0539	1.7877	0.304314	1.83
27/01/2014 3:00:00 PM	0.529469	0.04546	0.053446	1.77797	0.300009	1.87
27/01/2014 3:15:00 PM	0.520002	0.045055	0.053188	1.58532	0.2829	1.91
27/01/2014 3:30:00 PM	0.057001	0.045396	0.053145	2.06756	0.278556	1.92
27/01/2014 3:45:00 PM	0.050951	0.044282	0.052963	1.54521	0.329481	1.91
27/01/2014 4:00:00 PM	0.051683	0.046128	0.052075	1.01248	0.945257	2.32
27/01/2014 4:15:00 PM	0.130017	0.043541	0.042519	0.96588	0.708294	2.44
27/01/2014 4:30:00 PM	0.162128	0.04337	0.046456	1.01817	0.67958	2.52
27/01/2014 4:45:00 PM	0.323415	0.04331	0.045128	0.992178	0.654559	2.49
27/01/2014 5:00:00 PM	0.372217	0.04128	0.045099	0.708255	0.28592	2.32
27/01/2014 5:15:00 PM	0.310034	0.042362	0.044397	0.668538	0.412515	2.22
27/01/2014 5:30:00 PM	0.296505	0.040534	0.043565	0.684333	0.386713	2.13
27/01/2014 5:45:00 PM	0.290255	0.042173	0.043307	0.693973	0.379723	2.06
27/01/2014 6:00:00 PM	0.297327	0.041888	0.043876	0.691183	0.378633	2.01
27/01/2014 6:15:00 PM	0.416922	0.043297	0.044119	0.697412	0.396447	2.03
27/01/2014 6:30:00 PM	0.338494	0.041018	0.043493	0.711636	0.423789	2.07
27/01/2014 6:45:00 PM	0.318022	0.04262	0.042438	0.722751	0.440323	2.02
27/01/2014 7:00:00 PM	0.326468	0.042486	0.042681	0.748839	0.443365	1.98
27/01/2014 7:15:00 PM	0.329101	0.042721	0.043656	0.780161	0.450344	1.94
27/01/2014 7:30:00 PM	0.359193	0.043987	0.040804	0.80459	0.47088	1.92
27/01/2014 7:45:00 PM	0.358207	0.043347	0.045333	0.866692	0.483206	1.9
27/01/2014 8:00:00 PM	0.367869	0.042136	0.045773	0.908512	0.494941	1.89
27/01/2014 8:15:00 PM	0.378835	0.043835	0.046308	0.942155	0.513459	1.87
27/01/2014 8:30:00 PM	0.394165	0.04396	0.045624	0.968293	0.526284	1.87
27/01/2014 8:45:00 PM	0.504888	0.043168	0.045386	0.999874	0.542596	1.86
27/01/2014 9:00:00 PM	0.503914	0.043076	0.044478	1.02702	0.909771	1.86
27/01/2014 9:15:00 PM	0.513431	0.043729	0.045147	1.05507	0.985879	1.86
27/01/2014 9:30:00 PM	0.530769	0.044323	0.046164	1.15532	0.980343	1.86
27/01/2014 9:45:00 PM	0.539911	0.044972	0.045424	1.13858	1.00771	1.86
27/01/2014 10:00:00 PM	0.557808	0.0439	0.045113	1.17141	1.03407	1.86
27/01/2014 10:15:00 PM	0.610817	0.04546	0.041893	1.179	1.05373	1.85
27/01/2014 10:30:00 PM	0.616613	0.043126	0.04368	1.34308	1.04965	1.85
27/01/2014 10:45:00 PM	0.634698	0.04302	0.0468	1.38525	1.06962	1.86
27/01/2014 11:00:00 PM	0.640341	0.04523	0.04679	1.43356	1.08187	1.87
27/01/2014 11:15:00 PM	0.647456	0.043946	0.045132	1.47599	1.10411	1.87
27/01/2014 11:30:00 PM	0.659667	0.043835	0.045032	1.4802	1.10955	1.88
27/01/2014 11:45:00 PM	0.664046	0.044254	0.045472	1.50641	1.13742	1.88

3:22 pm  
 ← Sand →  
 Filter wash

Time	Combined	Turb # 3	Turb # 4	Turb # 5	Turb # 6	Post CL2
28/01/2014 12:00:00 AM	0.669642	0.044926	0.043618	1.51629	1.15597	1.88
28/01/2014 12:15:00 AM	0.680784	0.043112	0.043823	1.54159	1.14957	1.88
28/01/2014 12:30:00 AM	0.704861	0.043472	0.047526	1.55861	1.16465	1.88
28/01/2014 12:45:00 AM	0.710097	0.04587	0.046174	1.59555	1.20101	1.88
28/01/2014 1:00:00 AM	1.05733	0.044609	0.045682	1.55479	1.1584	1.81
28/01/2014 1:15:00 AM	0.942717	0.044452	0.046126	1.86458	1.17064	1.75
28/01/2014 1:30:00 AM	0.975939	0.044259	0.047101	2.19935	0.965229	1.73
28/01/2014 1:45:00 AM	1.33512	0.043748	0.045983	1.795	1.20494	1.73
28/01/2014 2:00:00 AM	0.060774	0.043352	0.047421	1.40644	1.40233	1.93
28/01/2014 2:15:00 AM	0.289547	0.045313	0.047206	1.33486	1.44122	1.98
28/01/2014 2:30:00 AM	0.15407	0.045594	0.045897	0.844626	1.37326	1.97
28/01/2014 2:45:00 AM	0.246126	0.044475	0.045524	0.315114	0.357257	1.95
28/01/2014 3:00:00 AM	0.19638	0.045686	0.046203	0.606	0.149343	1.94
28/01/2014 3:15:00 AM	0.193136	0.043117	0.046198	0.590189	0.112441	1.92
28/01/2014 3:30:00 AM	0.189011	0.045069	0.045371	0.678932	0.093163	1.9
28/01/2014 3:45:00 AM	0.195088	0.045258	0.045873	0.629035	0.07998	1.89
28/01/2014 4:00:00 AM	0.210019	0.043264	0.045529	0.65708	0.074829	1.88
28/01/2014 4:15:00 AM	0.237715	0.04279	0.045008	0.727138	0.070393	1.85
28/01/2014 4:30:00 AM	0.2415	0.043955	0.044444	0.830951	0.06894	1.86
28/01/2014 4:45:00 AM	0.245057	0.044977	0.043947	0.837889	0.066846	1.85
28/01/2014 5:00:00 AM	0.288604	0.044434	0.044564	0.861493	0.065268	1.84
28/01/2014 5:15:00 AM	0.3058	0.047021	0.042466	1.03154	0.065588	1.84
28/01/2014 5:30:00 AM	0.306579	0.045106	0.04302	1.1101	0.06612	1.84
28/01/2014 5:45:00 AM	0.30598	0.04407	0.044306	1.11097	0.065979	1.83
28/01/2014 6:00:00 AM	0.35877	0.04453	0.045558	1.15829	0.065691	1.84
28/01/2014 6:15:00 AM	0.339551	0.0436	0.044459	1.26953	0.064694	1.83
28/01/2014 6:30:00 AM	0.348329	0.04576	0.043608	1.29442	0.06554	1.83
28/01/2014 6:45:00 AM	0.354595	0.044503	0.044115	1.28973	0.064569	1.84
28/01/2014 7:00:00 AM	0.404477	0.043927	0.043981	1.45814	0.065648	1.98
28/01/2014 7:15:00 AM	0.376957	0.044024	0.043575	1.43603	0.06708	1.99
28/01/2014 7:30:00 AM	0.392815	0.04564	0.043054	1.43216	0.063951	1.95
28/01/2014 7:45:00 AM	0.397675	0.044365	0.041721	1.49248	0.064585	1.94
28/01/2014 8:00:00 AM	0.394028	0.042647	0.042872	1.49769	0.065095	1.92
28/01/2014 8:15:00 AM	0.401667	0.046133	0.046102	1.51644	0.064775	1.91
28/01/2014 8:30:00 AM	0.400114	0.044995	0.045663	1.5117	0.065496	1.89
28/01/2014 8:45:00 AM	0.40609	0.043172	0.045753	1.55909	0.066727	1.89
28/01/2014 9:00:00 AM	0.451601	0.042588	0.045204	1.57675	0.066141	1.88
28/01/2014 9:15:00 AM	0.434393	0.04366	0.042734	1.68644	0.068159	1.87
28/01/2014 9:30:00 AM	0.438596	0.044171	0.040746	1.68146	0.067866	1.87
28/01/2014 9:45:00 AM	0.449194	0.044498	0.041496	1.70198	0.068294	1.86
28/01/2014 10:00:00 AM	0.532913	0.042509	0.042514	1.70699	0.068359	1.86
28/01/2014 10:15:00 AM	0.475998	0.043287	0.041401	1.92264	0.068994	1.85
28/01/2014 10:30:00 AM	0.486209	0.043398	0.041635	1.85085	0.069753	1.85
28/01/2014 10:45:00 AM	0.498098	0.042914	0.040092	1.91235	0.070306	1.84
28/01/2014 11:00:00 AM	0.499957	0.046358	0.03991	1.91181	0.070642	1.83
28/01/2014 11:15:00 AM	0.53595	0.043361	0.038864	2.15071	0.071884	1.83
28/01/2014 11:30:00 AM	0.544466	0.04291	0.042356	2.07812	0.07414	1.82
28/01/2014 11:45:00 AM	0.550301	0.046211	0.046131	2.08983	0.073684	1.81
28/01/2014 12:00:00 PM	0.554818	0.04401	0.045615	2.12888	0.074455	1.81
28/01/2014 12:15:00 PM	0.559663	0.044392	0.041912	2.15018	0.074986	1.8
28/01/2014 12:30:00 PM	0.566429	0.044121	0.04507	2.17408	0.076754	1.8

1:17 to me  
 # Sand # 6  
 Filter water

28/01/2014 12:45:00 PM	0.570629	0.042601	0.046843	2.19099	0.077627	1.8
28/01/2014 1:00:00 PM	0.575399	0.043909	0.045658	2.19799	0.077361	1.79
28/01/2014 1:15:00 PM	0.575454	0.04221	0.045687	2.19358	0.078787	1.78
28/01/2014 1:30:00 PM	0.580385	0.0446	0.045777	2.21763	0.080365	1.78
28/01/2014 1:45:00 PM	0.584091	0.044429	0.045481	2.24202	0.080897	1.78
28/01/2014 2:00:00 PM	0.595002	0.041694	0.044186	2.28307	0.082225	1.77
28/01/2014 2:15:00 PM	0.572671	0.044682	0.043986	2.21273	0.085029	1.78
28/01/2014 2:30:00 PM	0.544932	0.045497	0.044497	1.99735	0.081851	1.8
28/01/2014 2:45:00 PM	0.05969	0.043011	0.043637	2.65511	0.090652	1.83
28/01/2014 3:00:00 PM	0.052571	0.044641	0.041128	1.61436	0.163437	1.82
28/01/2014 3:15:00 PM	0.054391	0.041575	0.04249	0.894997	0.938598	1.8
28/01/2014 3:30:00 PM	0.319071	0.042426	0.0426	0.856788	1.112	1.77
28/01/2014 3:45:00 PM	0.153123	0.041087	0.042323	0.588136	0.907352	1.64
28/01/2014 4:00:00 PM	0.120339	0.041519	0.042027	0.311608	0.253622	1.64
28/01/2014 4:15:00 PM	0.097578	0.041248	0.040206	0.223593	0.148963	1.69
28/01/2014 4:30:00 PM	0.084702	0.041119	0.039509	0.189436	0.118889	1.73
28/01/2014 4:45:00 PM	0.077622	0.040801	0.037918	0.166137	0.094356	1.75
28/01/2014 5:00:00 PM	0.072057	0.041768	0.03775	0.162442	0.080984	1.76
28/01/2014 5:15:00 PM	0.070785	0.040921	0.043212	0.149576	0.072757	1.78
28/01/2014 5:30:00 PM	0.070969	0.04099	0.04132	0.149974	0.067378	1.79
28/01/2014 5:45:00 PM	0.067502	0.041174	0.043379	0.145177	0.066358	1.8
28/01/2014 6:00:00 PM	0.066742	0.041883	0.043914	0.141226	0.06234	1.81
28/01/2014 6:15:00 PM	0.068128	0.041634	0.044435	0.138993	0.060296	1.81
28/01/2014 6:30:00 PM	0.067791	0.041367	0.042958	0.14064	0.05926	1.82
28/01/2014 6:45:00 PM	0.068895	0.042739	0.044153	0.142479	0.058821	1.82
28/01/2014 7:00:00 PM	0.067267	0.04209	0.041363	0.146719	0.057324	1.82
28/01/2014 7:15:00 PM	0.07037	0.043918	0.044736	0.156464	0.057102	1.84
28/01/2014 7:30:00 PM	0.071423	0.043071	0.043078	0.157038	0.056738	1.85
28/01/2014 7:45:00 PM	0.075951	0.043798	0.045156	0.161148	0.056592	1.85
28/01/2014 8:00:00 PM	0.074793	0.046602	0.045854	0.167972	0.055713	1.86
28/01/2014 8:15:00 PM	0.072695	0.042187	0.045777	0.174697	0.055621	1.87
28/01/2014 8:30:00 PM	0.076937	0.044742	0.044559	0.176326	0.054857	1.87
28/01/2014 8:45:00 PM	0.153925	0.042974	0.043503	0.182255	0.054743	1.87
28/01/2014 9:00:00 PM	0.133093	0.042362	0.036221	0.430411	0.054705	1.88
28/01/2014 9:15:00 PM	0.135391	0.042537	0.044798	0.415987	0.054439	1.88
28/01/2014 9:30:00 PM	0.13725	0.045262	0.035524	0.426683	0.055638	1.88
28/01/2014 9:45:00 PM	0.141672	0.043785	0.036131	0.435363	0.054428	1.88
28/01/2014 10:00:00 PM	0.144224	0.042486	0.036823	0.449817	0.055079	1.88
28/01/2014 10:15:00 PM	0.145104	0.04372	0.04582	0.459156	0.054472	1.89
28/01/2014 10:30:00 PM	0.149538	0.042035	0.046002	0.477272	0.05343	1.89
28/01/2014 10:45:00 PM	0.161091	0.042684	0.046102	0.492115	0.054238	1.88
28/01/2014 11:00:00 PM	0.241214	0.04337	0.045878	0.832229	0.054596	1.88
28/01/2014 11:15:00 PM	0.249687	0.044972	0.044411	0.900632	0.055106	1.88
28/01/2014 11:30:00 PM	0.254454	0.041262	0.045629	0.933013	0.055263	1.88
28/01/2014 11:45:00 PM	0.26432	0.044461	0.043871	0.938145	0.054764	1.88

1:55 pm  
 # Sand #6  
 Filter wood

Time	Combined Turb	Turb # 3	Turb # 4	Turb # 5	Turb # 6	Post CL2
29/01/2014 12:00:00 AM	0.264429	0.041271	0.0455	0.967501	0.054575	1.88
29/01/2014 12:15:00 AM	0.264922	0.043628	0.044463	0.988638	0.054992	1.88
29/01/2014 12:30:00 AM	0.270429	0.042367	0.045553	1.00385	0.05426	1.88
29/01/2014 12:45:00 AM	0.275939	0.043255	0.043747	1.04179	0.055583	1.88
29/01/2014 1:00:00 AM	0.280585	0.04453	0.043943	1.05692	0.055453	1.88
29/01/2014 1:15:00 AM	0.282185	0.044705	0.04379	1.05983	0.054981	1.88
29/01/2014 1:30:00 AM	0.282162	0.044153	0.045768	1.07086	0.055209	1.88
29/01/2014 1:45:00 AM	0.291187	0.041634	0.044272	1.08488	0.055903	1.88
29/01/2014 2:00:00 AM	0.292736	0.041943	0.047641	1.12067	0.055871	1.87
29/01/2014 2:15:00 AM	0.293398	0.043002	0.045844	1.1153	0.055632	1.88
29/01/2014 2:30:00 AM	0.299746	0.044719	0.043135	1.13611	0.056088	1.88
29/01/2014 2:45:00 AM	0.301542	0.043379	0.046059	1.15972	0.056109	1.88
29/01/2014 3:00:00 AM	0.307894	0.042583	0.045247	1.14431	0.057709	1.79
29/01/2014 3:15:00 AM	0.294478	0.042988	0.045347	1.21037	0.057199	1.76
29/01/2014 3:30:00 AM	0.156254	0.042449	0.046484	0.974523	0.054971	1.75
29/01/2014 3:45:00 AM	0.0524616	0.044337	0.045949	0.916963	0.055757	1.74
29/01/2014 4:00:00 AM	0.0495538	0.040553	0.046977	1.33579	0.064151	1.73
29/01/2014 4:15:00 AM	0.0491977	0.041929	0.04583	1.07313	0.066375	1.92
29/01/2014 4:30:00 AM	0.0475814	0.04332	0.044253	0.775753	0.075214	1.93
29/01/2014 4:45:00 AM	0.136709	0.041773	0.044674	0.756657	0.241915	2.01
29/01/2014 5:00:00 AM	0.0497534	0.043835	0.044005	0.754646	0.245873	2.07
29/01/2014 5:15:00 AM	0.283481	0.041717	0.041625	0.760847	0.246925	2.08
29/01/2014 5:30:00 AM	0.293136	0.039093	0.042586	0.563443	0.421489	2
29/01/2014 5:45:00 AM	0.3281	0.041731	0.040163	0.574285	0.423051	1.93
29/01/2014 6:00:00 AM	0.317948	0.037597	0.040655	0.720363	0.422796	1.87
29/01/2014 6:15:00 AM	0.309753	0.039434	0.042801	0.751508	0.407211	1.82
29/01/2014 6:30:00 AM	0.311917	0.042634	0.040947	0.786433	0.409852	0
29/01/2014 6:44:23 AM	0.365627	0.038996	0.041678	0.746598	0.410302	1.76
29/01/2014 6:45:00 AM	0.376456	0.037578	0.042084	0.751261	0.412319	1.76
29/01/2014 7:00:00 AM	0.429274	0.039006	0.041965	0.756372	0.406739	0
29/01/2014 7:15:00 AM	0.350098	0.036796	0.035352	0.781556	0.415492	1.9
29/01/2014 7:30:00 AM	0.385297	0.039867	0.040335	0.925279	0.333971	1.89
29/01/2014 7:45:00 AM	0.357326	0.039319	0.036112	0.942046	0.327453	1.87
29/01/2014 8:00:00 AM	Bad	Bad	Bad	Bad	Bad	Bad
29/01/2014 8:09:06 AM						
29/01/2014 8:15:00 AM	Bad	Bad	Bad	Bad	Bad	Bad
29/01/2014 8:30:00 AM	Bad	Bad	Bad	Bad	Bad	Bad
29/01/2014 9:26:04 AM	Bad	Bad	Bad	Bad	Bad	Bad
29/01/2014 9:30:00 AM	1.1109	Bad	0.046919	1.21254	0.460549	0
29/01/2014 9:45:00 AM	0.475258	Bad 0.073	0.046699	1.32452	0.487522	1.77
29/01/2014 10:00:00 AM	0.438486	Bad 0.068	0.046145	1.21497	0.426522	1.77
29/01/2014 10:15:00 AM	0.436623	Bad 0.066	0.046059	1.28052	0.431451	1.78
29/01/2014 10:30:00 AM	0.415173	Bad 0.063	0.045663	1.1901	0.419195	1.79
29/01/2014 10:40:16 AM						
29/01/2014 10:45:00 AM	0.428659	0.061809	0.046059	1.22185	0.41374	1.77
29/01/2014 10:59:59 AM	0.422969	0.061745	0.045242	1.21152	0.414841	1.76
29/01/2014 11:00:00 AM	0.422969	0.061745	0.045242	1.21152	0.413718	1.76
29/01/2014 11:15:00 AM	0.379203	0.061579	0.046217	1.2358	0.423268	1.76
29/01/2014 11:30:00 AM	0.439703	0.06052	0.04519	1.35471	0.436825	1.76
29/01/2014 11:45:00 AM	0.445499	0.060543	0.045577	1.30939	0.449753	1.74
29/01/2014 12:00:00 PM	0.458735	0.058066	0.04442	1.31583	0.444081	1.72

3:45 am  
#5 and #6  
Filter wash

Electricity  
Blink a few  
Times then off  
at 8:30 am.  
On again at  
9:27 am

11:00 am - Motor and Gear Box unit installed on  
#3 Clarifier. Rake is now Turning

29/01/2014 12:15:00 PM	0.461021	0.059075	0.044554	1.34241	0.450913	1.72
29/01/2014 12:30:00 PM	0.52082	0.055129	0.04508	1.44042	0.458174	1.7
29/01/2014 12:45:00 PM	0.46504	0.056211	0.044291	1.41212	0.457182	1.69
29/01/2014 1:00:00 PM	0.467036	0.055419	0.04487	1.39325	0.452291	1.69
29/01/2014 1:15:00 PM	0.443222	0.054457	0.045166	1.34308	0.44978	1.68
29/01/2014 1:30:00 PM	0.504176	0.055456	0.044463	1.31103	0.439666	1.68
29/01/2014 1:45:00 PM	0.449159	0.055028	0.043689	1.38978	0.435908	1.67
29/01/2014 2:00:00 PM	0.421548	0.059618	0.042992	1.31007	0.413068	1.67
29/01/2014 2:15:00 PM	0.402947	0.058076	0.043135	1.25014	0.415161	1.66
29/01/2014 2:30:00 PM	0.400481	0.058181	0.041826	1.1776	0.383112	1.65
29/01/2014 2:45:00 PM	0.37347	0.05832	0.032308	1.10988	0.373894	1.65
29/01/2014 3:00:00 PM	0.342427	0.055879	0.032772	1.05696	0.342247	1.64
29/01/2014 3:15:00 PM	0.322249	0.056874	0.041525	0.979002	0.325799	1.64
29/01/2014 3:30:00 PM	0.311514	0.056229	0.041463	0.914428	0.302378	1.64
29/01/2014 3:45:00 PM	0.28408	0.054411	0.041711	0.854986	0.298322	1.64
29/01/2014 4:00:00 PM	0.285962	0.05436	0.042619	0.814884	0.269782	1.64
29/01/2014 4:15:00 PM	0.281172	0.055295	0.043446	0.762309	0.261274	1.63
29/01/2014 4:30:00 PM	0.271008	0.056298	0.042232	0.740444	0.247598	1.62
29/01/2014 4:45:00 PM	0.287903	0.059765	0.043183	0.741302	0.232897	1.62
29/01/2014 5:00:00 PM	0.263932	0.055691	0.043689	0.699285	0.224302	1.61
29/01/2014 5:15:00 PM	0.236921	0.055912	0.043756	0.602573	0.226509	1.63
29/01/2014 5:30:00 PM	0.274206	0.055161	0.043255	1.05502	0.209427	1.64
29/01/2014 5:45:00 PM	0.0543558	0.058246	0.042643	1.12852	0.392163	1.68
29/01/2014 6:00:00 PM	0.0497769	0.060152	0.042777	0.792558	0.534933	1.7
29/01/2014 6:15:00 PM	0.0488925	0.057574	0.035624	0.504102	0.536696	1.81
29/01/2014 6:30:00 PM	0.186839	0.055299	0.035591	0.461531	0.490971	1.86
29/01/2014 6:45:00 PM	0.13786	0.055115	0.033517	0.309496	0.444108	1.88
29/01/2014 7:00:00 PM	0.122225	0.057307	0.041296	0.264689	0.251139	1.86
29/01/2014 7:15:00 PM	0.109921	0.052215	0.041726	0.20774	0.188376	1.85
29/01/2014 7:30:00 PM	0.0937852	0.053669	0.042227	0.179104	0.148529	1.83
29/01/2014 7:45:00 PM	0.104109	0.055391	0.042361	0.164725	0.133422	1.81
29/01/2014 8:00:00 PM	0.0842752	0.059701	0.041492	0.150665	0.11192	1.8
29/01/2014 8:15:00 PM	0.0875352	0.056266	0.041955	0.148252	0.099535	1.8
29/01/2014 8:30:00 PM	0.0957616	0.054682	0.043618	0.190713	0.091205	1.79
29/01/2014 8:45:00 PM	0.093206	0.057767	0.043809	0.21976	0.086694	1.79
29/01/2014 9:00:00 PM	0.0953546	0.053794	0.042557	0.188447	0.078961	1.78
29/01/2014 9:15:00 PM	0.0944818	0.055539	0.043465	0.182058	0.073695	1.78
29/01/2014 9:30:00 PM	0.0866468	0.054471	0.043971	0.181341	0.071033	1.79
29/01/2014 9:45:00 PM	0.0849992	0.05494	0.044033	0.168517	0.069737	1.85
29/01/2014 10:00:00 PM	0.0792736	0.057228	0.041649	0.164847	0.068983	1.84
29/01/2014 10:15:00 PM	0.0806669	0.054959	0.041439	0.164399	0.066852	1.83
29/01/2014 10:30:00 PM	0.0796298	0.054959	0.043106	0.161583	0.066467	1.83
29/01/2014 10:45:00 PM	0.0771055	0.055939	0.042586	0.161474	0.06535	1.82
29/01/2014 11:00:00 PM	0.0769998	0.055493	0.041224	0.155844	0.064059	1.81
29/01/2014 11:15:00 PM	0.0761897	0.056575	0.041343	0.15956	0.061597	1.82
29/01/2014 11:30:00 PM	0.0758806	0.055815	0.041702	0.152597	0.062779	1.82
29/01/2014 11:45:00 PM	0.0755518	0.056211	0.043078	0.157201	0.061554	1.82

5:29 p m  
#Sand #6  
Filter Wash

**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

01/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>61,153,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,972,677</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>2,052,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input checked="" type="checkbox"/> Y
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input checked="" type="checkbox"/> Y
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Number of hours of plant operation	<u>740.0</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>
Highest single turbidity reading	<u>0.71</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU	<u>26</u>
Number of samples exceeded 0.3 NTU	<u>10</u>
Number of samples exceeded 1 NTU	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU	<u>    </u>
Number of samples exceeded 5 NTU	<u>    </u>

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded	<u>31</u>
Lowest single chlorine reading	<u>1.65</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L	<u>    </u>

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorite reading	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

*Earl T. Allen*

Signature of Principal Executive Officer or Authorized Agent

02-07-2014

Date



RECEIVED  
 MAR 10 2014  
 BY: \_\_\_\_\_

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 02/2014

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: <u>A</u>	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>03-06-2014</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Jerry L Belcher</u>	<u>1V-A</u>	<u>21719</u>	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.7
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

03-05-2014  
 DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 02/2014  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	2,032,000	24.0	224.2	13.2	4.2	0.2			314.2	18.5	169.2	10.0
2	2,024,000	24.0	224.2	13.3	4.2	0.2			315.7	18.7	166.3	9.9
3	1,932,000	23.5	309.2	19.2	4.1	0.3			294.6	18.3	165.7	10.3
4	2,002,000	24.0	315.7	18.9	4.2	0.3			297.6	17.8	169.2	10.1
5	2,054,000	24.0	448.4	26.2	4.2	0.2			333.3	19.5	159.8	9.3
6	2,075,000	24.0	448.4	25.9	4.2	0.2			361.8	20.9	163.5	9.4
7	2,001,000	24.0	409.2	24.5	4.2	0.3			365.5	21.9	164.5	9.9
8	1,995,000	24.0	362.6	21.8	4.2	0.3			371.3	22.3	168.6	10.1
9	2,021,000	24.0	362.6	21.5	4.2	0.2			365.0	21.7	155.5	9.2
10	1,987,000	24.0	362.6	21.9	4.2	0.3			333.1	20.1	159.8	9.6
11	2,036,000	24.0	362.6	21.4	4.2	0.2			336.1	19.8	159.8	9.4
12	1,976,000	24.0	362.6	22.0	4.2	0.3			346.7	21.0	159.8	9.7
13	2,017,000	24.0	362.6	21.6	4.2	0.2			359.5	21.4	159.8	9.5
14	1,963,000	24.0	362.6	22.2	4.2	0.3			365.2	22.3	163.5	10.0
15	1,994,000	24.0	362.6	21.8	4.2	0.3			359.5	21.8	169.2	10.2
16	1,999,000	24.0	362.6	21.8	4.2	0.3			341.4	20.5	166.9	10.0
17	2,040,000	24.0	319.0	18.7	4.2	0.2			347.6	20.4	169.2	9.9
18	1,961,000	24.0	292.9	17.9	4.2	0.3			343.4	21.0	169.2	10.3
19	2,027,000	24.0	270.8	16.0	4.2	0.2			329.4	19.5	159.8	9.5
20	1,964,000	23.5	252.2	15.4	4.2	0.3			325.8	19.9	156.5	9.6
21	1,183,000	14.0	197.5	20.0	2.5	0.3			181.9	18.4	93.2	9.4
22	2,007,000	24.0	338.6	20.2	4.2	0.3			317.5	19.0	159.8	9.5
23	2,042,000	24.0	338.6	19.9	4.2	0.2			357.4	21.0	159.8	9.4
24	2,035,000	24.0	338.6	20.0	4.2	0.2			332.7	19.6	159.8	9.4
25	2,009,000	23.5	338.6	20.2	4.2	0.3			298.9	17.8	156.5	9.3
26	1,937,000	23.0	324.5	20.1	4.0	0.2			298.8	18.5	153.2	9.5
27	1,879,000	23.0	273.8	17.5	4.0	0.3			312.6	19.9	153.2	9.8
28	2,000,000	24.0	257.4	15.4	4.2	0.3			317.9	19.1	159.8	9.6
29												
30												
31												
TOTAL	55,192,000		9185.6		115.4		0.0		9224.3		4471.1	
AVERAGE	1,971,143		328.1	19.9	4.1	0.3	#DIV/0!	#DIV/0!	329.4	20.0	159.7	9.7
MAX	2,075,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 02/2014

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.01	7.06	7.14	37	32	86	82	0.64	0.57	1.95	1.88	8.57	0.42	0.09
2	7.04	7.04	7.18	38	35	84	79	0.73	0.66	2.04	1.97	8.40	0.28	0.08
3	6.98	6.98	7.10	48	42	77	72	0.61	0.54	1.90	1.82	46.60	0.29	0.06
4	6.91	6.85	7.01	36	31	79	75	0.57	0.51	1.96	1.86	56.80	0.31	0.05
5	6.96	6.88	6.83	35	32	72	65	0.51	0.32	1.86	1.72	38.80	0.22	0.05
6	6.89	6.90	6.97	37	32	70	64	0.78	0.70	1.99	1.91	139.00	0.18	0.50
7	6.92	6.85	7.07	34	30	76	71	0.78	0.71	2.01	1.93	120.00	0.18	0.05
8	6.91	6.85	7.11	16	18	77	74	0.79	0.69	2.08	1.99	103.00	0.20	0.06
9	6.90	6.82	7.10	18	18	79	74	0.91	0.82	2.08	1.98	89.70	0.17	0.06
10	6.91	6.89	7.11	32	27	87	82	0.76	0.70	1.99	1.88	80.70	0.18	0.05
11	6.90	6.82	7.16	47	42	63	58	0.93	0.87	2.04	1.96	67.80	0.17	0.06
12	6.90	6.79	7.19	39	35	66	62	0.81	0.76	1.98	1.91	58.60	0.22	0.06
13	6.85	6.87	7.05	58	53	78	68	0.72	0.63	1.88	1.81	49.30	0.18	0.05
14	6.87	6.87	7.07	37	32	56	50	0.83	0.76	2.03	1.95	39.60	0.22	0.06
15	6.90	6.91	7.08	34	29	59	55	0.86	0.77	2.03	1.94	29.50	0.27	0.07
16	6.87	6.84	7.10	20	18	62	60	0.69	0.59	2.01	1.92	25.30	0.13	0.05
17	6.80	6.87	7.13	23	18	56	51	0.73	0.65	1.96	1.88	23.80	0.15	0.05
18	6.92	6.86	6.97	18	18	67	64	0.71	0.62	1.95	1.87	21.90	0.14	0.05
19	6.91	6.90	7.14	19	20	46	44	0.73	0.65	1.95	1.89	21.50	0.18	0.05
20	6.91	6.92	7.11	18	19	47	40	0.82	0.74	1.81	1.80	20.10	0.17	0.05
21	6.92	6.90	7.16	41	35	61	56	0.74	0.66	1.97	1.90	18.80	0.28	0.07
22	6.90	6.88	7.13	12	15	85	82	0.68	0.60	1.92	1.84	46.00	0.20	0.05
23	6.90	6.85	7.09	14	19	87	84	0.78	0.69	2.03	1.94	45.30	0.21	0.05
24	6.86	6.82	7.06	31	26	66	62	0.81	0.72	1.97	1.89	36.60	0.18	0.05
25	6.88	6.79	7.07	25	20	44	39	0.95	0.90	2.06	1.98	35.10	0.19	0.05
26	6.93	6.89	7.17	18	17	45	40	0.68	0.57	2.06	2.03	27.00	0.16	0.05
27	6.88	6.85	7.19	17	15	37	34	0.77	0.68	1.90	1.81	27.20	0.18	0.05
28	6.80	6.80	7.20	16	14	42	37	0.79	0.72	1.92	1.84	22.40	0.22	0.04
29														
30														
31														
AVERAGE	6.9	6.9	7.1	29	27	66	62	0.75	0.67	1.98	1.90	46.69	0.21	0.07

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 02/2014

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	8.57		0.40	1.11						0.06	0.05	0.23	0.05		0.09
2	8.40		0.37	0.25						0.06	0.05	0.18	0.05		0.08
3	46.60		0.46	0.36						0.06	0.04	0.15	0.13		0.11
4	56.80		0.84	0.27						0.11	0.09	0.08	0.05		0.06
5	38.80		0.33	0.25						0.06	0.05	0.08	0.05		0.05
6	139.00		0.22	0.22						0.05	0.05	0.08	0.05		0.05
7	120.00		0.27	0.21						0.05	0.05	0.08	0.06		0.07
8	103.00		0.40	0.18						0.07	0.07	0.08	0.05		0.06
9	89.70		0.23	0.17						0.06	0.06	0.08	0.05		0.06
10	80.70		0.23	0.18						0.06	0.06	0.09	0.07		0.06
11	67.80		0.36	0.26						0.07	0.07	0.08	0.05		0.06
12	58.60		0.31	0.16						0.01	0.09	0.07	0.05		0.07
13	49.30		0.22	0.19						0.06	0.06	0.07	0.05		0.05
14	39.60		0.34	0.31						0.07	0.06	0.17	0.10		0.09
15	29.50		0.33	0.32						0.07	0.06	0.11	0.07		0.07
16	25.30		0.15	0.17						0.06	0.06	0.09	0.06		0.06
17	23.80		0.20	0.23						0.05	0.05	0.07	0.05		0.05
18	21.90		0.22	0.15						0.05	0.05	0.08	0.06		0.05
19	21.50		0.29	0.28						0.05	0.05	0.09	0.05		0.06
20	20.10		0.28	0.55						0.12	0.13	0.24	0.17		0.14
21	18.80		0.34	0.47						0.06	0.07	0.15	0.05		0.07
22	46.00		0.23	0.22						0.06	0.06	0.11	0.07		0.07
23	45.30		0.28	0.24						0.05	0.06	0.09	0.06		0.06
24	36.60		0.25	0.21						0.05	0.05	0.08	0.05		0.05
25	35.10		0.20	0.21						0.07	0.07	0.09	0.05		0.06
26	27.00		0.19	0.45						0.05	0.06	0.11	0.05		0.06
27	27.20		0.23	0.20						0.05	0.05	0.08	0.06		0.06
28	22.40		0.32	0.38						0.05	0.05	0.07	0.05		0.05
29															
30															
31															
AVERAGE	46.7	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.11	0.06	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 02/2014

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F°/C°
1	0.17	0.74	0.27	0.03	0.06	0.01			1.80	0.0	8.0
2	0.15	0.95	0.30	0.03	0.06	0.01			1.80	0.0	6.9
3	0.29	0.99	0.30	0.03	0.09	0.01			1.60	1.3	8.2
4	0.00	0.93	1.25	0.03	0.25	0.02			1.65	0.1	7.0
5	0.00	0.85	0.48	0.03	0.20	0.01			1.60	1.2	6.3
6	0.00	0.81	1.09	0.03	0.54	0.01			1.75	0.1	5.7
7	0.00	0.96	2.65	0.03	0.48	0.01			1.70	0.0	7.4
8	0.00	0.96	0.82	0.03	0.43	0.01			1.75	0.0	6.1
9	0.00	0.99	0.80	0.03	0.42	0.01			1.85	0.0	6.2
10	0.00	0.83	1.81	0.03	0.32	0.01			1.75	0.1	7.5
11	0.00	0.78	1.59	0.03	0.27	0.01			1.55	0.0	6.0
12	0.00	1.01	1.37	0.03	0.25	0.01			1.75	0.0	5.9
13	0.00	0.91	0.55	0.03	0.21	0.01			1.75	0.2	5.6
14	0.00	0.90	0.96	0.03	0.18	0.01			1.75	0.1	7.3
15	0.00	0.91	0.79	0.03	0.14	0.01			1.80	0.4	7.2
16	0.00	0.94	0.77	0.03	0.14	0.01			1.75	0.0	6.0
17	0.00	1.01	0.61	0.03	0.13	0.01			1.50	0.0	7.3
18	0.02	0.99	0.30	0.03	0.11	0.01			1.75	0.0	6.2
19	0.10	0.74	0.31	0.03	0.11	0.01			1.75	0.2	6.3
20	0.00	0.87	0.30	0.03	0.09	0.01			1.60	0.0	6.6
21	0.01	0.95	0.50	0.03	0.10	0.01			1.70	1.1	7.8
22	0.00	0.92	0.41	0.03	0.21	0.01			1.75	0.0	6.4
23	0.00	0.97	0.40	0.03	0.20	0.01			1.90	0.0	6.7
24	0.00	0.84	0.93	0.03	0.15	0.01			1.80	0.1	8.0
25	0.00	0.83	0.98	0.03	0.17	0.01			1.80	0.0	8.0
26	0.00	0.82	0.35	0.03	0.11	0.01			1.85	0.1	6.9
27	0.00	0.71	0.41	0.03	0.12	0.01			1.70	0.0	6.5
28	0.00	0.87	0.52	0.03	0.10	0.01			1.75	0.0	7.6
29											
30											
31											
AVERAGE	0.03	0.89	0.78	0.03	0.20	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	6.8
									1.50		
									Number of readings	28	4.96
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 02/2014

PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No: 7	
		AREA (square feet)	FILT RUN HR#								
1	0										
2	0										
3	45,000					16,000	102.90	29,000	116.50		
4	34,000	17,000	113.00	17,000	113.00						
5	0										
6	0										
7	27,000					15,000	95.10	12,000	79.40		
8	24,000	12,000	92.60	12,000	92.60						
9	0										
10	28,000					14,000	70.70	12,000	70.70		
11	0										
12	28,000	14,000	96.60	14,000	96.60						
13	0										
14	32,000					16,000	107.50	16,000	107.50		
15	0										
16	28,000	14,000	93.00	14,000	93.00						
17	0										
18	28,000					14,000	82.50	14,000	82.50		
19	0										
20	26,000	13,000	111.30	13,000	111.30						
21	0										
22	30,000					15,000	101.30	15,000	101.30		
23	0										
24	0										
25	28,000	14,000	93.10	14,000	93.10						
26	0										
27	32,000					16,000	101.30	16,000	101.30		
28	0										
29	0										
30	0										
31	0										
TOTAL	388,000	84,000	599.60	84,000	599.60	106,000	661.30	114,000	659.20	0	0.00
AVERAGE	12,516	14,000	99.933	14,000	99.933	15,143	94.471	16,286	94.171	#DIV/0!	#DIV/0!

COPY AS NEEDED



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 02/2014

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.09	0.09	0.08	0.09	0.08	0.08	0.090	
2	24.0	6	0.08	0.08	0.08	0.08	0.07	0.07	0.080	
3	23.5	6	0.07	0.11	0.06	0.05	0.05	0.05	0.105	
4	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.064	
5	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
6	24.0	6	0.05	0.05	0.08	0.08	0.05	0.05	0.080	
7	24.0	6	0.05	0.07	0.05	0.05	0.05	0.05	0.070	
8	24.0	6	0.05	0.06	0.06	0.06	0.06	0.06	0.060	
9	24.0	6	0.06	0.06	0.05	0.06	0.06	0.05	0.060	
10	24.0	6	0.05	0.06	0.06	0.05	0.05	0.05	0.059	
11	24.0	6	0.05	0.05	0.05	0.06	0.06	0.05	0.063	
12	24.0	6	0.05	0.07	0.06	0.05	0.05	0.05	0.066	
13	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
14	24.0	6	0.05	0.05	0.05	0.09	0.08	0.06	0.090	
15	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.070	
16	24.0	6	0.06	0.05	0.05	0.05	0.05	0.05	0.060	
17	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
18	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
19	24.0	6	0.05	0.05	0.05	0.06	0.05	0.05	0.055	
20	23.5	6	0.05	0.05	0.05	0.05	0.05	0.14	0.136	
21	14.0	4	0.06			0.06	0.07	0.06	0.070	
22	24.0	6	0.06	0.06	0.06	0.05	0.05	0.07	0.070	
23	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
24	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
25	23.5	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
26	23.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.064	
27	23.0	6	0.05	0.05	0.06	0.05	0.05	0.05	0.060	
28	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
29	0.0	0							0.000	
30	0.0	0							0.000	
31	0.0	0							0.000	
<b>Total</b>	<b>658.5</b>	<b>166</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>166</b>	<b>0.136</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 2 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU 5 5 NTU     

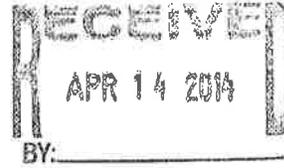
\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley 03-05-2014  
 Signature of Principal Executive Officer or Authorized Agent Date









KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

03/2014

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS:	3	DIST. CLASS: 2
AGENCY INTEREST (AI):	2987	DATE MAILED:	04-04-2014	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/eq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

04-03-2014  
DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 03/2014

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,963,000	24.0	257.4	15.7	4.2	0.3			311.6	19.0	159.8	9.8
2	2,043,000	24.0	257.4	15.1	4.2	0.2			283.8	16.7	159.8	9.4
3	1,950,000	23.0	246.8	15.2	4.2	0.3			266.1	16.4	153.2	9.4
4	2,042,000	24.0	257.4	15.1	4.2	0.2			287.9	16.9	159.8	9.4
5	1,979,000	24.0	224.2	13.6	4.2	0.3			286.7	17.4	159.8	9.7
6	2,020,000	24.0	224.2	13.3	4.2	0.2			274.5	16.3	159.8	9.5
7	2,008,000	24.0	224.2	13.4	4.2	0.3			274.5	16.4	159.8	9.5
8	2,042,000	24.0	224.2	13.2	4.2	0.2			274.5	16.1	159.8	9.4
9	1,918,000	24.0	224.2	14.0	4.2	0.3			282.0	17.6	159.8	10.0
10	2,039,000	24.0	224.2	13.2	4.2	0.2			274.5	16.1	159.8	9.4
11	2,005,000	24.0	224.2	13.4	4.2	0.3			271.6	16.2	159.8	9.6
12	2,057,000	24.0	224.2	13.1	4.2	0.2			264.5	15.4	159.8	9.3
13	1,996,000	24.0	224.2	13.5	4.2	0.3			272.1	16.3	159.8	9.6
14	2,024,000	24.0	193.3	11.5	4.2	0.2			267.5	15.8	159.8	9.5
15	1,991,000	24.0	193.3	11.6	4.2	0.3			270.6	16.3	159.8	9.6
16	2,025,000	24.0	193.3	11.4	4.2	0.2			254.9	15.1	159.8	9.5
17	2,011,000	24.0	193.3	11.5	4.2	0.3			255.0	15.2	159.8	9.5
18	2,014,000	24.0	193.3	11.5	4.2	0.3			258.8	15.4	159.8	9.5
19	1,612,000	24.0	193.3	14.4	4.2	0.3			231.9	17.2	143.2	10.7
20	2,030,000	24.0	193.3	11.4	4.2	0.2			266.7	15.8	159.8	9.4
21	1,982,000	24.0	224.2	13.6	4.2	0.3			268.7	16.3	159.8	9.7
22	1,885,000	22.0	205.5	13.1	3.9	0.2			244.0	15.5	146.5	9.3
23	1,870,000	22.0	205.5	13.2	3.9	0.3			242.9	15.6	146.5	9.4
24	1,906,000	22.0	205.5	12.9	3.9	0.2			249.3	15.7	149.9	9.4
25	1,839,000	22.0	205.5	13.4	3.9	0.3			233.7	15.2	146.5	9.6
26	1,943,000	23.0	214.8	13.3	3.9	0.2			254.6	15.7	153.2	9.5
27	1,976,000	24.0	224.2	13.6	4.2	0.3			273.0	16.6	159.8	9.7
28	1,943,000	23.0	214.8	13.3	3.9	0.2			273.2	16.9	153.2	9.5
29	1,923,000	23.0	214.8	13.4	3.9	0.2			299.9	18.7	157.5	9.8
30	1,923,000	23.0	214.8	13.4	3.9	0.2			319.1	19.9	166.2	10.4
31	1,996,000	23.5	252.0	15.1	3.9	0.2			357.2	21.5	164.7	9.9
TOTAL	60,955,000		8771.5		127.5		0.0		8445.3		4876.6	
AVERAGE	1,966,290		218.4	13.3	4.1	0.3	#DIV/0!	#DIV/0!	272.4	16.6	157.3	9.6
MAX	2,057,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 03/2014

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

CHEMICALS ADDED

DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
							LBS	PPM						
1	471.4	28.8	60.9	3.7			159.5	9.7						
2	443.8	28.0	60.9	3.6			159.5	9.4						
3	419.3	25.8	58.4	3.6			153.0	9.4						
4	447.7	26.3	60.9	3.6			159.8	9.4						
5	446.5	27.1	60.9	3.7			159.8	9.7						
6	434.3	25.8	60.9	3.6			159.5	9.5						
7	434.3	25.9	60.9	3.6			159.5	9.5						
8	434.3	25.5	60.9	3.6			159.5	9.4						
9	441.8	27.6	60.9	3.8			159.5	10.0						
10	434.3	25.5	60.9	3.6			159.5	9.4						
11	431.4	25.8	60.9	3.6			159.6	9.5						
12	424.3	24.7	60.9	3.5			159.5	9.3						
13	431.9	25.9	60.9	3.7			159.5	9.6						
14	427.3	25.3	60.9	3.6			159.5	9.4						
15	430.4	25.9	60.9	3.7			159.5	9.6						
16	414.7	24.6	60.9	3.6			159.5	9.4						
17	414.8	24.7	60.9	3.6			159.8	9.5						
18	418.6	24.9	60.9	3.6			159.8	9.5						
19	375.1	27.9	53.3	4.0			113.1	8.4						
20	426.5	25.2	60.9	3.6			66.5	3.9						
21	428.5	25.9	60.9	3.7			159.5	9.6						
22	390.5	24.8	55.8	3.6			148.3	9.3						
23	389.4	25.0	55.8	3.6			148.3	9.4						
24	399.2	25.1	55.8	3.5			148.3	9.2						
25	380.2	24.8	55.8	3.6			148.5	9.6						
26	407.8	25.2	58.4	3.6			153.0	9.4						
27	432.8	28.3	60.9	3.7			159.5	9.7					8.0	0.5
28	426.4	26.3	58.4	3.6			153.0	9.4					10.5	0.6
29	457.4	28.5	58.4	3.6			153.0	9.5					9.5	0.6
30	485.3	30.3	58.4	3.6			153.0	9.5					9.5	0.6
31	521.9	31.4	59.6	3.6			158.3	9.4					9.5	0.6
TOTAL	13,321.9		1,845.9		0.0		4,717.8		0.0		0.0		47.0	
AVERAGE	429.7	28.2	59.5	3.6	#DIV/0!	#DIV/0!	152.2	9.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	9.4	0.6

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2014

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	6.86	6.78	7.20	18	17	46	41	0.81	0.74	2.02	1.95	19.00	0.27	0.05
2	6.74	6.77	7.16	13	17	77	75	0.77	0.68	1.98	1.91	18.30	0.20	0.05
3	6.82	6.82	7.17	19	16	61	55	0.79	0.72	1.84	1.76	18.30	0.21	0.05
4	6.90	6.84	7.24	17	14	54	50	0.80	0.74	2.05	1.98	17.80	0.23	0.07
5	6.80	6.78	7.17	16	14	43	38	0.74	0.60	1.83	1.77	18.80	0.19	0.06
6	6.86	6.81	7.18	22	17	33	30	0.76	0.67	1.97	1.88	16.80	0.24	0.04
7	6.85	6.83	7.23	22	17	40	36	0.72	0.65	1.90	1.82	16.60	0.23	0.04
8	6.75	6.77	7.19	23	19	44	39	0.68	0.63	1.94	1.91	15.20	0.20	0.03
9	6.78	6.74	7.15	14	16	67	63	0.69	0.65	1.90	1.88	15.40	0.21	0.04
10	6.79	6.74	7.14	17	15	61	56	0.70	0.66	1.91	1.88	15.30	0.21	0.04
11	6.73	6.72	7.15	16	11	47	43	0.86	0.84	1.90	1.87	15.50	0.26	0.03
12	6.72	6.78	7.17	16	12	47	44	0.79	0.75	1.94	1.90	13.10	0.22	0.04
13	6.72	6.77	7.22	16	14	33	30	0.69	0.65	1.81	1.79	12.00	0.27	0.04
14	6.86	6.79	7.28	18	15	38	34	0.81	0.77	1.99	1.93	12.30	0.23	0.04
15	6.72	6.70	7.17	18	17	39	37	0.77	0.70	1.91	1.86	11.20	0.19	0.04
16	6.68	6.70	7.08	11	11	32	31	0.74	0.67	1.91	1.86	10.80	0.19	0.04
17	6.75	6.68	7.17	14	11	42	38	0.91	0.85	2.09	1.99	10.20	0.21	0.04
18	6.81	6.73	7.20	20	17	35	31	0.92	0.88	2.01	1.96	10.10	0.23	0.04
19	6.73	6.73	7.18	18	14	30	26	0.59	0.54	1.75	1.73	9.86	0.27	0.04
20	6.62	6.69	6.71	14	12	25	22	0.64	0.58	1.86	1.81	14.50	0.43	0.04
21	6.69	6.72	7.25	16	13	48	44	0.75	0.70	1.91	1.84	8.91	0.25	0.04
22	6.76	6.70	7.25	18	16	50	47	0.77	0.68	1.97	1.91	8.39	0.29	0.04
23	6.71	6.70	7.26	10	12	31	28	0.73	0.69	1.96	1.92	8.42	0.23	0.05
24	6.60	6.68	7.15	13	11	36	33	0.65	0.60	1.92	1.89	8.37	0.20	0.04
25	6.78	6.74	7.25	12	10	30	27	0.89	0.87	2.02	1.97	7.89	0.20	0.04
26	6.81	6.75	7.25	10	8	26	22	0.77	0.69	2.08	2.03	7.71	0.23	0.04
27	6.80	6.75	7.21	10	8	25	21	0.71	0.66	1.92	1.87	7.61	0.25	0.05
28	6.67	6.72	7.19	18	15	37	34	0.62	0.55	1.93	1.89	7.74	0.26	0.04
29	6.70	6.74	7.27	20	17	39	37	0.67	0.62	1.95	1.90	7.13	0.23	0.04
30	6.68	6.71	7.21	10	10	44	41	0.82	0.55	1.96	1.90	7.20	0.29	0.04
31	6.74	6.68	7.22	13	10	40	36	0.79	0.77	2.11	2.07	20.00	0.44	0.05
AVERAGE	6.8	6.7	7.2	16	14	42	38	0.75	0.69	1.94	1.89	12.58	0.24	0.04

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 03/2014

PAGE 4 OF 11

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	19.00		0.40	0.40						0.06	0.07	0.09	0.05		0.06
2	18.30		0.27	0.26						0.05	0.05	0.08	0.05		0.05
3	18.30		0.79	1.50						0.17	0.16	0.35	0.27		0.25
4	17.60		0.28	0.30						0.05	0.05	0.08	0.09		0.06
5	18.80		0.26	0.19						0.06	0.06	0.05	0.05		0.05
6	16.80		0.35	0.34						0.05	0.06	0.05	0.06		0.05
7	16.60		0.30	0.27						0.05	0.05	0.07	0.06		0.05
8	15.20		0.26	0.20						0.04	0.05	0.05	0.05		0.04
9	15.40		0.26	0.21						0.06	0.07	0.05	0.05		0.04
10	15.30		0.25	0.23						0.05	0.05	0.05	0.05		0.03
11	15.50		0.31	0.25						0.05	0.05	0.18	0.06		0.06
12	13.10		0.32	0.20						0.05	0.06	0.06	0.05		0.04
13	12.00		0.34	0.28						0.06	0.06	0.06	0.05		0.04
14	12.30		0.28	0.23						0.05	0.05	0.09	0.05		0.05
15	11.20		0.23	0.19						0.05	0.05	0.07	0.06		0.05
16	10.60		0.24	0.18						0.05	0.04	0.05	0.05		0.03
17	10.20		0.29	0.28						0.05	0.05	0.06	0.05		0.04
18	10.10		0.37	0.32						0.05	0.05	0.06	0.05		0.04
19	9.86		0.42	0.38						0.05	0.05	0.07	0.06		0.04
20	14.50		0.58	0.56						0.05	0.05	0.07	0.06		0.04
21	8.91		0.30	0.28						0.05	0.05	0.05	0.05		0.05
22	8.39		0.36	0.31						0.05	0.05	0.05	0.06		0.05
23	8.42		0.32	0.31						0.05	0.05	0.14	0.15		0.07
24	8.37		0.23	0.21						0.04	0.05	0.05	0.05		0.04
25	7.89		0.27	0.24						0.05	0.06	0.05	0.05		0.04
26	7.71		0.28	0.23						0.05	0.05	0.05	0.05		0.04
27	7.61		0.26	0.31						0.05	0.05	0.09	0.08		0.05
28	7.74		0.28	0.33						0.05	0.05	0.06	0.05		0.04
29	7.13		0.29	0.24						0.07	0.07	0.06	0.05		0.05
30	7.20		0.36	0.34						0.05	0.06	0.07	0.05		0.05
31	20.00		0.45	0.42						0.05	0.06	0.07	0.05		0.19
AVERAGE	12.6	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.08	0.06	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2014

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)										
1	0.00	0.94	0.49	0.03	0.09	0.01			1.75	0.0	6.8
2	0.00	0.94	0.26	0.03	0.09	0.01			1.79	0.0	6.3
3	0.00	0.80	0.50	0.03	0.09	0.01			1.55	1.7	7.4
4	0.11	0.83	0.57	0.03	0.09	0.01			1.80	0.1	7.7
5	0.00	0.62	0.26	0.03	0.10	0.01			1.70	0.0	6.6
6	0.06	0.73	0.28	0.03	0.09	0.01			1.75	0.0	6.6
7	0.19	1.03	0.46	0.03	0.09	0.01			1.75	0.0	7.5
8	0.16	1.00	0.44	0.03	0.08	0.01			1.85	0.0	6.1
9	0.07	0.89	0.21	0.03	0.08	0.01			1.75	0.0	6.5
10	0.04	0.88	0.44	0.03	0.09	0.01			1.80	0.0	7.3
11	0.00	0.85	0.44	0.03	0.07	0.01			1.70	0.0	7.8
12	0.35	1.18	0.18	0.03	0.08	0.01			1.85	0.0	7.7
13	0.02	0.88	0.20	0.03	0.06	0.01			1.75	0.2	6.9
14	0.14	0.86	0.34	0.03	0.08	0.01			1.80	0.0	7.6
15	0.15	0.94	0.31	0.03	0.08	0.01			1.75	0.0	6.7
16	0.10	0.97	0.19	0.03	0.06	0.01			1.85	0.0	7.1
17	0.13	0.85	0.31	0.03	0.07	0.01			1.75	0.5	8.0
18	0.17	0.97	0.29	0.03	0.06	0.01			1.75	0.0	8.1
19	0.13	0.92	0.24	0.03	0.06	0.01			1.70	0.0	7.5
20	0.07	0.79	0.74	0.03	0.39	0.01			1.75	0.0	8.0
21	0.16	0.99	0.27	0.03	0.06	0.01			1.75	0.0	9.1
22	0.14	1.01	0.28	0.03	0.06	0.01			1.77	0.0	8.0
23	0.12	0.82	0.29	0.03	0.05	0.01			1.80	0.0	9.0
24	0.08	0.90	0.24	0.03	0.06	0.01			1.70	0.0	9.0
25	0.12	0.82	0.25	0.03	0.06	0.01			1.65	0.0	9.1
26	0.06	0.82	0.16	0.03	0.05	0.01			1.80	0.0	8.3
27	0.16	0.83	0.26	0.03	0.05	0.01			1.75	0.0	9.4
28	0.12	0.81	0.24	0.03	0.08	0.01			1.80	0.1	8.3
29	0.15	0.91	0.24	0.03	0.08	0.01			1.75	0.1	8.8
30	0.16	0.97	0.09	0.03	0.05	0.01			1.80	1.7	8.8
31	0.00	0.73	0.41	0.03	0.08	0.01			1.80	0.0	8.7
AVERAGE	0.10	0.89	0.32	0.03	0.08	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	7.8
									1.55		
									Number of readings	31	4.30
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 03/2014

PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square foot)	180	AREA (square foot)	180						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	30,000	15,000	93.50	15,000	93.50						
2	0										
3	34,000					18,000	103.00	16,000	103.00		
4	0										
5	30,000	15,000	95	15000.00	95						
6	0										
7	28,000					14,000	86.00	14,000	86.00		
8	0										
9	27,000	14,000	94.50	13,000	94.40						
10	0										
11	28,000					14,000	93.80	14,000	93.80		
12	0										
13	28,000	14,000	93.80	14,000	93.80						
14	0										
15	27,000					14,000	95.30	13,000	95.30		
16	0										
17	24,000	12,000	95.10	12,000	95.10						
18	0										
19	24,000					12,000	94.70	12,000	94.70		
20	0										
21	26,000	13,000	95.30	13,000	95.30						
22	0										
23	34,000					17,000	87.70	17,000	87.70		
24	0										
25	26,000	13,000	90.10	13,000	80.10						
26	0										
27	32,000					16,000	89.20	16,000	89.20		
28	0										
29	30,000	15,000	91.10	15,000	91.20						
30	0										
31	32,000					16,000	90.80	16,000	90.80		
TOTAL	460,000	111,000	748.50	110,000	748.50	121,000	740.50	118,000	740.50	0	0.00
AVERAGE	14,839	13,875	93.563	13,750	93.563	15,125	92.563	14,750	92.563	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 03/2014

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1			1.40	1.34	1.31	1.25	1.50	1.45	1.63	1.58	
2			0.21	0.20	1.14	1.08	1.64	1.58	1.78	1.70	
3			1.55	1.46	1.63	1.58	1.23	1.14	1.72	1.64	
4			1.49	1.44	1.52	1.45	1.37	1.30	1.45	1.37	
5			0.98	0.90	1.57	1.46	1.51	1.41	1.35	1.28	
6			1.26	1.20	1.71	1.64	1.27	1.20	1.63	1.58	
7			1.39	1.31	1.67	1.57	1.68	1.60	1.73	1.64	
8			1.69	1.67	1.25	1.22	1.62	1.61	1.66	1.58	
9			1.20	1.18	1.20	1.17	1.49	1.47	1.57	1.57	
10			1.48	1.47	1.45	1.44	1.53	1.52	1.51	1.49	
11			1.57	1.53	1.74	1.70	1.69	1.68	1.31	1.29	
12			1.48	1.35	1.73	1.68	1.79	1.74	1.77	1.74	
13			1.44	1.39	1.50	1.40	1.39	1.34	1.03	0.93	
14			1.56	1.49	1.40	1.33	0.59	0.51	1.34	1.23	
15			1.15	1.10	0.25	0.24	1.50	1.42	1.71	1.67	
16			1.29	1.26	1.20	1.14	1.72	1.71	1.63	1.57	
17			1.74	1.67	1.51	1.46	1.66	1.58	1.29	1.17	
18			1.70	1.75	1.43	1.46	1.75	1.78	1.68	1.75	
19			1.53	1.47	1.15	1.11	1.42	1.36	1.42	1.39	
20			1.24	1.16	1.49	1.46	1.56	1.49	1.57	1.50	
21			1.51	1.46	0.92	0.89	1.67	1.64	1.58	1.55	
22			1.40	1.37	1.51	1.44	1.12	1.12	1.67	1.61	
23			1.59	1.54	1.82	1.57	1.53	1.49	1.54	1.51	
24			1.61	0.55	1.24	1.21	1.64	1.61	1.74	1.70	
25			1.44	1.36	1.50	1.49	1.47	1.47	1.55	1.55	
26			1.48	1.46	1.25	1.22	1.67	1.64	1.62	1.55	
27			1.49	1.44	1.12	1.01	1.02	0.95	0.88	0.85	
28			1.56	1.50	1.50	1.46	1.49	1.43	1.45	1.38	
29			1.62	1.57	1.69	1.64	1.75	1.73	1.75	1.72	
30			1.65	1.61	1.38	1.37	1.61	1.60	1.03	1.01	
31			1.37	1.35	1.73	1.68	1.53	1.45	1.79	1.77	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.42	1.34	1.40	1.35	1.50	1.45	1.53	1.48
TOTAL	0.0	0.0	Total Minimum	0.21		0.25		0.59		0.88	
			Free Minimum		0.20		0.24		0.51		0.85

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	1	0	1	0	0	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.20
Number of Total Residuals	124	Minimum Monthly Total Residual	0.21
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273  
 PLANT ID: A

**APPLICABLE TO ALL PLANTS WITH FILTRATION**

Report Period (MM/YYYY): 03/2014

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hourly Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.05	0.05	0.06	0.06	0.06	0.05	0.060	
2	24.0	6	0.04	0.05	0.04	0.06	0.05	0.05	0.059	
3	23.0	6	0.05	0.05	0.08	0.08	0.05	0.25	0.249	
4	24.0	6	0.06	0.05	0.05	0.04	0.04	0.04	0.055	
5	24.0	6	0.04	0.05	0.05	0.04	0.05	0.05	0.049	
6	24.0	6	0.05	0.04	0.05	0.05	0.05	0.05	0.050	
7	24.0	6	0.05	0.05	0.05	0.04	0.05	0.04	0.050	
8	24.0	6	0.04	0.04	0.04	0.03	0.03	0.04	0.040	
9	24.0	6	0.03	0.04	0.04	0.03	0.03	0.03	0.040	
10	24.0	6	0.03	0.03	0.03	0.03	0.03	0.03	0.033	
11	24.0	6	0.06	0.04	0.04	0.04	0.04	0.04	0.059	
12	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.038	
13	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.041	
14	24.0	6	0.04	0.04	0.05	0.04	0.04	0.04	0.050	
15	24.0	6	0.05	0.05	0.04	0.03	0.03	0.03	0.050	
16	24.0	6	0.03	0.03	0.03	0.03	0.03	0.03	0.030	
17	24.0	6	0.03	0.04	0.04	0.04	0.04	0.04	0.039	
18	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.038	
19	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.041	
20	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.040	
21	24.0	6	0.04	0.04	0.04	0.05	0.05	0.05	0.050	
22	22.0	6	0.05	0.04	0.04	0.04	0.04	0.04	0.045	
23	22.0	6	0.04	0.07	0.04	0.04	0.04	0.04	0.070	
24	22.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.038	
25	22.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.040	
26	23.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.040	
27	24.0	6	0.04	0.05	0.04	0.04	0.04	0.04	0.050	
28	23.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.040	
29	23.0	6	0.04	0.05	0.04	0.04	0.04	0.04	0.050	
30	23.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.050	
31	23.5	6	0.19	0.04	0.04	0.04	0.04	0.04	0.187	
Total	730.5	186	TOTAL # OF TURBIDITY SAMPLES TAKEN ..						186	0.249

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 2 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley 04-03-2014  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

03/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>60,955,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,966,290</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>2,057,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>730.5</u>	Number of days of plant operation	<u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>	Number of lowest chlorine samples recorded	<u>31</u>
Highest single turbidity reading	<u>0.25</u>	Lowest single chlorine reading	<u>1.55</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>2</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU	<u>0</u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>    </u>	Number of samples under 0.5 mg/L	<u>    </u>
Number of samples exceeded 5 NTU	<u>    </u>		

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>	Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

04-03-2014  
Date



RECEIVED  
MAY 09 2014

BY: \_\_\_\_\_  
Revised 01/04/07

KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH  
MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 04/2014

Indicate one with "X"  SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS:	<u>3</u>	DIST. CLASS: <u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>05-08-2014</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER.	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Jerry L Belcher</u>	<u>1V-A</u>	<u>21719</u>	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 0.8
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

05-06-2014  
DATE

12

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 04/2014

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	2,041,000	24.0	257.4	15.1	4.2	0.2			368.9	21.7	159.8	9.4
2	1,984,000	24.0	257.4	15.6	4.2	0.3			366.4	22.1	159.8	9.7
3	1,587,000	19.0	203.9	15.4	3.3	0.2			282.4	21.3	126.5	9.6
4	1,999,000	24.0	324.6	19.5	4.2	0.3			387.4	23.2	170.5	10.2
5	2,028,000	24.0	330.6	19.5	4.2	0.2			371.8	22.0	159.8	9.4
6	1,999,000	24.0	330.6	19.8	4.2	0.3			401.3	24.1	159.8	9.6
7	2,032,000	24.0	330.6	19.5	4.2	0.2			394.2	23.3	167.3	9.9
8	1,988,000	24.0	330.6	19.9	4.2	0.3			395.5	23.9	163.4	9.9
9	1,943,000	23.0	316.9	19.6	4.0	0.2			387.4	23.9	153.2	9.5
10	1,969,000	24.0	330.6	20.1	4.2	0.3			408.9	24.9	159.8	9.7
11	1,953,000	23.0	285.0	17.5	4.0	0.2			389.2	23.9	153.2	9.4
12	1,929,000	23.0	246.8	15.3	4.0	0.2			393.5	24.5	156.9	9.8
13	1,863,000	22.0	236.1	15.2	3.9	0.2			378.5	24.4	155.1	10.0
14	1,988,000	23.5	252.2	15.2	4.1	0.2			382.3	23.1	160.1	9.7
15	1,931,000	23.0	246.8	15.3	4.0	0.2			375.2	23.3	153.2	9.5
16	1,986,000	23.0	246.8	14.9	4.0	0.2			410.1	24.7	159.8	9.6
17	2,026,000	24.0	279.6	16.6	4.2	0.2			393.4	23.3	159.8	9.5
18	1,934,000	23.0	280.6	17.4	4.0	0.2			380.3	23.6	162.2	10.1
19	2,017,000	24.0	292.9	17.4	4.2	0.2			391.4	23.3	169.2	10.1
20	2,002,000	24.0	292.9	17.5	4.2	0.3			391.4	23.4	169.2	10.1
21	1,881,000	22.0	268.4	17.1	3.9	0.2			375.6	23.9	165.3	10.5
22	2,014,000	24.0	270.8	16.1	4.2	0.3			406.6	24.2	175.0	10.4
23	2,040,000	24.0	257.4	15.1	4.2	0.2			412.3	24.2	169.2	9.9
24	1,894,000	24.0	257.4	16.3	4.2	0.3			405.8	25.7	169.2	10.7
25	1,887,000	22.0	236.1	15.0	3.9	0.2			367.2	23.3	155.1	9.9
26	1,887,000	22.0	218.0	13.9	3.9	0.2			381.5	24.2	155.1	9.9
27	1,892,000	22.5	210.2	13.3	3.9	0.2			395.7	25.1	162.7	10.3
28	1,830,000	23.0	214.8	14.1	4.0	0.3			378.7	24.8	162.2	10.6
29	1,810,000	22.0	218.0	14.4	3.9	0.3			368.0	24.4	159.1	10.5
30	1,782,000	22.5	210.2	14.1	3.9	0.3			377.5	25.4	158.6	10.7
31												
TOTAL	58,118,000		8033.8		121.5		0.0		11518.4		4810.1	
AVERAGE	1,937,267		267.8	16.5	4.1	0.3	#DIV/0!	#DIV/0!	383.9	23.8	160.3	9.9
MAX	2,041,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 04/2014

APPLICABLE TO ALL PLANTS

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CHEMICALS ADDED

DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
							LBS	PPM						
1	528.7	31.1	60.9	3.6			159.5	9.4					11.0	0.6
2	526.2	31.8	60.9	3.7			159.5	9.6					10.5	0.8
3	408.9	30.9	48.2	3.6			126.3	9.5					8.5	0.6
4	557.9	33.5	60.9	3.7			159.5	9.6					8.5	0.5
5	531.6	31.4	60.9	3.6			159.5	9.4					10.0	0.6
6	561.1	33.7	60.9	3.7			159.5	9.6					11.0	0.7
7	561.5	33.1	60.9	3.6			159.5	9.4					10.0	0.6
8	558.9	33.7	60.9	3.7			159.5	9.6					10.0	0.6
9	540.6	33.4	58.4	3.6			153.0	9.4					10.0	0.6
10	568.7	34.6	60.9	3.7			159.5	9.7					10.0	0.6
11	542.4	33.3	58.4	3.6			152.9	9.4					10.0	0.6
12	550.4	34.2	58.4	3.6			152.9	9.5					10.0	0.6
13	533.6	34.3	55.8	3.6			148.2	9.4					10.0	0.6
14	542.4	32.7	59.6	3.6			156.3	9.4					10.0	0.6
15	528.4	32.8	58.4	3.6			163.0	9.5					8.0	0.5
16	569.9	34.4	58.4	3.5			153.0	9.2					11.0	0.7
17	553.2	32.7	60.9	3.6			159.8	9.5					12.0	0.7
18	542.5	33.6	58.4	3.6			153.0	9.5					11.5	0.7
19	560.6	33.3	60.9	3.6			159.8	9.5					12.5	0.7
20	560.6	33.6	60.9	3.6			159.8	9.6					12.0	0.7
21	540.9	34.5	55.8	3.6			146.3	9.3					11.5	0.7
22	581.8	34.6	60.9	3.6			159.8	9.5					12.5	0.7
23	581.5	34.2	60.9	3.6			159.8	9.4					13.0	0.8
24	575.0	36.4	60.9	3.9			159.6	10.1					13.5	0.9
25	522.3	33.2	55.8	3.5			146.3	9.3					16.0	1.0
26	536.6	34.1	55.8	3.5			146.3	9.3					16.0	1.0
27	558.4	35.4	57.1	3.6			149.6	9.5					13.5	0.9
28	540.9	35.4	58.4	3.8			159.5	10.5					12.5	0.8
29	519.1	34.4	55.8	3.7			146.3	9.7					12.5	0.8
30	536.1	36.1	57.1	3.8			149.6	10.1					12.5	0.8
31														
TOTAL	16,320.5		1,762.3		0.0		4,624.9		0.0		0.0		340.0	
AVERAGE	544.0	33.7	58.7	3.6	#DIV/0!	#DIV/0!	154.2	9.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	11.3	0.7

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 04/2014

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	6.74	6.66	7.14	16	18	38	34	0.72	0.67	1.89	1.85	24.50	0.23	0.04
2	6.74	6.72	7.20	15	12	32	28	0.69	0.64	1.87	1.85	18.70	0.24	0.04
3	6.72	6.72	7.20	16	12	42	36	0.73	0.67	1.87	1.85	19.00	0.17	0.04
4	6.83	6.74	7.19	14	13	37	34	0.74	0.70	1.89	1.86	21.20	0.22	0.06
5	6.80	6.73	7.21	14	17	37	33	0.64	0.59	1.87	1.82	31.10	0.19	0.04
6	6.74	6.75	7.23	18	16	26	22	0.64	0.60	1.88	1.87	27.40	0.17	0.05
7	6.74	6.67	7.16	12	15	36	30	0.68	0.63	1.83	1.81	30.50	0.16	0.04
8	6.71	6.73	7.23	21	17	37	33	0.67	0.62	1.82	1.77	28.00	0.21	0.05
9	6.69	6.74	7.22	20	17	28	23	0.76	0.71	1.86	1.83	23.60	0.18	0.05
10	6.78	6.69	7.20	11	10	28	25	0.75	0.70	1.91	1.88	22.00	0.25	0.06
11	6.63	6.70	7.19	18	16	28	24	0.77	0.71	1.88	1.86	17.90	0.22	0.04
12	6.61	6.61	7.14	18	15	31	27	0.68	0.64	1.90	1.85	19.40	0.17	0.04
13	6.65	6.69	7.15	9	11	28	25	0.78	0.74	1.96	1.92	19.90	0.19	0.04
14	6.58	6.71	7.10	10	12	35	30	0.80	0.74	1.92	1.87	18.90	0.19	0.04
15	6.71	6.69	7.12	11	14	28	24	0.79	0.75	1.91	1.88	18.20	0.21	0.05
16	6.74	6.67	7.10	22	20	43	39	0.75	0.70	1.92	1.89	20.80	0.21	0.05
17	6.76	6.69	7.15	12	10	37	32	0.74	0.70	1.94	1.90	20.30	0.22	0.04
18	6.64	6.68	7.26	15	14	36	32	0.69	0.65	1.88	1.85	20.00	0.24	0.05
19	6.68	6.64	7.19	9	12	30	29	0.72	0.66	1.96	1.93	19.50	0.24	0.05
20	6.69	6.67	7.22	10	12	31	29	0.66	0.60	1.90	1.88	18.90	0.25	0.06
21	6.69	6.66	7.10	7	12	27	25	0.72	0.66	1.99	1.95	18.80	0.23	0.05
22	6.61	6.63	7.15	10	12	30	27	0.69	0.63	1.91	1.88	18.30	0.25	0.05
23	6.74	6.68	7.24	10	14	30	26	0.75	0.70	1.98	1.94	17.70	0.21	0.05
24	6.70	6.68	7.21	12	14	25	18	0.71	0.66	1.91	1.85	17.30	0.19	0.05
25	6.68	6.64	7.17	12	15	30	27	0.72	0.66	1.99	1.94	17.10	0.23	0.05
26	6.60	6.65	7.14	13	15	33	29	0.71	0.66	1.88	1.84	16.20	0.23	0.06
27	6.61	6.61	7.07	15	12	28	23	0.75	0.69	1.91	1.88	16.30	0.27	0.05
28	6.57	6.65	7.12	13	15	34	30	0.69	0.64	1.84	1.80	15.60	0.24	0.06
29	6.67	6.69	7.12	13	16	33	29	0.59	0.54	1.83	1.80	15.40	0.25	0.05
30	6.55	6.69	7.11	15	18	28	25	0.64	0.59	1.90	1.87	15.30	0.25	0.06
31														
AVERAGE	6.7	6.7	7.2	14	14	32	28	0.71	0.66	1.90	1.87	20.26	0.22	0.05

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 04/2014

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM						CFE DAILY MAXIMUM	
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6		#7
1	24.50		0.31	0.25						0.05	0.05	0.05	0.05		0.04
2	18.70		0.29	0.30						0.07	0.08	0.05	0.05		0.05
3	19.00		0.30	0.24						0.05	0.06	0.05	0.05		0.04
4	21.20		0.36	0.27						0.08	0.09	0.15	0.11		0.10
5	31.10		0.20	0.23						0.05	0.05	0.05	0.05		0.04
6	27.40		0.22	0.20						0.06	0.07	0.05	0.07		0.05
7	30.50		0.17	0.15						0.05	0.05	0.07	0.05		0.05
8	28.00		0.26	0.38						0.05	0.05	0.08	0.06		0.05
9	23.60		0.24	0.18						0.05	0.05	0.06	0.06		0.05
10	22.00		0.45	0.29						0.07	0.07	0.06	0.06		0.05
11	17.90		0.44	0.28						0.05	0.05	0.05	0.05		0.05
12	19.40		0.23	0.20						0.05	0.05	0.09	0.08		0.09
13	19.90		0.25	0.24						0.05	0.05	0.05	0.06		0.05
14	18.90		0.21	0.23						0.06	0.06	0.05	0.05		0.04
15	18.20		0.26	0.28						0.06	0.05	0.06	0.06		0.04
16	20.80		0.31	0.23						0.05	0.05	0.08	0.08		0.05
17	20.30		0.29	0.19						0.05	0.05	0.05	0.06		0.05
18	20.00		0.36	0.36						0.07	0.06	0.05	0.06		0.05
19	19.50		0.31	0.31						0.06	0.06	0.05	0.06		0.05
20	18.90		0.29	0.27						0.06	0.06	0.09	0.08		0.07
21	18.80		0.28	0.24						0.06	0.05	0.06	0.07		0.06
22	18.30		0.32	0.24						0.07	0.08	0.05	0.07		0.07
23	17.70		0.30	0.24						0.05	0.05	0.05	0.06		0.05
24	17.30		0.24	0.20						0.05	0.05	0.15	0.15		0.09
25	17.10		0.28	0.34						0.08	0.08	0.05	0.06		0.06
26	16.20		0.30	0.26						0.06	0.06	0.05	0.05		0.05
27	16.30		0.44	0.48						0.09	0.12	0.13	0.13		0.13
28	15.60		0.32	0.27						0.05	0.05	0.13	0.14		0.08
29	15.40		0.40	0.27						0.06	0.06	0.06	0.06		0.06
30	15.30		0.40	0.35						0.11	0.10	0.05	0.06		0.07
31															
AVERAGE	20.3	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.07	0.07	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 04/2014

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\*Please answer Y/N question below this chart.

DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.00	0.84	0.84	0.03	0.13	0.01			1.80	0.0	9.6
2	0.04	0.90	0.34	0.03	0.10	0.01			1.80	0.0	9.5
3	0.00	0.93	0.33	0.03	0.09	0.01			1.70	0.0	9.3
4	0.00	0.96	0.56	0.03	0.17	0.01			1.70	1.6	10.2
5	0.00	0.80	0.74	0.03	0.16	0.01			1.75	0.3	10.9
6	0.00	0.80	0.70	0.03	0.15	0.01			1.70	0.0	10.6
7	0.00	0.87	0.66	0.03	0.13	0.01			1.75	0.0	11.5
8	0.00	0.81	0.56	0.03	0.11	0.01			1.60	0.1	11.0
9	0.01	0.94	0.57	0.03	0.10	0.01			1.80	0.0	10.6
10	0.00	0.61	0.29	0.03	0.09	0.01			1.80	0.0	11.4
11	0.00	0.89	0.55	0.03	0.11	0.01			1.75	0.0	11.6
12	0.00	0.93	0.52	0.03	0.10	0.01			1.65	0.0	11.3
13	0.09	1.01	0.53	0.03	0.10	0.01			1.85	0.0	11.5
14	0.00	0.87	0.05	0.03	0.08	0.01			1.75	0.0	11.4
15	0.02	0.97	0.49	0.04	0.11	0.01			1.80	0.1	11.5
16	0.02	0.85	0.28	0.03	0.08	0.01			1.70	0.3	10.4
17	0.00	0.85	0.28	0.03	0.10	0.01			1.50	0.0	11.2
18	0.03	0.97	0.50	0.03	0.09	0.01			1.60	0.0	11.3
19	0.04	1.02	0.28	0.03	0.09	0.01			1.75	0.0	10.3
20	0.03	1.00	0.26	0.03	0.08	0.01			1.75	0.0	11.0
21	0.05	0.98	0.24	0.03	0.07	0.01			1.80	0.0	10.7
22	0.04	1.02	0.22	0.03	0.07	0.01			1.65	0.0	11.2
23	0.00	0.93	0.26	0.03	0.07	0.01			1.75	0.0	11.3
24	0.00	0.82	0.33	0.03	0.09	0.01			1.65	0.0	11.7
25	0.01	0.88	0.24	0.03	0.09	0.01			1.75	0.0	11.4
26	0.04	0.98	0.39	0.03	0.06	0.01			1.70	0.7	12.3
27	0.09	1.00	0.25	0.03	0.08	0.01			1.45	0.0	12.8
28	0.09	0.93	0.42	0.03	0.06	0.01			1.75	0.0	12.6
29	0.05	0.91	0.48	0.03	0.13	0.01			1.60	0.5	12.8
30	0.08	0.90	0.29	0.03	0.09	0.01			1.75	0.9	12.9
31											
AVERAGE	0.02	0.91	0.41	0.03	0.10	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	11.2

	1.45
Number of readings	30
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N) **N**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID: KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 04/2014  
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DAY	MULTI-OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No: 7	
		AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS
1	0										
2	30,000	15,000	93.70	15,000	93.70						
3	0										
4	31,000					16,000	94.30	15,000	94.60		
5	0										
6	33,000	16,000	88.90	17,000	88.90						
7	0										
8	32,000					16,000	90.80	16,000	90.80		
9	0										
10	36,000	18,000	94.10	18,000	94.10						
11	0										
12	30,000					15,000	93.00	15,000	93.00		
13	0										
14	26,000	13,000	90.70	13,000	90.70						
15	0										
16	30,000					15,000	91.20	15,000	91.20		
17	0										
18	30,000	15,000	94.00	15,000	94.00						
19	0										
20	30,000					15,000	93.90	15,000	93.90		
21	0										
22	27,000	13,000	92.40	14,000	92.40						
23	0										
24	28,000					14,000	94.30	14,000	94.30		
25	26,000	13,000	86.50	13,000	86.50						
26	0										
27	0										
28	30,000					15,000	88.50	15,000	88.50		
29	0										
30	28,000	14,000	96.50	14,000	96.50						
31	0										
TOTAL	447,000	117,000	736.80	119,000	736.80	106,000	646.00	105,000	646.30	0	0.00
AVERAGE	14,419	14,625	92.100	14,875	92.100	15,143	92.286	15,000	92.329	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 04/2014

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
	T	F	T	F	T	F	T	F			
1			1.55	1.50	1.18	1.14	1.74	1.69	1.65	1.64	
2			1.13	1.06	1.21	1.21	1.38	1.34	1.22	1.19	
3			1.58	1.56	1.61	1.56	1.59	1.54	1.53	1.51	
4			1.55	1.48	1.40	1.33	1.61	1.56	1.64	1.59	
5			1.46	1.42	0.23	0.23	0.43	0.40	1.55	1.47	
6			1.42	1.38	1.62	1.55	0.70	0.65	1.65	1.60	
7			1.42	1.38	1.10	1.07	1.62	1.60	1.62	1.57	
8			1.29	1.22	1.55	1.49	1.66	1.56	1.60	1.54	
9			1.49	1.48	1.79	1.72	1.76	1.70	1.72	1.70	
10			1.61	1.55	1.22	1.15	1.00	0.90	1.47	1.42	
11			1.60	1.56	1.56	1.54	1.51	1.48	1.58	1.55	
12			1.38	1.33	1.37	1.33	1.33	1.30	1.40	1.35	
13			1.65	1.61	0.93	0.93	1.28	1.26	0.35	0.30	
14			1.53	1.48	1.58	1.49	1.40	1.37	1.40	1.33	
15			1.44	1.40	1.41	1.39	1.60	1.54	1.42	1.37	
16			1.60	1.58	1.18	1.15	1.68	1.62	1.72	1.68	
17			1.29	1.27	1.41	1.36	1.39	1.36	1.45	1.42	
18			1.50	1.43	1.35	1.29	1.59	1.63	1.54	1.48	
19			1.22	1.20	1.39	1.38	1.30	1.25	1.28	1.24	
20			1.45	1.44	0.91	0.87	1.53	1.52	0.43	0.38	
21			1.58	1.53	1.26	1.28	1.58	1.56	1.64	1.63	
22			1.41	1.34	1.57	1.55	1.29	1.24	1.60	1.56	
23			1.42	1.39	1.44	1.39	1.56	1.54	1.61	1.55	
24			1.26	1.19	0.47	0.40	1.63	1.49	1.36	1.25	
25			1.16	1.10	0.85	0.77	1.63	1.59	1.50	1.43	
26			1.38	1.34	1.36	1.35	1.63	1.60	1.62	1.61	
27			1.59	1.54	1.51	1.44	1.63	1.58	1.74	1.63	
28			1.45	1.45	1.33	1.29	1.63	1.62	1.01	0.84	
29			0.92	0.86	1.34	1.28	1.28	1.18	1.34	1.26	
30			1.42	1.38	1.25	1.21	1.25	1.22	1.49	1.46	
31											
AVERAGE	#DIV/0!	#DIV/0!	Average	1.42	1.38	1.28	1.24	1.44	1.39	1.44	1.39
TOTAL	0.0	0.0	Total Minimum	0.92		0.23		0.43		0.35	
			Free Minimum		0.86		0.23		0.40		0.30

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	0	0	2	0	1	0	2	0	0

Number of Free Residuals	120	Minimum Monthly Free Residual	0.23
Number of Total Residuals	120	Minimum Monthly Total Residual	0.23
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) N  
 Number of days of operation? 30

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 04/2014

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - MID	Daily Maximum	
1	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.038	
2	24.0	6	0.04	0.05	0.04	0.04	0.04	0.04	0.049	
3	19.0	5	0.04	0.04	0.04	0.04	0.04		0.040	
4	24.0	6	0.08	0.10	0.04	0.04	0.04	0.04	0.104	
5	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.040	
6	24.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.050	
7	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
8	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
9	23.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.050	
10	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
11	23.0	6	0.05	0.05	0.05	0.04	0.05	0.04	0.050	
12	23.0	6	0.09	0.05	0.04	0.04	0.04	0.04	0.090	
13	22.0	6	0.04	0.05	0.04	0.04	0.04	0.04	0.050	
14	23.5	6	0.04	0.04	0.04	0.04	0.04	0.04	0.042	
15	23.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.043	
16	23.0	6	0.04	0.05	0.04	0.05	0.05	0.05	0.052	
17	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.049	
18	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
19	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
20	24.0	6	0.05	0.07	0.06	0.05	0.05	0.06	0.070	
21	22.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.057	
22	24.0	6	0.05	0.07	0.06	0.08	0.05	0.05	0.068	
23	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
24	24.0	6	0.05	0.09	0.06	0.05	0.05	0.05	0.085	
25	22.0	6	0.05	0.05	0.06	0.05	0.05	0.06	0.060	
26	22.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
27	22.5	6	0.05	0.05	0.13	0.05	0.05	0.05	0.130	
28	23.0	6	0.05	0.08	0.06	0.05	0.05	0.05	0.081	
29	22.0	6	0.05	0.05	0.05	0.05	0.06	0.05	0.056	
30	22.5	6	0.05	0.07	0.06	0.05	0.05	0.05	0.071	
31	0.0	0							0.000	
<b>Total</b>	<b>694.5</b>	<b>179</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>179</b>	<b>0.130</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding --> 0.1 NTU 2 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding --> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley 05-06-2014  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

04/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>58,118,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,937,267</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>2,041,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>694.5</u>		Number of days of plant operation <u>30</u>	
Were samples taken every 4 hours of plant operation? (Y/N) <input checked="" type="checkbox"/> Y		Were samples taken each day of operation? (Y/N) <input checked="" type="checkbox"/> Y	
Number of samples taken <u>179</u>		Number of lowest chlorine samples recorded <u>30</u>	
Highest single turbidity reading <u>0.13</u>		Lowest single chlorine reading <u>1.45</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>2</u>		Was residual restored within 4 hours of plant operation? (Y/N) <input type="checkbox"/>	
Number of samples exceeded 0.3 NTU <u>0</u>		Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU _____		Number of samples under 0.5 mg/L _____	
Number of samples exceeded 5 NTU _____			

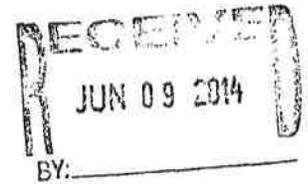
CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>30</u>		Number of days of plant operation <u>30</u>	
Were samples taken each day of operation? (Y/N) <input type="checkbox"/>		Were samples taken each day of operation? (Y/N) <input type="checkbox"/>	
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

05-06-2014  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

05/2014

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS:	3	DIST. CLASS: 2
AGENCY INTEREST (AI):	2987	DATE MAILED:	06-05-2014	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- 1. DESIGN CAPACITY (gpm): 1,667
- 2. TYPE OF FILTRATION USED: Dual Media
- 3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- 4. PERCENT BACKWASH WATER USED: 0.8
- 6. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/ 09
- 8. DATE SETTLING BASIN(S) LAST CLEANED:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

*Earl T. Alley*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

06-03-2014

DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 05/2014

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,903,000	23.0	214.8	13.5	0.0				419.9	26.5	169.2	10.7
2	1,887,000	23.0	214.8	13.7	0.0				478.1	30.4	162.2	10.3
3	1,821,000	22.0	205.5	13.5	0.0				452.2	29.8	155.1	10.2
4	1,927,000	24.0	224.2	14.0	0.0				490.6	30.5	169.2	10.5
5	1,866,000	23.0	214.8	13.7	4.0	0.3			470.8	29.9	162.2	10.3
6	1,891,000	23.0	214.8	13.6	4.0	0.3			470.8	29.9	162.2	10.3
7	1,981,000	24.0	224.2	13.6	4.2	0.3			490.4	29.7	169.2	10.2
8	1,920,000	24.0	224.2	14.0	4.2	0.3			491.4	30.7	169.2	10.6
9	1,957,000	24.0	224.2	13.7	4.2	0.3			490.6	30.1	167.0	10.2
10	1,873,000	23.0	214.8	13.8	4.0	0.3			466.2	29.8	162.2	10.4
11	1,860,000	23.0	214.8	13.8	4.0	0.3			461.0	29.7	167.4	10.8
12	1,865,000	23.0	214.8	13.8	4.0	0.3			470.8	30.3	179.8	11.6
13	1,842,000	22.0	214.8	14.0	3.9	0.3			472.8	30.8	186.5	12.1
14	1,936,000	23.5	219.5	13.6	4.1	0.3			478.0	29.6	197.2	12.2
15	1,872,000	23.0	257.7	16.5	4.0	0.3			501.4	32.1	200.8	12.9
16	1,871,000	23.0	316.9	20.3	4.0	0.3			524.2	33.6	204.2	13.1
17	1,869,000	23.0	316.9	20.3	4.0	0.3			524.2	33.6	204.2	13.1
18	1,858,000	23.0	316.9	20.5	4.0	0.3			540.1	34.9	204.2	13.2
19	1,783,000	22.0	303.1	20.4	3.9	0.3			541.2	36.4	195.4	13.1
20	1,916,000	24.0	330.6	20.7	4.2	0.3			596.0	37.3	193.8	12.1
21	1,794,000	22.0	303.2	20.3	3.9	0.3			561.2	37.5	175.5	11.7
22	1,903,000	23.0	316.9	20.0	4.0	0.3			592.3	37.3	175.5	11.1
23	1,906,000	24.0	330.6	20.8	4.2	0.3			619.0	38.9	183.2	11.5
24	1,939,000	24.0	330.6	20.4	4.2	0.3			622.7	38.5	183.2	11.3
25	1,796,000	22.5	309.9	20.7	3.9	0.3			587.6	39.2	171.7	11.5
26	1,801,000	21.0	289.3	19.3	3.7	0.2			563.0	37.5	160.2	10.7
27	1,842,000	23.0	316.9	20.6	4.0	0.3			617.6	40.2	175.5	11.4
28	1,836,000	23.5	323.8	21.1	4.1	0.3			649.0	42.4	182.7	11.9
29	1,934,000	24.0	330.6	20.5	4.2	0.3			684.4	42.4	183.2	11.4
30	1,874,000	23.0	316.9	20.3	4.0	0.3			683.3	42.4	175.5	11.2
31	1,765,000	22.0	303.1	20.6	3.9	0.3			636.0	43.2	167.9	11.4
TOTAL	58,108,000		8354.1		108.8		0.0		16626.8		5515.1	
AVERAGE	1,874,452		269.5	17.3	3.5	0.3	#DIV/0!	#DIV/0!	536.3	34.4	177.9	11.4
MAX	1,981,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT



PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 05/2014

PAGE 2 OF 11

DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Caustic		LBS	PPM	LBS	PPM	LBS	PPM
							LBS	PPM						
1	588.1	37.1	58.4	3.7			152.9	9.6					13.0	0.8
2	640.3	40.7	58.4	3.7			188.6	12.0					13.0	0.8
3	607.3	40.0	55.8	3.7			180.4	11.9					12.5	0.8
4	659.8	41.1	60.9	3.8			196.7	12.2					13.5	0.8
5	633.0	40.2	58.4	3.7			188.6	12.0					12.5	0.8
6	633.0	40.1	58.4	3.7			188.6	12.0					16.0	1.0
7	659.6	39.9	60.9	3.7			196.7	11.9					17.0	1.0
8	660.6	41.3	60.9	3.8			196.7	12.3					16.0	1.0
9	657.6	40.3	60.9	3.7			196.7	12.1					13.5	0.8
10	628.4	40.2	58.4	3.7			188.6	12.1					12.5	0.8
11	628.4	40.5	58.4	3.8			188.6	12.2					13.5	0.9
12	650.6	41.8	58.4	3.8			188.6	12.1					13.5	0.9
13	659.3	42.9	55.8	3.6			180.4	11.7					12.0	0.8
14	675.2	41.8	59.6	3.7			192.7	11.9					13.5	0.8
15	702.2	45.0	58.4	3.7			188.6	12.1					12.5	0.8
16	728.4	46.7	58.4	3.7			188.6	12.1					12.5	0.8
17	728.4	46.7	58.4	3.7			188.6	12.1					13.5	0.9
18	744.3	48.0	58.4	3.8			188.6	12.2					14.0	0.9
19	736.6	49.5	55.8	3.8			232.1	15.6					13.0	0.9
20	789.6	49.4	60.9	3.8			253.2	15.6					15.5	1.0
21	736.7	49.2	55.8	3.7			232.1	15.5					14.0	0.9
22	767.8	48.4	58.4	3.7			242.7	15.3					17.5	1.1
23	802.2	50.5	60.9	3.8			253.2	15.9					15.5	1.0
24	805.9	49.8	60.9	3.8			253.2	15.7					17.0	1.1
25	759.3	50.7	57.1	3.8			237.4	15.8					15.5	1.0
26	723.2	46.1	53.3	3.5			221.6	14.7					15.5	1.0
27	793.1	51.6	58.4	3.8			242.7	15.8					17.0	1.1
28	831.7	54.3	59.6	3.9			247.9	16.2					15.5	1.0
29	867.6	53.8	60.9	3.8			253.2	15.7					17.5	1.1
30	838.8	53.7	58.4	3.7			242.7	15.5					16.5	1.1
31	803.9	54.6	55.8	3.8			232.1	15.8					16.0	1.1
TOTAL	22,141.9		1,813.4		0.0		6,523.1		0.0		0.0		450.5	
AVERAGE	714.3	45.7	58.5	3.7	#DIV/0!	#DIV/0!	210.4	13.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	14.5	0.9

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 06/2014

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (TAP OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	6.62	6.66	7.08	15	19	33	28	0.75	0.69	1.92	1.89	14.90	0.23	0.05	
2	6.59	6.63	7.08	13	16	34	30	0.77	0.72	1.89	1.86	14.70	0.24	0.06	
3	6.53	6.60	7.08	12	15	35	31	0.79	0.75	1.93	1.90	15.00	0.22	0.05	
4	6.49	6.60	7.07	12	15	33	29	0.84	0.78	1.96	1.92	15.00	0.23	0.06	
5	6.47	6.56	7.00	12	16	33	28	0.87	0.82	2.00	1.97	14.40	0.26	0.05	
6	6.50	6.67	7.06	12	14	35	30	0.77	0.72	1.91	1.86	13.80	0.27	0.06	
7	6.53	6.63	7.04	17	14	40	35	0.74	0.68	1.95	1.91	13.20	0.25	0.06	
8	6.54	6.57	6.97	18	15	40	35	0.73	0.64	1.90	1.86	12.80	0.24	0.06	
9	6.47	6.56	7.03	16	14	36	32	0.89	0.84	1.95	1.91	12.60	0.25	0.05	
10	6.54	6.56	7.08	13	16	34	29	0.80	0.71	1.95	1.90	12.20	0.22	0.06	
11	6.47	6.53	6.90	10	13	40	37	0.70	0.60	1.94	1.88	11.50	0.18	0.05	
12	6.47	6.55	7.06	12	15	39	36	0.75	0.68	1.93	1.87	11.30	0.22	0.06	
13	6.50	6.56	6.99	13	16	35	30	0.69	0.63	1.93	1.89	10.80	0.21	0.06	
14	6.54	6.58	7.05	10	14	30	28	0.59	0.53	1.88	1.86	10.70	0.21	0.07	
15	6.53	6.56	7.07	11	15	36	33	0.67	0.60	1.97	1.93	19.50	0.17	0.05	
16	6.47	6.58	7.03	10	15	37	32	0.70	0.64	1.95	1.92	31.70	0.14	0.04	
17	6.46	6.53	6.95	12	17	35	31	0.88	0.62	2.00	1.97	33.80	0.16	0.05	
18	6.45	6.49	6.69	15	20	34	29	0.66	0.59	1.98	1.94	40.70	0.14	0.05	
19	6.40	6.46	6.61	12	16	36	31	0.66	0.61	2.02	1.99	40.30	0.17	0.04	
20	6.43	6.50	6.95	12	16	33	29	0.82	0.76	2.05	2.02	41.60	0.14	0.05	
21	6.49	6.57	6.93	12	16	37	34	0.73	0.66	1.90	1.86	37.40	0.15	0.05	
22	6.82	6.56	6.95	22	17	35	27	0.72	0.65	1.94	1.92	36.20	0.15	0.05	
23	6.46	6.56	7.01	20	17	33	27	0.74	0.69	1.92	1.87	35.80	0.15	0.05	
24	6.51	6.52	7.00	19	16	30	29	0.73	0.65	1.91	1.88	34.70	0.13	0.04	
25	6.47	6.45	6.97	18	17	33	31	0.74	0.67	1.97	1.94	33.70	0.12	0.04	
26	6.43	6.58	6.93	18	16	34	30	0.89	0.84	1.87	1.84	34.90	0.18	0.05	
27	6.51	6.49	6.97	11	16	36	31	0.69	0.64	1.85	1.80	33.30	0.17	0.05	
28	6.45	6.51	6.93	11	20	44	38	0.63	0.70	1.88	1.84	33.90	0.19	0.06	
29	6.43	6.52	6.87	11	16	33	30	0.81	0.75	1.96	1.92	32.80	0.16	0.05	
30	6.42	6.56	6.97	16	18	33	28	0.89	0.82	1.95	1.91	33.00	0.21	0.05	
31	6.43	6.44	6.90	16	20	34	30	0.89	0.82	1.92	1.88	30.90	0.17	0.04	
AVERAGE	6.5	6.6	7.0	14	16	35	31	0.75	0.69	1.94	1.90	24.75	0.19	0.05	

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID : A  
 AGENCY INTEREST : 2987  
 REPORT MONTH/YEAR : 05/2014

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
	14.90		0.26	0.25						0.06	0.05	0.05	0.06		0.06
	14.70		0.29	0.23						0.06	0.05	0.10	0.11		0.08
	15.00		0.31	0.24						0.05	0.05	0.06	0.06		0.05
	15.00		0.29	0.28						0.07	0.07	0.05	0.06		0.07
	14.40		0.30	0.34						0.06	0.06	0.05	0.06		0.06
	13.30		0.28	0.38						0.06	0.05	0.10	0.10		0.08
	13.20		0.26	0.27						0.05	0.05	0.06	0.06		0.06
	12.80		0.33	0.29						0.08	0.08	0.06	0.06		0.07
	12.60		0.35	0.29						0.06	0.07	0.06	0.06		0.07
	12.20		0.24	0.29						0.06	0.06	0.10	0.11		0.08
	11.50		0.20	0.19						0.05	0.05	0.06	0.06		0.06
	11.30		0.27	0.28						0.08	0.08	0.05	0.06		0.07
	10.80		0.26	0.23						0.06	0.06	0.07	0.06		0.07
	10.70		0.28	0.25						0.06	0.06	0.10	0.09		0.08
	19.50		0.22	0.28						0.06	0.06	0.08	0.07		0.08
	31.70		0.21	0.17						0.05	0.05	0.05	0.05		0.06
	33.80		0.17	0.21						0.05	0.05	0.07	0.05		0.06
	40.70		0.15	0.27						0.05	0.05	0.07	0.07		0.06
	40.30		0.25	0.31						0.05	0.05	0.05	0.05		0.05
	41.60		0.17	0.19						0.05	0.05	0.05	0.05		0.06
	37.40		0.18	0.24						0.05	0.05	0.06	0.05		0.05
	36.20		0.29	0.17						0.07	0.07	0.07	0.07		0.08
	35.80		0.16	0.20						0.05	0.04	0.05	0.05		0.07
	34.70		0.16	0.16						0.06	0.06	0.05	0.05		0.06
	33.70		0.12	0.18						0.05	0.05	0.05	0.05		0.05
	34.90		0.20	0.37						0.05	0.05	0.07	0.07		0.07
	33.30		0.19	0.28						0.05	0.04	0.05	0.05		0.05
	33.90		0.27	0.35						0.06	0.06	0.05	0.05		0.07
	32.80		0.18	0.23						0.05	0.04	0.05	0.05		0.05
	33.00		0.21	0.34						0.05	0.05	0.06	0.06		0.06
	30.90		0.21	0.23						0.05	0.05	0.05	0.05		0.05
AVERAGE	24.7	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.06	0.06	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 05/2014

PAGE 5 OF 11

\*Please answer Y/N question below this chart.

DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.00	0.80	0.20	0.03	0.09	0.01			1.80	0.5	12.3
2	0.00	0.90	0.42	0.03	0.08	0.01			1.70	0.0	12.2
3	0.08	0.97	0.39	0.03	0.08	0.01			1.80	0.0	13.0
4	0.10	0.93	0.38	0.03	0.07	0.01			1.70	0.0	13.2
5	0.08	0.99	0.38	0.03	0.09	0.01			1.85	0.0	13.3
6	0.03	0.93	0.40	0.03	0.08	0.01			1.70	0.0	13.3
7	0.19	1.06	0.29	0.03	0.08	0.01			1.85	0.0	13.9
8	0.26	1.05	0.29	0.03	0.10	0.01			1.80	0.0	13.5
9	0.14	0.99	0.34	0.03	0.08	0.01			1.75	0.0	14.5
10	0.11	1.02	0.36	0.03	0.08	0.01			1.75	0.1	13.5
11	0.06	0.90	0.24	0.03	0.08	0.01			1.80	0.5	13.5
12	0.06	0.86	0.33	0.03	0.09	0.01			1.65	0.0	14.2
13	0.12	1.00	0.33	0.03	0.08	0.01			1.80	0.0	15.0
14	0.13	0.67	0.27	0.03	0.16	0.01			1.50	1.3	14.2
15	0.11	0.97	0.30	0.03	0.17	0.01			1.80	0.3	14.5
16	0.00	0.93	0.73	0.03	0.15	0.01			1.60	0.1	15.5
17	0.00	0.82	0.88	0.03	0.18	0.01			1.80	0.1	15.5
18	0.00	0.84	0.95	0.03	0.18	0.01			1.70	0.0	15.7
19	0.00	0.98	1.01	0.03	0.19	0.01			1.75	0.0	15.8
20	0.00	0.87	1.00	0.03	0.19	0.01			1.75	0.0	15.8
21	0.00	0.98	1.02	0.03	0.19	0.01			1.70	0.0	15.6
22	0.00	0.69	0.70	0.03	0.20	0.01			1.80	0.8	15.5
23	0.00	0.96	0.87	0.03	0.17	0.01			1.80	0.0	16.8
24	0.00	1.00	0.84	0.03	0.16	0.01			1.80	0.0	16.0
25	0.00	1.00	0.82	0.03	0.16	0.01			1.80	0.0	16.3
26	0.00	0.90	0.99	0.03	0.21	0.03			1.70	0.0	16.6
27	0.00	0.92	0.86	0.03	0.18	0.01			1.65	0.1	17.0
28	0.00	0.80	0.57	0.03	0.24	0.03			1.75	0.3	17.1
29	0.00	0.88	0.54	0.09	0.18	0.01			1.80	0.6	17.0
30	0.00	0.95	0.88	0.03	0.22	0.01			1.75	0.0	17.4
31	0.00	0.90	0.84	0.03	0.80	0.01			1.75		17.8
AVERAGE	0.05	0.92	0.59	0.03	0.16	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	15.0

	1.50
Number of readings	31
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 05/2014  
 PAGE 6 OF 11

DAY	FILTER OPERATION											
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No: 8		
		AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	AREA (square feet) WASHWATER GALLONS	FILT RUN HRS	
1	0											
2	31,000					15,000	89.40	16,000	89.40			
3	0											
4	24,000	12,000	89.70	12,000	89.70							
5	0											
6	31,000					16,000	91.10	15,000	91.10			
7	0											
8	28,000	14,000	93.70	14,000	93.70							
9	0											
10	31,000					16,000	94.40	15,000	94.40			
11	0											
12	30,000	15,000	92.30	15,000	92.30							
13	0											
14	33,000					18,000	91.20	15,000	91.20			
15	0											
16	31,000	15,000	91.90	16,000	91.90							
17	0											
18	31,000					16,000	92.00	15,000	92.00			
19	0											
20	31,000	16,000	90.80	15,000	90.80							
21												
22	32,000					16,000	90.90	16,000	90.90			
23	27,000	12,000	89.70	15,000	89.70							
24	0											
25	0											
26	30,000					15,000	92.50	15,000	92.50			
27	0											
28	28,000	14,000	94.80	14,000	94.80							
29	0											
30	32,000					16,000	92.40	16,000	92.40			
31	32,000	16,000	89.50	16,000	89.50							
TOTAL	482,000	114,000	732.40	117,000	732.40	128,000	733.90	123,000	733.90	0	0.00	
AVERAGE	16.067	14.250	91.550	14.625	91.550	16.000	91.738	15.375	91.738	#DIV/0!	#DIV/0!	

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

REPORT MONTH/YEAR: 05/2014

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1			1.30	1.24	1.63	1.58	1.47	1.45	1.28	1.23	
2			1.55	1.53	1.44	1.43	1.12	1.06	1.33	1.29	
3			1.46	1.44	1.72	1.71	1.50	1.49	1.46	1.44	
4			1.48	1.47	1.67	1.64	1.50	1.46	1.69	1.67	
5			1.45	1.41	1.62	1.56	1.41	1.34	1.78	1.76	
6			1.36	1.33	1.53	1.51	1.57	1.56	1.54	1.52	
7			1.44	1.38	1.26	1.20	1.23	1.21	0.85	0.80	
8			0.97	0.89	1.22	1.13	1.58	1.53	1.61	1.57	
9			1.35	1.26	0.79	0.72	0.81	0.78	1.61	1.55	
10			1.41	1.40	1.60	1.54	1.61	1.58	1.63	1.60	
11			1.18	1.12	1.62	1.58	1.63	1.56	1.69	1.62	
12			1.19	1.17	1.40	1.34	1.32	1.20	1.44	1.41	
13			1.62	1.57	1.75	1.68	1.69	1.63	1.71	1.64	
14			1.55	1.54	1.31	1.27	1.47	1.42	1.32	1.32	
15			1.42	1.37	1.03	0.97	0.99	0.94	1.40	1.35	
16			1.56	1.52	1.61	1.57	1.66	1.63	0.92	0.88	
17			1.49	1.46	1.42	1.40	1.66	1.64	1.72	1.68	
18			1.61	1.57	1.24	1.18	1.49	1.46	1.64	1.58	
19			1.03	0.99	1.58	1.51	1.40	1.39	1.28	1.25	
20			1.65	1.62	1.58	1.56	1.80	1.72	0.52	0.45	
21			1.37	1.32	1.57	1.50	1.03	1.00	1.54	1.50	
22			1.19	1.12	1.15	1.11	1.29	1.27	1.55	1.54	
23			1.56	1.52	1.33	1.28	1.73	1.68	1.57	1.54	
24			1.44	1.42	1.57	1.53	1.56	1.54	1.50	1.46	
25			1.44	1.39	1.15	1.12	1.62	1.59	1.43	1.41	
26			1.66	1.50	1.36	1.32	1.14	1.12	1.63	1.60	
27			1.51	1.48	1.44	1.42	1.39	1.37	1.06	1.02	
28			1.21	1.17	1.47	1.42	1.36	1.34	1.70	1.69	
29			1.39	1.35	1.25	1.22	0.78	0.70	1.57	1.55	
30			1.71	1.64	0.75	0.73	1.79	1.75	1.73	1.68	
31			1.26	1.23	1.29	1.26	1.62	1.58	1.53	1.52	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.41	1.37	1.40	1.35	1.43	1.39	1.46	1.42
TOTAL	0.0	0.0	Total Minimum	0.97		0.75		0.78		0.52	
			Free Minimum		0.89		0.72		0.70		0.45

Total # Chlorine Samples 31 31 31 31 31 31 31 31  
 # Less than 0.2 mg/L/0.5 mg/L 0 0 0 0 0 0 0 0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.45
Number of Total Residuals	124	Minimum Monthly Total Residual	0.52
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**





**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

05/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>58,108,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,874,452</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,981,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION	
APPLICABLE TO ALL PLANTS WITH FILTRATION		APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>714.5</u>	Number of days of plant operation	<u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>	Number of lowest chlorine samples recorded	<u>31</u>
Highest single turbidity reading	<u>0.08</u>	Lowest single chlorine reading	<u>1.50</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>0</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU	<u>0</u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.5 mg/L	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>		

CHLORINE DIOXIDE ENTRY POINT MONITORING		CHLORITE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>	Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley

Signature of Principal Executive Officer or Authorized Agent

06-03-2014

Date



RECEIVED  
JUL 11 2014

BY: \_\_\_\_\_

Revised 01/04/07

**KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH  
MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS**

MONTH & YEAR (mm/yyyy) 06/2014      Indicate one with "X"  SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	<u>KY0800273</u>	PLANT ID:	<u>A</u>	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS:	<u>3</u>	DIST. CLASS:	<u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>07-08-2014</u>		
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>		
	<u>Tug Fork</u>				
	<b>OPERATOR(S) RESPONSIBLE / IN-CHARGE</b>	<b>CLASS</b>	<b>CERTIFICATION NUMBER</b>		
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>		
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>		
WTP SHIFT 3:	<u>Jerry L Belcher</u>	<u>1V-A</u>	<u>21719</u>		
DISTRIBUTION:					

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

**TREATMENT PLANTS COMPLETE:**

1. DESIGN CAPACITY (gpm):	<u>1,667</u>
2. TYPE OF FILTRATION USED:	<u>Dual Media</u>
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	<u>2.66</u>
4. PERCENT BACKWASH WATER USED:	<u>0.8</u>
6. DATE FLOCCULATION BASIN(S) LAST CLEANED:	<u>#2 - 3/18/10 #3 - 9/2/09</u>
6. DATE SETTLING BASIN(S) LAST CLEANED:	_____

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

07-08-2014  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 06/2014

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,854,000	23.0	316.8	20.5	4.0	0.3			663.3	42.9	175.5	11.4
2	1,850,000	23.0	316.8	20.5	4.0	0.3			657.4	42.6	175.5	11.4
3	1,673,000	20.5	282.4	20.2	3.6	0.3			595.3	42.7	156.4	11.2
4	1,792,000	23.5	323.7	21.7	4.1	0.3			677.1	45.3	179.3	12.0
5	1,680,000	21.0	289.3	20.6	3.7	0.3			611.1	43.6	160.2	11.4
6	1,563,000	21.5	215.7	16.5	3.8	0.3			622.0	47.7	164.0	12.6
7	1,495,000	22.0	220.7	17.7	3.9	0.3			604.2	48.5	178.4	14.3
8	1,631,000	24.0	240.8	17.7	4.2	0.3			708.1	52.1	183.2	13.5
9	1,855,000	24.0	330.6	21.4	4.2	0.3			749.8	48.5	191.5	12.4
10	1,706,000	24.0	330.6	23.2	4.2	0.3			775.4	54.5	179.5	12.6
11	1,588,000	22.0	303.2	22.9	3.9	0.3			701.2	52.9	149.0	11.3
12	1,829,000	24.0	330.6	21.7	4.2	0.3			802.0	52.6	159.8	10.5
13	1,843,000	24.0	330.6	21.5	4.2	0.3			813.5	52.9	161.2	10.5
14	1,880,000	24.0	330.6	21.1	4.2	0.3			827.0	52.7	129.4	8.3
15	1,870,000	24.0	330.6	21.2	4.2	0.3			818.4	52.5	123.9	7.9
16	1,913,000	24.0	330.6	20.7	4.2	0.3			809.8	50.8	129.4	8.1
17	1,854,000	23.5	323.8	20.9	4.1	0.3			803.0	51.9	107.9	7.0
18	1,906,000	24.0	330.6	20.8	4.2	0.3			827.0	52.0	103.0	6.5
19	1,855,000	24.0	330.6	21.4	4.2	0.3			853.0	55.1	145.5	9.4
20	1,818,000	23.0	316.8	20.9	4.0	0.3			819.2	54.0	151.9	10.0
21	1,884,000	24.0	330.6	21.0	4.2	0.3			851.2	54.2	159.8	10.2
22	1,887,000	24.0	330.6	21.0	4.2	0.3			854.2	54.3	148.6	9.3
23	1,854,000	23.5	330.6	21.4	4.2	0.3			819.4	53.0	164.8	10.7
24	1,856,000	24.0	330.6	21.4	4.2	0.3			863.4	55.8	168.1	10.9
25	1,795,000	24.0	330.6	22.1	4.2	0.3			846.0	56.5	176.4	11.8
26	1,825,000	24.0	330.6	21.7	4.2	0.3			866.0	56.9	170.5	11.2
27	1,731,000	23.0	316.8	21.9	4.0	0.3			842.1	58.3	196.8	13.6
28	1,797,000	24.0	330.6	22.1	4.2	0.3			870.3	58.1	213.1	14.2
29	1,484,000	20.0	275.5	22.3	3.5	0.3			734.7	59.4	177.6	14.3
30	1,795,000	24.0	330.6	22.1	4.2	0.3			914.2	61.1	222.8	14.9
31												
TOTAL	53,363,000		9362.5		122.2		0.0		23199.3		4901.0	
AVERAGE	1,778,767		312.1	21.0	4.1	0.3	#DIV/0!	#DIV/0!	773.3	52.1	163.4	11.1
MAX	1,913,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 06/2014

APPLICABLE TO ALL PLANTS

PAGE 2 OF 11

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
							Post							
1	838.8	54.2	58.4	3.8			242.7	15.7					15.5	1.0
2	832.9	54.0	58.4	3.8			242.7	15.7					19.0	1.2
3	751.7	53.9	52.0	3.7			216.3	15.5					18.0	1.3
4	856.4	57.3	59.6	4.0			247.9	16.6					19.0	1.3
5	771.3	55.0	53.3	3.8			222.6	15.9					17.5	1.2
6	786.0	60.3	54.6	4.2			226.8	17.4					18.0	1.4
7	782.6	62.8	55.8	4.5			232.1	18.6					18.5	1.5
8	891.3	65.5	60.9	4.5			253.2	18.6					19.5	1.4
9	941.3	60.8	60.9	3.9			253.2	16.4					20.0	1.3
10	954.9	67.1	60.9	4.3			253.2	17.8					20.5	1.4
11	850.2	64.2	55.8	4.2			232.1	17.5					18.5	1.4
12	981.8	63.1	60.9	4.0			253.2	16.6					20.5	1.3
13	974.7	63.4	60.9	4.0			253.2	16.5					20.0	1.3
14	956.4	61.0	60.9	3.9			253.2	18.1					20.0	1.3
15	942.3	60.4	60.9	3.9			253.2	16.2					20.5	1.3
16	939.2	58.9	60.9	3.8			253.2	15.9					21.0	1.3
17	910.9	58.9	55.8	3.6	53.9	3.5	247.9	18.0					20.0	1.3
18	930.0	58.5	60.9	3.8	107.9	6.8	253.2	15.9					21.0	1.3
19	998.5	64.5	60.9	3.9	107.9	7.0	253.2	16.4					19.5	1.3
20	971.1	64.0	58.4	3.9	103.4	6.8	242.7	16.0	8.7	0.6				
21	1011.0	64.3	60.9	3.9	107.9	6.9	253.2	16.1	19.0	1.2				
22	1000.8	63.6	60.9	3.9	107.9	6.9	253.2	16.1	19.0	1.2				
23	984.2	63.7	59.6	3.9	105.6	6.8	247.9	16.0	11.5	0.7				
24	1031.5	66.6	60.9	3.9	107.9	7.0	253.2	16.4						
25	1022.4	68.3	60.9	4.1	107.9	7.2	253.2	16.9	15.2	1.0				
26	1038.5	68.1	60.9	4.0	107.9	7.1	253.2	16.6	31.7	2.1				
27	1038.9	72.0	58.4	4.0	103.4	7.2	242.7	16.8	30.4	2.1				
28	1083.4	72.3	60.9	4.1	107.9	7.2	253.2	16.9	31.7	2.1				
29	912.3	73.7	50.8	4.1	90.0	7.3	212.0	17.1	26.0	2.1				
30	1137.0	76.0	60.9	4.1	107.9	7.2	253.2	16.9	31.7	2.1				
31														
TOTAL	28,100.3		1,766.2		1,427.3		7,360.7		224.9		0.0		366.5	
AVERAGE	936.7	63.2	58.9	4.0	102.0	6.8	245.4	16.6	22.5	1.5	#DIV/0!	#DIV/0!	19.3	1.3

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 06/2014

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)													
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	6.38	6.42	6.95	11	16	35	34	0.83	0.75	2.03	1.98	27.80	0.21	0.05
2	6.40	6.42	6.90	15	17	34	31	0.81	0.74	1.85	1.80	25.10	0.27	0.04
3	6.41	6.53	6.97	24	21	34	30	0.80	0.74	1.88	1.83	23.80	0.41	0.07
4	6.43	6.50	6.86	13	16	35	32	0.72	0.64	1.89	1.84	22.40	0.21	0.05
5	6.42	6.48	6.94	17	17	37	34	0.67	0.59	1.82	1.75	21.40	0.24	0.06
6	6.39	6.51	6.97	19	24	32	28	0.76	0.70	1.89	1.85	20.30	0.25	0.05
7	6.41	6.48	7.10	17	21	35	31	0.69	0.60	2.02	1.97	19.10	0.21	0.06
8	6.40	6.49	7.17	16	20	37	32	0.85	0.79	2.05	2.00	18.20	0.22	0.05
9	6.41	6.58	6.97	16	20	36	31	0.79	0.72	1.93	1.88	18.40	0.26	0.06
10	6.42	6.48	7.03	16	25	33	31	0.91	0.84	1.90	1.86	17.30	0.25	0.06
11	6.41	6.50	7.03	20	20	34	31	0.96	0.87	1.89	1.83	17.90	0.19	0.06
12	6.44	6.54	701.00	15	22	30	28	0.98	0.90	1.86	1.78	17.10	0.20	0.05
13	6.39	6.52	6.91	15	21	35	31	1.13	1.08	1.95	1.90	18.00	0.23	0.05
14	6.40	6.44	6.92	16	19	42	40	1.33	1.24	2.10	2.04	17.90	0.19	0.05
15	6.40	6.44	6.89	17	20	43	39	1.33	1.23	2.07	2.00	17.10	0.22	0.06
16	6.31	6.44	6.80	15	20	35	31	1.24	1.15	2.07	2.02	16.20	0.19	0.06
17	6.40	6.51	6.96	18	22	41	35	1.15	1.06	1.88	1.82	16.00	0.20	0.06
18	6.37	6.53	6.83	15	20	38	35	0.97	0.90	1.83	1.77	15.10	0.19	0.06
19	6.42	6.50	6.84	15	21	28	25	0.85	0.78	1.87	1.81	13.50	0.19	0.05
20	6.43	6.48	6.86	18	21	37	34	0.88	0.80	1.89	1.84	13.30	0.18	0.05
21	6.35	6.42	6.90	20	22	35	31	1.08	1.00	2.00	1.94	12.80	0.14	0.06
22	6.34	6.42	6.84	21	24	36	33	0.99	0.90	1.98	1.90	12.20	0.14	0.05
23	6.44	6.65	7.07	24	27	38	34	0.91	0.83	1.88	1.84	12.90	0.18	0.06
24	6.58	6.70	7.06	26	30	41	36	0.78	0.70	1.85	1.81	11.90	0.21	0.06
25	6.58	6.71	7.06	28	33	45	42	0.67	0.57	1.82	1.78	11.60	0.15	0.06
26	6.66	6.77	7.06	34	33	51	47	0.68	0.59	1.91	1.82	10.40	0.16	0.06
27	6.73	6.81	7.17	42	40	53	49	0.63	0.55	1.86	1.79	10.10	0.17	0.06
28	6.74	6.78	7.17	43	47	55	50	0.59	0.51	1.87	1.80	9.42	0.13	0.05
29	6.76	6.84	7.22	43	48	58	53	0.52	0.43	1.83	1.75	8.78	0.15	0.05
30	6.92	6.96	7.35	55	61	65	61	0.49	0.56	1.92	1.97	8.10	0.17	0.06
31														
AVERAGE	6.5	6.6	30.1	22	26	40	36	0.87	0.79	1.92	1.87	16.14	0.20	0.06

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID : A  
 AGENCY INTEREST : 2987  
 REPORT MONTH/YEAR : 06/2014

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	27.80		0.27	0.27						0.08	0.08	0.04	0.05		0.07
2	25.10		0.49	0.36						0.05	0.05	0.04	0.05		0.05
3	23.80		0.64	0.89						0.06	0.06	0.12	0.12		0.05
4	22.40		0.22	0.31						0.06	0.06	0.05	0.05		0.06
5	21.40		0.45	0.28						0.06	0.06	0.05	0.05		0.06
6	20.30		0.26	0.38						0.05	0.05	0.05	0.05		0.06
7	19.10		0.29	0.25						0.06	0.05	0.10	0.10		0.09
8	18.20		0.26	0.38						0.05	0.05	0.06	0.06		0.07
9	18.40		0.37	0.40						0.07	0.07	0.08	0.06		0.08
10	17.30		0.25	0.64						0.06	0.07	0.09	0.06		0.07
11	17.90		0.25	0.21						0.05	0.05	0.07	0.07		0.06
12	17.10		0.32	0.28						0.05	0.05	0.06	0.05		0.06
13	18.00		0.34	0.34						0.06	0.06	0.06	0.05		0.07
14	17.90		0.24	0.24						0.05	0.05	0.06	0.05		0.06
15	17.10		0.25	0.25						0.05	0.05	0.08	0.07		0.07
16	16.20		0.22	0.24						0.05	0.05	0.07	0.05		0.06
17	16.00		0.26	0.25						0.06	0.06	0.07	0.05		0.07
18	15.10		0.21	0.28						0.05	0.05	0.08	0.05		0.07
19	13.50		0.20	0.42						0.05	0.05	0.08	0.07		0.08
20	13.30		0.19	0.23						0.07	0.08	0.06	0.06		0.08
21	12.80		0.21	0.19						0.07	0.08	0.07	0.05		0.08
22	12.20		0.17	0.16						0.06	0.06	0.06	0.06		0.07
23	12.90		0.24	0.19						0.07	0.07	0.08	0.08		0.08
24	11.90		0.23	0.28						0.08	0.07	0.10	0.09		0.10
25	11.60		0.16	0.22						0.07	0.07	0.06	0.06		0.08
26	10.40		0.20	0.23						0.06	0.06	0.06	0.06		0.07
27	10.10		0.17	0.30						0.06	0.06	0.10	0.09		0.09
28	9.42		0.13	0.19						0.06	0.06	0.06	0.06		0.07
29	8.78		0.22	0.17						0.07	0.07	0.07	0.06		0.08
30	8.10		0.19	0.28						0.06	0.06	0.06	0.07		0.07
31															
AVERAGE	16.1	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.07	0.06	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 06/2014

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)									RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL		
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.00	0.93	0.57	0.03	0.22	0.01			1.80	0.0	17.3
2	0.00	0.90	0.72	0.03	0.22	0.01			1.75	0.0	17.8
3	0.08	0.87	0.75	0.03	0.23	0.01			1.50	0.0	18.8
4	0.00	0.99	0.45	0.03	0.23	0.01			1.75	1.2	17.9
5	0.00	1.01	0.43	0.03	0.23	0.01			1.75	0.6	18.2
6	0.00	0.88	0.66	0.03	0.25	0.01			1.75	0.0	18.1
7	0.00	0.85	0.66	0.03	0.26	0.01			1.55	0.0	18.1
8	0.00	1.00	0.77	0.03	0.27	0.01			1.90	0.0	18.4
9	0.00	1.05	0.67	0.03	0.29	0.01			1.70	0.0	18.1
10	0.02	0.85	0.63	0.03	0.27	0.01			1.90	0.0	18.4
11	0.00	0.88	0.61	0.03	0.29	0.01			1.65	0.3	18.2
12	0.01	0.81	0.53	0.03	0.30	0.01			1.80	0.3	18.7
13	0.00	0.82	0.69	0.03	0.38	0.01			1.80	0.1	18.5
14	0.00	1.00	0.56	0.03	0.43	0.01			1.85	0.1	18.1
15	0.00	0.98	0.58	0.03	0.46	0.01			1.85	0.0	18.3
16	0.06	1.00	0.53	0.03	0.43	0.01			1.95	0.0	18.8
17	0.07	0.99	0.62	0.03	0.46	0.01			1.75	0.0	19.0
18	0.00	0.46	0.70	0.03	0.27	0.01			1.70	0.0	19.6
19	0.14	0.86	0.61	0.03	0.52	0.01			1.75	0.0	19.7
20	0.09	0.92	0.68	0.03	0.56	0.01			1.75	0.1	19.9
21	0.05	1.02	0.64	0.03	0.61	0.01			1.70	0.4	20.1
22	0.06	1.02	0.66	0.03	0.62	0.01			1.75	0.0	20.5
23	0.04	0.99	0.83	0.03	0.64	0.01			1.70	0.0	20.9
24	0.05	0.91	0.79	0.03	0.65	0.01			1.70	0.1	21.3
25	0.05	1.01	0.78	0.03	0.80	0.01			1.70	0.0	21.8
26	0.08	0.83	0.71	0.03	0.66	0.01			1.80	0.2	22.0
27	0.05	0.96	0.73	0.03	0.74	0.01			1.70	0.0	22.6
28	0.09	0.98	0.58	0.03	0.72	0.01			1.75	0.0	23.0
29	0.13	1.07	0.58	0.03	0.75	0.01			1.70	0.4	23.1
30	0.07	1.04	0.55	0.03	0.75	0.01			1.75	0.3	23.7
31											
AVERAGE	0.04	0.93	0.64	0.03	0.45	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	19.6

	1.50
Number of readings	30
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N)

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID : A  
 REPORT MONTH/YEAR: 06/2014  
 PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	180	AREA (square feet)	FILT RUN HRS						
1	0										
2	0										
3	31,000					16,000	90.20	15,000	90.20		
4	32,000	16,000	86.60	16,000	86.60						
5	0										
6	0										
7	34,000					17,000	84.50	17,000	84.50		
8	0										
9	26,000	13,000	91.20	13,000	91.20						
10	0										
11	31,000					16,000	92.70	150,000	92.70		
12	0										
13	30,000	15,000	92.80	15,000	92.80						
14	0										
15	31,000					16,000	93.70	15,000	93.70		
16	0										
17	26,000	13,000	94.80	13,000	94.80						
18	0										
19	28,000					14,000	94.90	14,000	94.90		
20	24,000	12,000	91.70	12,000	91.70						
21	0										
22	0										
23	30,000					15,000	93.50	15,000	93.50		
24	0										
25	28,000	14,000	98.70	14,000	98.70						
26	0										
27	31,000					16,000	95.10	15,000	95.10		
28	0										
29	28,000	14,000	93.30	14,000	93.30						
30	0										
31	0										
TOTAL	410,000	97,000	649.10	97,000	649.10	110,000	644.60	241,000	644.60	0	0.00
AVERAGE	13,226	13,857	92.729	13,857	92.729	15,714	92.086	34,429	92.086	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

**ALL WATER SYSTEMS**

REPORT MONTH/YEAR: 06/2014

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LB8	CHLORINE BOOSTER LB8	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1			1.69	1.81	1.31	1.26	1.61	1.58	1.47	1.41	
2			0.71	0.68	1.41	1.35	1.43	1.41	1.71	1.68	
3			1.45	1.39	0.39	0.31	1.37	1.35	1.48	1.42	
4			1.41	1.35	1.43	1.39	1.55	1.52	1.48	1.40	
5			1.30	1.27	1.31	1.26	1.37	1.32	0.48	0.42	
6			1.03	0.94	1.14	1.08	1.14	1.03	1.22	1.20	
7			1.24	1.19	1.28	1.21	1.16	1.10	1.11	1.06	
8			1.57	1.51	1.31	1.26	1.58	1.47	1.59	1.50	
9			0.35	0.30	1.68	1.68	1.52	1.47	1.44	1.40	
10			0.52	0.44	0.68	0.53	1.39	1.37	0.84	0.76	
11			1.40	1.34	0.49	0.46	1.17	1.15	1.51	1.48	
12			1.42	1.38	1.40	1.38	1.47	1.48	1.39	1.36	
13			1.36	1.30	1.51	1.48	1.12	1.07	1.45	1.39	
14			1.35	1.28	0.67	0.62	1.19	1.15	1.44	1.39	
15			1.18	1.12	1.73	1.65	1.59	1.55	1.61	1.54	
16			1.60	1.56	1.53	1.48	1.34	1.30	0.75	0.67	
17			1.32	1.28	1.48	1.41	1.41	1.38	1.30	1.23	
18			1.44	1.36	1.40	1.38	1.28	1.21	0.80	0.70	
19			0.53	0.47	1.47	1.46	1.18	1.16	1.33	1.27	
20			1.12	1.06	1.14	1.04	1.09	1.06	1.39	1.33	
21			1.28	1.21	1.38	1.29	1.05	1.04	1.00	0.99	
22			0.95	0.83	1.33	1.29	1.22	1.18	1.53	1.43	
23			0.88	0.79	1.34	1.32	0.91	0.89	1.20	1.18	
24			0.91	0.86	0.84	0.75	0.77	0.70	1.22	1.14	
25			1.35	1.29	1.37	1.34	0.70	0.66	0.68	0.64	
26			1.08	1.01	0.51	0.47	1.30	1.28	1.31	1.26	
27			1.04	0.97	1.01	0.89	1.00	0.98	1.17	1.15	
28			1.02	0.93	1.09	1.03	1.24	1.18	1.00	0.88	
29			1.01	0.93	1.26	1.20	1.15	1.10	1.33	1.26	
30			0.78	0.83	1.07	1.08	1.07	1.16	1.24	1.28	
31											
AVERAGE	#DIV/OI	#DIV/OI	Average	1.14	1.08	1.20	1.14	1.24	1.21	1.25	1.19
TOTAL	0.0	0.0	Total Minimum	0.35		0.39		0.70		0.48	
			Free Minimum		0.30		0.31		0.66		0.42

Total # Chlorine Samples	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L / 0.5 mg/L	1	0	2	0	0	0	1	0

Number of Free Residuals	120	Minimum Monthly Free Residual	0.30
Number of Total Residuals	120	Minimum Monthly Total Residual	0.35
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) N  
 Number of days of operation? 30

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 06/2014

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	Turbidity Samples Required	Mid. 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - 10 pm	Maximum
1	23.0	6	0.07	0.06	0.05	0.05	0.05	0.05	0.070
2	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050
3	20.5	6	0.05	0.08	0.08	0.10	0.06	0.05	0.097
4	23.5	6	0.06	0.06	0.06	0.05	0.05	0.05	0.062
5	21.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.066
6	21.5	6	0.06	0.06	0.05	0.06	0.05	0.06	0.057
7	22.0	6	0.06	0.09	0.06	0.06	0.06	0.06	0.090
8	24.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070
9	24.0	6	0.06	0.07	0.06	0.08	0.07	0.07	0.083
10	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.070
11	22.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064
12	24.0	6	0.05	0.05	0.05	0.06	0.06	0.06	0.060
13	24.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.065
14	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060
15	24.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070
16	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060
17	23.5	6	0.06	0.07	0.06	0.07	0.06	0.06	0.067
18	24.0	6	0.07	0.07	0.06	0.06	0.06	0.07	0.068
19	24.0	6	0.06	0.08	0.06	0.06	0.06	0.06	0.080
20	23.0	6	0.06	0.06	0.06	0.06	0.07	0.08	0.080
21	24.0	6	0.08	0.07	0.07	0.06	0.06	0.06	0.080
22	24.0	6	0.07	0.07	0.07	0.06	0.07	0.07	0.070
23	23.5	6	0.07	0.08	0.07	0.07	0.08	0.07	0.077
24	24.0	6	0.07	0.07	0.08	0.10	0.08	0.08	0.095
25	24.0	6	0.07	0.08	0.07	0.07	0.07	0.07	0.078
26	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.070
27	23.0	6	0.07	0.09	0.07	0.07	0.07	0.07	0.090
28	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.070
29	20.0	5	0.08	0.08	0.07	0.07	0.07		0.080
30	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.071
31	0.0	0							0.000
<b>Total</b>	<b>697.5</b>	<b>179</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>					<b>179</b>	<b>0.097</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Carl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

07-08-2014  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

06/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>53,363,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,778,767</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,913,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	..... <input type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	..... <input type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	..... <input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	..... <input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	..... <input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	..... <input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	..... <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	..... <input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	..... <input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION	
APPLICABLE TO ALL PLANTS WITH FILTRATION		APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>697.5</u>	Number of days of plant operation	<u>30</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>179</u>	Number of lowest chlorine samples recorded	<u>30</u>
Highest single turbidity reading	<u>0.10</u>	Lowest single chlorine reading	<u>1.50</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>0</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU	<u>0</u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	.....	Number of samples under 0.5 mg/L	.....
Number of samples exceeded 5 NTU	.....		

CHLORINE DIOXIDE ENTRY POINT MONITORING		CHLORITE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>30</u>	Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Carl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

07-08-2014  
Date



**RECEIVED**  
 AUG 11 2014  
 BY: \_\_\_\_\_

**KENTUCKY DIVISION OF WATER**  
**DRINKING WATER BRANCH**  
**MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS**

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 07/2014

Indicate one with "X"  
 SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>08-07-2014</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	<b>OPERATOR(S) RESPONSIBLE / IN-CHARGE</b>	<b>CLASS</b>	<b>CERTIFICATION NUMBER</b>	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Jerry L Belcher</u>	<u>1V-A</u>	<u>21719</u>	
DISTRIBUTION:	_____			

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

- |   |                                  |
|---|----------------------------------|
| 1. DESIGN CAPACITY (gpm):                   | <u>1,667</u>                     |
| 2. TYPE OF FILTRATION USED:                 | <u>Dual Media</u>                |
| 3. DESIGN FILTRATION RATE (gpm/sq. ft.):    | <u>2.66</u>                      |
| 4. PERCENT BACKWASH WATER USED:             | <u>1.0</u>                       |
| 5. DATE FLOCCULATION BASIN(S) LAST CLEANED: | <u>#2 - 3/18/10 #3 - 9/2/ 09</u> |
| 6. DATE SETTLING BASIN(S) LAST CLEANED:     | _____                            |

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

08-07-2014  
 DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 07/2014

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APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,768,000	23.5	330.6	22.4	4.1	0.3			926.5	62.8	176.7	12.0
2	1,757,000	23.5	323.8	22.1	4.1	0.3			895.2	61.1	175.5	12.0
3	1,753,000	24.0	330.6	22.6	4.2	0.3			920.4	63.0	174.2	11.9
4	1,813,000	24.0	264.1	17.5	4.2	0.3			923.3	61.1	174.5	11.5
5	1,764,000	24.0	224.2	15.2	4.2	0.3			924.6	62.8	173.8	11.8
6	1,827,000	24.0	224.2	14.7	4.2	0.3			943.6	61.9	183.0	12.0
7	1,797,000	23.5	219.5	14.6	4.1	0.3			906.1	60.5	168.4	11.2
8	1,840,000	24.0	224.2	14.6	4.2	0.3			893.4	58.2	179.1	11.7
9	1,804,000	24.0	224.2	14.9	4.2	0.3			866.8	57.6	185.7	12.3
10	1,840,000	24.0	224.2	14.6	4.2	0.3			870.8	56.7	189.8	12.4
11	1,833,000	24.0	224.2	14.7	4.2	0.3			802.7	52.5	173.5	11.3
12	1,857,000	24.0	224.2	14.5	4.2	0.3			816.0	52.7	173.9	11.2
13	1,822,000	24.0	224.2	14.8	4.2	0.3			836.0	55.0	169.2	11.1
14	1,856,000	24.0	224.2	14.5	4.2	0.3			755.8	48.8	169.2	10.9
15	1,833,000	23.5	219.5	14.4	4.1	0.3			746.9	48.9	174.4	11.4
16	1,838,000	24.0	224.2	14.6	4.2	0.3			788.3	51.4	173.0	11.3
17	1,807,000	24.0	224.2	14.9	4.2	0.3			797.5	52.9	179.0	11.9
18	1,868,000	24.0	224.2	14.4	4.2	0.3			755.6	48.5	161.8	10.4
19	1,837,000	24.0	224.2	14.6	4.2	0.3			762.4	49.8	184.5	12.0
20	1,893,000	24.0	224.2	14.2	4.2	0.3			761.2	48.2	183.2	11.6
21	1,787,000	22.5	210.2	14.1	4.0	0.3			768.7	51.6	180.5	12.1
22	1,888,000	24.0	224.2	14.2	4.2	0.3			779.4	49.5	169.7	10.8
23	1,851,000	24.0	224.2	14.5	4.2	0.3			716.2	46.4	155.7	10.1
24	1,789,000	23.0	214.9	14.4	4.0	0.3			589.0	39.5	160.1	10.7
25	1,847,000	24.0	224.2	14.6	4.2	0.3			667.5	43.3	166.6	10.8
26	1,856,000	23.5	219.5	14.2	4.1	0.3			668.2	43.1	168.8	10.9
27	1,809,000	23.0	214.9	14.2	4.0	0.3			718.5	47.6	161.4	10.7
28	1,850,000	24.0	224.2	14.5	4.2	0.3			678.0	43.9	170.6	11.1
29	1,883,000	24.0	224.2	14.3	4.2	0.3			701.1	44.6	178.5	11.4
30	1,881,000	24.0	224.2	14.3	4.2	0.3			728.7	46.5	173.9	11.1
31	1,824,000	24.0	224.2	14.7	4.2	0.3			744.5	48.9	155.0	10.2
TOTAL	56,676,000		7255.8		129.1		0.0		24652.9		5363.2	
AVERAGE	1,828,258		234.1	15.4	4.2	0.3	#DIV/0!	#DIV/0!	795.3	52.2	173.0	11.4
MAX	1,893,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 07/2014

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APPLICABLE TO ALL PLANTS

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
							Post							
1	1103.2	74.8	59.6	4.0			253.2	17.2	31.1	2.1				
2	1070.7	73.1	59.6	4.1			217.4	14.8	31.1	2.1				
3	1094.6	74.9	60.9	4.2			222.2	15.2	31.7	2.2				
4	1097.8	72.6	60.9	4.0			222.2	14.7	31.7	2.1				
5	1098.4	74.7	60.9	4.1			222.2	15.1	31.7	2.2				
6	1126.7	73.9	60.9	4.0			222.2	14.6	31.7	2.1				
7	1074.5	71.7	59.6	4.0	51.7	3.4	222.2	14.8	31.1	2.1				
8	1072.5	69.9	60.9	4.0	107.9	7.0	94.9	8.2	31.7	2.1				
9	1052.5	70.0	60.9	4.0	107.9	7.2			31.7	2.1				
10	1080.6	69.1	60.9	4.0	107.8	7.0			31.7	2.1				
11	976.2	83.9	60.9	4.0	107.8	7.1			31.7	2.1				
12	989.9	63.9	60.9	3.9	107.8	7.0			31.7	2.0				
13	1005.2	66.2	60.9	4.0	107.8	7.1			31.7	2.1				
14	925.0	59.7	60.9	3.9	107.8	7.0			31.7	2.0				
15	921.3	60.3	59.6	3.9	105.6	6.9			31.1	2.0				
16	961.3	62.7	60.9	4.0	107.8	7.0			31.7	2.1				
17	976.5	64.8	60.9	4.0	107.8	7.2			31.7	2.1				
18	917.4	58.9	60.9	3.9	126.9	8.1			31.7	2.0				
19	946.9	61.8	60.9	4.0	126.9	8.3			31.7	2.1				
20	944.4	59.8	60.9	3.9	126.9	8.0			31.7	2.0				
21	949.2	83.7	57.1	3.8	119.0	8.0			29.7	2.0				
22	949.1	60.3	60.9	3.9	126.9	8.1			31.7	2.0				
23	871.9	56.5	60.9	3.9	126.9	8.2			31.7	2.1				
24	749.1	50.2	58.4	3.9	121.6	8.1			30.4	2.0				
25	834.1	54.1	60.9	4.0	126.9	8.2			31.7	2.1				
26	837.1	54.0	59.6	3.8	124.3	8.0			31.1	2.0				
27	879.9	58.3	58.4	3.9	121.6	8.1			30.4	2.0				
28	848.6	55.0	60.9	3.9	126.9	8.2			31.7	2.1				
29	879.6	56.0	60.9	3.9	126.9	8.1			31.7	2.0				
30	902.6	57.5	60.9	3.9	126.9	8.1			31.7	2.0				
31	899.5	59.1	60.9	4.0	126.9	8.3			31.7	2.1				
TOTAL	30,016.3		1,872.6		2,883.2		1,676.5		975.1		0.0		0.0	
AVERAGE	968.3	63.6	60.4	4.0	115.3	7.5	209.6	14.1	31.5	2.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 07/2014

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DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	6.96	7.03	7.33	59	63	78	73	0.92	0.84	2.01	1.95	7.16	0.15	0.06	
2	6.99	7.11	7.37	60	62	85	83	0.84	0.72	1.90	1.82	6.99	0.18	0.06	
3	7.03	7.14	7.38	67	72	94	92	0.91	0.77	1.96	1.88	5.72	0.18	0.06	
4	7.05	7.18	7.36	68	73	113	107	0.92	0.82	1.96	1.86	5.34	0.19	0.05	
5	7.05	7.16	7.36	70	72	115	110	0.91	0.78	2.00	1.87	4.68	0.16	0.06	
6	7.33	7.30	7.46	71	74	134	128	1.13	1.04	2.05	1.93	4.76	0.15	0.06	
7	7.33	7.43	7.49	100	104	141	135	1.00	0.91	1.93	1.83	3.79	0.17	0.06	
8	7.48	7.57	7.50	105	108	153	148	1.13	1.02	1.97	1.87	4.34	0.16	0.05	
9	7.47	7.57	7.45	110	115	160	158	1.00	0.87	1.95	1.85	4.46	0.16	0.06	
10	7.53	7.61	7.52	117	120	174	170	1.06	0.92	2.00	1.89	4.18	0.16	0.06	
11	7.57	7.68	7.55	120	123	181	187	1.02	0.93	1.98	1.87	4.73	0.17	0.06	
12	7.60	7.63	7.54	131	134	188	182	0.97	0.87	2.02	1.93	5.02	0.14	0.05	
13	7.61	7.65	7.54	123	125	190	185	1.15	1.07	2.04	1.95	4.66	0.17	0.07	
14	7.64	7.67	7.55	121	125	185	181	0.96	0.89	1.98	1.90	4.50	0.12	0.06	
15	7.64	7.72	7.61	124	128	189	184	0.79	0.70	1.93	1.84	3.87	0.14	0.05	
16	7.68	7.72	7.60	133	128	192	185	0.96	0.83	2.09	1.95	3.47	0.17	0.06	
17	7.76	7.82	7.69	138	143	203	200	0.90	0.78	1.98	1.89	4.06	0.13	0.06	
18	7.94	7.91	7.78	139	145	206	202	1.02	0.93	1.94	1.86	3.60	0.13	0.06	
19	8.00	7.88	7.78	143	147	205	202	0.85	0.76	1.92	1.83	3.31	0.11	0.06	
20	7.99	7.91	7.79	146	150	210	206	0.92	0.84	2.00	1.94	6.83	0.11	0.05	
21	8.04	7.96	7.82	150	154	214	210	0.85	0.77	1.94	1.89	5.80	0.11	0.06	
22	8.01	7.93	7.81	151	156	212	207	1.02	0.93	2.03	1.96	4.47	0.11	0.05	
23	7.90	7.87	7.78	148	150	215	217	1.17	1.07	2.03	1.97	4.06	0.12	0.06	
24	7.87	7.88	7.77	150	153	205	209	1.06	0.94	1.99	1.90	3.61	0.13	0.06	
25	7.84	7.85	7.76	150	154	214	210	0.95	0.86	1.98	1.91	3.12	0.12	0.05	
26	7.85	7.81	7.73	149	155	217	212	0.84	0.74	1.94	1.87	2.98	0.09	0.05	
27	7.81	7.81	7.73	165	159	220	220	0.81	0.70	1.91	1.84	2.97	0.10	0.05	
28	7.75	7.77	7.71	162	157	220	224	0.93	0.85	2.00	1.94	3.00	0.11	0.05	
29	7.79	7.80	7.73	145	150	223	227	0.73	0.65	1.86	1.81	2.73	0.11	0.06	
30	7.88	7.92	7.80	152	154	227	222	0.73	0.62	1.98	1.91	3.01	0.11	0.05	
31	8.02	7.91	7.82	153	157	223	228	1.04	0.92	2.06	1.94	2.64	0.10	0.05	
AVERAGE	7.6	7.7	7.6	123	126	180	178	0.95	0.85	1.98	1.89	4.32	0.14	0.05	

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 07/2014

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	7.16		0.13	0.23						0.06	0.06	0.08	0.08		0.07
2	6.99		0.15	0.27						0.06	0.06	0.07	0.07		0.07
3	5.72		0.22	0.30						0.07	0.07	0.07	0.07		0.07
4	5.34		0.18	0.34						0.06	0.06	0.06	0.07		0.07
5	4.68		0.13	0.24						0.06	0.06	0.08	0.08		0.08
6	4.76		0.18	0.26						0.06	0.05	0.06	0.07		0.06
7	3.79		0.22	0.32						0.06	0.06	0.06	0.06		0.07
8	4.34		0.17	0.25						0.06	0.06	0.06	0.06		0.06
9	4.46		0.16	0.38						0.07	0.07	0.11	0.08		0.08
10	4.18		0.19	0.24						0.06	0.05	0.07	0.08		0.06
11	4.73		0.25	0.27						0.06	0.06	0.09	0.06		0.07
12	5.02		0.15	0.24						0.06	0.05	0.07	0.06		0.07
13	4.66		0.18	0.27						0.06	0.05	0.13	0.07		0.07
14	4.50		0.11	0.24						0.06	0.05	0.07	0.06		0.06
15	3.87		0.17	0.19						0.06	0.06	0.07	0.06		0.07
16	3.47		0.18	0.31						0.06	0.05	0.08	0.06		0.07
17	4.06		0.11	0.21						0.06	0.06	0.15	0.11		0.06
18	3.60		0.11	0.22						0.06	0.06	0.07	0.07		0.07
19	3.31		0.14	0.13						0.07	0.06	0.07	0.07		0.07
20	6.83		0.11	0.14						0.06	0.06	0.07	0.07		0.07
21	5.80		0.12	0.15						0.06	0.06	0.13	0.09		0.09
22	4.47		0.10	0.17						0.06	0.06	0.06	0.07		0.06
23	4.06		0.13	0.24						0.06	0.06	0.06	0.06		0.07
24	3.61		0.23	0.23						0.06	0.06	0.09	0.06		0.07
25	3.12		0.12	0.15						0.06	0.05	0.10	0.07		0.14
26	2.98		0.09	0.14						0.06	0.06	0.05	0.05		0.06
27	2.97		0.09	0.16						0.06	0.06	0.06	0.06		0.05
28	3.00		0.16	0.18						0.06	0.06	0.07	0.05		0.06
29	2.73		0.12	0.16						0.06	0.05	0.13	0.08		0.07
30	3.01		0.10	0.17						0.06	0.05	0.07	0.05		0.05
31	2.64		0.10	0.14						0.06	0.06	0.08	0.06		0.05
AVERAGE	4.3	#DIV/0!	0.1	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.08	0.07	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 07/2014

\*Please answer Y/N question below this chart.

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DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)										
1	0.21	1.01	0.54	0.03	0.67	0.01			1.70	0.1	23.7
2	0.30	1.02	0.56	0.03	0.80	0.01			1.75	0.2	24.1
3	0.41	1.23	0.48	0.03	0.55	0.01			1.75	0.0	24.5
4	0.26	1.20	0.36	0.03	0.57	0.01			1.80	0.0	25.0
5	0.28	1.03	0.37	0.03	0.56	0.01			1.75	0.0	24.7
6	0.25	1.07	0.10	0.03	0.44	0.01			1.65	0.0	25.0
7	0.29	1.00	0.20	0.03	0.35	0.01			1.75	0.0	25.1
8	0.25	1.03	0.19	0.03	0.32	0.01			1.70	0.0	25.3
9	0.37	1.11	0.17	0.03	0.74	0.01			1.70	0.4	25.8
10	0.00	0.99	0.20	0.03	0.20	0.02			1.80	0.0	26.0
11	0.33	1.05	0.14	0.03	0.22	0.01			1.80	0.0	25.6
12	0.45	1.15	0.13	0.03	0.23	0.01			1.65	0.0	25.7
13	0.39	1.07	0.17	0.03	0.21	0.01			1.75	0.0	25.9
14	0.41	1.05	0.14	0.03	0.24	0.01			1.75	0.0	26.0
15	0.34	1.03	0.08	0.03	0.23	0.01			1.55	0.3	26.2
16	0.24	0.95	0.10	0.03	0.19	0.01			1.75	0.1	25.8
17	0.33	1.11	0.03	0.03	0.19	0.01			1.80	0.0	26.3
18	0.40	1.17	0.09	0.03	0.15	0.01			1.80	0.0	25.5
19	0.38	1.05	0.12	0.03	0.08	0.01			1.70	0.7	25.5
20	0.32	1.08	0.10	0.03	0.09	0.01			1.52	0.5	24.9
21	0.38	1.07	0.14	0.03	0.08	0.01			1.50	0.1	24.5
22	0.22	1.03	0.10	0.03	0.09	0.01			1.75	0.0	24.3
23	0.31	0.96	0.11	0.03	0.13	0.01			1.80	0.0	24.9
24	0.28	1.17	0.15	0.03	0.14	0.01			1.75	0.1	24.8
25	0.32	1.07	0.09	0.03	0.11	0.01			1.80	0.0	24.6
26	0.40	1.06	0.10	0.03	0.10	0.01			1.75	0.0	24.9
27	0.38	1.07	0.09	0.03	0.13	0.04			1.65	0.1	24.8
28	0.33	0.99	0.07	0.03	0.11	0.01			1.80	0.4	24.7
29	0.35	1.19	0.07	0.03	0.11	0.01			1.75	0.0	24.8
30	0.30	0.84	0.12	0.03	0.05	0.01			1.80	0.0	24.6
31	0.41	0.97	0.08	0.03	0.13	0.01			1.75	0.0	24.1
AVERAGE	0.32	1.06	0.17	0.03	0.26	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	25.1

	1.50	
Number of readings	31	3.04
For Free Chlorine, # less than 0.2 mg/L	0	
For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID : A  
 REPORT MONTH/YEAR: 07/2014  
 PAGE 6 OF 11

DAY	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet) 160	FILT RUN HRS	AREA (square feet) 160	FILT RUN HRS	AREA (square feet) 160	FILT RUN HRS	AREA (square feet) 160	FILT RUN HRS	AREA (square feet)	FILT RUN HRS
1	31,000					16,000	91.00	15,000	91.00		
2	0										
3	28,000	14,000	92.40	14,000	92.00						
4	0										
5	31,000					15,000.00	94.60	16,000	94.60		
6	0										
7	45,000	23,000	93.00	22,000	93.00						
8	0										
9	41,000					22,000	94.80	19,000	94.80		
10	0										
11	36,000	18,000	94.60	18,000	94.60						
12	0										
13	33,000					17,000	94.30	16,000	94.30		
14	0										
15	33,000	17,000	94.80	16,000	94.80						
16	0										
17	36,000					18,000	95.70	18,000	95.70		
18	0										
19	34,000	17,000	95.10	17,000	95.10						
20	0										
21	36,000					18,000	94.00	18,000	94.00		
22	0										
23	34,000	17,000	94.30	17,000	94.30						
24	0										
25	35,000					18,000	93.10	17,000	93.10		
26	30,000	15,000	90.00	15,000	90.00						
27	0										
28	32,000					17,000	90.50	15,000	90.50		
29	0										
30	0										
31	30,000	15,000	98.00	15,000	98.00						
TOTAL	545,000	136,000	752.20	134,000	751.80	141,000	748.00	134,000	748.00	0	0.00
AVERAGE	17,581	17,000	94.025	16,750	93.975	17,625	93.500	16,750	93.500	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 07/2014

ALL WATER SYSTEMS

PAGE 7 OF 11

DAY	CHEMICALS ADDED			TEST RESULTS							
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
				NORTH		SOUTH		EAST		WEST	
				T	F	T	F	T	F	T	F
1				1.31	1.22	1.35	1.22	1.51	1.46	1.45	1.42
2				1.01	0.89	1.09	0.99	1.16	1.01	1.10	1.05
3				1.11	1.02	0.86	0.82	1.44	1.33	1.46	1.41
4				1.37	1.22	0.97	0.92	0.82	0.70	1.44	1.39
5				1.39	1.27	1.33	1.33	1.05	0.93	1.31	1.20
6				1.27	1.13	0.81	0.73	1.41	1.31	1.43	1.30
7				1.21	1.15	1.18	1.03	1.29	1.16	1.04	0.97
8				1.10	0.92	1.29	1.17	1.12	1.00	0.70	0.55
9				1.44	1.38	0.69	0.61	1.13	1.02	1.17	1.06
10				1.18	1.05	1.39	1.30	0.58	0.52	1.08	0.97
11				1.21	1.10	0.81	0.76	0.94	0.88	1.42	1.36
12				1.09	0.87	1.31	1.27	1.10	1.05	1.39	1.36
13				1.24	1.12	1.61	1.50	1.43	1.35	1.25	1.15
14				1.08	0.98	0.95	0.84	1.37	1.28	1.50	1.34
15				1.31	1.20	1.32	1.15	0.82	0.78	1.33	1.29
16				0.97	0.92	1.46	1.35	1.42	1.38	1.49	1.44
17				1.32	1.22	1.22	1.18	1.50	1.44	0.72	0.66
18				1.18	1.09	0.80	0.75	1.16	1.08	1.46	1.38
19				1.21	1.12	1.30	1.22	1.35	1.24	1.34	1.25
20				1.44	1.36	1.04	0.96	1.50	1.44	1.30	1.22
21				1.16	1.09	1.33	1.28	1.25	1.20	1.48	1.36
22				0.66	0.55	1.55	1.47	1.26	1.20	1.56	1.51
23				1.27	1.25	1.39	1.30	0.72	0.66	1.42	1.39
24				0.60	0.50	1.26	1.19	0.55	0.46	1.37	1.31
25				1.02	0.90	0.53	0.45	1.31	1.17	1.00	1.49
26				1.35	1.25	1.27	1.19	1.33	1.26	1.30	1.20
27				1.21	1.12	0.23	0.22	1.14	1.02	1.43	1.35
28				1.22	1.12	1.40	1.33	1.32	1.24	1.16	1.09
29				1.34	1.26	1.48	1.39	1.37	1.29	1.58	1.48
30				1.08	0.99	1.46	1.43	1.37	1.27	0.94	0.90
31				1.30	1.26	0.80	0.83	1.59	1.53	1.50	1.46
AVERAGE	#DIV/0!	#DIV/0!	Average	1.17	1.08	1.15	1.07	1.20	1.12	1.29	1.24
TOTAL	0.0	0.0	Total Minimum	0.60		0.23		0.55		0.70	
			Free Minimum		0.50		0.22		0.46		0.55

Total # Chlorine Samples	30	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	1	0	0	0	0	0	0
Number of Free Residuals	124	Minimum Monthly Free Residual	0.22						
Number of Total Residuals	123	Minimum Monthly Total Residual	0.23						
Total # Less than 0.2 mg/L	0								
Total # Less than 0.5 mg/L									
		Disinfectant Chloramines? (Y/N)		N					
		Number of days of operation?		31					

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID : A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 07/2014

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid. Turb.	Max. Turb.	Time Node	0.1 NTU	0.3 NTU	1 NTU	5 NTU	Average
1	23.5	6	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.069
2	23.5	6	0.07	0.07	0.06	0.07	0.07	0.07	0.07	0.070
3	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.07	0.070
4	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.070
5	24.0	6	0.06	0.08	0.06	0.05	0.06	0.06	0.06	0.080
6	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.061
7	23.5	6	0.06	0.07	0.06	0.05	0.05	0.06	0.06	0.065
8	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.062
9	24.0	6	0.06	0.08	0.06	0.06	0.05	0.06	0.06	0.076
10	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.06	0.060
11	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.074
12	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.070
13	24.0	6	0.07	0.07	0.06	0.05	0.05	0.06	0.06	0.070
14	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.06	0.062
15	23.5	6	0.07	0.07	0.06	0.06	0.05	0.06	0.06	0.069
16	24.0	6	0.07	0.07	0.06	0.05	0.05	0.06	0.06	0.069
17	24.0	6	0.07	0.08	0.06	0.06	0.06	0.06	0.06	0.082
18	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.070
19	24.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.070
20	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.070
21	22.5	6	0.07	0.09	0.07	0.06	0.06	0.06	0.06	0.094
22	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.064
23	24.0	6	0.06	0.07	0.06	0.06	0.05	0.06	0.06	0.068
24	23.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.070
25	24.0	6	0.14	0.07	0.06	0.05	0.05	0.06	0.06	0.140
26	23.5	6	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.060
27	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.050
28	24.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.060
29	24.0	6	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.070
30	24.0	6	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.054
31	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.05	0.054
<b>Total</b>	<b>738.0</b>	<b>186</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>186</b>	<b>0.140</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 1 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Carl T. Alley 08-07-2014  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

07/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>56,676,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,828,258</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,893,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Were measurements recorded every 15 minutes? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was there a failure of the continuous monitoring equipment? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY		ENTRY POINT RESIDUAL CHLORINE MONITORING	
APPLICABLE TO ALL PLANTS WITH FILTRATION		APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>738.0</u>	Number of days of plant operation	<u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>186</u>	Number of lowest chlorine samples recorded	<u>31</u>
Highest single turbidity reading	<u>0.14</u>	Lowest single chlorine reading	<u>1.50</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>1</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Number of samples exceeded 0.3 NTU	<u>0</u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>    </u>	Number of samples under 0.5 mg/L	<u>    </u>
Number of samples exceeded 5 NTU	<u>    </u>		

CHLORINE DIOXIDE ENTRY POINT MONITORING		CHLORITE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>	Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

08-07-2014  
Date



RECEIVED  
 SEP 15 2014  
 BY: \_\_\_\_\_

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

Revised 01/04/07

MONTH & YEAR (mm/yyyy)

08/2014

Indicate one with "X"

- SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	09-08-2014	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 0.8
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

09-05-2014  
 DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 08/2013

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,882,000	24.0	224.2	14.3	4.2	0.3			794.4	50.8	168.7	10.6
2	1,848,000	24.0	224.2	14.5	4.2	0.3			794.4	51.5	171.0	11.1
3	1,869,000	24.0	224.2	14.4	4.2	0.3			787.8	50.5	169.2	10.9
4	1,859,000	23.5	219.5	14.2	4.1	0.3			773.2	49.9	183.2	11.8
5	1,883,000	24.0	224.2	14.3	4.2	0.3			787.8	50.2	183.2	11.7
6	1,848,000	23.0	214.9	13.9	4.0	0.3			758.6	49.2	165.7	10.8
7	1,879,000	24.0	224.2	14.3	4.2	0.3			837.8	53.5	169.2	10.8
8	1,852,000	24.0	224.2	14.5	4.2	0.3			816.6	52.9	169.2	11.0
9	1,871,000	24.0	279.6	17.9	4.2	0.3			848.2	54.4	196.1	12.6
10	1,834,000	24.0	361.5	23.6	4.2	0.3			950.0	62.1	214.7	14.0
11	1,836,000	24.0	361.5	23.6	4.2	0.3			995.6	65.0	190.9	12.5
12	1,827,000	24.0	292.9	19.2	4.2	0.3			893.3	58.6	181.1	11.9
13	1,840,000	24.0	292.9	19.1	4.2	0.3			898.6	58.6	171.5	11.2
14	1,804,000	24.0	292.9	19.5	4.2	0.3			901.8	59.9	187.7	12.5
15	1,843,000	24.0	292.9	19.1	4.2	0.3			909.2	59.2	193.2	12.6
16	1,820,000	24.0	292.9	19.3	4.2	0.3			907.7	59.8	187.6	12.4
17	1,842,000	24.0	292.9	19.1	4.2	0.3			882.2	57.4	171.2	11.1
18	1,834,000	24.0	292.9	19.1	4.2	0.3			839.1	54.9	183.2	12.0
19	1,852,000	24.0	264.8	17.1	4.2	0.3			862.1	55.8	213.1	13.8
20	1,803,000	24.0	155.0	10.3	4.2	0.3			862.5	57.4	202.5	13.5
21	1,870,000	24.0	155.0	9.9	4.2	0.3			907.0	58.2	213.1	13.7
22	1,829,000	24.0	155.0	10.2	4.2	0.3			896.2	58.8	192.9	12.6
23	1,883,000	24.0	176.7	11.3	4.2	0.3			819.4	52.2	165.9	10.6
24	1,886,000	24.0	292.9	18.6	4.2	0.3			854.6	54.3	174.5	11.1
25	1,888,000	24.0	292.9	18.6	4.2	0.3			865.6	55.0	177.7	11.3
26	1,859,000	23.5	286.7	18.5	4.1	0.3			840.7	54.2	179.3	11.6
27	1,868,000	24.0	292.9	18.8	4.2	0.3			860.6	55.2	183.1	11.8
28	1,832,000	24.0	292.9	19.2	4.2	0.3			876.7	57.4	183.2	12.0
29	1,859,000	24.0	292.9	18.9	4.2	0.3			887.1	57.2	183.2	11.8
30	1,834,000	24.0	292.9	19.1	4.2	0.3			874.4	57.2	177.3	11.6
31	1,863,000	24.0	292.9	18.9	4.2	0.3			834.9	53.7	169.2	10.9
TOTAL	57,397,000		8076.0		129.8		0.0		26818.1		5669.6	
AVERAGE	1,851,516		260.5	16.9	4.2	0.3	#DIV/0!	#DIV/0!	858.6	55.6	182.9	11.8
MAX	1,888,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 08/2013

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APPLICABLE TO ALL PLANTS

CHEMICALS ADDED														
DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
							Post							
	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	981.1	61.2	60.9	3.9	126.9	8.1			31.7	2.0				
2	965.4	62.6	60.9	4.0	126.9	8.2			31.7	2.1				
3	957.0	61.4	60.9	3.9	126.9	8.1			31.7	2.0				
4	956.4	61.7	59.6	3.8	124.3	8.0			13.2	0.9				
5	971.0	61.8	60.9	3.9	216.8	13.7			14.5	0.9				
6	924.3	60.0	58.4	3.8	224.9	14.6			30.4	2.0				
7	1007.0	64.3	60.9	3.9	234.7	16.0			31.7	2.0				
8	985.8	63.8	60.9	3.9	234.7	15.2			31.7	2.1				
9	1044.3	66.9	60.9	3.9	234.7	15.0			31.7	2.0				
10	1164.7	76.1	60.9	4.0	234.7	16.3			31.7	2.1				
11	1186.5	77.5	60.9	4.0	234.7	15.3			31.7	2.1				
12	1074.4	70.5	60.9	4.0	234.8	15.4			31.7	2.1				
13	1070.1	69.7	60.9	4.0	234.8	15.3			31.7	2.1				
14	1089.5	72.4	60.9	4.0	234.8	15.6			31.7	2.1				
15	1102.4	71.7	60.9	4.0	234.8	15.3			31.7	2.1				
16	1095.3	72.2	60.9	4.0	234.8	15.5			31.7	2.1				
17	1053.4	68.6	60.9	4.0	234.8	15.3			31.7	2.1				
18	1022.3	66.8	60.9	4.0	234.8	15.4			31.7	2.1				
19	1075.2	69.6	60.9	3.9	234.8	15.2			31.7	2.1				
20	1065.0	70.8	60.9	4.1	234.8	15.6			31.7	2.1				
21	1120.1	71.8	60.9	3.9	234.8	15.1			31.7	2.0				
22	1089.1	71.4	60.9	4.0	222.1	14.6			31.7	2.1				
23	985.3	62.7	60.9	3.9	184.0	11.7			31.7	2.0				
24	1029.1	65.4	60.9	3.9	184.0	11.7			31.7	2.0				
25	1042.7	66.2	60.9	3.9	184.0	11.7			31.7	2.0				
26	1020.0	65.8	59.6	3.8	184.0	11.9			31.7	2.0				
27	1043.7	67.0	60.9	3.9	184.0	11.8			31.7	2.0				
28	1059.9	69.4	60.9	4.0	184.0	12.0			31.7	2.1				
29	1070.3	69.0	60.9	3.9	184.0	11.9			31.7	2.0				
30	1051.7	68.8	60.9	4.0	184.0	12.0			31.7	2.1				
31	1004.1	64.6	60.9	3.9	184.0	11.8			31.7	2.0				
TOTAL	32,287.1		1,882.8		6,345.3		0.0		945.8		0.0		0.0	
AVERAGE	1,041.5	67.5	60.7	3.9	204.7	13.3	#DIV/0!	#DIV/0!	30.5	2.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 08/2013

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
							TOTAL	FREE	TOTAL	FREE					
1	8.01	7.98	7.86	160	165	231	235	0.98	0.88	2.02	1.96	2.53	0.10	0.05	
2	8.00	7.95	7.84	164	170	231	226	0.85	0.77	1.83	1.75	2.45	0.09	0.05	
3	7.99	7.93	7.84	169	173	233	229	0.89	0.80	1.91	1.83	2.21	0.11	0.05	
4	7.98	7.97	7.86	168	173	238	232	0.93	0.84	1.95	1.87	2.13	0.11	0.05	
5	8.00	7.98	7.88	165	169	242	238	1.04	0.95	2.02	1.94	2.04	0.10	0.05	
6	8.01	7.98	7.87	172	180	240	240	0.85	0.74	1.96	1.87	2.07	0.10	0.05	
7	8.05	7.99	7.89	185	187	238	236	0.83	0.72	1.90	1.86	1.95	0.09	0.05	
8	8.02	7.97	7.87	171	175	234	239	0.87	0.78	1.94	1.85	1.87	0.12	0.05	
9	7.97	7.89	7.82	171	169	235	239	0.73	0.63	1.87	1.79	5.26	0.16	0.06	
10	7.76	7.69	7.67	133	139	198	201	0.73	0.63	1.95	1.88	90.60	0.14	0.06	
11	7.74	7.68	7.62	142	138	201	204	0.93	0.83	2.02	1.92	65.70	0.13	0.05	
12	7.79	7.70	7.65	147	144	203	207	1.17	1.07	2.03	1.93	39.30	0.19	0.06	
13	7.82	7.74	7.70	137	139	213	218	1.01	0.90	1.95	1.86	21.80	0.20	0.06	
14	7.84	7.73	7.66	150	150	215	218	1.01	0.88	2.02	1.92	18.40	0.19	0.06	
15	7.91	7.75	7.66	135	138	211	216	0.94	0.85	1.97	1.88	14.30	0.16	0.05	
16	7.88	7.73	7.66	139	143	205	208	1.23	1.14	2.02	1.93	10.10	0.20	0.05	
17	7.85	7.72	7.65	139	142	212	216	1.18	1.10	1.97	1.89	7.85	0.14	0.05	
18	7.83	7.73	7.64	151	146	212	218	1.00	0.91	1.96	1.88	6.36	0.12	0.05	
19	7.84	7.72	7.66	150	147	208	213	0.93	0.87	1.81	1.75	5.30	0.16	0.05	
20	7.83	7.75	7.70	145	140	212	214	0.98	0.88	2.08	1.97	12.10	0.19	0.06	
21	7.77	7.77	7.68	158	155	205	202	0.87	0.76	1.90	1.83	13.10	0.17	0.06	
22	7.75	7.76	7.66	136	141	206	210	0.98	0.89	1.99	1.93	10.00	0.18	0.05	
23	7.74	7.68	7.61	140	136	203	207	1.10	1.01	2.02	1.91	8.56	0.14	0.05	
24	7.70	7.62	7.60	132	135	195	198	1.08	0.99	1.98	1.90	15.20	0.14	0.06	
25	7.63	7.60	7.57	130	134	184	187	0.99	0.91	1.95	1.85	15.50	0.16	0.05	
26	7.58	7.56	7.56	127	125	180	184	1.10	1.04	2.06	2.01	17.20	0.22	0.07	
27	7.54	7.65	7.55	128	123	175	170	0.96	0.86	1.98	1.98	14.40	0.23	0.05	
28	7.52	7.58	7.53	138	133	175	169	0.96	0.84	1.94	1.87	12.10	0.16	0.05	
29	7.47	7.55	7.52	124	120	175	179	1.05	0.96	1.96	1.87	10.80	0.16	0.05	
30	7.40	7.48	7.42	115	118	167	171	1.09	0.98	2.04	1.95	9.17	0.15	0.05	
31	7.44	7.49	7.45	118	120	168	168	1.16	1.05	2.04	1.93	8.09	0.12	0.05	
AVERAGE	7.8	7.8	7.7	146	147	208	209	0.98	0.89	1.97	1.89	14.47	0.15	0.05	

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 08/2013

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
		1	2.53		0.11	0.13						0.06	0.06	0.07	
2	2.45		0.10	0.13						0.05	0.06	0.10	0.06		0.06
3	2.21		0.15	0.16						0.05	0.05	0.06	0.05		0.05
4	2.13		0.12	0.14						0.06	0.06	0.16	0.05		0.05
5	2.04		0.11	0.17						0.06	0.06	0.07	0.06		0.05
6	2.07		0.09	0.17						0.06	0.06	0.07	0.06		0.05
7	1.95		0.10	0.12						0.06	0.06	0.07	0.06		0.05
8	1.87		0.12	0.17						0.06	0.06	0.07	0.05		0.05
9	5.26		0.23	0.28						0.08	0.09	0.14	0.08		0.08
10	90.60		0.19	0.31						0.07	0.07	0.10	0.08		0.07
11	65.70		0.16	0.17						0.06	0.06	0.07	0.06		0.06
12	39.30		0.19	0.38						0.07	0.06	0.10	0.07		0.07
13	21.80		0.47	0.17						0.06	0.06	0.08	0.06		0.06
14	18.40		0.37	0.24						0.05	0.06	0.11	0.07		0.05
15	14.30		0.23	0.24						0.06	0.06	0.07	0.06		0.05
16	10.10		0.55	0.35						0.06	0.06	0.08	0.05		0.06
17	7.85		0.21	0.17						0.05	0.06	0.06	0.05		0.05
18	6.36		0.20	0.15						0.05	0.05	0.10	0.06		0.05
19	5.30		0.26	0.15						0.05	0.06	0.06	0.05		0.06
20	12.10		0.26	0.19						0.06	0.06	0.08	0.05		0.06
21	13.10		0.22	0.19						0.05	0.09	0.09	0.06		0.06
22	10.00		0.32	0.18						0.05	0.08	0.12	0.07		0.08
23	8.56		0.22	0.20						0.05	0.07	0.06	0.06		0.08
24	15.20		0.16	0.18						0.06	0.08	0.07	0.06		0.09
25	15.50		0.17	0.26						0.06	0.07	0.06	0.06		0.09
26	17.20		0.28	0.34						0.06	0.07	0.12	0.08		0.10
27	14.40		0.24	0.32						0.05	0.07	0.08	0.07		0.10
28	12.10		0.20	0.19						0.06	0.07	0.07	0.06		0.07
29	10.80		0.24	0.22						0.05	0.07	0.07	0.06		0.07
30	9.17		0.21	0.18						0.06	0.07	0.08	0.07		0.07
31	8.09		0.15	0.17						0.06	0.07	0.06	0.06		0.07
AVERAGE	14.5	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.07	0.08	0.06	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 08/2013

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F°/C°
1	0.34	0.99	0.09	0.03	0.08	0.01			1.75	0.0	24.4
2	0.43	0.97	0.06	0.03	0.09	0.01			1.70	0.0	24.6
3	0.42	0.97	0.07	0.03	0.10	0.01			1.65	0.0	24.5
4	0.29	1.02	0.05	0.03	0.08	0.01			1.70	0.0	25.2
5	0.38	1.08	0.08	0.03	0.07	0.01			1.80	0.0	24.8
6	0.45	1.02	0.07	0.03	0.07	0.01			1.65	0.0	24.6
7	0.35	1.00	0.05	0.03	0.07	0.01			1.75	0.2	25.2
8	0.43	0.97	0.05	0.03	0.09	0.01			1.65	0.0	25.4
9	0.32	1.05	0.08	0.03	0.10	0.01			1.60	1.0	24.9
10	0.00	0.81	1.02	0.03	0.47	0.01			1.70	1.3	24.3
11	0.00	0.87	0.85	0.03	0.32	0.01			1.65	0.2	24.3
12	0.00	0.98	0.48	0.03	0.22	0.01			1.80	0.7	24.3
13	0.19	0.68	0.29	0.03	0.13	0.01			1.60	0.4	24.2
14	0.04	0.73	0.31	0.03	0.13	0.01			1.75	0.0	24.1
15	0.68	1.20	0.24	0.03	0.11	0.01			1.60	0.1	24.8
16	0.21	0.97	0.16	0.03	0.08	0.01			1.75	0.0	23.9
17	0.25	1.04	0.12	0.03	0.08	0.01			1.75	0.0	24.0
18	0.24	0.98	0.10	0.03	0.06	0.01			1.70	0.7	23.9
19	0.30	1.04	0.10	0.03	0.06	0.01			1.75	0.4	23.8
20	0.18	0.91	0.22	0.03	0.22	0.01			1.80	0.3	23.7
21	0.07	1.05	0.24	0.03	0.11	0.02			1.35	0.0	24.2
22	0.18	0.93	0.15	0.03	0.09	0.01			1.75	0.4	23.9
23	0.20	1.03	0.14	0.03	0.10	0.01			1.75	2.0	24.0
24	0.13	0.93	0.24	0.03	0.11	0.01			1.75	0.0	23.9
25	0.15	0.75	0.28	0.03	0.14	0.01			1.70	0.0	24.1
26	0.06	0.66	0.22	0.03	0.14	0.01			1.75	0.0	23.8
27	0.12	0.59	0.23	0.03	0.08	0.01			1.80	0.0	24.0
28	0.16	0.61	0.19	0.03	0.11	0.01			1.85	0.0	24.0
29	0.24	0.73	0.19	0.03	0.11	0.01			1.75	0.0	23.9
30	0.20	0.80	0.17	0.03	0.12	0.01			1.70	0.0	24.0
31	0.18	1.22	0.15	0.03	0.12	0.01			1.85	0.2	24.3
AVERAGE	0.23	0.92	0.22	0.03	0.12	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	24.3
									1.35		
									Number of readings	31	7.63
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID : A  
 REPORT MONTH/YEAR: 08/2013  
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DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	32,000					16,000	98.70	16,000	98.70		
3	0										
4	32,000	16,000	94.60	16,000	94.60						
5	0										
6	31,000					15,000	94.80	16,000	94.80		
7	0										
8	31,000	16,000	95.00	15,000	95.00						
9	0										
10	31,000					15,000	94.70	16,000	94.70		
11	0										
12	30,000	16,000	94.60	15,000	94.60						
13	0										
14	35,000					18,000	94.80	17,000	94.80		
15	0										
16	30,000	15,000	94.60	15,000	94.60						
17	0										
18	31,000					16,000	94.70	15,000	94.70		
19	0										
20	30,000	15,000	95.20	15,000	95.20						
21	0										
22	32,000					16,000	95.20	16,000	95.20		
23	0										
24	31,000	16,000	94.60	15,000	94.60						
25	0										
26	30,000					15,000	94.80	15,000	94.80		
27	0										
28	30,000	15,000	94.80	15,000	94.80						
29	0										
30	30,000					15,000	95.20	15,000	95.20		
31	0										
TOTAL	466,000	108,000	663.40	106,000	663.40	126,000	762.90	126,000	762.90	0	0.00
AVERAGE	15.032	15.429	94.771	15.143	94.771	15,750	95.363	15,750	95.363	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 08/2013

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DAY	DISTRIBUTION SYSTEM OPERATION											
	CHEMICALS ADDED			TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
				NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F		
1				1.40	1.32	1.32	1.24	1.46	1.36	0.70	0.57	
2				0.86	0.76	1.01	0.88	0.64	0.54	1.29	1.22	
3				0.93	0.85	1.35	1.28	1.29	1.21	0.80	0.73	
4				1.30	1.22	0.78	0.67	1.41	1.36	1.34	1.28	
5				1.42	1.34	1.09	1.05	1.46	1.41	1.16	1.10	
6				1.28	1.18	0.63	0.49	1.56	1.44	0.78	0.63	
7				1.23	1.14	1.42	1.35	1.42	1.39	1.41	1.37	
8				0.88	0.79	1.04	0.98	1.21	1.12	0.95	0.87	
9				1.34	1.24	0.97	0.87	1.35	1.26	0.73	0.63	
10				1.07	0.98	1.16	1.08	1.38	1.34	0.57	0.47	
11				1.14	1.06	0.94	0.88	1.40	1.30	1.09	1.01	
12				1.03	0.95	1.05	0.95	1.37	1.26	1.41	1.31	
13				1.20	1.11	1.27	1.18	1.38	1.28	1.24	1.09	
14				1.28	1.18	1.34	1.23	1.40	1.30	1.31	1.21	
15				1.46	1.36	1.10	1.02	1.37	1.27	1.05	0.93	
16				1.02	0.91	1.38	1.28	0.86	0.76	0.98	0.92	
17				1.28	1.19	1.37	1.29	1.19	1.10	1.30	1.22	
18				1.43	1.34	0.53	0.48	1.46	1.40	1.17	1.07	
19				1.48	1.39	1.46	1.36	1.44	1.40	0.88	0.59	
20				1.41	1.32	1.04	0.94	0.54	0.43	0.68	0.53	
21				1.41	1.34	1.35	1.21	1.53	1.48	1.19	1.13	
22				0.98	0.87	0.47	0.37	1.47	1.38	1.22	1.12	
23				1.30	1.22	1.32	1.23	0.91	0.85	0.28	0.20	
24				1.17	1.09	0.92	0.80	1.00	0.93	1.54	1.45	
25				1.10	1.05	1.37	1.32	1.15	1.06	1.25	1.17	
26				1.08	0.97	1.06	1.00	1.09	1.04	1.32	1.28	
27				1.40	1.36	0.98	0.95	1.10	1.04	1.25	1.20	
28				1.17	1.11	1.32	1.26	1.08	1.00	1.34	1.28	
29				1.40	1.29	0.89	0.82	1.37	1.31	1.21	1.15	
30				1.29	1.18	0.50	0.42	1.08	0.98	1.18	1.05	
31				0.98	0.86	1.38	1.32	1.52	1.46	1.38	1.30	
AVERAGE	#DIV/OI	#DIV/OI	Average	1.22	1.13	1.09	1.01	1.25	1.18	1.09	1.00	
TOTAL	0.0	0.0	Total	0.86				0.54		0.28		
			Free Minimum		0.76		0.37		0.43		0.20	

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	1	0	0	0	0	1	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.20
Number of Total Residuals	124	Minimum Monthly Total Residual	0.28
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) N  
 Number of days of operation? 31

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 08/2013

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.05	0.05	0.05	0.04	0.04	0.04	0.053	
2	24.0	6	0.05	0.06	0.05	0.04	0.04	0.04	0.060	
3	24.0	6	0.04	0.04	0.05	0.03	0.04	0.04	0.050	
4	23.5	6	0.04	0.04	0.04	0.04	0.04	0.05	0.047	
5	24.0	6	0.05	0.05	0.05	0.04	0.04	0.04	0.051	
6	23.0	6	0.05	0.05	0.04	0.04	0.04	0.05	0.050	
7	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.048	
8	24.0	6	0.05	0.05	0.05	0.04	0.05	0.05	0.049	
9	24.0	6	0.05	0.05	0.05	0.05	0.07	0.08	0.080	
10	24.0	6	0.07	0.06	0.05	0.05	0.05	0.05	0.070	
11	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.056	
12	24.0	6	0.06	0.06	0.06	0.05	0.05	0.07	0.068	
13	24.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.059	
14	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.054	
15	24.0	6	0.05	0.05	0.05	0.04	0.05	0.05	0.050	
16	24.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.060	
17	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
18	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
19	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.056	
20	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
21	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
22	24.0	6	0.07	0.08	0.06	0.06	0.08	0.07	0.082	
23	24.0	6	0.07	0.07	0.07	0.07	0.07	0.08	0.080	
24	24.0	6	0.08	0.09	0.09	0.08	0.08	0.08	0.090	
25	24.0	6	0.08	0.08	0.09	0.07	0.07	0.08	0.085	
26	23.5	6	0.08	0.10	0.10	0.09	0.08	0.09	0.102	
27	24.0	6	0.09	0.10	0.09	0.08	0.06	0.06	0.099	
28	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.070	
29	24.0	6	0.06	0.06	0.07	0.06	0.06	0.07	0.070	
30	24.0	6	0.06	0.07	0.06	0.06	0.05	0.06	0.070	
31	24.0	6	0.06	0.06	0.06	0.06	0.07	0.06	0.070	
Total	742.0	186	TOTAL # OF TURBIDITY SAMPLES TAKEN --						186	0.102

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 2 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding --> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Carl T. Alday 09-05-2013  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

08/2013

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>57,397,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,851,516</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,888,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N) _____	<input type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY	ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION
APPLICABLE TO ALL PLANTS WITH FILTRATION	APPLICABLE TO ALL PLANTS
ANALYTE CODE <u>0100</u>	ANALYTE CODE <u>0999</u>
Number of hours of plant operation <u>742.0</u>	Number of days of plant operation <u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N) <input checked="" type="checkbox"/>	Were samples taken each day of operation? (Y/N) <input checked="" type="checkbox"/>
Number of samples taken <u>186</u>	Number of lowest chlorine samples recorded <u>31</u>
Highest single turbidity reading <u>0.10</u>	Lowest single chlorine reading <u>1.35</u>
For all filtration except slow sand filtration:	If less than required:
Number of samples exceeded 0.1 NTU <u>2</u>	Was residual restored within 4 hours of plant operation? (Y/N) <input type="checkbox"/>
Number of samples exceeded 0.3 NTU <u>0</u>	<u>Free Chlorine</u> (for all disinfectants except chloramine):
Number of samples exceeded 1 NTU <u>0</u>	Number of samples under 0.2 mg/L <u>0</u>
When filtration is slow sand filtration:	<u>Total Chlorine</u> (when disinfectant is Chloramine):
Number of samples exceeded 1 NTU _____	Number of samples under 0.5 mg/L _____
Number of samples exceeded 5 NTU _____	

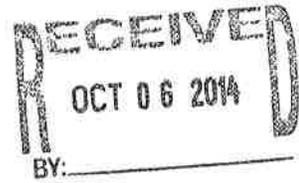
CHLORINE DIOXIDE ENTRY POINT MONITORING	CHLORITE ENTRY POINT MONITORING
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE
ANALYTE CODE <u>1008</u>	ANALYTE CODE <u>1009</u>
Number of days of plant operation <u>31</u>	Number of days of plant operation <u>31</u>
Were samples taken each day of operation? (Y/N) <input type="checkbox"/>	Were samples taken each day of operation? (Y/N) <input type="checkbox"/>
Number of samples taken <u>0</u>	Number of samples taken <u>0</u>
Highest single chlorine dioxide reading <u>0.00</u>	Highest single chlorite reading <u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>	Number of chlorite samples exceeded 1 mg/L <u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

East T. Alley  
Signature of Principal Executive Officer or Authorized Agent

09-05-2014  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 09/2014

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	10-03-2014	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

**TREATMENT PLANTS COMPLETE:**

1. DESIGN CAPACITY (gpm):	1,667
2. TYPE OF FILTRATION USED:	Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	2.66
4. PERCENT BACKWASH WATER USED:	0.9
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	#2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED:	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

10-03-2014  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 09/2014

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,853,000	23.5	265.4	17.2	4.1	0.3			848.6	54.9	170.0	11.0
2	1,864,000	24.0	257.4	16.6	4.2	0.3			853.0	54.9	172.8	11.1
3	1,827,000	24.0	257.4	16.9	4.2	0.3			843.7	55.4	173.0	11.4
4	1,860,000	24.0	224.2	14.5	4.2	0.3			868.2	56.0	173.3	11.2
5	1,855,000	24.0	224.2	14.5	4.2	0.3			853.1	55.1	182.0	11.8
6	1,859,000	24.0	224.2	14.5	4.2	0.3			854.5	55.1	177.3	11.4
7	1,827,000	24.0	224.2	14.7	4.2	0.3			857.6	56.3	183.2	12.0
8	1,852,000	24.0	224.2	14.5	4.2	0.3			869.0	58.3	169.2	11.0
9	1,845,000	23.5	219.5	14.3	2.3	0.1			830.4	54.0	162.2	10.5
10	1,843,000	24.0	224.2	14.6	0.0				831.0	54.1	169.2	11.0
11	1,826,000	24.0	224.2	14.7	0.0				781.0	51.3	169.2	11.1
12	1,857,000	24.0	224.2	14.5	0.0				754.3	48.7	169.2	10.9
13	1,793,000	24.0	224.2	15.0	0.0				684.3	45.8	169.2	11.3
14	1,838,000	24.0	224.2	14.6	0.0				733.9	47.9	165.5	10.8
15	1,794,000	24.0	224.2	15.0	0.0				694.6	46.4	159.8	10.7
16	1,840,000	24.0	224.2	14.6	1.1	0.1			589.9	38.4	159.8	10.4
17	1,788,000	24.0	224.2	15.0	4.2	0.3			598.8	40.2	171.4	11.5
18	1,825,000	24.0	224.2	14.7	4.2	0.3			608.0	39.9	168.4	11.1
19	1,798,000	24.0	224.2	15.0	4.2	0.3			560.4	37.4	174.5	11.6
20	1,841,000	24.0	224.2	14.6	4.2	0.3			581.1	37.8	189.4	12.3
21	1,800,000	24.0	224.2	14.9	4.2	0.3			551.2	36.7	177.3	11.8
22	1,841,000	24.0	224.2	14.6	4.2	0.3			555.8	36.2	167.3	10.9
23	1,788,000	24.0	181.0	12.1	4.2	0.3			596.7	40.0	190.0	12.7
24	1,828,000	24.0	155.0	10.2	4.2	0.3			632.3	41.5	190.0	12.5
25	1,785,000	24.0	155.0	10.4	4.2	0.3			623.8	41.9	201.9	13.6
26	1,817,000	24.0	155.0	10.2	4.2	0.3			596.6	39.4	199.2	13.1
27	1,773,000	24.0	155.0	10.5	4.2	0.3			591.9	40.0	183.3	12.4
28	1,772,000	24.0	155.0	10.5	4.2	0.3			555.8	37.6	161.9	11.0
29	1,760,000	23.5	151.8	10.3	4.1	0.3			569.1	38.8	158.2	10.8
30	1,750,000	24.0	155.0	10.6	4.2	0.3			546.8	37.5	159.8	10.9
31												
TOTAL	54,599,000		6298.3		95.5		0.0		20915.4		5217.5	
AVERAGE	1,819,967		209.9	13.8	3.2	0.3	#DIV/0!	#DIV/0!	697.2	45.8	173.9	11.5
MAX	1,864,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 09/2014

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

CHEMICALS ADDED														
DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
							LBS	PPM						
1	1018.6	65.9	59.6	3.9	180.2	11.7			31.0	2.0				
2	1031.8	66.4	60.9	3.9	184.0	11.8			31.7	2.0				
3	1016.7	66.7	60.9	4.0	184.0	12.1			31.7	2.1				
4	1041.5	67.1	60.9	3.9	184.0	11.9			31.7	2.0				
5	1035.1	66.9	60.9	3.9	184.0	11.9			31.7	2.0				
6	1031.8	66.6	60.9	3.9	184.0	11.9			31.7	2.0				
7	1040.8	68.3	60.9	4.0	184.0	12.1			31.7	2.1				
8	1038.2	67.2	60.9	3.9	184.0	11.9			31.7	2.1				
9	992.6	64.5	59.6	3.9	126.6	8.2			31.0	2.0				
10	1000.2	65.1	60.9	4.0	0.0				31.7	2.1				
11	950.2	62.4	60.9	4.0	0.0				31.7	2.1				
12	923.5	59.6	60.9	3.9	0.0				22.5	1.5				
13	853.5	57.1	60.9	4.1	39.7	2.7			6.6	0.4				
14	899.4	58.7	60.9	4.0	95.1	6.2			15.8	1.0				
15	854.4	57.1	60.9	4.1	95.1	6.4			15.8	1.1				
16	749.7	48.9	60.9	4.0	95.1	6.2			15.8	1.0				
17	770.2	51.6	60.9	4.1	95.1	6.4			15.8	1.1				
18	776.4	51.0	60.9	4.0	95.1	6.2			15.8	1.0				
19	734.9	49.0	60.9	4.1	95.1	6.3			15.8	1.1				
20	770.5	50.2	60.9	4.0	95.1	6.2			15.8	1.0				
21	728.5	48.5	60.9	4.1	95.1	6.3			15.8	1.1				
22	723.1	47.1	60.9	4.0	95.1	6.2			15.8	1.0				
23	786.7	52.8	60.9	4.1	95.1	6.4			15.8	1.1				
24	822.3	53.9	60.9	4.0	95.1	6.2			15.8	1.0				
25	825.7	55.5	60.9	4.1	95.1	6.4			15.8	1.1				
26	795.8	52.5	60.9	4.0	95.2	6.3			15.9	1.0				
27	775.2	52.4	60.9	4.1	95.2	6.4			15.9	1.1				
28	717.7	48.8	60.9	4.1	95.2	6.4			15.9	1.1				
29	727.3	49.5	59.6	4.1	93.3	6.4			15.6	1.1				
30	706.6	48.4	60.9	4.2	95.2	6.5			15.9	1.1				
TOTAL	26,138.0		1,823.1		3,249.6		0.0		645.3		0.0		0.0	
AVERAGE	871.3	57.3	60.8	4.0	108.3	7.9	#DIV/0!	#DIV/0!	21.5	1.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 09/2014

PAGE 3 OF 11

DAY	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.45	7.54	7.46	103	107	176	179	1.03	0.96	1.92	1.83	6.71	0.15	0.05
2	7.45	7.51	7.44	109	113	177	181	1.12	1.03	2.06	1.97	5.74	0.14	0.05
3	7.43	7.53	7.43	127	121	180	175	1.08	0.96	2.02	1.94	5.44	0.14	0.05
4	7.46	7.52	7.42	125	120	170	167	1.15	1.04	2.04	1.96	4.67	0.13	0.05
5	7.39	7.53	7.44	117	115	182	185	0.99	0.89	1.94	1.85	4.76	0.13	0.05
6	7.45	7.50	7.44	116	114	184	187	1.12	1.04	2.04	1.93	5.07	0.11	0.05
7	7.45	7.52	7.46	117	119	183	186	1.06	0.98	1.97	1.90	5.49	0.10	0.05
8	7.45	7.55	7.44	114	116	177	182	1.30	1.23	2.01	1.95	6.21	0.15	0.05
9	7.46	7.56	7.44	108	112	182	186	1.09	1.02	1.99	1.89	6.15	0.13	0.05
10	7.58	7.66	7.52	108	114	180	178	1.20	1.09	2.08	1.97	6.17	0.14	0.06
11	7.59	7.62	7.51	110	115	177	173	1.13	1.02	2.00	1.92	5.34	0.15	0.06
12	7.59	7.63	7.52	116	120	180	186	1.03	0.97	1.95	1.85	8.46	0.19	0.05
13	7.61	7.65	7.54	110	116	190	184	1.05	0.94	2.00	1.91	9.10	0.15	0.06
14	7.69	7.67	7.57	120	118	185	180	1.06	0.97	2.04	1.94	4.25	0.14	0.05
15	7.69	7.70	7.60	121	125	185	190	1.15	1.07	1.99	1.90	4.93	0.17	0.06
16	7.75	7.75	7.62	115	119	185	189	1.10	1.03	1.99	1.91	4.04	0.12	0.05
17	7.75	7.76	7.63	128	122	195	190	1.00	0.89	1.94	1.87	3.78	0.13	0.05
18	7.74	7.78	7.67	130	128	195	188	1.06	0.98	1.97	1.92	3.04	0.15	0.06
19	7.76	7.79	7.66	120	123	191	195	0.89	0.82	1.87	1.79	2.70	0.13	0.06
20	7.77	7.81	7.68	126	130	196	200	0.93	0.85	1.92	1.86	2.45	0.12	0.05
21	7.80	7.82	7.69	128	131	192	197	0.94	0.87	1.90	1.82	2.23	0.11	0.05
22	7.81	7.81	7.74	129	133	200	204	0.85	0.78	1.92	1.83	2.18	0.11	0.05
23	7.85	7.84	7.79	135	139	208	211	0.82	0.76	1.87	1.81	1.93	0.11	0.05
24	7.84	7.90	7.80	135	130	220	208	0.91	0.81	1.91	1.83	1.65	0.11	0.05
25	7.87	7.87	7.78	135	131	210	200	0.92	0.82	1.95	1.88	1.44	0.10	0.05
26	7.88	7.86	7.79	145	141	210	214	1.09	1.02	2.03	1.95	1.42	0.10	0.05
27	7.86	7.83	7.77	133	136	208	211	0.99	0.91	2.05	1.96	1.48	0.10	0.05
28	7.86	7.82	7.78	135	138	204	208	0.98	0.91	2.01	1.94	1.31	0.09	0.05
29	7.85	7.84	7.78	126	129	208	213	1.01	0.93	2.01	1.95	1.29	0.10	0.05
30	7.83	7.86	7.78	130	133	197	202	1.12	1.05	2.04	1.97	1.23	0.10	0.05
31														
AVERAGE	7.7	7.7	7.6	122	124	191	192	1.04	0.95	1.98	1.90	4.02	0.13	0.05

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 09/2014

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	6.71		0.22	0.17						0.06	0.07	0.06	0.06		0.07
2	5.74		0.15	0.24						0.06	0.06	0.06	0.06		0.07
3	5.44		0.14	0.24						0.05	0.06	0.09	0.09		0.07
4	4.67		0.18	0.16						0.05	0.06	0.06	0.06		0.05
5	4.76		0.16	0.18						0.05	0.06	0.06	0.06		0.06
6	5.07		0.15	0.12						0.05	0.06	0.06	0.06		0.06
7	5.49		0.13	0.15						0.06	0.05	0.10	0.06		0.06
8	6.21		0.17	0.31						0.05	0.06	0.06	0.06		0.06
9	6.15		0.14	0.16						0.06	0.07	0.08	0.06		0.07
10	6.17		0.13	0.26						0.06	0.07	0.08	0.06		0.07
11	5.34		0.17	0.25						0.06	0.06	0.08	0.08		0.09
12	8.46		0.23	0.60						0.06	0.06	0.10	0.09		0.08
13	9.10		0.21	0.33						0.07	0.07	0.08	0.08		0.07
14	4.25		0.14	0.34						0.06	0.06	0.08	0.10		0.07
15	4.93		0.22	0.45						0.06	0.06	0.12	0.11		0.07
16	4.04		0.13	0.22						0.06	0.06	0.07	0.07		0.06
17	3.78		0.14	0.17						0.07	0.07	0.09	0.05		0.07
18	3.04		0.19	0.19						0.06	0.06	0.09	0.05		0.08
19	2.70		0.16	0.16						0.06	0.06	0.09	0.06		0.07
20	2.45		0.12	0.17						0.06	0.06	0.07	0.05		0.07
21	2.23		0.13	0.16						0.07	0.07	0.07	0.04		0.08
22	2.18		0.10	0.15						0.06	0.07	0.08	0.04		0.09
23	1.93		0.10	0.17						0.06	0.07	0.09	0.06		0.06
24	1.65		0.12	0.15						0.06	0.07	0.07	0.05		0.05
25	1.44		0.09	0.13						0.06	0.08	0.07	0.04		0.05
26	1.42		0.11	0.15						0.06	0.07	0.07	0.04		0.05
27	1.48		0.12	0.13						0.06	0.07	0.08	0.05		0.05
28	1.31		0.15	0.10						0.06	0.06	0.06	0.04		0.04
29	1.29		0.13	0.14						0.07	0.06	0.06	0.04		0.05
30	1.23		0.12	0.12						0.06	0.06	0.07	0.04		0.05
AVERAGE	4.0	#DIV/0!	0.1	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.08	0.06	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 09/2014

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)										
1	0.29	1.06	0.19	0.03	0.11	0.01			1.80	0.8	24.1
2	0.27	1.06	0.10	0.03	0.13	0.01			1.85	0.1	24.2
3	0.25	1.00	0.03	0.03	0.14	0.01			1.70	0.8	24.4
4	0.15	0.93	0.26	0.03	0.13	0.01			1.75	0.0	24.0
5	0.24	1.07	0.10	0.03	0.13	0.01			1.75	0.2	24.3
6	0.25	1.04	0.09	0.03	0.20	0.01			1.75	0.2	24.3
7	0.27	1.08	0.09	0.03	0.14	0.01			1.65	0.2	24.4
8	0.18	1.03	0.11	0.03	0.13	0.01			1.75	0.0	24.3
9	0.27	0.96	0.11	0.03	0.14	0.01			1.75	0.0	24.4
10	0.32	1.09	0.11	0.03	0.10	0.01			1.85	0.0	24.7
11	0.36	0.98	0.12	0.03	0.09	0.01			1.70	0.5	24.4
12	0.22	1.08	0.16	0.03	0.08	0.01			1.80	0.8	24.4
13	0.22	1.06	0.16	0.03	0.11	0.01			1.70	0.0	24.5
14	0.26	0.93	0.07	0.03	0.08	0.01			1.78	0.0	24.1
15	0.17	1.03	0.10	0.03	0.06	0.01			1.75	0.0	23.1
16	0.27	1.08	0.09	0.03	0.05	0.01			1.80	0.1	23.1
17	0.37	0.99	0.12	0.03	0.07	0.01			1.75	0.0	22.9
18	0.31	1.06	0.09	0.03	0.05	0.01			1.70	0.0	22.3
19	0.35	1.13	0.08	0.03	0.05	0.01			1.75	0.0	22.3
20	0.30	1.01	0.09	0.03	0.07	0.01			1.80	0.0	22.1
21	0.27	0.89	0.09	0.03	0.03	0.01			1.70	0.0	22.0
22	0.33	1.07	0.08	0.03	0.02	0.01			1.75	0.0	22.1
23	0.29	0.86	0.08	0.03	0.04	0.01			1.75	0.0	22.1
24	0.40	0.73	0.14	0.03	0.06	0.01			1.80	0.0	21.6
25	0.29	0.70	0.04	0.03	0.07	0.01			1.75	0.0	21.5
26	0.28	0.76	0.04	0.03	0.03	0.01			1.80	0.0	21.5
27	0.37	0.83	0.05	0.03	0.03	0.01			1.75	0.0	21.7
28	0.30	0.77	0.04	0.03	0.04	0.01			1.75	0.0	22.0
29	0.24	0.81	0.06	0.03	0.03	0.01			1.75	0.0	22.0
30	0.32	0.92	0.05	0.03	0.04	0.01			1.80	0.0	21.6
31											
AVERAGE	0.28	0.97	0.10	0.03	0.08	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	23.1

	1.85	
Number of readings	30	3.56
For Free Chlorine, # less than 0.2 mg/L	0	
For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)  N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 09/2014

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DAY	WATER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)	180	AREA (square feet)	160	AREA (square feet)	160	AREA (square feet)	FILT RUN HRS
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	30,000	15,000	94.90	15,000	94.90						
2	0										
3	34,000					17,000	95.70	17,000	95.70		
4	0										
5	30,000	15,000	95	15000.00	95						
6	0										
7	30,000					15,000	93.90	15,000	94.00		
8	0										
9	30,000	15,000	94.80	15,000	94.80						
10	0										
11	30,000					15,000	95.00	15,000	95.00		
12	0										
13	34,000	17,000	96.50	17,000	96.50						
14	0										
15	36,000					18,000	95.10	18,000	95.10		
16	0										
17	34,000	17,000	94.10	17,000	94.10						
18	0										
19	38,000					19,000	95.30	19,000	95.30		
20	0										
21	34,000	17,000	95.20	17,000	95.10						
22	0										
23	40,000					20,000	95.00	20,000	95.00		
24	0										
25	34,000	17,000	95.80	17,000	95.80						
26	0										
27	32,000					16,000	94.80	16,000	94.90		
28	0										
29	30,000	15,000	94.20	15,000	94.20						
30	0										
31	0										
TOTAL	496,000	128,000	760.70	128,000	760.60	120,000	664.80	120,000	665.00	0	0.00
AVERAGE	16,000	16,000	95.088	16,000	95.075	17,143	94.971	17,143	95.000	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 09/2014

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DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1			0.99	0.85	1.01	0.96	1.06	0.98	1.38	1.28	
2			1.40	1.36	1.44	1.39	1.41	1.34	1.36	1.29	
3			1.48	1.46	0.88	0.81	1.46	1.35	0.96	0.87	
4			1.25	1.14	1.39	1.28	1.22	1.14	1.16	1.07	
5			1.33	1.22	1.48	1.44	1.09	0.99	1.37	1.28	
6			1.05	0.97	1.20	1.09	1.11	1.01	1.41	1.34	
7			1.05	1.01	1.20	1.14	1.09	1.01	1.30	1.23	
8			1.59	1.48	1.56	1.47	1.52	1.42	1.34	1.22	
9			1.36	1.26	1.22	1.16	1.53	1.50	1.51	1.46	
10			1.51	1.39	1.14	1.11	1.36	1.33	1.42	1.31	
11			1.57	1.49	1.00	0.73	1.47	1.35	1.02	0.98	
12			1.20	1.09	0.75	0.70	1.42	1.38	1.38	1.30	
13			1.22	1.13	0.80	0.72	1.11	1.05	1.55	1.50	
14			1.20	1.13	1.54	1.51	1.30	1.24	1.31	1.26	
15			1.49	1.41	1.56	1.44	1.37	1.30	0.97	0.89	
16			1.31	1.22	0.84	0.86	1.04	0.95	1.47	1.38	
17			1.29	1.21	1.59	1.56	1.15	1.09	1.29	1.22	
18			1.38	1.34	1.09	1.06	1.56	1.44	0.99	0.95	
19			1.36	1.33	0.65	0.60	1.20	1.15	1.52	1.49	
20			1.37	1.33	0.66	0.61	0.97	0.92	1.46	1.43	
21			0.73	0.61	1.23	1.18	1.10	1.06	1.18	1.09	
22			1.23	1.33	1.37	1.47	1.00	1.08	1.37	1.45	
23			1.12	1.05	0.91	0.87	1.08	1.04	1.23	1.20	
24			1.14	1.08	0.63	0.50	1.27	1.20	1.31	1.26	
25			1.31	1.26	0.57	0.52	1.49	1.40	1.52	1.43	
26			1.43	1.37	1.24	1.18	1.20	1.16	1.35	1.26	
27			1.30	1.28	0.72	0.65	1.43	1.36	1.42	1.34	
28			1.01	0.93	0.72	0.65	1.05	0.98	1.43	1.35	
29			1.56	1.45	1.51	1.44	1.65	1.55	1.65	1.55	
30			1.29	1.18	0.50	0.42	1.08	0.98	1.18	1.05	
31											
AVERAGE	#DIV/0!	#DIV/0!	Average	1.28	1.21	1.08	1.02	1.26	1.19	1.33	1.26
TOTAL	0.0	0.0	Total Minimum	0.73		0.50		0.97		0.96	
			Free Minimum		0.61		0.42		0.92		0.87

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	0	0	0	0	0	0	0	0	0
Number of Free Residuals	120		Minimum Monthly Free Residual	0.42					
Number of Total Residuals	120		Minimum Monthly Total Residual	0.50					
Total # Less than 0.2 mg/L	0								
Total # Less than 0.5 mg/L									
				Disinfectant Chloramines? (Y/N)		N			
				Number of days of operation?		30			

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

PWS ID : KY0800273  
 PLANT ID : A

**TURBIDITY REPORT**

**APPLICABLE TO ALL PLANTS WITH FILTRATION**

Report Period (MM/YYYY): 09/2014

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - MID	Daily Maximum	
1	23.5	6	0.06	0.07	0.06	0.06	0.06	0.06	0.065	
2	24.0	6	0.06	0.06	0.07	0.05	0.06	0.06	0.065	
3	24.0	6	0.06	0.07	0.06	0.05	0.05	0.06	0.072	
4	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
5	24.0	6	0.05	0.06	0.06	0.05	0.05	0.05	0.060	
6	24.0	6	0.05	0.06	0.06	0.05	0.05	0.05	0.060	
7	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.060	
8	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
9	23.5	6	0.06	0.07	0.07	0.06	0.06	0.06	0.068	
10	24.0	6	0.07	0.07	0.07	0.05	0.06	0.06	0.070	
11	24.0	6	0.06	0.07	0.09	0.06	0.05	0.06	0.090	
12	24.0	6	0.06	0.06	0.08	0.07	0.06	0.06	0.084	
13	24.0	6	0.06	0.07	0.07	0.06	0.06	0.06	0.072	
14	24.0	6	0.07	0.06	0.07	0.05	0.05	0.06	0.066	
15	24.0	6	0.07	0.07	0.06	0.05	0.05	0.06	0.071	
16	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
17	24.0	6	0.06	0.06	0.07	0.06	0.06	0.07	0.069	
18	24.0	6	0.07	0.08	0.07	0.06	0.07	0.07	0.075	
19	24.0	6	0.07	0.07	0.07	0.07	0.06	0.07	0.074	
20	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
21	24.0	6	0.06	0.07	0.08	0.07	0.08	0.07	0.077	
22	24.0	6	0.09	0.09	0.09	0.08	0.08	0.06	0.086	
23	24.0	6	0.06	0.05	0.06	0.04	0.04	0.05	0.060	
24	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.052	
25	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.050	
26	24.0	6	0.05	0.05	0.05	0.04	0.04	0.04	0.050	
27	24.0	6	0.04	0.05	0.04	0.04	0.04	0.04	0.050	
28	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.040	
29	23.5	6	0.04	0.04	0.04	0.04	0.04	0.05	0.049	
30	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
31	0.0	0							0.000	
<b>Total</b>	<b>718.5</b>	<b>180</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>180</b>	<b>0.090</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU 0 5 NTU 0

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Evelyn T. Ashley Signature of Principal Executive Officer or Authorized Agent 10-03-2014 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

09/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>54,599,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,819,967</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,864,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Were measurements recorded every 15 minutes? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Number of hours of plant operation	<u>718.5</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>180</u>
Highest single turbidity reading	<u>0.09</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU	<u>0</u>
Number of samples exceeded 0.3 NTU	<u>0</u>
Number of samples exceeded 1 NTU	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION	
APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0999</u>
Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Number of lowest chlorine samples recorded	<u>30</u>
Lowest single chlorine reading	<u>1.65</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L	<u>0</u>

CHLORINE DIOXIDE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>
Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>

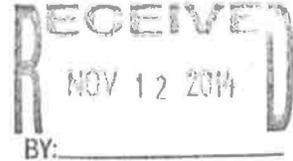
CHLORITE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Number of samples taken	<u>0</u>
Highest single chlorite reading	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

10-03-2014  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

10/2014

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	11-06-2014	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.9
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

11-05-2014  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 10/2014  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	LBS	PPM	Pre		Post	
									LBS	PPM	LBS	PPM
1	1,730,000	24.0	155.0	10.7	4.2	0.3			507.2	35.2	159.8	11.1
2	1,749,000	24.0	155.0	10.6	4.2	0.3			510.3	35.0	154.7	10.6
3	1,747,000	24.0	155.0	10.6	4.2	0.3			440.4	30.2	150.2	10.3
4	1,525,000	21.0	135.6	10.7	3.7	0.3			392.0	30.8	140.7	11.1
5	1,661,000	23.0	148.5	10.7	4.0	0.3			461.5	34.8	162.2	11.7
6	1,769,000	24.0	155.0	10.5	4.2	0.3			507.1	34.4	169.2	11.5
7	1,661,000	21.0	135.7	10.4	3.7	0.3			476.3	36.6	148.0	11.4
8	1,779,000	24.0	241.1	16.3	4.2	0.3			559.9	37.7	164.7	11.1
9	1,760,000	24.0	292.9	20.0	4.2	0.3			548.4	37.4	163.7	11.2
10	1,789,000	24.0	292.9	19.6	4.2	0.3			496.8	33.3	163.7	11.0
11	1,802,000	24.0	292.9	19.5	4.2	0.3			506.6	33.7	169.2	11.3
12	1,824,000	24.0	292.9	19.3	4.2	0.3			606.0	39.8	166.1	11.1
13	1,804,000	23.5	286.7	19.1	4.0	0.3			540.3	35.9	156.5	10.4
14	1,828,000	24.0	292.9	19.2	4.2	0.3			517.6	34.0	159.8	10.5
15	1,811,000	24.0	292.9	19.4	4.2	0.3			530.5	35.1	159.8	10.6
16	1,873,000	24.0	292.9	18.8	4.2	0.3			496.8	31.8	159.8	10.2
17	1,856,000	24.0	292.9	18.9	4.2	0.3			556.8	36.0	170.2	11.0
18	1,893,000	24.0	292.9	18.6	4.2	0.3			496.8	31.5	169.2	10.7
19	1,879,000	24.0	292.9	18.7	4.2	0.3			583.2	37.2	169.2	10.8
20	1,920,000	24.0	292.9	18.3	4.2	0.3			580.6	36.3	175.0	10.9
21	1,879,000	23.5	286.7	18.3	4.0	0.3			486.4	31.0	179.3	11.4
22	1,913,000	24.0	292.9	18.4	4.2	0.3			521.0	32.7	169.1	10.6
23	1,853,000	24.0	292.9	19.0	4.2	0.3			540.0	34.9	159.8	10.3
24	1,896,000	24.0	292.9	18.5	4.2	0.3			545.4	34.5	159.8	10.1
25	1,874,000	24.0	292.9	18.7	4.2	0.3			556.8	35.6	165.7	10.6
26	1,919,000	24.0	292.9	18.3	4.2	0.3			556.8	34.8	159.8	10.0
27	1,861,000	23.5	286.7	18.3	4.0	0.3			536.8	34.2	166.1	10.7
28	1,910,000	24.0	292.9	18.4	4.2	0.3			536.6	33.8	164.2	10.3
29	1,856,000	24.0	292.9	18.9	4.2	0.3			543.4	35.1	173.9	11.2
30	1,866,000	24.0	224.2	14.3	4.2	0.3			543.2	34.5	167.4	10.6
31	1,841,000	24.0	224.2	14.6	4.2	0.3			500.6	32.6	171.4	11.2
TOTAL	58,268,000		7861.7		128.4		0.0		16204.1		5072.2	
AVERAGE	1,815,097		253.6	16.6	4.1	0.3	#DIV/0!	#DIV/0!	522.7	34.5	163.6	10.8
MAX	1,920,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 10/2014

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
1	667.0	46.2	60.9	4.2	95.2	6.6			15.9	1.1				
2	665.0	45.6	60.9	4.2	95.2	6.5			15.9	1.1				
3	590.6	40.5	60.9	4.2	95.2	6.5			15.9	1.1				
4	532.7	41.9	53.3	4.2	83.4	6.6			13.9	1.1				
5	643.7	46.5	58.4	4.2	91.3	6.6			15.2	1.1				
6	676.3	45.8	60.9	4.1	95.2	6.5			15.9	1.1				
7	624.3	46.0	53.3	4.1	83.4	6.4			13.9	1.1				
8	724.6	48.8	60.9	4.1	95.2	6.4			15.9	1.1				
9	712.1	48.5	60.9	4.1	95.2	6.5			15.9	1.1				
10	660.5	44.3	60.9	4.1	95.2	6.4			15.9	1.1				
11	675.8	45.0	60.9	4.1	95.2	6.3			15.9	1.1				
12	774.1	50.9	60.9	4.0	95.2	6.3			15.9	1.0				
13	696.8	46.3	58.4	3.9	93.3	6.2			15.5	1.0				
14	677.4	44.4	60.9	4.0	95.2	6.2			15.9	1.0				
15	690.3	45.7	60.9	4.0	95.2	6.3			15.9	1.1				
16	666.6	42.0	60.9	3.9	95.2	6.1			15.9	1.0				
17	727.0	47.0	60.9	3.9	95.2	6.2			15.9	1.0				
18	666.0	42.2	60.9	3.9	95.2	6.0			15.9	1.0				
19	752.4	48.0	60.9	3.9	95.2	6.1			15.9	1.0				
20	765.6	47.2	60.9	3.8	95.2	5.9			15.9	1.0				
21	665.7	42.5	58.4	3.7	93.3	6.0			15.5	1.0				
22	690.1	43.3	60.9	3.8	95.2	6.0			15.9	1.0				
23	699.8	45.3	60.9	3.9	95.2	6.2			15.9	1.0				
24	705.2	44.6	60.9	3.9	95.2	6.0			15.9	1.0				
25	722.5	46.2	60.9	3.9	95.2	6.1			15.9	1.0				
26	716.6	44.8	60.9	3.8	95.2	5.9			15.9	1.0				
27	704.9	44.9	58.4	3.7	93.3	5.9			15.5	1.0				
28	702.8	44.1	60.9	3.8	95.2	6.0			15.9	1.0				
29	717.3	46.3	60.9	3.9	95.2	6.2			15.9	1.0				
30	710.6	45.2	60.9	3.9	95.2	6.1			15.9	1.0				
31	672.0	43.6	60.9	4.0	95.2	6.2			15.9	1.0				
TOTAL	21,276.3		1,882.7		2,917.9		0.0		487.0		0.0		0.0	
AVERAGE	686.3	45.3	60.1	4.0	94.1	6.2	#DIV/0!	#DIV/0!	15.7	1.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 10/2014

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												RAW	SETTLED WATER	PLANT TAP		
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)					
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW				SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE						
1	7.89	7.89	7.79	135	137	210	205	1.01	0.92	2.00	1.93	1.83	0.11	0.06			
2	7.86	7.90	7.81	143	145	210	207	0.99	0.89	1.92	1.86	1.83	0.11	0.06			
3	7.92	7.92	7.82	143	147	220	223	0.96	0.86	1.96	1.88	1.84	0.12	0.05			
4	8.00	7.92	7.83	144	148	225	229	0.80	0.70	1.92	1.84	1.94	0.11	0.06			
5	7.99	7.95	7.85	141	144	227	231	0.82	0.69	1.94	1.85	1.84	0.10	0.06			
6	8.09	7.99	7.88	142	146	231	235	0.93	0.85	1.97	1.91	1.57	0.10	0.05			
7	8.10	7.99	7.86	152	156	234	239	0.92	0.85	2.02	1.95	1.64	0.12	0.05			
8	8.07	7.99	7.86	162	158	230	226	0.84	0.75	1.94	1.89	17.47	0.18	0.06			
9	8.01	7.88	7.80	160	155	210	204	0.85	0.74	1.93	1.85	23.30	0.13	0.06			
10	7.95	7.85	7.75	143	140	216	214	0.90	0.81	1.96	1.87	20.50	0.15	0.05			
11	7.94	7.79	7.70	143	147	204	209	0.82	0.74	1.92	1.84	19.40	0.14	0.06			
12	7.77	7.70	7.62	148	151	210	214	0.92	0.82	1.98	1.92	20.50	0.12	0.06			
13	7.81	7.72	7.62	112	116	185	190	0.92	0.84	1.92	1.84	9.23	0.12	0.05			
14	7.79	7.72	7.64	110	114	183	187	0.95	0.87	1.89	1.84	8.33	0.14	0.05			
15	7.81	7.78	7.69	120	117	177	173	0.85	0.76	1.89	1.82	8.10	0.15	0.05			
16	7.79	7.77	7.68	117	112	175	180	0.87	0.79	1.97	1.89	7.20	0.13	0.05			
17	7.73	7.76	7.67	124	125	177	181	0.87	0.79	1.93	1.85	6.33	0.12	0.05			
18	7.74	7.69	7.59	107	110	167	172	0.94	0.86	1.94	1.85	8.76	0.12	0.05			
19	7.71	7.67	7.61	109	113	168	172	0.88	0.80	1.91	1.84	6.58	0.11	0.05			
20	7.75	7.71	7.60	104	108	17	176	0.89	0.81	2.00	1.93	5.69	0.11	0.05			
21	7.71	7.71	7.61	94	99	156	160	0.79	0.71	1.87	1.83	4.25	0.11	0.05			
22	7.70	7.71	7.62	100	95	156	150	0.78	0.68	1.83	1.76	3.51	0.10	0.05			
23	7.73	7.71	7.65	105	99	150	155	0.87	0.78	1.97	1.90	3.41	0.10	0.05			
24	7.72	7.73	7.64	102	105	151	155	0.92	0.85	1.94	1.85	3.02	0.10	0.05			
25	7.76	7.74	7.66	105	108	156	161	0.92	0.84	1.98	1.92	2.94	0.11	0.05			
26	7.75	7.70	7.65	108	111	159	164	0.93	0.82	2.03	1.92	2.56	0.10	0.06			
27	7.73	7.80	7.70	111	116	169	174	0.92	0.84	1.94	1.87	2.55	0.11	0.05			
28	8.01	7.84	7.75	106	110	167	171	0.85	0.77	1.95	1.87	2.36	0.11	0.05			
29	7.78	7.75	7.68	126	122	160	165	0.79	0.69	2.00	1.93	2.40	0.10	0.05			
30	7.76	7.76	7.66	128	125	152	155	0.97	0.86	1.97	1.89	2.12	0.10	0.05			
31	7.79	7.77	7.67	110	112	180	184	0.88	0.79	1.95	1.85	2.29	0.11	0.05			
AVERAGE	7.8	7.8	7.7	124	126	182	189	0.89	0.80	1.95	1.87	6.62	0.12	0.05			

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 10/2014

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	1.83		0.12	0.21						0.07	0.07	0.09	0.06		0.06
2	1.83		0.12	0.13						0.06	0.07	0.07	0.04		0.06
3	1.84		0.13	0.18						0.07	0.07	0.07	0.04		0.07
4	1.94		0.12	0.14						0.07	0.07	0.07	0.04		0.06
5	1.84		0.11	0.14						0.07	0.07	0.12	0.06		0.07
6	1.57		0.11	0.12						0.07	0.07	0.07	0.04		0.05
7	1.64		0.15	0.14						0.07	0.07	0.07	0.04		0.07
8	17.47		0.27	0.31						0.07	0.08	0.09	0.04		0.07
9	23.30		0.14	0.18						0.07	0.07	0.09	0.06		0.07
10	20.50		0.32	0.16						0.06	0.07	0.07	0.04		0.05
11	19.40		0.17	0.17						0.07	0.08	0.07	0.04		0.06
12	20.50		0.17	0.16						0.07	0.07	0.07	0.04		0.06
13	9.23		0.16	0.12						0.06	0.06	0.07	0.05		0.06
14	8.33		0.18	0.15						0.06	0.06	0.06	0.03		0.05
15	8.10		0.18	0.20						0.07	0.07	0.06	0.03		0.05
16	7.20		0.18	0.12						0.06	0.06	0.06	0.03		0.05
17	6.33		0.14	0.14						0.06	0.06	0.07	0.05		0.06
18	8.76		0.14	0.15						0.06	0.05	0.06	0.04		0.05
19	6.58		0.13	0.13						0.07	0.06	0.07	0.04		0.06
20	0.69		0.11	0.14						0.06	0.06	0.07	0.04		0.06
21	4.25		0.14	0.12						0.06	0.06	0.09	0.05		0.06
22	3.51		0.11	0.11						0.06	0.06	0.07	0.04		0.06
23	3.41		0.13	0.13						0.07	0.07	0.07	0.04		0.06
24	3.02		0.11	0.14						0.07	0.06	0.00	0.04		0.06
25	2.94		0.14	0.13						0.07	0.06	0.09	0.05		0.11
26	2.56		0.10	0.13						0.06	0.06	0.07	0.04		0.06
27	2.55		0.12	0.13						0.07	0.07	0.07	0.04		0.06
28	2.38		0.15	0.12						0.07	0.06	0.07	0.03		0.06
29	2.40		0.12	0.12						0.07	0.07	0.10	0.06		0.06
30	2.12		0.11	0.13						0.06	0.06	0.07	0.04		0.06
31	2.29		0.13	0.12						0.07	0.07	0.07	0.04		0.06
AVERAGE	6.5	#DIV/0!	0.1	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.07	0.07	0.04	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 10/2014

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL			
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP				
1	0.40	0.66	0.07	0.03	0.06	0.01			1.85	0.0	21.8	
2	0.23	0.54	0.15	0.04	0.05	0.01			1.75	0.0	22.0	
3	0.31	0.94	0.06	0.03	0.04	0.01			1.75	0.0	22.3	
4	0.34	1.01	0.07	0.03	0.05	0.01			1.80	0.2	22.4	
5	0.33	1.02	0.06	0.03	0.05	0.01			1.70	0.0	22.0	
6	0.32	1.04	0.06	0.03	0.13	0.01			1.75	0.0	20.6	
7	0.39	1.06	0.10	0.03	0.15	0.01			1.70	1.0	20.0	
8	0.39	0.96	0.08	0.03	0.13	0.01			1.70	1.2	19.2	
9	0.18	0.86	0.34	0.03	0.17	0.01			1.70	0.0	18.7	
10	0.11	1.01	0.27	0.03	0.15	0.01			1.75	0.4	19.1	
11	0.07	1.06	0.11	0.03	0.11	0.01			1.75	1.0	19.2	
12	0.10	1.02	0.41	0.03	0.14	0.01			1.75	0.1	18.6	
13	0.21	1.05	0.19	0.03	0.08	0.01			1.75	0.0	18.9	
14	0.23	0.89	0.16	0.03	0.08	0.01			1.80	0.0	18.5	
15	0.32	0.81	0.16	0.03	0.08	0.01			1.70	1.0	18.8	
16	0.19	0.85	0.15	0.03	0.09	0.01			1.75	0.2	18.8	
17	0.26	0.85	0.10	0.03	0.07	0.01			1.75	0.0	18.4	
18	0.25	0.91	0.11	0.03	0.08	0.01			1.75	0.0	18.2	
19	0.21	0.93	0.17	0.03	0.06	0.01			1.75	0.0	18.5	
20	0.25	0.90	0.16	0.03	0.06	0.01			1.75	0.0	18.1	
21	0.25	0.96	0.13	0.03	0.07	0.01			1.75	0.0	17.6	
22	0.22	0.75	0.08	0.03	0.06	0.01			1.75	0.0	17.2	
23	0.44	1.11	0.10	0.03	0.06	0.01			1.80	0.0	17.2	
24	0.25	0.81	0.10	0.03	0.05	0.01			1.80	0.0	17.1	
25	0.29	0.95	0.10	0.03	0.04	0.01			1.75	0.0	16.6	
26	0.25	0.92	0.09	0.03	0.04	0.01			1.80	0.0	16.1	
27	0.33	0.91	0.12	0.03	0.02	0.01			1.60	0.0	17.0	
28	0.28	0.88	0.12	0.03	0.01	0.01			1.80	0.0	16.4	
29	0.26	0.83	0.19	0.03	0.04	0.01			1.75	1.3	16.0	
30	0.34	0.74	0.17	0.03	0.06	0.01			1.55	0.0	16.4	
31	0.32	1.03	0.09	0.03	0.06	0.01			1.75	0.0	16.3	
AVERAGE	0.27	0.91	0.14	0.03	0.07	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	18.6	
									1.55			
									Number of readings	31	6.35	
									For Free Chlorine, # less than 0.2 mg/L	0		
									For Chloramines, # less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 10/2014

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DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)							
	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	
1	32,000					16,000	95.00	16,000	95.00		
2	0										
3	30,000	15,000	95.30	15,000	95.30						
4	0										
5	25,000					12,000.00	92.50	13,000	92.50		
6	0										
7	30,000	15,000	91.70	15,000	91.80						
8	0										
9	30,000					15,000	91.30	15,000	91.30		
10	0										
11	30,000	15,000	93.10	15,000	93.10						
12	0										
13	30,000					15,000	95.20	15,000	95.20		
14	0										
15	30,000	15,000	94.90	15,000	94.90						
16	0										
17	34,000					17,000	95.10	17,000	95.00		
18	0										
19	30,000	15,000	94.70	15,000	94.70						
20	0										
21	30,000					15,000	94.80	15,000	94.80		
22	0										
23	30,000	15,000	95.10	15,000	95.10						
24	0										
25	30,000					15,000	95.10	15,000	95.10		
26	0										
27	30,000	15,000	95.00	15,000	95.00						
28	0										
29	30,000					15,000	95.50	15,000	95.50		
30	0										
31	30,000	15,000	95.20	15,000	95.20						
TOTAL	481,000	120,000	755.00	120,000	755.10	120,000	754.50	121,000	754.40	0	0.00
AVERAGE	15,516	15,000	94.375	15,000	94.388	15,000	94.313	15,125	94.300	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 10/2014

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DAY	DISTRIBUTION SYSTEM OPERATION											
	CHEMICALS ADDED			TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
				NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F		
1				1.35	1.28	0.60	0.57	1.41	1.37	1.44	1.41	
2				1.44	1.37	1.19	1.12	1.35	1.29	1.47	1.41	
3				1.07	0.99	0.80	0.47	1.19	1.12	1.22	1.17	
4				1.12	1.07	0.44	0.36	1.03	0.96	1.40	1.31	
5				1.02	0.93	0.65	0.59	0.86	0.79	1.34	1.23	
6				1.12	1.03	1.16	1.08	1.14	1.07	1.46	1.37	
7				1.12	1.01	1.37	1.20	0.89	0.85	1.56	1.52	
8				1.41	1.33	1.37	1.32	0.51	0.43	1.53	1.51	
9				0.81	0.55	1.40	1.33	0.74	0.68	1.14	1.07	
10				0.74	0.64	0.79	0.71	1.34	1.28	1.47	1.40	
11				0.68	0.57	1.18	1.09	0.98	0.91	1.44	1.35	
12				0.98	0.91	0.51	0.41	1.03	0.95	0.84	0.76	
13				1.10	0.99	1.03	0.89	0.81	0.77	1.49	1.45	
14				1.11	1.03	0.45	0.39	1.29	1.19	1.42	1.33	
15				1.35	1.32	1.20	1.15	1.51	1.42	1.63	1.44	
16				1.03	0.96	1.41	1.39	1.08	1.06	1.46	1.43	
17				1.28	1.18	1.49	1.46	1.46	1.43	1.48	1.44	
18				1.36	1.26	1.14	1.03	1.48	1.40	1.53	1.48	
19				1.33	1.23	0.78	0.71	1.39	1.31	1.30	1.24	
20				0.41	0.51	1.17	1.25	1.31	1.39	1.00	1.05	
21				1.52	1.44	0.88	0.83	1.44	1.39	1.57	1.54	
22				1.06	0.99	1.23	1.19	1.28	1.26	1.54	1.48	
23				1.06	0.97	1.28	1.23	1.29	1.22	1.37	1.30	
24				1.34	1.29	1.19	1.12	1.37	1.34	1.11	1.06	
25				1.21	1.15	1.24	1.17	0.99	0.89	1.49	1.41	
26				1.40	1.33	1.38	1.28	1.25	1.19	1.36	1.31	
27				0.40	0.39	0.96	0.87	1.23	1.18	1.85	1.59	
28				1.12	1.06	0.45	0.40	1.20	1.15	1.21	1.15	
29				1.61	1.50	0.60	0.51	0.94	0.80	0.57	0.51	
30				1.38	1.34	1.07	1.03	1.31	1.28	0.74	0.66	
31				1.41	1.35	0.53	0.46	0.98	0.91	1.16	1.10	
AVERAGE	#DIV/OI	#DIV/OI	Average	1.13	1.06	0.99	0.93	1.16	1.10	1.33	1.27	
TOTAL	0.0	0.0	Total Minimum	0.40		0.44		0.51		0.57		
			Free Minimum		0.39		0.36		0.43		0.51	

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	2	0	3	0	0	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.36
Number of Total Residuals	124	Minimum Monthly Total Residual	0.40
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 10/2014

PAGE:  
**8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
2	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
3	24.0	6	0.06	0.07	0.06	0.06	0.05	0.06	0.066	
4	21.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
5	23.0	6	0.06	0.07	0.06	0.05	0.05	0.05	0.070	
6	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
7	21.0	6	0.06	0.06	0.06	0.05	0.05	0.07	0.067	
8	24.0	6	0.05	0.06	0.07	0.06	0.06	0.06	0.069	
9	24.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.070	
10	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
11	24.0	6	0.05	0.06	0.06	0.06	0.06	0.06	0.060	
12	24.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.060	
13	23.5	6	0.05	0.06	0.06	0.05	0.05	0.05	0.057	
14	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.049	
15	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
16	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
17	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.060	
18	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
19	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
20	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
21	23.5	6	0.06	0.06	0.06	0.06	0.06	0.06	0.063	
22	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.057	
23	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
24	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
25	24.0	6	0.11	0.07	0.06	0.05	0.06	0.06	0.110	
26	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
27	23.5	6	0.06	0.06	0.06	0.06	0.05	0.06	0.060	
28	24.0	6	0.06	0.06	0.06	0.05	0.05	0.08	0.058	
29	24.0	6	0.06	0.06	0.06	0.05	0.05	0.08	0.064	
30	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
31	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
<b>Total</b>	<b>735.5</b>	<b>186</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>186</b>	<b>0.110</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 1 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

11-05-2014  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

10/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>56,268,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,815,097</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,920,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>735.5</u>	Number of days of plant operation	<u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>	Number of lowest chlorine samples recorded	<u>31</u>
Highest single turbidity reading	<u>0.11</u>	Lowest single chlorine reading	<u>1.55</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>1</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU	<u>0</u>	<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.5 mg/L	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>		

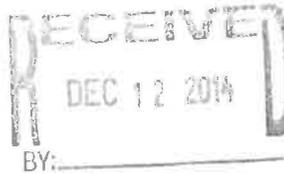
CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>	Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

11-05-2014  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 11/2014

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	KY0800273	PLANT ID:	A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS:	3	DIST. CLASS:	2
AGENCY INTEREST (AI):	2987	DATE MAILED:	12-09-2014		
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin		
	Tug Fork				
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	Earl T Alley	1V-A	17562		
WTP SHIFT 2:	Michael Sartin	1V-A	21944		
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719		
DISTRIBUTION:					

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.68
4. PERCENT BACKWASH WATER USED: 0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

12-05-2014  
DATE

12



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 11/2014  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,841,000	24.0	224.2	14.6	4.2	0.3			500.6	32.6	197.1	12.8
2	1,953,000	24.0	224.2	13.8	4.2	0.3			514.4	31.6	203.5	12.5
3	1,884,000	24.0	224.2	14.3	4.2	0.3			554.0	35.3	198.5	12.6
4	1,825,000	23.5	219.5	14.4	4.1	0.3			531.2	34.9	185.1	10.8
5	1,870,000	24.0	224.2	14.4	4.2	0.3			473.8	30.4	159.8	10.2
6	1,857,000	24.0	224.2	14.5	4.2	0.3			491.2	31.7	159.8	10.3
7	1,891,000	24.0	224.2	14.2	4.2	0.3			432.2	27.4	183.7	10.4
8	1,829,000	24.0	224.2	14.7	4.2	0.3			396.2	28.0	182.0	11.9
9	1,761,000	23.5	219.5	14.9	4.1	0.3			415.2	28.3	192.8	13.1
10	1,854,000	23.5	176.3	11.4	4.1	0.3			428.0	27.7	183.1	11.8
11	1,858,000	24.0	155.0	10.0	4.2	0.3			438.0	28.3	183.5	11.8
12	1,844,000	24.0	155.0	10.1	4.2	0.3			388.3	25.2	183.1	11.9
13	1,876,000	24.0	155.0	9.9	4.2	0.3			380.6	24.3	183.2	11.7
14	1,844,000	24.0	155.0	10.1	4.2	0.3			389.8	25.3	191.2	12.4
15	1,876,000	24.0	155.0	9.9	4.2	0.3			380.8	24.3	213.1	13.6
16	1,825,000	24.0	155.0	10.2	4.2	0.3			405.6	26.6	197.0	12.9
17	1,856,000	24.0	155.0	10.0	4.2	0.3			380.8	24.6	194.6	12.6
18	1,839,000	23.5	155.0	10.1	4.1	0.3			390.2	25.4	190.6	12.4
19	1,867,000	24.0	155.0	10.0	4.2	0.3			403.0	25.9	187.6	12.0
20	1,834,000	24.0	155.0	10.1	4.2	0.3			390.1	25.5	183.1	12.0
21	1,859,000	24.0	155.0	10.0	4.2	0.3			398.0	25.7	194.6	12.6
22	1,835,000	24.0	155.0	10.1	4.2	0.3			361.3	23.6	194.6	12.7
23	1,851,000	24.0	155.0	10.0	4.2	0.3			364.2	23.6	187.9	12.2
24	1,831,000	24.0	155.0	10.2	4.2	0.3			335.1	21.9	183.1	12.0
25	1,838,000	24.0	155.0	10.1	4.2	0.3			341.8	22.3	183.1	11.9
26	1,802,000	24.0	155.0	10.3	4.2	0.3			324.1	21.6	183.1	12.2
27	1,833,000	24.0	155.0	10.1	4.2	0.3			371.8	24.3	183.2	12.0
28	1,839,000	24.0	155.0	10.1	4.2	0.3			348.8	22.7	183.2	11.9
29	1,832,000	24.0	155.0	10.1	4.2	0.3			311.0	20.4	183.2	12.0
30	1,808,000	24.0	155.0	10.3	4.2	0.3			322.8	21.4	183.2	12.1
31												
TOTAL	55,412,000		5284.7		125.6		0.0		12162.3		5571.6	
AVERAGE	1,847,067		176.2	11.4	4.2	0.3	#DIV/0!	#DIV/0!	405.4	26.3	185.7	12.1
MAX	1,953,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 11/2014

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
1	697.7	45.4	60.9	4.0	95.2	6.2			15.9	1.0				
2	717.9	44.1	60.9	3.7	95.2	5.8			15.9	1.0				
3	752.5	47.9	60.9	3.9	95.2	6.1			15.9	1.0				
4	696.3	45.7	59.6	3.9	95.2	6.3			15.5	1.0				
5	833.8	40.6	60.9	3.9	95.2	6.1			15.9	1.0				
6	651.0	42.0	60.9	3.9	95.2	6.1			15.9	1.0				
7	595.9	37.8	60.9	3.9	95.2	6.0			15.9	1.0				
8	578.2	37.9	60.9	4.0	95.2	6.2			15.9	1.0				
9	608.0	41.4	59.6	4.1	59.6	4.1			15.5	1.1				
10	621.5	40.2	59.6	3.9	93.3	6.0			15.5	1.0				
11	611.1	39.4	60.9	3.9	95.2	6.1			15.9	1.0				
12	671.4	37.2	60.9	4.0	95.2	6.2			15.9	1.0				
13	563.8	36.0	60.9	3.9	95.2	6.1			15.9	1.0				
14	681.0	37.8	60.9	4.0	95.2	6.2			15.9	1.0				
15	693.7	37.9	60.9	3.9	95.2	6.1			15.9	1.0				
16	602.6	39.6	60.9	4.0	95.2	6.3			15.9	1.0				
17	575.2	37.2	60.9	3.9	95.2	6.2			15.9	1.0				
18	580.8	37.9	60.9	4.0	93.3	6.1			15.5	1.0				
19	690.6	37.9	60.9	3.9	95.2	6.1			15.9	1.0				
20	573.2	37.5	60.9	4.0	95.2	6.2			15.9	1.0				
21	592.6	38.2	60.9	3.9	95.2	6.1			16.9	1.0				
22	555.9	36.3	60.9	4.0	95.2	6.2			16.9	1.0				
23	562.1	35.8	60.9	3.9	95.2	6.2			16.9	1.0				
24	518.2	33.9	60.9	4.0	95.2	6.2			16.9	1.0				
25	524.9	34.2	60.9	4.0	95.2	6.2			15.9	1.0				
26	507.2	33.7	60.9	4.1	95.2	6.3			15.9	1.1				
27	555.0	36.3	60.9	4.0	95.2	6.2			16.9	1.0				
28	532.0	34.7	60.9	4.0	95.2	6.2			15.9	1.0				
29	494.2	32.3	60.9	4.0	95.2	6.2			15.9	1.0				
30	505.8	33.5	60.9	4.0	95.2	6.3			15.9	1.1				
31														
TOTAL	17,733.9		1,823.1		2,816.6		0.0		475.3		0.0		0.0	
AVERAGE	591.1	38.4	60.8	3.9	93.8	6.1	#DIV/0!	#DIV/0!	15.8	1.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 11/2014

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)													
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.75	7.71	7.63	113	114	175	178	0.78	0.69	1.99	1.87	2.32	0.12	0.06
2	7.75	7.70	7.61	95	95	166	168	0.76	0.65	2.00	1.90	2.64	0.11	0.06
3	7.73	7.69	7.59	100	106	163	167	0.94	0.85	2.07	2.01	2.54	0.13	0.06
4	7.75	7.72	7.62	107	111	147	152	1.00	0.93	2.01	1.97	2.42	0.12	0.05
5	7.72	7.72	7.60	115	111	145	150	0.94	0.86	1.95	1.87	2.47	0.13	0.05
6	7.69	7.72	7.62	120	117	147	143	0.85	0.76	1.91	1.85	2.09	0.12	0.05
7	7.73	7.73	7.59	93	97	155	160	0.87	0.81	1.89	1.84	2.07	0.12	0.05
8	7.74	7.66	7.58	103	108	147	151	0.69	0.62	1.95	1.88	1.73	0.11	0.05
9	7.72	7.65	7.56	88	91	150	152	0.70	0.61	2.06	1.98	1.93	0.12	0.06
10	7.72	7.68	7.56	100	105	138	144	0.79	0.72	2.01	1.93	1.66	0.11	0.05
11	7.70	7.68	7.57	94	99	140	144	0.80	0.73	1.98	1.92	1.60	0.13	0.05
12	7.65	7.72	7.61	92	94	140	135	0.72	0.64	2.00	1.91	1.57	0.12	0.05
13	7.72	7.72	7.80	98	103	143	140	0.69	0.61	1.97	1.91	1.57	0.12	0.05
14	7.79	7.72	7.62	91	95	139	144	0.64	0.57	1.88	1.82	1.48	0.12	0.05
15	7.70	7.67	7.59	86	90	145	149	0.66	0.59	2.03	1.95	1.36	0.14	0.05
16	7.78	7.66	7.56	80	83	138	143	0.74	0.66	2.07	2.00	1.55	0.13	0.06
17	7.74	7.67	7.57	91	95	144	148	0.65	0.58	1.90	1.84	1.29	0.14	0.06
18	7.78	7.75	7.65	94	97	148	149	0.70	0.62	1.92	1.85	1.54	0.16	0.05
19	7.79	7.77	7.63	92	96	130	135	0.71	0.63	1.88	1.83	1.97	0.18	0.06
20	7.77	7.71	7.57	82	85	125	122	0.67	0.57	1.85	1.79	2.70	0.19	0.07
21	7.71	7.63	7.62	82	78	115	112	0.67	0.59	1.87	1.82	3.15	0.16	0.05
22	7.63	7.64	7.50	75	80	120	114	0.70	0.64	1.90	1.84	3.25	0.14	0.05
23	7.65	7.68	7.55	75	78	121	117	0.74	0.66	1.91	1.86	3.05	0.18	0.05
24	7.73	7.65	7.51	71	76	120	124	0.69	0.62	1.85	1.81	2.99	0.21	0.06
25	7.72	7.66	7.53	68	73	124	129	0.71	0.64	1.86	1.79	3.00	0.18	0.06
26	7.69	7.66	7.54	100	95	110	105	0.66	0.59	1.92	1.85	2.94	0.19	0.06
27	7.62	7.67	7.52	75	78	122	125	0.64	0.56	1.89	1.83	2.76	0.18	0.06
28	7.74	7.65	7.53	75	78	118	120	0.75	0.66	1.94	1.86	2.44	0.18	0.07
29	7.72	7.64	7.55	77	80	120	122	0.76	0.67	1.99	1.91	2.35	0.18	0.07
30	7.79	7.64	7.53	74	77	128	130	0.81	0.71	2.06	1.98	2.25	0.18	0.06
31														
AVERAGE	7.7	7.7	7.6	90	93	137	139	0.75	0.67	1.95	1.88	2.22	0.15	0.06

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 11/2014

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT						INDIVIDUAL FILTER EFFLUENT							CFE DAILY MAXIMUM
		DAILY MAXIMUM						DAILY MAXIMUM							
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	2.32		0.16	0.12						0.07	0.06	0.07	0.04		0.06
2	2.64		0.11	0.11						0.07	0.06	0.10	0.14		0.07
3	2.54		0.21	0.19						0.07	0.06	0.07	0.05		0.06
4	2.42		0.14	0.14						0.07	0.07	0.07	0.05		0.07
5	2.47		0.17	0.18						0.07	0.06	0.07	0.04		0.06
6	2.09		0.14	0.14						0.07	0.06	0.12	0.06		0.07
7	2.07		0.14	0.12						0.06	0.06	0.07	0.04		0.06
8	1.73		0.14	0.10						0.07	0.07	0.07	0.04		0.07
9	1.93		0.12	0.11						0.07	0.06	0.07	0.04		0.06
10	1.68		0.15	0.14						0.06	0.06	0.11	0.07		0.07
11	1.60		0.20	0.15						0.07	0.06	0.06	0.04		0.06
12	1.57		0.13	0.12						0.07	0.07	0.07	0.04		0.06
13	1.57		0.15	0.13						0.07	0.06	0.07	0.04		0.06
14	1.48		0.14	0.12						0.06	0.06	0.08	0.05		0.06
15	1.36		0.18	0.16						0.06	0.06	0.07	0.04		0.06
16	1.55		0.16	0.14						0.07	0.07	0.07	0.03		0.06
17	1.29		0.21	0.15						0.07	0.06	0.08	0.04		0.06
18	1.54		0.18	0.19						0.07	0.05	0.09	0.05		0.07
19	1.97		0.20	0.22						0.07	0.06	0.09	0.04		0.07
20	2.70		0.21	0.22						0.08	0.08	0.11	0.04		0.08
21	3.15		0.18	0.18						0.07	0.06	0.08	0.04		0.06
22	3.25		0.18	0.15						0.06	0.06	0.09	0.06		0.06
23	3.05		0.27	0.16						0.08	0.06	0.08	0.04		0.07
24	2.99		0.23	0.34						0.08	0.07	0.09	0.04		0.07
25	3.00		0.20	0.18						0.07	0.07	0.09	0.04		0.07
26	2.94		0.24	0.19						0.07	0.06	0.10	0.08		0.08
27	2.76		0.19	0.19						0.07	0.08	0.08	0.06		0.08
28	2.44		0.22	0.18						0.07	0.07	0.09	0.07		0.08
29	2.35		0.19	0.20						0.07	0.08	0.10	0.08		0.09
30	2.25		0.21	0.21						0.06	0.06	0.11	0.07		0.09
31															
AVERAGE	2.2	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.06	0.08	0.05	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 11/2014

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL			
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP				
1	0.29	1.01	0.08	0.03	0.06	0.01			1.75	0.5	14.9	
2	0.31	1.14	0.11	0.03	0.06	0.01			1.75	0.1	15.3	
3	0.31	1.07	0.11	0.03	0.05	0.01			1.80	0.0	14.4	
4	0.48	1.13	0.12	0.03	0.05	0.01			1.70	0.0	14.1	
5	0.32	0.72	0.18	0.03	0.06	0.01			1.80	0.0	13.5	
6	0.35	0.85	0.08	0.03	0.05	0.01			1.80	0.5	13.8	
7	0.43	1.03	0.09	0.03	0.05	0.01			1.80	0.1	14.1	
8	0.20	1.03	0.08	0.03	0.04	0.01			1.55	0.0	14.1	
9	0.22	1.00	0.09	0.03	0.04	0.01			1.80	0.0	13.8	
10	0.30	0.99	0.09	0.03	0.04	0.01			1.66	0.0	13.7	
11	0.19	0.86	0.09	0.03	0.04	0.01			1.80	0.0	13.4	
12	0.20	0.95	0.11	0.03	0.05	0.01			1.85	0.1	13.2	
13	0.33	1.02	0.11	0.03	0.05	0.01			1.80	0.0	13.7	
14	0.28	0.84	0.09	0.03	0.05	0.01			1.80	0.0	12.9	
15	0.35	1.01	0.12	0.03	0.04	0.01			1.80	0.0	11.2	
16	0.24	0.99	0.09	0.03	0.05	0.01			1.75	0.0	11.7	
17	0.24	0.99	0.10	0.03	0.03	0.00			1.75	0.9	11.8	
18	0.28	1.02	0.09	0.03	0.04	0.01			1.70	0.3	10.5	
19	0.32	0.84	0.17	0.03	0.07	0.01			1.80	0.0	10.7	
20	0.14	0.92	0.13	0.03	0.06	0.01			1.80	0.0	10.3	
21	0.20	0.98	0.12	0.03	0.07	0.02			1.80	0.0	10.1	
22	0.22	0.94	0.19	0.03	0.06	0.01			1.80	0.0	8.4	
23	0.15	1.04	0.14	0.03	0.07	0.01			1.85	0.0	8.6	
24	0.28	1.05	0.10	0.03	0.05	0.01			1.80	0.2	9.7	
25	0.27	1.09	0.10	0.03	0.04	0.01			1.80	0.0	10.3	
26	0.31	0.83	0.24	0.03	0.06	0.01			1.75	0.0	10.7	
27	0.25	0.96	0.16	0.03	0.07	0.01			1.80	0.0	9.4	
28	0.27	1.07	0.18	0.03	0.06	0.01			1.80	0.0	9.4	
29	0.25	1.04	0.19	0.03	0.06	0.01			1.75	0.0	9.0	
30	0.29	1.11	0.18	0.03	0.06	0.01			1.75	0.0	9.1	
31												
AVERAGE	0.27	0.98	0.12	0.03	0.05	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	11.9	
									1.55			
									Number of readings	30	2.70	
									For Free Chlorine, # less than 0.2 mg/L	0		
									For Chloramines, # less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 11/2014

PAGE 5 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: <u>3</u>		No: <u>4</u>		No: <u>5</u>		No: <u>6</u>		No: <u>7</u>	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	28,000					14,000	90.80	14,000	90.90		
2	0										
3	0										
4	30,000	15,000	95.80	15,000	95.80						
5	0										
6	30,000					15,000	100.00	15,000	100.00		
7	0										
8	30,000	15,000	95.30	15,000	95.30						
9	0										
10	28,000					14,000	95.00	14,000	95.10		
11	0										
12	30,000	15,000	95.10	15,000	95.10						
13	0										
14	30,000					15,000	93.50	15,000	94.10		
15	0										
16	32,000	16,000	94.50	6,000	94.50						
17	0										
18	31,000					16,000	94.90	15,000	94.90		
19	0										
20	30,000	15,000	95.30	15,000	95.30						
21	0										
22	34,000					17,000	96.00	17,000	96.00		
23	0										
24	30,000	15,000	95.50	15,000	95.50						
25	0										
26	30,000					15,000	94.80	15,000	94.80		
27	33,000	17,000	87.70	16,000	87.70						
28	0										
29	0										
30	33,000					17,000	94.80	16,000	94.80		
31	0										
TOTAL	459,000	108,000	659.20	97,000	659.20	123,000	759.80	121,000	760.60	0	0.00
AVERAGE	14,806	15,429	94.171	13,857	94.171	15,375	94.975	15,125	95.075	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 11/2014

PAGE 7 OF 11

DAY	DISTRIBUTION SYSTEM OPERATION										
	CHEMICALS ADDED			TEST RESULTS							
	CHLORINE BOOSTER	CHLORINE BOOSTER		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
	LBS	LBS		NORTH		SOUTH		EAST		WEST	
			T	F	T	F	T	F	T	F	
1				1.32	1.21	1.30	1.28	1.49	1.42	1.50	1.40
2				1.06	0.95	0.92	0.86	1.11	1.02	0.94	0.86
3				1.51	1.42	0.32	0.25	0.86	0.78	1.66	1.58
4				1.17	1.15	0.95	0.90	1.20	1.12	1.20	1.10
5				1.50	1.39	1.37	1.31	1.39	1.35	1.01	0.96
6				1.30	1.22	1.48	1.44	1.25	1.19	1.59	1.52
7				1.31	1.27	1.25	1.18	1.14	1.09	1.46	1.39
8				0.54	0.49	0.69	0.66	0.32	0.25	0.39	0.29
9				1.46	1.37	0.29	0.23	1.13	1.09	1.45	1.40
10				1.36	1.22	0.84	0.80	1.74	1.69	1.68	1.59
11				1.58	1.55	1.44	1.38	1.16	1.03	1.57	1.54
12				1.67	1.54	0.69	0.65	1.18	1.15	1.63	1.58
13				1.59	1.54	1.15	1.10	0.74	0.61	1.19	1.16
14				1.25	1.17	0.41	0.37	0.93	0.89	1.59	1.58
15				1.37	1.31	1.39	1.33	1.34	1.32	1.71	1.64
16				1.48	1.37	0.89	0.82	1.36	1.29	1.68	1.61
17				1.34	1.28	0.31	0.24	1.53	1.51	1.31	1.21
18				1.56	1.49	0.83	0.54	1.33	1.30	1.64	1.62
19				1.35	1.30	1.33	1.32	1.62	1.61	1.48	1.48
20				1.33	1.21	1.34	1.23	1.40	1.31	1.58	1.50
21				1.17	1.12	0.61	0.57	1.56	1.55	1.33	1.27
22				1.74	1.68	1.46	1.38	1.46	1.31	1.53	1.50
23				1.82	1.60	1.57	1.49	1.63	1.55	0.96	0.87
24				1.41	1.31	1.06	1.04	1.31	1.29	1.49	1.40
25				1.39	1.33	1.19	1.14	0.69	0.57	1.26	1.19
26				1.55	1.48	1.08	0.92	1.44	1.38	1.08	1.07
27				1.45	1.34	1.59	1.57	1.64	1.59	1.59	1.55
28				1.51	1.46	1.33	1.26	1.30	1.20	1.61	1.55
29				1.51	1.45	1.27	1.22	1.40	1.32	1.33	1.24
30				1.39	1.31	1.38	1.33	1.67	1.65	1.52	1.44
31											
AVERAGE	#DIV/0!	#DIV/0!	Average	1.39	1.32	1.05	0.99	1.28	1.21	1.40	1.34
TOTAL	0.0	0.0	Total Maximum	0.54		0.29		0.32		0.39	
			Free Minimum		0.49		0.23		0.25		0.29

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	0	0	4	0	1	0	1	0	1	0

Number of Free Residuals	120	Minimum Monthly Free Residual	0.23
Number of Total Residuals	120	Minimum Monthly Total Residual	0.29
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **30**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 11/2014

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
2	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.068	
3	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
4	23.5	6	0.07	0.06	0.06	0.06	0.06	0.06	0.066	
5	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
6	24.0	6	0.06	0.07	0.06	0.06	0.06	0.06	0.068	
7	24.0	6	0.06	0.06	0.05	0.06	0.06	0.06	0.059	
8	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.067	
9	23.5	6	0.08	0.06	0.06	0.06	0.06	0.06	0.058	
10	23.5	6	0.06	0.06	0.05	0.06	0.06	0.06	0.057	
11	24.0	6	0.06	0.07	0.06	0.05	0.06	0.06	0.069	
12	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
13	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
14	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
15	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
16	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
17	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
18	23.5	6	0.06	0.07	0.06	0.06	0.06	0.06	0.065	
19	24.0	6	0.06	0.06	0.06	0.06	0.07	0.07	0.069	
20	24.0	6	0.07	0.08	0.07	0.07	0.07	0.07	0.080	
21	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
22	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.063	
23	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.065	
24	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.071	
25	24.0	6	0.07	0.07	0.07	0.06	0.07	0.07	0.066	
26	24.0	6	0.07	0.08	0.07	0.07	0.07	0.07	0.076	
27	24.0	6	0.07	0.07	0.07	0.07	0.07	0.08	0.080	
28	24.0	6	0.07	0.08	0.08	0.07	0.08	0.08	0.080	
29	24.0	6	0.08	0.08	0.08	0.08	0.09	0.08	0.090	
30	24.0	6	0.09	0.06	0.06	0.06	0.06	0.06	0.090	
31	0.0	0							0.000	
<b>Total</b>	<b>718.0</b>	<b>180</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN -						<b>180</b>	<b>0.090</b>

ARE YOU USING EITHER CONVENTIONAL OR DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 0 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding --> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alday  
 Signature of Principal Executive Officer or Authorized Agent

12-05-2014  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

11/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>55,412,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,847,067</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,953,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Were measurements recorded every 15 minutes? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was there a failure of the continuous monitoring equipment? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	..... <input type="checkbox"/> Y <input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>718.0</u>	Number of days of plant operation	<u>30</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>180</u>	Number of lowest chlorine samples recorded	<u>30</u>
Highest single turbidity reading	<u>0.09</u>	Lowest single chlorine reading	<u>1.55</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>0</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Number of samples exceeded 0.3 NTU	<u>0</u>	Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.5 mg/L	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>		

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>30</u>	Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

12-05-2014  
Date



JAN 15 2015

KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

12/2014

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	01-07-2015	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
OPERATOR(S) RESPONSIBLE / IN-CHARGE		CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

- 1. DESIGN CAPACITY (gpm): 1,667
- 2. TYPE OF FILTRATION USED: Dual Media
- 3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- 4. PERCENT BACKWASH WATER USED: 0.8
- 5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- 6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

01-06-2015  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 12/2014

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,783,000	24.0	155.0	10.4	4.2	0.3			321.2	21.6	173.2	11.6
2	1,827,000	24.0	155.0	10.2	4.2	0.3			311.0	20.4	159.8	10.5
3	1,832,000	24.0	155.0	10.1	4.2	0.3			311.0	20.4	159.8	10.5
4	1,784,000	24.0	155.0	10.4	4.2	0.3			311.0	20.9	159.8	10.7
5	1,832,000	24.0	249.0	16.3	4.2	0.3			257.8	16.9	174.7	11.4
6	1,822,000	24.0	274.8	18.1	4.2	0.3			287.5	18.9	169.2	11.1
7	1,856,000	24.0	274.8	17.8	4.2	0.3			312.4	20.2	169.2	10.9
8	1,839,000	24.0	274.8	17.9	4.2	0.3			347.2	22.6	175.1	11.4
9	1,848,000	24.0	195.4	12.7	4.2	0.3			303.6	19.7	169.2	11.0
10	1,869,000	24.0	155.0	9.9	4.2	0.3			275.5	17.7	169.2	10.9
11	1,867,000	24.0	155.0	10.0	4.2	0.3			308.7	19.8	169.2	10.9
12	1,834,000	23.5	151.8	9.9	4.1	0.3			311.1	20.3	174.0	11.4
13	1,855,000	24.0	155.0	10.0	4.2	0.3			296.6	19.2	183.1	11.8
14	1,830,000	24.0	155.0	10.2	4.2	0.3			287.6	18.8	179.6	11.8
15	1,855,000	24.0	155.0	10.0	4.2	0.3			287.6	18.6	146.9	9.5
16	1,839,000	23.5	151.8	9.9	4.1	0.3			276.4	18.0	165.7	10.8
17	1,869,000	24.0	155.0	9.9	4.2	0.3			246.1	15.8	169.2	10.9
18	1,835,000	24.0	155.0	10.1	4.2	0.3			244.4	16.0	183.1	12.0
19	1,786,000	24.0	155.0	10.4	4.2	0.3			254.8	17.1	183.1	12.3
20	1,833,000	24.0	155.0	10.1	4.2	0.3			248.1	16.2	183.1	12.0
21	1,823,000	24.0	155.0	10.2	4.2	0.3			248.1	16.3	183.1	12.0
22	1,807,000	24.0	155.0	10.3	4.2	0.3			241.8	16.0	183.1	12.1
23	1,782,000	23.5	181.7	12.2	4.1	0.3			233.6	15.7	179.3	12.1
24	1,837,000	24.0	257.4	16.8	4.2	0.3			246.1	16.2	168.1	11.0
25	1,818,000	24.0	257.4	17.0	4.2	0.3			248.1	16.4	159.8	10.5
26	1,803,000	24.0	189.2	12.6	4.2	0.3			245.8	16.3	156.5	10.4
27	1,814,000	24.0	155.0	10.2	4.2	0.3			253.4	16.7	165.1	10.9
28	1,793,000	24.0	155.0	10.4	4.2	0.3			248.1	16.6	165.1	11.0
29	1,795,000	24.0	155.0	10.4	4.2	0.3			248.1	16.6	159.8	10.7
30	1,831,000	24.0	155.0	10.2	4.2	0.3			255.8	16.8	159.8	10.5
31	1,804,000	24.0	155.0	10.3	4.2	0.3			255.8	17.0	159.8	10.6
TOTAL	56,602,000		5558.1		129.9		0.0		8526.3		5255.7	
AVERAGE	1,825,871		179.3	11.8	4.2	0.3	#DIV/0!	#DIV/0!	275.0	18.1	169.5	11.1
MAX	1,869,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 12/2014

APPLICABLE TO ALL PLANTS

PAGE 2 OF 11

CHEMICAL ADDED

DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Pobt		LBS	PPM	LBS	PPM	LBS	PPM
							LBS	PPM						
1	494.4	33.2	60.9	4.1	95.2	6.4			15.9	1.1				
2	470.8	30.9	60.9	4.0	95.2	6.2			15.9	1.0				
3	470.8	30.8	60.9	4.0	95.2	6.2			15.9	1.0				
4	470.8	31.6	60.9	4.1	95.2	6.4			15.9	1.1				
5	432.5	28.3	60.9	4.0	95.2	6.2			15.9	1.0				
6	456.7	30.1	60.9	4.0	95.2	6.3			15.9	1.0				
7	481.6	31.1	60.9	3.9	95.2	6.2			15.9	1.0				
8	522.3	34.1	60.9	4.0	95.2	6.2			15.9	1.0				
9	472.8	30.7	60.9	4.0	95.2	6.2			15.9	1.0				
10	444.7	28.5	60.9	3.9	95.2	6.1			15.9	1.0				
11	477.9	30.7	60.9	3.9	69.5	4.5			15.9	1.0				
12	485.1	31.7	59.6	3.9					15.6	1.0				
13	479.7	31.0	60.9	3.9					15.9	1.0				
14	467.6	30.6	60.9	4.0										
15	434.5	28.1	60.9	3.9										
16	442.1	28.8	59.6	3.9										
17	415.3	26.6	60.9	3.9										
18	427.5	27.9	60.9	4.0										
19	437.9	29.4	60.9	4.1										
20	431.2	28.2	60.9	4.0										
21	431.2	28.4	60.9	4.0										
22	424.9	28.2	60.9	4.0										
23	412.9	27.8	59.6	4.0										
24	416.2	27.2	60.9	4.0										
25	407.9	26.9	60.9	4.0										
26	402.3	26.8	60.9	4.1										
27	418.6	27.7	60.9	4.0										
28	407.9	27.3	60.9	4.1										
29	407.9	27.2	60.9	4.1										
30	415.6	27.2	60.9	4.0										
31	415.6	27.6	60.9	4.0										
TOTAL	13,777.1		1,884.0		1,021.5		0.0		208.4		0.0		0.0	
AVERAGE	444.4	29.2	60.8	4.0	92.9	6.1	#DIV/0!	#DIV/0!	15.9	1.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 12/2014

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.69	7.61	7.48	70	75	129	135	0.85	0.77	2.02	1.93	2.35	0.20	0.06
2	7.69	7.63	7.50	72	75	120	122	0.75	0.68	1.96	1.90	2.21	0.19	0.05
3	7.76	7.73	7.60	78	80	125	123	0.74	0.65	1.95	1.90	2.41	0.24	0.05
4	7.74	7.76	7.59	85	88	142	146	0.78	0.72	1.99	1.92	2.28	0.33	0.06
5	7.83	7.71	7.60	83	88	142	146	0.74	0.67	1.97	1.89	2.21	0.19	0.06
6	7.74	7.53	7.45	85	88	139	144	0.67	0.60	2.00	1.94	2.15	0.10	0.05
7	7.69	7.58	7.49	69	73	142	145	0.67	0.60	1.94	1.91	2.39	0.12	0.05
8	7.75	7.59	7.49	80	84	136	140	0.72	0.66	1.99	1.95	2.48	0.12	0.05
9	7.73	7.61	7.50	82	82	141	146	0.71	0.63	1.94	1.87	2.90	0.11	0.05
10	7.67	7.67	7.47	76	78	117	120	0.68	0.59	1.93	1.87	2.68	0.11	0.05
11	7.66	7.58	7.46	66	70	118	122	0.72	0.65	1.95	1.88	2.84	0.18	0.05
12	7.67	7.56	7.44	63	66	104	108	0.76	0.69	1.94	1.88	3.42	0.16	0.05
13	7.58	7.43	7.32	58	61	105	111	0.74	0.69	1.90	1.85	3.48	0.16	0.05
14	7.57	7.46	7.34	54	58	110	115	0.81	0.75	2.05	2.01	3.27	0.16	0.05
15	7.57	7.52	7.40	54	58	114	120	0.77	0.69	1.98	1.93	3.14	0.17	0.05
16	7.62	7.55	7.73	68	69	113	116	0.78	0.69	1.99	1.91	2.97	0.15	0.05
17	7.63	7.60	7.48	88	84	116	111	0.78	0.70	1.97	1.91	2.80	0.17	0.05
18	7.67	7.61	7.48	73	68	93	109	0.59	0.53	1.86	1.80	2.75	0.22	0.05
19	7.70	7.63	7.49	65	68	123	128	0.63	0.57	1.91	1.85	2.66	0.24	0.05
20	7.68	7.60	7.46	64	68	124	128	0.66	0.58	2.00	1.94	2.55	0.22	0.05
21	7.77	7.66	7.52	64	68	116	121	0.75	0.70	2.03	1.97	2.46	0.23	0.05
22	7.67	7.61	7.47	65	69	119	123	0.73	0.66	2.05	2.01	2.38	0.23	0.06
23	7.73	7.71	7.55	71	72	131	124	0.72	0.65	1.88	1.81	2.41	0.23	0.07
24	7.79	7.71	7.58	79	76	125	120	0.73	0.60	1.95	1.88	2.24	0.19	0.06
25	7.86	7.66	7.56	78	76	133	138	0.72	0.65	1.96	1.87	2.43	0.11	0.05
26	7.81	7.69	7.53	79	76	136	141	0.76	0.70	1.93	1.87	2.33	0.12	0.05
27	7.78	7.64	7.50	85	82	142	146	0.77	0.70	2.04	1.98	2.71	0.13	0.05
28	7.80	7.67	7.54	80	76	128	134	0.77	0.70	2.06	2.00	2.66	0.13	0.05
29	7.79	7.66	7.54	83	80	124	129	0.77	0.71	1.95	1.91	2.53	0.12	0.05
30	7.80	7.69	7.56	85	80	121	125	0.73	0.64	1.92	1.87	2.48	0.11	0.05
31	7.76	7.71	7.55	80	75	120	125	0.71	0.65	1.94	1.89	2.36	0.11	0.05
AVERAGE	7.7	7.6	7.5	74	75	124	128	0.73	0.66	1.97	1.91	2.62	0.17	0.05

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 12/2014

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	2.35		0.25	0.22						0.07	0.06	0.06	0.05		0.06
2	2.21		0.22	0.24						0.07	0.07	0.06	0.03		0.06
3	2.41		0.28	0.27						0.07	0.06	0.06	0.03		0.06
4	2.28		0.35	0.44						0.07	0.07	0.10	0.07		0.08
5	2.21		0.28	0.37						0.07	0.06	0.11	0.04		0.08
6	2.15		0.13	0.10						0.06	0.06	0.06	0.03		0.05
7	2.39		0.23	0.17						0.06	0.05	0.06	0.03		0.06
8	2.48		0.13	0.16						0.06	0.05	0.07	0.03		0.06
9	2.90		0.14	0.12						0.05	0.05	0.05	0.02		0.06
10	2.68		0.14	0.16						0.06	0.05	0.05	0.03		0.06
11	2.84		0.45	0.16						0.06	0.05	0.05	0.03		0.06
12	3.42		0.18	0.16						0.06	0.05	0.07	0.04		0.06
13	3.48		0.19	0.21						0.06	0.05	0.07	0.03		0.06
14	3.27		0.20	0.18						0.07	0.06	0.07	0.03		0.06
15	3.14		0.21	0.27						0.06	0.05	0.09	0.03		0.06
16	2.97		0.16	0.15						0.06	0.05	0.07	0.04		0.05
17	2.80		0.29	0.30						0.06	0.05	0.06	0.03		0.05
18	2.75		0.25	0.28						0.07	0.06	0.08	0.03		0.06
19	2.66		0.64	0.23						0.06	0.05	0.07	0.03		0.06
20	2.55		0.28	0.24						0.07	0.05	0.12	0.15		0.07
21	2.46		0.28	0.24						0.06	0.06	0.07	0.03		0.06
22	2.38		0.25	0.27						0.08	0.07	0.13	0.04		0.08
23	2.41		0.25	0.28						0.07	0.06	0.10	0.06		0.07
24	2.24		0.24	0.24						0.06	0.06	0.10	0.04		0.07
25	2.43		0.14	0.11						0.06	0.05	0.06	0.03		0.05
26	2.33		0.14	0.17						0.06	0.05	0.07	0.03		0.06
27	2.71		0.16	0.16						0.06	0.05	0.07	0.02		0.05
28	2.66		0.13	0.16						0.06	0.05	0.07	0.04		0.05
29	2.53		0.15	0.14						0.06	0.05	0.06	0.03		0.05
30	2.48		0.15	0.12						0.06	0.05	0.06	0.02		0.05
31	2.36		0.13	0.12						0.06	0.05	0.06	0.02		0.05
AVERAGE	2.6	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.05	0.07	0.04	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 12/2014

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\*Please answer Y/N question below this chart.

DAY	ANALYTICAL RESULTS (m/L OR PPM UNLESS OTHERWISE SPECIFIED)								Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F/C°
	FLUORIDE		IRON		MANGANESE		RAW	TAP			
	RAW	TAP	RAW	TAP	RAW	TAP					
1	0.27	0.97	0.13	0.03	0.05	0.01			1.75	0.0	10.4
2	0.27	1.11	0.26	0.03	0.05	0.01			1.80	0.4	9.2
3	0.30	1.11	0.18	0.03	0.05	0.01			1.75	0.1	10.9
4	0.25	1.07	0.19	0.03	0.05	0.01			1.83	0.0	10.5
5	0.34	1.01	0.21	0.03	0.06	0.01			1.80	0.3	10.9
6	0.24	1.08	0.18	0.03	0.05	0.01			1.65	0.3	10.9
7	0.29	1.05	0.22	0.03	0.08	0.01			1.75	0.4	10.8
8	0.23	1.01	0.15	0.03	0.05	0.01			1.75	0.0	10.8
9	0.26	1.03	0.17	0.03	0.05	0.01			1.50	0.0	9.8
10	0.23	1.05	0.21	0.03	0.06	0.01			1.80	0.0	9.8
11	0.20	1.05	0.20	0.03	0.05	0.01			1.80	0.0	9.4
12	0.26	0.86	0.21	0.03	0.06	0.01			1.75	0.0	9.8
13	0.32	1.06	0.20	0.03	0.05	0.01			1.75	0.0	9.8
14	0.24	1.10	0.19	0.03	0.05	0.01			1.75	0.0	9.3
15	0.21	0.99	0.20	0.03	0.05	0.01			1.80	0.0	9.3
16	0.23	1.00	0.23	0.03	0.05	0.01			1.65	0.1	8.8
17	0.32	0.91	0.14	0.03	0.05	0.01			1.75	0.0	8.8
18	0.32	1.04	0.20	0.03	0.06	0.01			1.75	0.0	9.5
19	0.21	0.94	0.20	0.03	0.05	0.01			1.80	0.0	9.3
20	0.13	0.94	0.20	0.03	0.05	0.01			1.90	0.0	9.2
21	0.30	1.13	0.17	0.03	0.05	0.01			1.80	0.0	9.2
22	0.31	1.12	0.20	0.03	0.05	0.01			1.74	0.0	9.0
23	0.33	1.17	0.22	0.03	0.53	0.01			1.70	0.0	8.1
24	0.38	1.05	0.33	0.03	0.08	0.01			1.70	0.2	8.9
25	0.34	1.11	0.21	0.03	0.05	0.01			1.75	0.2	8.6
26	0.29	1.06	0.20	0.03	0.05	0.01			1.75	0.0	8.1
27	0.28	1.18	0.25	0.03	0.05	0.01			1.75	0.0	8.6
28	0.24	1.04	0.23	0.03	0.04	0.01			1.75	0.1	8.8
29	0.25	1.08	0.23	0.03	0.05	0.01			1.80	0.4	8.7
30	0.27	1.04	0.24	0.03	0.05	0.01			1.75	0.0	8.5
31	0.30	1.19	0.19	0.03	0.04	0.01			1.75	0.0	8.8
AVERAGE	0.27	1.05	0.20	0.03	0.07	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	9.4
									1.50		
									Number of readings	31	2.53
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 12/2014

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DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 6		No: 6		No: 6	
		AREA (square foot)	180	AREA (square foot)	180						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	30,000	15,000	96.60	15,000	96.60						
2	0										
3	0										
4	31,000					15,000	93.60	16,000	93.60		
5	0										
6	30,000	16,000	99.00	15,000	99.00						
7	0										
8	30,000					15,000	94.90	15,000	94.90		
9	31,000	15,000	91.20	16,000	91.20						
10	0										
11	0										
12	30,000					15,000	94.70	15,000	94.70		
13	0										
14	30,000	15,000	98.80	15,000	98.80						
15	0										
16	31,000					16,000	94.90	15,000	94.90		
17	0										
18	32,000	16,000	97.20	16,000	97.20						
19	38,000					19,000	92.10	19,000	92.10		
20	0										
21	0										
22	30,000	15,000	94.50	15,000	94.50						
23	33,000					17,000	85.80	16,000	85.90		
24	0										
25	0										
26	30,000	15,000	94.60	15,000	94.60						
27											
28	30,000					15,000	106.60	15,000	106.70		
29	30,000	15,000	91.00	15,000	91.00						
30	0										
31	0										
<b>TOTAL</b>	<b>433,000</b>	<b>121,000</b>	<b>762.90</b>	<b>122,000</b>	<b>762.90</b>	<b>112,000</b>	<b>662.80</b>	<b>111,000</b>	<b>662.80</b>	<b>0</b>	<b>0.00</b>
<b>AVERAGE</b>	<b>14,931</b>	<b>15,125</b>	<b>95.363</b>	<b>15,250</b>	<b>95.363</b>	<b>16,000</b>	<b>94.657</b>	<b>15,857</b>	<b>94.686</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 12/2014

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DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1			1.63	1.62	1.52	1.47	0.42	0.41	1.50	1.44	
2			1.69	1.67	1.88	1.83	0.51	0.45	1.62	1.57	
3			1.48	1.39	1.56	1.53	0.69	0.62	1.59	1.54	
4			1.18	1.10	1.28	1.24	1.29	1.22	1.44	1.39	
5			1.50	1.45	1.61	1.56	1.63	1.61	1.62	1.57	
6			1.61	1.55	0.57	0.47	1.54	1.48	1.71	1.65	
7			1.60	1.57	0.73	0.68	1.53	1.46	1.73	1.66	
8			1.56	1.50	0.68	0.62	1.85	1.82	1.16	1.06	
9			1.06	0.95	1.42	1.30	1.59	1.58	1.52	1.51	
10			1.75	1.66	1.47	1.36	1.75	1.66	1.74	1.64	
11			1.63	1.61	1.48	1.43	1.65	1.62	1.74	1.69	
12			1.70	1.64	1.63	1.59	1.73	1.70	1.80	1.74	
13			1.24	1.18	1.00	0.94	1.47	1.46	1.63	1.60	
14			1.76	1.70	1.80	1.74	1.65	1.60	1.87	1.75	
15			1.45	1.39	1.45	1.38	1.54	1.50	1.29	1.24	
16			1.63	1.53	1.17	1.16	1.73	1.69	1.80	1.77	
17			1.84	1.79	1.29	1.25	1.58	1.56	1.54	1.47	
18			1.64	1.60	1.67	1.63	1.60	1.57	1.61	1.56	
19			1.67	1.67	0.97	0.93	1.66	1.58	1.70	1.63	
20			1.57	1.54	1.47	1.43	1.63	1.59	1.71	1.66	
21			1.82	1.80	0.89	0.84	1.73	1.71	1.60	1.56	
22			1.41	1.38	1.86	1.85	1.56	1.49	1.35	1.35	
23			1.72	1.71	1.59	1.66	1.73	1.88	1.78	1.75	
24			0.54	0.47	1.40	1.36	0.69	0.64	1.55	1.52	
25			1.44	1.37	1.66	1.61	1.88	1.81	1.31	1.18	
26			1.68	1.61	1.65	1.60	1.55	1.45	1.45	1.38	
27			1.73	1.67	0.25	0.23	1.70	1.60	1.73	1.70	
28			1.83	1.65	1.52	1.47	1.69	1.66	1.39	1.31	
29			1.50	1.46	1.58	1.53	1.56	1.51	1.60	1.56	
30			1.40	1.34	1.47	1.43	1.38	1.33	1.63	1.56	
31			0.42	0.33	1.18	1.13	1.51	1.48	1.39	1.37	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.51	1.44	1.34	1.29	1.48	1.44	1.58	1.53
TOTAL	0.0	0.0	Total Minimum	0.42		0.25		0.42		1.16	
			Free Minimum		0.33		0.23	0.41			1.06

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	1	0	1	0	1	0	1	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.23
Number of Total Residuals	124	Minimum Monthly Total Residual	0.25
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) N  
 Number of days of operation? 31

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 12/2014

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060	
2	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061	
3	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.059	
4	24.0	6	0.06	0.08	0.07	0.07	0.07	0.07	0.075	
5	24.0	6	0.07	0.07	0.08	0.06	0.05	0.05	0.080	
6	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
7	24.0	6	0.05	0.05	0.05	0.05	0.06	0.06	0.060	
8	24.0	6	0.06	0.05	0.06	0.06	0.05	0.05	0.059	
9	24.0	6	0.05	0.05	0.06	0.05	0.05	0.05	0.060	
10	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.055	
11	24.0	6	0.05	0.05	0.06	0.05	0.05	0.06	0.058	
12	23.5	6	0.05	0.06	0.05	0.05	0.05	0.05	0.057	
13	24.0	6	0.06	0.05	0.06	0.06	0.06	0.06	0.060	
14	24.0	6	0.05	0.06	0.06	0.06	0.05	0.06	0.060	
15	24.0	6	0.05	0.05	0.05	0.06	0.06	0.06	0.062	
16	23.5	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
17	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
18	24.0	6	0.05	0.06	0.06	0.06	0.06	0.06	0.059	
19	24.0	6	0.05	0.05	0.06	0.06	0.05	0.05	0.056	
20	24.0	6	0.07	0.06	0.06	0.05	0.05	0.05	0.069	
21	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.056	
22	24.0	6	0.05	0.08	0.08	0.06	0.07	0.07	0.079	
23	23.5	6	0.07	0.07	0.07	0.07	0.07	0.07	0.073	
24	24.0	6	0.06	0.06	0.06	0.06	0.07	0.05	0.071	
25	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
26	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.055	
27	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
28	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
29	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
30	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
31	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
<b>Total</b>	<b>742.5</b>	<b>186</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>186</b>	<b>0.080</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU 0 5 NTU 0

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Carl J. Alley 01-06-2015  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

12/2014

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>56,602,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,825,871</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,869,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>742.5</u>		Number of days of plant operation <u>31</u>	
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken <u>186</u>		Number of lowest chlorine samples recorded <u>31</u>	
Highest single turbidity reading <u>0.08</u>		Lowest single chlorine reading <u>1.50</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>0</u>		Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU <u>0</u>		<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.5 mg/L <u>0</u>	
Number of samples exceeded 5 NTU <u>0</u>			

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>31</u>		Number of days of plant operation <u>31</u>	
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

01-06-2015  
Date



PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987

## ANNUAL WATER SYSTEM DATA APPLICABLE TO ALL WATER SYSTEMS

TO BE SUBMITTED WITH DECEMBER MOR

NUMBER OF METERS: \_\_\_\_\_ SYSTEM POPULATION: 10,098

RESIDENTIAL: 3,400  
 COMMERCIAL: 100  
 INDUSTRIAL: \_\_\_\_\_

TOTAL POPULATION SERVED IN CONSECUTIVE SYSTEMS: (REFER TO TABLE BELOW) \_\_\_\_\_

**CONSECUTIVE SYSTEM POPULATIONS:**  
 (INFORMATION ON THE SYSTEMS/AREA TO WHOM YOU SELL WATER)

PWSID #	# OF METERS	PWSID #	# OF METERS

**CONTACT INFORMATION:**

	<u>WATER SYSTEM MANAGER/SUPERINT.</u>	<u>PLANT A</u>	<u>PLANT B</u>
NAME	<u>John Mills</u>	<u>Earl T Alley</u>	_____
TITLE	<u>General Manager</u>	<u>Plant Manager</u>	_____
OFFICE PHONE	<u>606-298-3885</u>	<u>606-298-7439 ext 5</u>	_____
CELL PHONE	<u>606-626-7741</u>	_____	_____
AFTER-HOURS PHONE	<u>606-626-7741</u>	<u>606-395-5613</u>	_____
MAILING ADDRESS	<u>387 E Main St, Suite 140 Inez, KY 41224</u>	<u>14 Flat Hollow Inez, KY 41224</u>	_____
EMAIL ADDRESS	<u>jmillis@bellsouth.net</u>	<u>etalley47@bellsouth.net</u>	_____
	<u>PLANT C</u>	<u>DISTRIBUTION</u>	<u>MOR CONTACT</u>
NAME	_____	_____	<u>Earl T Alley</u>
TITLE	_____	_____	<u>Plant Manager</u>
OFFICE PHONE	_____	_____	<u>606-298-7439</u>
CELL PHONE	_____	_____	_____
AFTER-HOURS PHONE	_____	_____	<u>606-395-5613</u>
MAILING ADDRESS	_____	_____	<u>14 Flat Hollow Inez, KY 41224</u>
EMAIL ADDRESS	_____	_____	<u>etalley47@bellsouth.net</u>

**Kentucky Division of Water  
Operational Evaluation Reporting Form**

**RECEIVED**  
AUG 18 2014  
WSID: KY 0800273  
BY: \_\_\_\_\_

Facility Name: Martin County Water District

The Stage 2 Operational Evaluation Level (OEL) process is used to "predict" TTHM and HAA5 results for the next compliance period. It provides a water system with a process for evaluating their entire system to identify ways to reduce future TTHM and HAA5 levels and avoid non-compliance.

- Once 3 quarters of Stage 2 DBP data is available and every quarter from that time on, Page 1 of this form is to be used to determine if one or more of the compliance monitoring sites have exceeded the Operational Evaluation Levels (OEL) for TTHM and/or HAA5. Use additional pages as needed.
- If the calculated OEL for any site exceeds the MCL, you shall complete Page 2 and submit it to the State no later than 90 days following the end of the quarter. This report includes an examination of system treatment and distribution practices, including storage tank operations, excess storage capacity, distribution system flushing, changes in sources or source water quality, and treatment changes or problems that may contribute to TTHM and HAA5 formation and what steps could be considered to minimize future exceedances.
- Unless the State has issued a written approval limiting the scope of the operational evaluation, Page 2 should be entirely completed.

Date of OEL Report: 8/5/2014

Date of written approval for limited evaluation (if applicable): N/A

Site ID	Analyte	Results from 4th Qtr. 202013 (Two Quarters Ago)	Results from 1st Qtr. 202014 (Previous Quarter)	Results from 2nd Qtr. 202014 (Current Quarter)	Operation Evaluation Level (OEL)	Check if Column D Exceeds 0.080 mg/L for TTHMs or 0.060 mg/L for HAA5—If so, complete Page 2 and submit to DOW
		A	B	C	D= (A+B+(2*C))/4	
SM8	TTHM	.073	.038	.080	0.068	<input type="checkbox"/>
	HAA5	.025	.053	.145	0.092	<input checked="" type="checkbox"/>
SM7	TTHM	.100	.044	.088	0.080	<input type="checkbox"/>
	HAA5	.031	.065	.180	0.114	<input checked="" type="checkbox"/>
118	TTHM	.076	.044	.070	0.065	<input type="checkbox"/>
	HAA5	.022	.015	.136	0.077	<input checked="" type="checkbox"/>
119	TTHM	.060	.035	.075	0.061	<input type="checkbox"/>
	HAA5	.020	.047	.136	0.085	<input checked="" type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>

**Sample Collection and Handling**

Were all TTHM and HAA5 samples collected and handled using proper SOPs? Yes  No   
Who collected the samples? PWS  Contract Lab   
Did sample collection and handling factors contribute to exceedance? Yes  No   
Other/Explain: \_\_\_\_\_

**Source Quality**

Did source water quality factors contribute to exceedance? Yes  No   
*(check all that apply)*  
 Point or non-point source contamination  Storage time longer than normal  Heavy Rainfall or snowmelt  
 New source placed on-line  Algae bloom in source water  Lake or reservoir turnover  
 Stream flow rates/reservoir level higher than normal  Stream flow rates/reservoir level lower than normal  Long term drought  
Other/Explain: \_\_\_\_\_

**Treatment Change/Problems**

Did water treatment factors contribute to exceedance? Yes  No   
*(check all that apply)*  
 Problem with clearwell operation  Increased filter effluent turbidity  Filters operated beyond capacity  
 Abnormal influent turbidity  Coagulation/sedimentation problems  Excessive filter run-time  
 Abnormal influent temperature  Abnormal flow rates/short-circuiting  TOC removal problems  
 Pre-disinfectant added/changed  Sludge blanket/carryover problems  Abnormal pH/Alkalinity  
 Disinfectant feed higher than normal  
Other/Explain: \_\_\_\_\_

**Distribution System**

Did distribution system factors contribute to exceedance? Yes  No   
*(check all that apply)*  
 Flushing (routine or compliant)  Fires or hydraulic disturbance  Valves operated in vicinity  
 Disinfectant residual lower than normal  High volume customer usage  Breaks or line replacements  
 Disinfectant residual higher than normal  Water temperature higher than normal  Booster chlorination  
 Water quality at Master Meter exceeds MCL  Low volume customer usage (contributing to high water age)  
Other/Explain: \_\_\_\_\_

**Storage Tank Operations**

Did water storage operations/factors contribute to exceedance? Yes  No   
*(check all that apply)*  
 Tank removed from service  Tank upstream from sample site  Excessive storage capacity  
 Tank cleaned/maintenance  Operated "last in -first out"  Excessive ambient temperature  
 Excessive tank draw-down  Improper level fluctuations  Disinfectant residual low in tank  
Other/Explain: \_\_\_\_\_

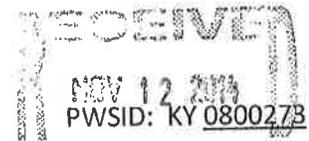
**Additional Comments**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Completed By: Earl T Alley Plant Manager Earl T. Alley  
(Printed Name) (Title) (Signature)

Phone: 1-606-298-7439 ext 5 E-mail: etalley47@bellsouth.net Date: 08/08/2014

## Kentucky Division of Water Operational Evaluation Reporting Form



Facility Name: Martin County Water District

The Stage 2 Operational Evaluation Level (OEL) process is used to "predict" TTHM and HAA5 results for the next compliance period. It provides a water system with a process for evaluating their entire system to identify ways to reduce future TTHM and HAA5 levels and avoid non-compliance.

- Once 3 quarters of Stage 2 DBP data is available and every quarter from that time on, Page 1 of this form is to be used to determine if one or more of the compliance monitoring sites have exceeded the Operational Evaluation Levels (OEL) for TTHM and/or HAA5. Use additional pages as needed.
- If the calculated OEL for any site exceeds the MCL, you shall complete Page 2 and submit it to the State no later than 90 days following the end of the quarter. This report includes an examination of system treatment and distribution practices, including storage tank operations, excess storage capacity, distribution system flushing, changes in sources or source water quality, and treatment changes or problems that may contribute to TTHM and HAA5 formation and what steps could be considered to minimize future exceedances.
- Unless the State has issued a written approval limiting the scope of the operational evaluation, Page 2 should be entirely completed.

Date of OEL Report: 10/30/14

Date of written approval for limited evaluation (if applicable): \_\_\_\_\_

Site ID	Analyte	Results from 1st Qtr. 2014 (Two Quarters Ago)	Results from 2nd Qtr. 2014 (Previous Quarter)	Results from 3rd Qtr. 2014 (Current Quarter)	Operation Evaluation Level (OEL)	Check If Column D Exceeds 0.080 mg/L for TTHMs or 0.060 mg/L for HAA5—If so, complete Page 2 and submit to DOW
		A	B	C	$D = (A+B+(2*C))/4$	<input type="checkbox"/>
SM8	TTHM	.038	.080	.178	0.119	<input checked="" type="checkbox"/>
	HAA5	.053	.145	.095	0.097	<input checked="" type="checkbox"/>
SM7	TTHM	.044	.088	.173	0.120	<input checked="" type="checkbox"/>
	HAA5	.065	.180	.046	0.084	<input checked="" type="checkbox"/>
118	TTHM	.044	.070	.155	0.106	<input checked="" type="checkbox"/>
	HAA5	.015	.136	.102	0.089	<input checked="" type="checkbox"/>
119	TTHM	.035	.075	.158	0.107	<input checked="" type="checkbox"/>
	HAA5	.047	.136	.090	0.091	<input checked="" type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>

**Sample Collection and Handling**

Were all TTHM and HAA5 samples collected and handled using proper SOPs? Yes  No   
Who collected the samples? PWS  Contract Lab   
Did sample collection and handling factors contribute to exceedance? Yes  No   
Other/Explain: \_\_\_\_\_

**Source Quality**

Did source water quality factors contribute to exceedance? Yes  No   
(check all that apply)  
 Point or non-point source contamination  Storage time longer than normal  Heavy Rainfall or snowmelt  
 New source placed on-line  Algae bloom in source water  Lake or reservoir turnover  
 Stream flow rates/reservoir level higher than normal  Stream flow rates/reservoir level lower than normal  Long term drought  
Other/Explain: \_\_\_\_\_

**Treatment Change/Problems**

Did water treatment factors contribute to exceedance? Yes  No   
(check all that apply)  
 Problem with clearwell operation  Increased filter effluent turbidity  Filters operated beyond capacity  
 Abnormal Influent turbidity  Coagulation/sedimentation problems  Excessive filter run-time  
 Abnormal influent temperature  Abnormal flow rates/short-circuiting  TOC removal problems  
 Pre-disinfectant added/changed  Sludge blanket/carryover problems  Abnormal pH/Alkalinity  
 Disinfectant feed higher than normal  
Other/Explain: \_\_\_\_\_

**Distribution System**

Did distribution system factors contribute to exceedance? Yes  No   
(check all that apply)  
 Flushing (routine or compliant)  Fires or hydraulic disturbance  Valves operated in vicinity  
 Disinfectant residual lower than normal  High volume customer usage  Breaks or line replacements  
 Disinfectant residual higher than normal  Water temperature higher than normal  Booster chlorination  
 Water quality at Master Meter exceeds MCL  Low volume customer usage (contributing to high water age)  
Other/Explain: \_\_\_\_\_

**Storage Tank Operations**

Did water storage operations/factors contribute to exceedance? Yes  No   
(check all that apply)  
 Tank removed from service  Tank upstream from sample site  Excessive storage capacity  
 Tank cleaned/maintenance  Operated "last in -first out"  Excessive ambient temperature  
 Excessive tank draw-down  Improper level fluctuations  Disinfectant residual low in tank  
Other/Explain: \_\_\_\_\_

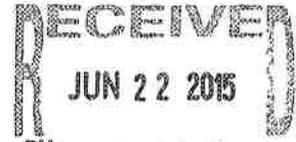
**Additional Comments**

Adjustments being made to treatment process. Instructed by DOW personnel to begin feeding carbon.  
Assistance being received for corrective action plan and treatment plant optimization.  
\_\_\_\_\_

Completed By: Earl T Alley Plant Manager Earl T. Alley  
(Printed Name) (Title) (Signature)

Phone: 606-298-7439 ext 5 E-mail: etalley47@bellsouth.net Date: 11/05/2014

# Consumer Confidence Report (CCR) Certification



PWS Name: Martin County Water District PWSID#: KY0800273 Population Served: 10395

I, the undersigned, certify that our system's Consumer Confidence Report for calendar year 2014 was prepared and distributed according to the requirements for our system in 40 CFR 141.153, 141.154, and 141.155 and appropriate notices of availability have been given. Also, I certify that the report contains information that is correct and consistent with the compliance monitoring data previously submitted to the Division of Water.

Date information to purchasers:  Written agreed alternative date on file. (Required if after April 1)  
PWSIDs of purchasers:

Date CCR distributed to customers: 6-4-15 Date CCR sent to Division of Water: 6-17-15

1. CCR main/primary distribution method:  Mailed  Hand Delivery  Electronic Delivery\*  Newspaper\*\*

\*Electronic Delivery list URL: www.krwa.org/2014ccr/martincounty.pdf

\*Electronic Delivery CCR Final Packet sent to DOW shall include hard copies of: Copy of CCR from Website, Bill insert/bill with notification of e-delivery, email notification to e-pay/auto-pay e-delivery including subject line, the # of emails sent and the # bounce back emails with a statement that indicates hardcopies were mailed to the bounced back email customers along with a copy of the notification Good Faith Effort Distribution method for e-delivery must be a non-electronic method.

\*\*Name of newspaper & date printed with the newspaper clipping of CCR showing the date the report was printed is required.

To use newspaper as the primary distribution method, your system must:

- a) Have a POPULATION less than 10,000; b) Publish the report in a local newspaper by July 1; c) Notify your customers by July 1<sup>st</sup> that the report will not be mailed unless requested, and it is available upon request.

Indicate how you notified customers that CCR will not be mailed unless requested. (example: Message on water bill, statement in newspaper, etc.) (Required if published in newspaper): Message on water bill

If your system serves a population of less than 500, you only need to notify your customers by July 1 that the report is available upon request. Indicate how customers were notified & how the report was made available upon request: N/A

2. CCR secondary/"Good faith" efforts (GFEs) to reach the non-bill-paying customers (indicate methods used)

Posting the CCR on the Internet URL: N/A (N/A with E-delivery as main distribution method)

- a)  Delivering multiple copies to non-bill-paying consumers at apartments, rest homes, hospitals, schools, factories, & etc. (list locations).
- b)  Delivering to community organizations (attach list).
- c)  Posting the CCR or an announcement of its availability in public places (attach list of locations).
- d)  Publishing CCR or an announcement of its availability in local newspaper (attach copy).
- e)  Advertising availability of the CCR in news media. (attach copy of announcement) (N/A with E-delivery as main distribution method)
- f)  Mailing CCR to postal patrons within the service area (attach zip codes used).
- g)  Other (attach description of additional methods used or explanation or use back of sheet).

Name: John Mills

Signature: [Handwritten Signature]

Title: Manager Phone: 606-298-3885 email: jmills@bellsouth.net

Address: 387 E Main St. Suite 140, Inez, KY 41224 Date: 6-17-15

Mail CCR & certification to:

Kentucky Division of Water  
Compliance Technical Assistance Section  
200 Fair Oaks Lane, 4th Floor  
Frankfort, KY 40601

ATTN: CCR

7

## Martin County Water District Water Quality Report 2014

Water System ID: KY0800273  
Manager: John Mills  
606-298-3885

CCR Contact: Tom Alley  
606-298-7439  
etalley47@bellsouth.net

Mailing Address:  
387 E Main St. Suite 140  
Inez, KY 41224

Meeting location and time:  
Water District Office  
Fourth Monday at 4:00 PM

Martin County Water District treats surface water withdrawn from Crum Reservoir and replenished from Tug River. Additional finished water was purchased from Kermit, West Virginia whose source is the Tug River Fork and also from Prestonsburg Utilities to supply water to the Industrial Park. The source for Prestonsburg is surface water from the Levisa Fork of the Big Sandy River. Potential contaminant sources of concern include major roads, bridges and culverts. Other potential impacts include the coal industry, oil and gas industries, and straight pipes. Many of the potential contaminant sites are located along the Tug Fork of the Big Sandy. With each rainfall, herbicides, pesticides, fertilizers, animal manure and household chemicals are washed from impervious surfaces and other land areas into storm drains, ditches, sinkholes or streams that flow into our nearby waterways. Source Water Assessment Plans have been developed for both water systems. The assessments are available for review at each of the respective water system offices and/or local public libraries.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

### Information About Lead:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

### Some or all of these definitions may be found in this report:

**Maximum Contaminant Level (MCL)** - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG)** - the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**Maximum Residual Disinfectant Level (MRDL)** - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG)** - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Below Detection Levels (BDL)** - laboratory analysis indicates that the contaminant is not present.

**Not Applicable (N/A)** - does not apply.

**Parts per million (ppm)** - or milligrams per liter, (mg/L). One part per million corresponds to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb)** - or micrograms per liter, (µg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**Parts per trillion (ppt)** - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

**Parts per quadrillion (ppq)** - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

**Picouries per liter (pCi/L)** - a measure of the radioactivity in water.

**Millirems per year (mrem/yr)** - measure of radiation absorbed by the body.

**Million Fibers per Liter (MFL)** - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

**Nephelometric Turbidity Unit (NTU)** - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

**Variations & Exemptions (V&E)** - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

**Action Level (AL)** - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

**Treatment Technique (TT)** - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old.

	Allowable Levels	Source	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity
Turbidity (NTU) TT	No more than 1 NTU	M=	0.708	94.6	Yes	Soil runoff
* Representative samples of filtered water	Less than 0.3 NTU in 95% monthly samples	P=	0.29	100	No	
		K=	0.13	100	No	

**Regulated Contaminant Test Results**

Contaminant [code] (units)	MCL	MCLG	Source	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Combined radium (pCi/L)	5	0	P=	0.7	0.7 to 0.7	2011	No	Erosion of natural deposits
Barium [1010] (ppm)	2	2	K=	0.056	0.056 to 0.056	2014	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	M=	0.040 (90 <sup>th</sup> percentile)	0 to 0.27	2014	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	M=	0.87	0.87 to 0.87	2014	No	Water additive which promotes strong teeth
			P=	0.95	0.95 to 0.95			
			K=	0.85	0.6 to 1.1			
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	M=	5 (90 <sup>th</sup> percentile)	0 to 6	2014	No	Corrosion of household plumbing systems
Nitrate [1040] (ppm)	10	10	M=	0.22	0.22 to 0.22	2014	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
			P=	0.4	0.4 to 0.4			
Selenium [1045] (ppb)	50	50	K=	1.6	1.6 to 1.6	2014	No	Discharge from petroleum and metal refineries or mines; erosion of natural deposits
Total Organic Carbon (ppm) (report level=lowest avg. range of monthly ratios)	TT*	N/A	M=	2.03	1 to 5.56	2014	No	Naturally present in environment.
			P=	1.11	1 to 2.4			

\*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.

Chlorine (ppm)	MRDL = 4	MRDLG = 4	M=	1.19 (highest average)	0.36 to 1.64	2014	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	M=	105 (average)	14.5 to 180.3 (range of individual sites)	2014	Yes	Byproduct of drinking water disinfection
THM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	M=	101 (average)	35 to 178 (range of individual sites)	2014	Yes	Byproduct of drinking water disinfection.

Unregulated Contaminants (UCMR 3)	average	range (ppb)	date
strontium	M= 440	440 to 440	2014
chromium-6	M= 0.05	0.046 to 0.053	2014
chlorate	M= 330	324 to 336	2014

EPA has not established drinking water standards for unregulated contaminants. There are no MCL's and therefore no violations if found.

Fluoride (added for dental health)	Average	Range of Detection
	0.90	0.8 to 1.09

**Turbidity.** Water samples for January 2014 showed that 5.4 percent of turbidity measurements were over 0.3 turbidity units – the standard is that no more than 5 percent of samples may exceed 0.3 turbidity units per month. We made repairs to our equipment. We inspected and cleaned the filters. The problem is resolved. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

**HAA & TTHM.** During the third and fourth quarters of 2014 we exceeded the MCL for HAA and TTHM. We are working to minimize the formation of haloacetic acids and trihalomethanes while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant types/levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

**Violations**

During 2014 Martin County Water District received several violations after our water system violated drinking water requirements. Even though these were not emergencies, as our customers, you have a right to know what happened and what we are doing to correct these situations. The table below lists the violations that we received during 2014. Public notifications were distributed for each of these violations.

Violation	Begin Date	End Date	Explanation
2014-9951151 (Turbidity)	1/1/2014	1/31/2014	Filter equipment failure. Repairs made. Resolved.
2015-9951155 (HAA)	7/1/2014	9/30/2014	Exceeded MCL. We are investigating solutions.
2015-9951159 (TTHM)	7/1/2014	9/30/2014	Exceeded MCL. We are investigating solutions.
2015-9951161 (HAA)	10/1/2014	12/31/2014	Exceeded MCL. We are investigating solutions.
2015-9951162 (TTHM)	10/1/2014	12/31/2014	Exceeded MCL. We are investigating solutions.

Martin County Water District  
 387 East Main St., Suite 140  
 Inez, KY 41224 (606) 298-3885

**BILL DATE** 6/20/2015  
**ACCOUNT** 29824  
 Bring Entire Card When Paying  
 In Person

PRESORTED  
 FIRST-CLASS MAIL  
 U.S. POSTAGE PAID  
 PERMIT #2 INEZ, KY 41224

Return Service Requested

**LOCATION** 115 Sansom Dr

Service	Account No.	Due Date	Amount	Payment Date	Balance	Amount	Amount	
R1 Res. N/Tax Water	19629201	4/20/2015	351	5/20/2015	358	7000	\$60.00	
GC-School Tax							\$1.80	
							<b>NET DUE NOW</b>	\$67.98

After Hours Emergency Number: (606) 298-7439

Pay your bill @ [www.mcub.org](http://www.mcub.org)



606 298 3885  
 115 Sansom Dr  
 Inez, KY 41224

**Notice by Martin County Water District -- System ID#: KY0800273**  
 Our water system recently violated a drinking water requirement. Although this was not an emergency you have a right to know what happens to routinely monitor your water for turbidity (cloudiness). This tells us whether we are effectively filtering the water supply. On 2/23/2015 we had a turbidity result of 1.195 NTU. This was above the standard of 1.0 NTU. Water samples for February 2015 showed that 6.58 percent of turbidity measurements were over 0.3 turbidity units - the standard is that no more than 5 percent of samples may exceed 0.3 turbidity units per month. Turbidity levels are relatively low. However, their persistence is a concern. Normal turbidity levels at our plant are 0.12 units. This is not an emergency. If it had been, you would have been notified within 24 hours.

There is nothing you need to do. You do not need to boil your water or take other actions. We do not know of any contamination, and none of our testing has shown disease-causing organisms in the drinking water. If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

High turbidity on top of the filters occurred when a rakes motor failed and due to high demand we had to continue operations. The problem was resolved within three days. For more information, please contact John Mills at (606) 298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

2014 Martin County Water District annual water quality report is available. This report contains important information about your drinking water. Please go to <http://www.krwa.org/2014ccr/martincounty.pdf> to view your 2014 annual water quality report or to request a paper copy call (606) 298-3885.

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
6/4/15	Martin County Court House
6/4/15	Martin Co. Public Libraries
6/4/15	Quail Hollow Apartments
6/4/15	Dempsey Housing
6/4/15	Martin County Health Department
6/4/15	Inez Post Office
6/4/15	Warfield Post Office
6/4/15	Blakemoore Estates

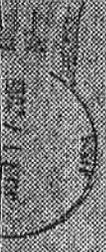
I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature:  Date: 6-17-15

MARTIN CO WATER DISTRICT NO 1

Martin County Utility Board  
387 E Main St Suite 110  
Inez, KY 41224  
(606)298-3885



Kentucky Division of Water  
Compliance Technical Assistance Section  
200 Fair Oaks Lane, 4th Floor  
Frankfort, KY 40601





## ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
[www.water.ky.gov](http://www.water.ky.gov)

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

July 22, 2015

TO: Public Water Systems

RE: Revised Total Coliform Rule 401KAR 8:200, 40 C.F.R. 141.851 -141.861

Dear Drinking Water Suppliers:

We are writing in regard to the implementation of the Revised Total Coliform Rule (RTCR). The RTCR applies to all Public Water Systems (PWS) as defined by 40 C.F.R. 141.2. The intent of the RTCR is to provide increased protection against pathogens in public water systems. The requirements of the RTCR will take effect January 1, 2016. You are receiving this letter because our data shows this regulation will apply to your public water system.

The PWS must complete the enclosed form and return to the Division of Water before September 30th, 2015. When returning the form to the division, PWS must also include any revised sampling site plans. The form covers the following information:

- Public water system name and public water system identification number (PWSID)
- Public water system's contact information
- Population calculation
- Number of required minimum routine total coliform samples
- Number of routine samples the public water system will take above the minimum required, if applicable
- Alternate repeat sampling
  - Fixed location repeat sampling
  - Alternate repeat sampling

The RTCR will require routine distribution samples to determine presence or absence of total coliforms and *E. Coli*. The public water system will be required to take the minimum number of samples required by the regulation which is based off population served. The population size is calculated by multiplying the total number of service connections by 2.69. Alternative population numbers that can be used are the recent United States Census data or Water Resource Information databases located at <http://wris.ky.gov/portal/sysdata>.

Public water systems can take more than the required minimum number of samples if they choose to do so. The water system shall provide the number of samples they choose to take over the minimum requirement to the Division of Water in writing. The state will set this number of samples as the minimum to meet compliance.

Revised and alternate repeat sampling site plans and standard operating procedure (SOP) must be reviewed and approved by the Division of Water. Please refer to 40 C.F.R 141.853 (5)(i). To view an alternate repeat sampling site SOP template provide by the Division of Water, please go to <http://dep.ky.gov/formslibrary/Documents/RCTR%20Alternate%20Sanpling%20Site%20Guidance.docx>.

If you have questions or need assistance, contact me at 502-564-3410 or [Rodney.Ripberger@ky.gov](mailto:Rodney.Ripberger@ky.gov).

C: Drinking Water Files  
Enclosures

Sincerely,



Rodney Ripberger  
Compliance Officer  
Division of Water

## Division of Water Revised Total Coliform Rule Public Water System Information Form

PWSID:
Name:
Address:
City/State/Zip:
County:
Contact Person:
Phone Number:
Email:

<b>Population Calculation &amp; Minimum Number of Required Samples</b>	
Total # of all meters (enter the all meters for water system)	→
Standard Calculation	X 2.69
Population	=
Minimum Number of Samples	#
Reference Total Coliform Frequency Chart on back for Min # of Samples	

Questions: If the answer is Yes to any question in this section, please continue to the next section to complete the appropriate information.	Yes	No
Will Public Water System use an alternate population method allowed by the regulation instead of standard calculation?		
Will Public Water System take more than the required minimum total coliform samples?		
Will Public System have alternate repeat sample site plan?		

Population Number \_\_\_\_\_ Source \_\_\_\_\_ Minimum Number of Samples \_\_\_\_\_

The additional samples that will be taken plus the minimum required samples is the total number used for compliance. Total number of samples \_\_\_\_\_

PWS must attach/include alternative repeat sampling SOP and/or proposed alternative repeat sample site plan with this form.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Return completed form and supporting information and documents before September 30th 2015 to:

Division of Water  
 Compliance Technical Assistance Branch  
 200 Fair Oaks Lane 4th ATTN: Rodney Ripberger/RTCR  
 Frankfort, KY 40601



**TOTAL COLIFORM MONITORING FREQUENCY FOR PUBLIC WATER SYSTEMS SERVING MORE THAN 1,000 PEOPLE**

Population Served	Minimum Number of Samples Per Month	Population Served	Minimum Number of Samples Per Month
0 to 1000	1	70,001 to 83,000	80
1,001 to 2,500	2	83,001 to 96,000	90
2,501 to 3,300	3	96,001 to 130,000	100
3,301 to 4,100	4	130,001 to 220,000	120
4,101 to 4,900	5	220,001 to 320,000	150
4,901 to 5,800	6	320,001 to 450,000	180
5,801 to 6,700	7	450,001 to 600,000	210
6,701 to 7,600	8	600,001 to 780,000	240
7,601 to 8,500	9	780,001 to 970,000	270
8,501 to 12,900	10	970,001 to 1,230,000	300
12,901 to 17,200	15	1,230,001 to 1,520,000	330
17,201 to 21,500	20	1,520,001 to 1,850,000	360
21,501 to 25,000	25	1,850,001 to 2,270,000	390
25,001 to 33,000	30	2,270,001 to 3,020,000	420
33,001 to 41,000	40	3,020,001 to 3,960,000	450
41,001 to 50,000	50	3,960,001 or more	480
50,001 to 59,000	60		
59,001 to 70,000	70		



SAMPLE CATEGORY = GE  
ENTRY POINT SAMPLING

KENTUCKY DIVISION OF WATER / DRINKING WATER RESULTS  
SYNTHETIC ORGANIC CHEMICAL (SOC) ANALYSIS REPORT FORM  
(Excluding Dioxin / 2,3,7,8-TCDD)

JUN 16 2015

Rev. 06/01/2011

This Section To Be Completed By Collector

PWS ID KY 0800273 Plant ID A Plant Name Martin Co WTP Location Code T P A  
 PWS Name Martin Co. Water District #1 PWS Contact Tom Alley  
 PWS Address HC 69 Box 875, Inez, KY 41224 PWS Phone 606-298-3885  
 Sample Date 05212015 Time 11:15 AM Sample Type R T Collector Name Austin Bentley / 5-21-15  
RT = Routine (For Compliance) SP = Special (Not for Compliance)

This Section To Be Completed By Lab

Lab ID 90018 Lab Sample Number 16654-01 Lab Phone 740-389-5991  
 Lab Analyst [Signature] 6/9/15 Lab Supervisor [Signature] 6/9/15

Analyte Code	Analyte Name	Analysis Method Code	<	Result (mg/L) -or- Lab Minimum Reporting Limit (mg/L)	Analysis Date (MMDDYYYY)
2051	ALACHLOR (LASSO)	711	<	0.00010	05292015
2047	ALDICARB	962	<	0.00050	05292015
2044	ALDICARB SULFONE	962	<	0.00050	05292015
2043	ALDICARB SULFOXIDE	962	<	0.00050	05292015
2050	ATRAZINE	711	<	0.000071	05292015
2306	BENZO (A) PYRENE (PHA)	711	<	0.000018	05292015
2046	CARBOFURAN	962	<	0.00050	05292015
2959	CHLORDANE	708	<	0.00022	05292015
2031	DALAPON	703	<	0.001	06042015
2035	DI(2-ETHYLHEXYL) ADIPATE	711	<	0.00050	05292015
2039	DI(2-ETHYLHEXYL) PHTHALATE	711	<	0.00050	05292015
2041	DINOSEB	703	<	0.00020	06042015
2032	DIQUAT	727	<	0.00040	05222015
2033	ENDOTHALL	726	<	0.009	05312015
2005	ENDRIN	708	<	0.000011	05292015
2946	ETHYLENE DIBROMIDE (EDB)	719	<	0.000069	05272015
2034	GLYPHOSATE	724	<	0.006	05262015
2065	HEPTACHLOR	708	<	0.000043	05292015
2067	HEPTACHLOR EPOXIDE	708	<	0.000022	05292015
2274	HEXACHLOROBENZENE (HCB)	708	<	0.000011	05292015
2042	HEXACHLOROCYCLOPENTADIENE (HEX)	708	<	0.000011	05292015
2010	LINDANE (BHC-GAMMA)	708	<	0.000022	05292015
2015	METHOXYCHLOR	708	<	0.000011	05292015
2036	OXAMYL (VYDATE)	962	<	0.00050	05292015
2383	PCB (AS DECACHLOROBIPHENYL)	708	<	0.000011	05292015
2326	PENTACHLOROPHENOL	703	<	0.000040	06042015
2040	PICLORAM	703	<	0.000010	06042015
2037	SIMAZINE	711	<	0.000015	05292015
2020	TOXAPHENE	708	<	0.000011	05292015
2931	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	719	<	0.000014	05272015
2105	2,4-D	703	<	0.000010	06042015
2110	2,4,5-TP (SILVEX)	703	<	0.000020	06042015

The signatories of this form certify by their signatures that collection and analysis of the water sample analyzed and the resulting data hereby submitted, were completed in accordance with the provisions of 401 KAR Chapter 8, and that the data submitted on this form is a true and accurate report of the results of collection and analysis performed pursuant to the above-referenced regulations. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.89-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

SAMPLE CATEGORY = GE  
ENTRY POINT SAMPLING

KENTUCKY DIVISION OF WATER / DRINKING WATER RESULTS  
SYNTHETIC ORGANIC CHEMICAL (SOC) ANALYSIS REPORT FORM  
(Excluding Dioxin / 2,3,7,8-TCDD)

RECEIVED  
SEP 30 2015

Rev. 08/1/2011

This Section To Be Completed By Collector

PWS ID KY08000273 Plant ID A Plant Name Martin Co WTP BY: TPA Location Code TPA  
PWS Name Martin Co. Water District #1 PWS Contact Tom Alley  
PWS Address HC 69 Box 875, Inez, KY 41224 PWS Phone 606-298-3885  
Sample Date (MMDDYYYY) 08202015 Time 1:30 PM Sample Type RT Collector Name Keith R. Liddell Signature/Date 8/20/15  
RT = Routine (For Compliance)  
SP = Special (Not for Compliance)

This Section To Be Completed By Lab

Lab ID 90018 Lab Sample Number 22081-01 Lab Phone 740-389-5991  
Lab Analyst C. C. Hall Signature/Date 9/11/15 Lab Supervisor R. M. Owens Signature/Date 9/14/15

Analyte Code	Analyte Name	Analysis Method Code	<	Result (mg/L)		Analysis Date (MMDDYYYY)
				-or-	Lab Minimum Reporting Limit (mg/L)	
2051	ALACHLOR (LASSO)	711	<	0.00010		08272015
2047	ALDICARB	962	<	0.00050		09032015
2044	ALDICARB SULFONE	962	<	0.00050		09032015
2043	ALDICARB SULFOXIDE	962	<	0.00050		09032015
2050	ATRAZINE	711	<	0.00070		08272015
2306	BENZO (A) PYRENE (PHA)	711	<	0.00018		08272015
2046	CARBOFURAN	962	<	0.00050		09032015
2959	CHLORDANE	708	<	0.0022		09032015
2031	DALAPON	703	<	0.001		09032015
2035	DI (2-ETHYLHEXYL) ADIPATE	711	<	0.00050		08272015
2039	DI(2-ETHYLHEXYL) PHTHALATE	711	<	0.00050		08272015
2041	DINOSEB	703	<	0.0020		09032015
2032	DIQUAT	727	<	0.0040		08252015
2033	ENDOTHALL	726	<	0.009		08272015
2005	ENDRIN	708	<	0.00011		09032015
2946	ETHYLENE DIBROMIDE (EDB)	719	<	0.00071		08252015
2034	GLYPHOSATE	724	<	0.006		08272015
2065	HEPTACHLOR	708	<	0.0043		09032015
2067	HEPTACHLOR EPOXIDE	708	<	0.0022		09032015
2274	HEXACHLOROBENZENE (HCB)	708	<	0.0011		09032015
2042	HEXACHLOROCYCLOPENTADIENE (HEX)	708	<	0.0011		09032015
2010	LINDANE (BHC-GAMMA)	708	<	0.0022		09032015
2015	METHOXYCHLOR	708	<	0.0011		09032015
2036	OXAMYL (VYDATE)	962	<	0.00050		09032015
2383	PCB (AS DECAChLOROBIPHENYL)	708	<	0.0011		09032015
2326	PENTACHLOROPHENOL	703	<	0.0040		09032015
2040	PICLORAM	703	<	0.0010		09032015
2037	SIMAZINE	711	<	0.00050		08272015
2020	TOXAPHENE	708	<	0.0011		09032015
2931	1,2 DIBROMO-3-CHLOROPROPANE (DBCP)	719	<	0.0014		08252015
2105	2,4-D	703	<	0.0010		09032015
2110	2,4,5-TP (SILVEX)	703	<	0.0020		09032015

The signatories of this form certify by their signatures that collection and analysis of the water sample analyzed and the resulting data hereby submitted, were completed in accordance with the provisions of 401 KAR Chapter 8; and that the data submitted on this form is a true and accurate report of the results of collection and analysis performed pursuant to the above-referenced regulations. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

KENTUCKY DIVISION OF WATER/DRINKING WATER BRANCH  
 SECONDARY CONTAMINANT ANALYSIS REPORT FORM

**RECEIVED**  
 MAY 01 2015  
 CORRECTED REPORT  
 BY: \_\_\_\_\_

SAMPLE CATEGORY #CH  
 ENTRY POINT OR DISTRIBUTION SAMPLING

Rev. 01/15/2006

This Section To Be Completed By Collector

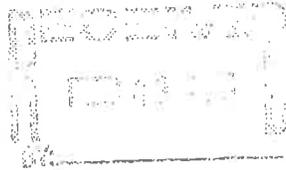
PWS ID  Plant ID  OR Dist  Plant Name or Location Name Martin Co. Water District Location Code   
 PWS Name Martin Co. Water District #1 PWS Contact Joe Hammond  
 PWS Address 287 E Main St Suite 140 Inez, KY 41224 PWS Phone (606) 298-3885  
 Sample Date (MMDDYYYY)  Time  Sample Type   
RT=Routine (For Compliance)  
 SP=Special (Not for Compliance) Collector Name Dustin Bentley 3-12-15/TJS Signature/Date 4-17-15

This Section To Be Completed By Lab

Lab ID  Lab Sample Number  Lab Phone (606) 437-5616  
 Lab Analyst Matthew Williams 3-18-15 Lab Supervisor Shaw Priddy 4-17-15  
 Signature/Date \_\_\_\_\_ Signature/Date \_\_\_\_\_

Analyte Code	Analyte Name	Analysis Method Code	<	Results (mg/L) or Lab Minimum Reporting Limit (mg/L)	Analysis Date (MMDDYYYY)
<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="2"/>	ALUMINUM	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="7"/>	CHLORIDE	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
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<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="2"/> <input type="text" value="5"/>	FLUORIDE	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="2"/> <input type="text" value="8"/>	IRON	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="2"/>	MANGANESE	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="5"/> <input type="text" value="0"/>	SILVER	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="2"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="8"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
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<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="5"/>	ZINC	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="0"/> <input type="text" value="5"/>	COLOR (cu)	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="1"/> <input type="text" value="0"/>	CORROSIVITY (LANG)	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="2"/> <input type="text" value="0"/>	ODOR (TON)	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="2"/> <input type="text" value="5"/>	pH	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="3"/> <input type="text" value="0"/>	TOTAL DISSOLVED SOLIDS (TDS)	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>
<input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="0"/> <input type="text" value="5"/>	FOAMING AGENTS / SURFACTANTS	<input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="7"/>	<input type="checkbox"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="5"/>

The signatories of this form certify by their signatures that collection and analysis of the water sample analyzed and the resulting data hereby submitted, were completed in accordance with the provisions of 401 KAR Chapter 8, and that the data submitted on this form is a true and accurate report of the results of collection and analysis performed pursuant to the above-referenced regulations. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.



KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

01/2015

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	02/04/2015	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Jerry L Belcher	1V-A	21719	
DISTRIBUTION:	James W Goble	11-A	27288	

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 0.8
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

02/04/2015  
DATE

12

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 01/2015

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,786,000	24.0	155.0	10.4	4.2	0.3			248.1	16.7	159.8	10.7
2	1,786,000	24.0	155.0	10.4	4.2	0.3			248.1	16.7	159.8	10.7
3	1,775,000	24.0	155.0	10.5	4.2	0.3			248.1	16.8	159.8	10.8
4	1,774,000	24.0	155.0	10.5	4.2	0.3			252.8	17.1	159.8	10.8
5	1,821,000	24.0	155.0	10.2	4.2	0.3			248.1	16.3	159.8	10.5
6	1,787,000	23.5	151.8	10.2	4.2	0.3			250.6	16.8	156.5	10.5
7	1,842,000	24.0	155.0	10.1	4.2	0.3			247.9	16.1	169.2	11.0
8	1,804,000	24.0	155.0	10.3	4.2	0.3			256.4	17.0	169.2	11.2
9	1,816,000	24.0	155.0	10.2	4.2	0.3			247.9	16.4	183.1	12.1
10	1,818,000	24.0	155.0	10.2	4.2	0.3			249.8	16.5	183.1	12.1
11	1,794,000	24.0	155.0	10.4	4.2	0.3			252.1	16.8	183.1	12.2
12	1,782,000	23.5	151.8	10.2	4.1	0.3			253.4	17.1	179.3	12.1
13	1,785,000	24.0	155.0	10.4	4.2	0.3			261.3	17.6	183.1	12.3
14	1,775,000	24.0	155.0	10.5	4.2	0.3			247.9	16.7	183.1	12.4
15	1,806,000	24.0	155.0	10.3	4.2	0.3			265.5	17.6	183.1	12.2
16	1,890,000	24.0	155.0	9.8	4.2	0.3			277.0	17.6	183.1	11.6
17	1,886,000	24.0	155.0	9.9	4.2	0.3			272.4	17.3	183.1	11.6
18	1,845,000	24.0	155.0	10.1	4.2	0.3			271.5	17.6	183.1	11.9
19	1,865,000	24.0	155.0	10.0	4.2	0.3			269.8	17.3	183.1	11.8
20	1,814,000	24.0	155.0	10.2	4.2	0.3			270.2	17.9	183.1	12.1
21	1,841,000	24.0	155.0	10.1	4.2	0.3			263.0	17.1	183.1	11.9
22	1,834,000	24.0	155.0	10.1	4.2	0.3			261.1	17.1	183.1	12.0
23	1,861,000	24.0	155.0	10.0	4.2	0.3			250.8	16.2	183.1	11.8
24	1,823,000	24.0	155.0	10.2	4.2	0.3			248.1	16.3	183.1	12.0
25	1,844,000	24.0	155.0	10.1	4.2	0.3			248.1	16.1	183.1	11.9
26	1,799,000	24.0	155.0	10.3	4.2	0.3			248.1	16.5	183.1	12.2
27	1,660,000	24.0	155.0	11.2	4.2	0.3			239.8	17.3	183.1	13.2
28	1,725,000	24.0	155.0	10.8	4.2	0.3			232.5	16.2	183.1	12.7
29	1,712,000	24.0	155.0	10.9	4.2	0.3			248.1	17.4	183.1	12.8
30	1,739,000	24.0	155.0	10.7	4.2	0.3			248.1	17.1	183.1	12.6
31	1,711,000	24.0	155.0	10.9	4.2	0.3			248.1	17.4	183.1	12.8
TOTAL	55,800,000		4798.6		130.1		0.0		7874.7		5501.4	
AVERAGE	1,800,000		154.8	10.3	4.2	0.3	#DIV/0!	#DIV/0!	254.0	16.9	177.5	11.8
MAX	1,890,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 01/2016

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (MILLIGRAMS PER LITER UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	7.80	7.72	7.53	85	81	105	110	0.71	0.65	1.88	1.82	2.39	0.15	0.05	
2	7.84	7.68	7.54	78	74	110	114	0.75	0.68	1.96	1.89	2.27	0.13	0.05	
3	7.76	7.59	7.46	81	77	98	103	0.74	0.66	2.00	1.93	2.25	0.13	0.05	
4	7.73	7.67	7.47	72	68	126	131	0.77	0.71	1.98	1.91	4.28	0.14	0.05	
5	7.74	7.58	7.43	62	58	118	123	0.68	0.62	1.92	1.86	5.23	0.14	0.05	
6	7.62	7.56	7.40	62	66	132	115	0.66	0.59	1.86	1.78	5.26	0.16	0.05	
7	7.73	7.63	7.46	65	62	100	110	0.55	0.49	1.79	1.74	5.85	0.14	0.05	
8	7.64	7.53	7.36	57	51	93	101	0.57	0.51	1.84	1.78	6.47	0.18	0.05	
9	7.74	7.55	7.38	53	49	88	94	0.57	0.49	1.91	1.85	6.24	0.14	0.05	
10	7.64	7.49	7.28	59	54	103	110	0.57	0.51	1.93	1.88	6.30	0.16	0.04	
11	7.67	7.49	7.30	60	55	101	107	0.56	0.51	1.84	1.81	6.20	0.14	0.05	
12	7.67	7.52	7.34	63	59	104	112	0.55	0.48	1.87	1.83	6.06	0.15	0.05	
13	7.60	7.48	7.34	62	57	100	107	0.57	0.50	1.84	1.78	5.92	0.18	0.05	
14	7.42	7.46	7.36	65	60	85	92	0.56	0.49	1.92	1.87	5.48	0.14	0.05	
15	7.38	7.37	7.25	46	42	88	84	0.66	0.58	1.95	1.88	5.90	0.15	0.05	
16	7.34	7.31	7.18	46	42	82	79	0.77	0.71	2.00	1.95	5.93	0.20	0.05	
17	7.35	7.29	7.14	41	36	78	74	0.70	0.61	1.97	1.93	5.35	0.18	0.06	
18	7.41	7.32	7.16	47	42	78	73	0.75	0.67	2.06	2.00	4.75	0.20	0.05	
19	7.43	7.34	7.18	47	43	77	72	0.75	0.68	2.00	1.95	4.74	0.17	0.04	
20	7.44	7.35	7.24	57	53	92	88	0.74	0.67	1.97	1.90	4.52	0.17	0.04	
21	7.46	7.35	7.27	54	50	85	82	0.64	0.55	1.94	1.89	4.32	0.19	0.05	
22	7.36	7.35	7.26	48	44	85	80	0.71	0.64	1.95	1.90	7.36	0.18	0.05	
23	7.48	7.44	7.31	56	50	93	89	0.74	0.65	1.91	1.84	4.08	0.17	0.04	
24	7.57	7.46	7.35	59	55	103	98	0.64	0.56	1.88	1.83	4.08	0.16	0.04	
25	7.56	7.45	7.34	58	53	85	81	0.69	0.61	1.92	1.86	3.85	0.15	0.04	
26	7.52	7.44	7.32	59	55	100	96	0.67	0.60	1.91	1.88	3.78	0.17	0.04	
27	7.42	7.48	7.33	55	50	97	92	0.63	0.57	1.93	1.87	4.61	0.17	0.04	
28	7.47	7.46	7.34	56	60	98	95	0.65	0.57	1.89	1.82	4.38	0.18	0.04	
29	7.45	7.50	7.38	64	59	90	88	0.63	0.55	1.89	1.84	4.50	0.24	0.05	
30	7.60	7.49	7.37	56	52	97	94	0.64	0.58	1.87	1.81	4.37	0.23	0.04	
31	7.53	7.47	7.33	59	54	100	96	0.61	0.53	1.94	1.88	4.87	0.19	0.04	
AVERAGE	7.6	7.5	7.3	59	55	96	96	0.66	0.59	1.92	1.86	4.89	0.17	0.05	

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 01/2015

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE A8 NEEDED

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	2.39		0.16	0.18						0.06	0.05	0.08	0.04		0.05
2	2.27		0.15	0.16						0.06	0.05	0.08	0.03		0.05
3	2.25		0.15	0.14						0.06	0.05	0.08	0.02		0.05
4	4.28		0.18	0.16						0.06	0.05	0.09	0.02		0.06
5	5.23		0.15	0.13						0.05	0.05	0.08	0.04		0.05
6	5.26		0.20	0.21						0.05	0.05	0.07	0.02		0.05
7	5.85		0.21	0.16						0.06	0.06	0.08	0.03		0.05
8	6.47		0.24	0.21						0.05	0.05	0.10	0.02		0.06
9	6.24		0.17	0.14						0.06	0.05	0.08	0.04		0.05
10	6.30		0.22	0.15						0.05	0.05	0.06	0.02		0.05
11	6.20		0.20	0.13						0.05	0.05	0.07	0.02		0.05
12	6.06		0.24	0.14						0.06	0.05	0.07	0.02		0.05
13	5.92		0.28	0.15						0.05	0.05	0.11	0.04		0.06
14	5.48		0.22	0.14						0.05	0.04	0.06	0.02		0.04
15	5.90		0.26	0.15						0.05	0.04	0.08	0.02		0.05
16	5.93		0.27	0.18						0.05	0.05	0.08	0.02		0.05
17	5.35		0.30	0.17						0.05	0.05	0.10	0.02		0.05
18	4.50		0.22	0.15						0.05	0.04	0.08	0.02		0.05
19	4.74		0.27	0.24						0.05	0.04	0.16	0.03		0.05
20	4.52		0.23	0.18						0.05	0.04	0.07	0.04		0.05
21	4.32		0.19	0.26						0.05	0.05	0.04	0.09		0.06
22	7.36		0.18	0.20						0.05	0.04	0.05	0.07		0.06
23	4.08		0.22	0.18						0.04	0.04	0.04	0.03		0.04
24	4.08		0.24	0.17						0.04	0.04	0.05	0.02		0.04
25	3.85		0.22	0.17						0.05	0.05	0.04	0.02		0.04
26	3.78		0.25	0.18						0.05	0.04	0.04	0.02		0.04
27	4.61		0.24	0.17						0.04	0.04	0.06	0.02		0.05
28	4.38		0.27	0.19						0.05	0.04	0.05	0.02		0.05
29	4.50		0.35	0.22						0.05	0.06	0.07	0.02		0.05
30	4.37		0.30	0.21						0.05	0.05	0.07	0.02		0.05
31	4.87		0.27	0.14						0.05	0.04	0.08	0.03		0.05
AVERAGE	4.9	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.05	0.07	0.03	#DIV/0!	0.05

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 01/2015

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F°/C°
1	0.29	1.20	0.22	0.03	0.04	0.01			1.64	0.0	8.6
2	0.26	1.20	0.23	0.03	0.04	0.01			1.75	0.0	8.1
3	0.27	1.30	0.26	0.03	0.05	0.01			1.75	0.1	8.1
4	0.35	1.31	0.26	0.03	0.05	0.01			1.75	0.8	8.2
5	0.23	1.22	0.28	0.03	0.07	0.01			1.75	0.0	8.1
6	0.32	1.15	0.29	0.03	0.06	0.01			1.75	0.0	8.0
7	0.11	1.00	0.31	0.03	0.05	0.01			1.75	0.0	7.8
8	0.19	1.01	0.33	0.03	0.07	0.01			1.75	0.0	5.9
9	0.14	1.26	0.33	0.03	0.08	0.01			1.70	0.0	5.8
10	0.22	1.29	0.30	0.03	0.08	0.01			1.75	0.0	6.1
11	0.14	1.28	0.31	0.03	0.09	0.01			1.80	0.0	5.9
12	0.26	1.40	0.30	0.03	0.08	0.01			1.80	0.2	6.4
13	0.16	1.11	0.36	0.03	0.07	0.01			1.80	0.3	6.2
14	0.24	0.70	0.33	0.03	0.09	0.01			1.85	0.0	6.9
15	0.25	0.71	0.46	0.03	0.07	0.01			1.75	0.0	5.9
16	0.19	1.12	0.43	0.03	0.09	0.01			1.80	0.0	5.9
17	0.22	1.05	0.43	0.03	0.08	0.01			1.80	0.0	6.1
18	0.20	1.09	0.39	0.03	0.08	0.01			1.80	0.0	6.7
19	0.15	1.17	0.40	0.03	0.08	0.01			1.80	0.1	6.8
20	0.18	1.19	0.38	0.03	0.08	0.01			1.80	0.0	7.3
21	0.24	0.95	0.41	0.03	0.07	0.01			1.70	0.0	7.7
22	0.19	0.83	0.35	0.03	0.01	0.01			1.85	0.0	8.4
23	0.33	1.03	0.33	0.03	0.07	0.01			1.75	0.0	7.3
24	0.29	0.99	0.31	0.03	0.07	0.01			1.75	0.6	7.3
25	0.23	0.97	0.34	0.03	0.07	0.01			1.80	0.0	7.2
26	0.20	1.06	0.34	0.03	0.07	0.01			1.75	0.1	7.5
27	0.16	0.91	0.36	0.03	0.09	0.01			1.75	0.1	6.9
28	0.23	0.94	0.36	0.03	0.09	0.01			1.70	0.0	7.2
29	0.23	1.03	0.33	0.03	0.09	0.01			1.75	0.0	7.6
30	0.30	1.06	0.37	0.03	0.09	0.01			1.75	0.1	7.1
31	0.26	1.04	0.41	0.03	0.10	0.01			1.70	0.1	6.7
AVERAGE	0.23	1.08	0.34	0.03	0.07	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	7.1
									1.64		
									Number of readings	31	2.31
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 01/2015

PAGE 6 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	FILT RUN HRS								
1	28,000					14,000	94.80	14,000	94.90		
2	0										
3	24,000	12,000	98.90	12,000	98.90						
4	35,000					18,000	91.10	17,000	91.10		
5	0										
6	30,000	15,000	91.80	15,000	91.80						
7	0										
8	32,000					16,000	94.50	16,000	94.60		
9	0										
10											
11	0										
12	29,000	15,000	127.80	14,000	127.80						
13	35,000					17,000	115.20	18,000	115.20		
14	0										
15	0										
16	0										
17	24,000	12,000	118.90	12,000	118.90						
18	24,000					12,000	122.80	12,000	122.90		
19	0										
20	24,000	12,000	91.40	12,000	91.40						
21	0										
22	33,000					17,000	91.30	16,000	91.30		
23	0										
24	30,000	15,000	95.10	15,000	95.10						
25	0										
26	0										
27	30,000					15,000	102.80	15,000	102.80		
28	32,000	16,000	95.70	16,000	95.70						
29	0										
30	31,000					16,000	90.80	15,000	90.80		
31	0										
TOTAL	441,000	97,000	719.60	96,000	719.60	125,000	803.30	123,000	803.60	0	0.00
AVERAGE	14,700	13,857	102.800	13,714	102.800	15,625	100.413	15,375	100.450	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 01/2015

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER	CHLORINE BOOSTER	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
	LBS	LBS	NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1			1.76	1.70	1.46	1.41	1.83	1.76	1.52	1.44	
2			1.56	1.50	1.42	1.35	1.56	1.54	1.74	1.67	
3			1.71	1.62	1.47	1.37	1.55	1.44	1.82	1.75	
4			1.57	1.50	0.73	0.69	1.58	1.56	1.80	1.75	
5			1.63	1.56	1.77	1.70	1.61	1.59	1.68	1.52	
6			1.66	1.56	1.15	1.10	1.17	1.14	1.24	1.16	
7			1.64	1.57	1.24	1.19	1.17	1.06	1.43	1.35	
8			1.62	1.54	1.50	1.43	1.55	1.50	1.75	1.58	
9			1.39	1.34	0.63	0.58	1.45	1.42	1.59	1.51	
10			1.57	1.53	1.45	1.40	1.63	1.60	1.64	1.61	
11			1.52	1.45	1.17	1.11	1.71	1.70	1.75	1.72	
12			0.93	0.84	1.31	1.27	1.69	1.62	1.79	1.72	
13			1.44	1.40	1.09	1.04	0.97	0.88	1.27	1.17	
14			1.38	1.32	1.32	1.19	1.51	1.48	1.55	1.47	
15			1.83	1.79	1.65	1.59	1.74	1.70	1.69	1.64	
16			1.81	1.73	1.84	1.79	1.52	1.37	1.25	1.25	
17			1.55	1.51	1.74	1.69	1.73	1.68	1.71	1.65	
18			0.69	0.66	1.75	1.73	1.36	1.24	1.77	1.74	
19			0.43	0.38	1.73	1.65	1.75	1.71	1.79	1.73	
20			1.70	1.63	1.48	1.43	1.67	1.58	1.78	1.77	
21			1.74	1.68	1.54	1.50	1.50	1.44	1.48	1.40	
22			1.62	1.61	1.78	1.74	1.69	1.64	1.26	1.19	
23			1.05	0.88	1.61	1.56	1.74	1.67	1.47	1.37	
24			1.39	1.32	1.59	1.55	1.73	1.69	1.54	1.49	
25			1.45	1.40	1.23	1.15	0.71	0.66	1.71	1.65	
26			1.74	1.65	1.62	1.60	1.83	1.82	1.73	1.65	
27			1.65	1.60	1.70	1.64	1.71	1.64	1.79	1.77	
28			1.69	1.63	0.96	0.91	1.79	1.73	1.72	1.69	
29			1.65	1.61	1.12	1.06	1.62	1.58	1.66	1.64	
30			0.79	0.74	0.85	0.83	1.71	1.68	1.78	1.74	
31			1.58	1.50	1.67	1.58	1.75	1.67	1.64	1.61	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.47	1.41	1.41	1.35	1.57	1.51	1.62	1.56
TOTAL	0.0	0.0	Total Minimum Free	0.43		0.63		0.71		1.24	
			Minimum		0.38		0.58		0.66		1.16

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	1	0	0	0	0	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.38
Number of Total Residuals	124	Minimum Monthly Total Residual	0.43
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) N  
 Number of days of operation? 31

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

TURBIDITY REPORT

PWS ID : KY0800273

PLANT ID : A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 01/2015

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Only Maximum	
1	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
2	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
3	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
4	24.0	6	0.06	0.05	0.05	0.05	0.06	0.06	0.060	
5	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
6	23.5	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
7	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
8	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.061	
9	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
10	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.047	
11	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
12	23.5	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
13	24.0	6	0.05	0.05	0.05	0.05	0.06	0.05	0.061	
14	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.044	
15	24.0	6	0.05	0.05	0.05	0.04	0.05	0.05	0.049	
16	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
17	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
18	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
19	24.0	6	0.05	0.04	0.05	0.05	0.05	0.05	0.046	
20	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.049	
21	24.0	6	0.06	0.05	0.05	0.05	0.05	0.05	0.058	
22	24.0	6	0.05	0.05	0.05	0.05	0.06	0.04	0.060	
23	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.042	
24	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.043	
25	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.043	
26	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.043	
27	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.045	
28	24.0	6	0.04	0.04	0.05	0.04	0.05	0.05	0.045	
29	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
30	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
31	24.0	6	0.05	0.05	0.04	0.04	0.04	0.04	0.047	
Total	743.0	186	TOTAL # OF TURBIDITY SAMPLES TAKEN --						186	0.061

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 0 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

02/04/2015  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID KY0800273

MONITORING PERIOD (MMYYYY) 01/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>55,800,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,800,000</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,890,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N) _____	<input type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>743.0</u>		Number of days of plant operation <u>31</u>	
Were samples taken every 4 hours of plant operation? (Y/N) <input checked="" type="checkbox"/>		Were samples taken each day of operation? (Y/N) <input checked="" type="checkbox"/>	
Number of samples taken <u>186</u>		Number of lowest chlorine samples recorded <u>31</u>	
Highest single turbidity reading <u>0.06</u>		Lowest single chlorine reading <u>1.64</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>0</u>		Was residual restored within 4 hours of plant operation? (Y/N) <input type="checkbox"/>	
Number of samples exceeded 0.3 NTU <u>0</u>		Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU _____		Number of samples under 0.5 mg/L _____	
Number of samples exceeded 5 NTU _____			

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>31</u>		Number of days of plant operation <u>31</u>	
Were samples taken each day of operation? (Y/N) <input type="checkbox"/>		Were samples taken each day of operation? (Y/N) <input type="checkbox"/>	
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Euel T. Alley  
Signature of Principal Executive Officer or Authorized Agent

02/04/2015  
Date



MAR 13 2015

KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH  
MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 02/2015 Indicate one with "X"  SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID:	<u>KY0800273</u>	PLANT ID:	<u>A</u>	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS:	<u>3</u>	DIST. CLASS:	<u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>03-09-2015</u>		
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>		
	<u>Tug Fork</u>				
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER		
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>		
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>		
WTP SHIFT 3:	<u>Tim Reed</u>	<u>1V-A</u>	<u>24590</u>		
DISTRIBUTION:					

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/eq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 1.1
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

03-09-2015  
DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 02/2015  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,807,000	22.5	145.3	10.8	3.9	0.3			232.6	17.4	171.7	12.8
2	1,836,000	23.0	148.5	10.9	3.9	0.3			231.0	16.9	162.2	11.9
3	1,784,000	23.5	151.8	10.2	3.9	0.3			247.0	16.6	169.2	11.4
4	1,880,000	24.0	155.0	9.9	4.2	0.3			244.7	15.6	169.2	10.8
5	1,860,000	24.0	155.0	10.0	4.2	0.3			234.8	15.1	169.2	10.9
6	1,923,000	24.0	155.0	9.7	4.2	0.3			235.7	14.7	169.2	10.6
7	1,859,000	24.0	155.0	10.0	4.2	0.3			240.9	15.5	169.2	10.9
8	1,919,000	24.0	155.0	9.7	4.2	0.3			236.6	14.9	169.2	10.6
9	1,695,000	21.5	138.9	9.8	4.2	0.3			208.6	14.8	151.6	10.7
10	1,921,000	24.0	155.0	9.7	4.2	0.3			232.8	14.5	169.2	10.6
11	1,918,000	24.0	155.0	9.7	4.2	0.3			232.8	14.6	169.2	10.6
12	1,650,000	21.0	136.0	9.9	3.7	0.3			203.8	14.8	148.1	10.8
13	1,937,000	24.0	155.0	9.6	4.2	0.3			212.8	13.2	169.2	10.5
14	1,982,000	24.0	155.0	9.4	4.2	0.3			209.0	12.6	169.2	10.2
15	1,942,000	24.0	155.0	9.6	4.2	0.3			209.2	12.9	169.2	10.4
16	1,994,000	24.0	155.0	9.3	4.2	0.3			209.0	12.6	169.2	10.2
17	1,944,000	24.0	155.0	9.6	4.2	0.3			213.7	13.2	164.9	10.2
18	1,993,000	24.0	155.0	9.3	4.2	0.3			209.0	12.6	159.8	9.6
19	1,765,000	21.5	138.2	9.4	3.7	0.3			187.3	12.7	143.2	9.7
20	1,974,000	24.0	155.0	9.4	4.2	0.3			217.5	13.2	163.2	9.9
21	1,977,000	24.0	155.0	9.4	4.2	0.3			217.1	13.2	159.8	9.7
22	1,979,000	24.0	155.0	9.4	4.2	0.3			213.6	12.9	159.8	9.7
23	1,973,000	24.0	155.0	9.4	4.2	0.3			219.4	13.3	163.7	9.9
24	2,090,000	24.0	292.9	16.8	4.2	0.2			240.6	13.8	183.1	10.5
25	2,129,000	24.0	292.9	16.5	4.2	0.2			347.4	19.6	183.1	10.3
26	2,110,000	24.0	292.9	16.6	4.2	0.2			253.4	14.4	183.1	10.4
27	2,091,000	24.0	292.9	16.8	4.2	0.2			259.0	14.9	183.2	10.5
28	2,060,000	24.0	292.9	17.0	4.2	0.2			259.8	15.1	183.1	10.7
29												
30												
31												
TOTAL	53,592,000		4958.2		115.7		0.0		6460.9		4694.0	
AVERAGE	1,914,000		177.1	11.0	4.1	0.3	#DIV/0!	#DIV/0!	230.7	14.5	167.6	10.5
MAX	2,129,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 02/2015

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

CHEMICALS ADDED														
DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
							Post							
	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	404.3	30.2	57.1	4.3										
2	393.2	28.8	58.4	4.3										
3	416.2	28.0	59.7	4.0										
4	413.9	26.4	60.9	3.9										
5	403.8	26.0	60.9	3.9										
6	404.9	25.2	60.9	3.8										
7	410.1	26.5	60.9	3.9										
8	407.8	25.5	60.9	3.8										
9	380.2	25.5	54.8	3.9										
10	402.0	25.1	60.9	3.8					6.6	0.4				
11	402.0	25.1	60.9	3.8					15.9	1.0				
12	351.9	25.8	53.3	3.9					13.9	1.0				
13	382.0	23.8	60.9	3.8					15.9	1.0				
14	378.2	22.9	60.9	3.7					15.9	1.0				
15	378.4	23.4	60.9	3.8					15.9	1.0				
16	378.2	22.7	60.9	3.7					15.9	1.0				
17	378.6	23.4	60.9	3.8					15.9	1.0				
18	388.8	22.2	60.9	3.7					15.9	1.0				
19	330.5	22.5	54.6	3.7					14.2	1.0				
20	380.7	23.1	60.9	3.7					15.9	1.0				
21	376.9	22.9	60.9	3.7					15.9	1.0				
22	373.4	22.6	60.9	3.7					15.9	1.0				
23	383.1	23.3	60.9	3.7					15.9	1.0				
24	423.7	24.3	60.9	3.5					15.9	0.9				
25	530.5	29.9	60.9	3.4					15.9	0.9				
26	436.5	24.8	60.9	3.5					15.9	0.9				
27	442.2	25.4	60.9	3.5					15.9	0.9				
28	442.9	25.8	60.9	3.5					15.9	0.9				
29														
30														
TOTAL	11,154.9		1,877.5		0.0		0.0		288.4		0.0		0.0	
AVERAGE	398.4	25.0	59.9	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	15.2	0.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 02/2016

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (M/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	7.50	7.48	7.38	65	59	104	99	0.69	0.62	2.03	1.98	4.34	0.21	0.04	
2	7.58	7.52	7.39	67	63	109	104	0.74	0.66	1.94	1.88	4.61	0.24	0.04	
3	7.41	7.47	7.37	60	56	100	95	0.70	0.63	1.90	1.85	4.53	0.24	0.04	
4	7.66	7.65	7.53	85	78	135	130	0.77	0.69	1.92	1.87	3.76	0.20	0.04	
5	7.63	7.63	7.52	83	80	137	132	0.78	0.69	1.92	1.86	4.54	0.26	0.04	
6	7.60	7.61	7.52	85	80	125	130	0.68	0.61	1.89	1.79	4.71	0.25	0.04	
7	7.61	7.65	7.54	75	72	130	125	0.74	0.67	1.91	1.85	4.89	0.31	0.04	
8	7.65	7.66	7.53	90	85	135	130	0.67	0.61	1.86	1.80	4.54	0.37	0.05	
9	7.64	7.59	7.51	90	85	125	120	0.71	0.63	1.83	1.75	5.17	0.36	0.05	
10	7.64	7.62	7.51	85	80	130	125	0.68	0.59	1.83	1.76	5.54	0.31	0.05	
11	7.63	7.68	7.55	85	80	120	125	0.74	0.66	1.85	1.78	5.20	0.34	0.05	
12	7.71	7.70	7.58	82	78	106	110	0.74	0.65	1.83	1.78	4.86	0.35	0.05	
13	7.72	7.65	7.57	93	88	124	118	0.73	0.66	1.80	1.75	4.94	0.33	0.04	
14	7.77	7.74	7.59	90	85	132	128	0.69	0.62	1.82	1.77	4.65	0.34	0.05	
15	7.76	7.72	7.58	93	88	140	135	0.72	0.63	1.81	1.76	4.23	0.36	0.05	
16	7.77	7.78	7.63	95	90	136	132	0.71	0.64	1.82	1.77	4.20	0.31	0.05	
17	7.87	7.75	7.63	97	92	135	140	0.70	0.62	1.81	1.76	4.05	0.33	0.05	
18	7.94	7.80	7.65	75	73	142	138	0.67	0.58	1.85	1.79	3.77	0.29	0.05	
19	7.88	7.81	7.67	95	92	144	140	0.63	0.55	1.79	1.75	3.66	0.25	0.06	
20	7.81	7.79	7.62	100	95	145	140	0.71	0.61	1.86	1.81	3.52	0.39	0.09	
21	7.79	7.76	7.61	90	85	145	140	0.79	0.68	1.86	1.79	3.75	1.47	0.33	
22	7.74	7.70	7.59	87	85	139	140	0.70	0.60	1.80	1.72	5.70	2.56	0.47	
23	7.79	7.67	7.57	90	85	134	130	0.65	0.59	1.74	1.69	10.80	1.76	0.42	
24	7.71	7.69	7.54	82	85	130	128	0.57	0.50	1.84	1.77	9.97	0.30	0.06	
25	7.73	7.67	7.49	95	90	130	126	0.70	0.63	1.83	1.77	8.86	0.21	0.05	
26	7.76	7.62	7.49	95	90	132	128	0.69	0.62	1.78	1.73	9.04	0.18	0.05	
27	7.74	7.59	7.45	83	80	130	125	0.72	0.64	1.84	1.76	9.07	0.29	0.04	
28	7.51	7.41	7.35	72	67	125	126	0.75	0.66	1.92	1.84	14.80	0.18	0.04	
29															
30															
31															
AVERAGE	7.7	7.7	7.5	85	81	129	126	0.71	0.63	1.85	1.79	5.78	0.46	0.09	

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 02/2015

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	4.34		0.30	0.16						0.05	0.05	0.05	0.02		0.05
2	4.61		0.35	0.18						0.05	0.05	0.05	0.02		0.05
3	4.53		0.46	0.34						0.05	0.05	0.05	0.02		0.05
4	3.76		0.31	0.22						0.05	0.05	0.04	0.02		0.04
5	4.54		0.40	0.28						0.05	0.05	0.09	0.03		0.06
6	4.71		0.37	0.15						0.05	0.04	0.06	0.02		0.05
7	4.89		0.52	0.22						0.05	0.04	0.06	0.02		0.05
8	4.54		0.63	0.18						0.05	0.05	0.08	0.03		0.05
9	5.17		0.65	0.20						0.05	0.04	0.08	0.03		0.06
10	5.54		0.64	0.18						0.05	0.04	0.04	0.02		0.05
11	5.20		0.57	0.20						0.05	0.05	0.05	0.02		0.05
12	4.86		0.61	0.16						0.05	0.05	0.07	0.02		0.05
13	4.94		0.59	0.20						0.05	0.05	0.07	0.03		0.05
14	4.65		0.59	0.24						0.05	0.05	0.08	0.02		0.05
15	4.23		0.64	0.26						0.05	0.05	0.09	0.02		0.05
16	4.20		0.74	0.24						0.05	0.05	0.04	0.02		0.06
17	4.05		0.54	0.26						0.05	0.05	0.11	0.03		0.06
18	3.77		0.46	0.33						0.05	0.05	0.08	0.03		0.06
19	3.66		0.36	0.17						0.05	0.05	0.09	0.03		0.06
20	3.52		0.41	0.80						0.05	0.05	0.38	0.09		0.18
21	3.75		0.41	3.85						0.05	0.05	1.41	0.09		0.73
22	5.70		0.60	5.22						0.05	0.05	1.99	0.15		0.81
23	10.80		0.47	5.29						0.05	0.05	0.04	0.38		1.20
24	9.97		0.50	0.34						0.05	0.05	0.14	0.02		0.07
25	8.86		0.38	0.19						0.05	0.05	0.14	0.02		0.07
26	9.04		0.32	0.16						0.05	0.04	0.11	0.03		0.06
27	9.07		0.62	0.27						0.04	0.04	0.09	0.02		0.05
28	14.80		0.25	0.16						0.04	0.04	0.09	0.02		0.05
29															
30															
31															
32															
AVERAGE	5.8	#DIV/0!	0.5	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.05	0.20	0.05	#DIV/0!	0.15

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 02/2015

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
	1	0.27	0.75	0.43	0.03	0.09	0.01			1.85	0.0
2	0.15	0.92	0.40	0.03	0.10	0.01			1.85	0.7	7.6
3	0.24	1.06	0.43	0.03	0.10	0.01			1.75	0.0	6.6
4	0.34	0.93	0.25	0.03	0.06	0.01			1.70	0.0	7.5
5	0.20	1.00	0.23	0.03	0.08	0.01			1.75	0.1	7.6
6	0.22	0.88	0.25	0.03	0.07	0.01			1.75	0.0	7.4
7	0.29	0.81	0.30	0.03	0.06	0.01			1.65	0.0	7.3
8	0.31	1.05	0.21	0.03	0.08	0.01			1.75	0.0	7.4
9	0.18	0.93	0.13	0.03	0.06	0.01			1.70	0.0	7.5
10	0.24	0.89	0.17	0.03	0.06	0.01			1.70	0.0	7.3
11	0.14	0.81	0.24	0.03	0.04	0.01			1.65	0.0	7.4
12	0.35	0.99	0.27	0.03	0.08	0.01			1.62	0.0	7.2
13	0.31	1.08	0.25	0.03	0.05	0.01			1.75	0.0	6.9
14	0.26	1.01	0.24	0.03	0.06	0.01			1.75	0.0	6.9
15	0.30	0.95	0.22	0.03	0.05	0.01			1.65	0.1	6.5
16	0.22	0.97	0.20	0.03	0.05	0.02			1.80	0.0	6.1
17	0.20	1.02	0.25	0.04	0.05	0.01			1.75	1.0	5.4
18	0.28	0.89	0.24	0.03	0.05	0.01			1.70	0.0	4.9
19	0.41	0.87	0.26	0.05	0.05	0.02			1.59	0.1	5.2
20	0.34	0.91	0.19	0.03	0.06	0.01			1.70	0.0	4.2
21	0.28	1.27	0.21	0.04	0.06	0.03			1.71	0.4	4.7
22	0.28	1.24	0.23	0.03	0.09	0.02			1.75	1.6	4.9
23	0.20	1.00	0.17	0.03	0.08	0.01			1.75	0.0	4.9
24	0.15	1.08	0.25	0.03	0.07	0.01			1.80	0.0	5.0
25	0.15	0.96	0.22	0.03	0.06	0.01			1.75	0.0	5.3
26	0.06	0.71	0.21	0.03	0.05	0.01			1.80	0.0	5.7
27	0.18	0.95	0.22	0.05	0.10	0.01			1.69	0.0	5.6
28	0.12	0.81	0.28	0.03	0.08	0.01			1.70	0.0	6.9
29											
30											
31											
AVERAGE	0.24	0.96	0.25	0.03	0.07	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	6.3

	1.59
Number of readings	28
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 02/2015

PAGE 6 OF 11

DAY	FILTRATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No: 6	
		AREA (square feet)	FILT RUN HR#								
1	0										
2	0										
3	31,000	15,000	131.60	16,000	131.80						
4	0										
5	33,000					17000.00	132.80	16,000	132.80		
6	0										
7	33,000	17,000	103.40	16,000	103.30						
8	0										
9	31,000					16,000	96.50	15,000	96.50		
10	0										
11	37,000	19,000	92.60	18,000	92.60						
12	0										
13	32,000					17,000	88.30	15,000	88.30		
14	0										
15	31,000	16,000	83.90	15,000	83.90						
16	0										
17	28,000					14,000	95.30	14,000	95.30		
18	0										
19	29,000	15,000	95.60	14,000	95.60						
20	35,000					18,000	76.50	17,000	76.50		
21	33,000					17,000	18.90	16,000	18.90		
22	76,000					40,000	25.30	36,000	25.30		
23	78,000					40,000	20.70	38,000	20.80		
24	28,000	14,000	120.90	14,000	120.90						
25	0										
26	32,000					16,000	70.60	16,000	70.60		
27	0										
28	28,000	14,000	99.10	14,000	99.10						
29	0										
30	0										
31	0										
TOTAL	595,000	110,000	727.10	107,000	727.00	195,000	624.90	183,000	625.00	0	0.00
AVERAGE	19,194	15,714	103.871	15,286	103.857	21,667	69.433	20,333	69.444	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 02/2016

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
	T	F	T	F	T	F	T	F			
1			1.82	1.60	1.39	1.32	1.56	1.55	1.50	1.47	
2			1.88	1.85	1.35	1.31	1.90	1.85	1.79	1.75	
3			1.70	1.68	1.24	1.15	1.42	1.40	1.78	1.73	
4			1.17	1.09	1.18	1.15	1.48	1.41	1.31	1.22	
5			1.84	1.57	1.53	1.49	1.40	1.38	1.55	1.49	
6			1.44	1.38	1.86	1.58	1.70	1.64	1.75	1.68	
7			1.47	1.40	1.48	1.46	1.75	1.70	1.75	1.73	
8			1.57	1.53	1.31	1.23	1.12	0.88	0.87	0.80	
9			1.84	1.60	1.25	1.22	1.52	1.51	1.53	1.45	
10			1.64	1.56	0.61	0.56	1.59	1.48	1.20	1.12	
11			0.59	0.52	1.06	0.97	1.41	1.35	1.45	1.37	
12			1.47	1.51	1.55	1.60	1.49	1.57	1.50	1.55	
13			1.56	1.50	1.61	1.59	1.28	1.20	1.58	1.49	
14			1.56	1.47	1.37	1.27	1.19	1.12	1.61	1.45	
15			1.54	1.48	1.44	1.39	1.64	1.53	1.49	1.42	
16			1.53	1.39	1.44	1.40	1.34	1.25	1.56	1.53	
17			1.16	1.11	0.48	0.44	1.46	1.39	1.57	1.55	
18			1.61	1.58	1.58	1.55	1.52	1.51	1.68	1.53	
19			1.55	1.50	1.31	1.24	1.39	1.36	1.54	1.42	
20			1.41	1.34	1.51	1.48	1.34	1.21	1.74	1.69	
21			0.57	0.50	1.40	1.31	1.50	1.39	1.89	1.56	
22			1.54	1.52	1.18	1.13	1.61	1.56	1.80	1.52	
23			1.24	1.22	1.44	1.40	1.84	1.67	1.67	1.54	
24			1.40	1.29	0.39	0.31	1.44	1.39	1.59	1.58	
25			1.24	1.17	1.44	1.38	1.21	1.09	1.25	1.22	
26			1.00	0.89	1.06	0.93	1.33	1.24	1.23	1.18	
27			1.55	1.46	1.44	1.38	1.48	1.38	1.43	1.32	
28			1.26	1.15	1.70	1.64	1.62	1.58	1.22	1.08	
29											
30											
31											
AVERAGE	#DIV/0!	#DIV/0!	Average	1.41	1.35	1.30	1.25	1.48	1.42	1.51	1.44
TOTAL	0.0	0.0	Total Minimum	0.57		0.39		1.12		0.87	
			Free Minimum		0.50		0.31		0.88		0.80

Total # Chlorine Samples	28	28	28	28	28	28	28	28	28
# Less than 0.2 mg/L	0	0	2	0	0	0	0	0	0

Number of Free Residuals	112
Number of Total Residuals	112
Total # Less than 0.2 mg/L	0
Total # Less than 0.5 mg/L	

Minimum Monthly Free Residual 0.31  
 Minimum Monthly Total Residual 0.39

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **28**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A  
 Report Period (MM/YYYY): 02/2015

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid.	Daily Maximum	
1	22.5	6	0.04	0.05	0.04	0.05	0.05	0.04	0.046	
2	23.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.046	
3	23.5	6	0.05	0.04	0.04	0.04	0.04	0.04	0.045	
4	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.044	
5	24.0	6	0.04	0.04	0.04	0.06	0.05	0.05	0.056	
6	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.046	
7	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.049	
8	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
9	21.5	6	0.05	0.05	0.05	0.05	0.06	0.05	0.059	
10	24.0	6	0.05	0.05	0.05	0.05	0.04	0.05	0.046	
11	24.0	6	0.04	0.05	0.05	0.04	0.04	0.04	0.045	
12	21.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
13	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
14	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
15	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
16	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
17	24.0	6	0.05	0.06	0.06	0.06	0.05	0.06	0.058	
18	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
19	24.0	6	0.05	0.06	0.06	0.06	0.06	0.06	0.057	
20	21.5	6	0.06	0.06	0.06	0.06	0.06	0.00	0.062	
21	24.0	6	0.06	0.07	0.08	0.09	0.13	0.18	0.179	
22	24.0	6	0.13	0.24	0.33	0.64	0.73	0.29	0.731	
23	24.0	6	0.65	0.81	0.24	0.55	0.78	0.52	0.810	
24	24.0	6	0.77	1.20	0.13	0.45	0.28	0.08	1.195	
25	24.0	6	0.06	0.06	0.07	0.07	0.06	0.07	0.071	
26	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.066	
27	24.0	6	0.06	0.05	0.06	0.06	0.06	0.05	0.057	
28	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
29	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
30	0.0	0							0.000	
31	0.0	0							0.000	
<b>Total</b>	<b>661.0</b>	<b>168</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>167</b>	<b>1.195</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 19 0.3 NTU 11 1 NTU 1  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU          6 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley 03-09-2015  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

02/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS		
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>53,592,000</u>
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,914,000</u>
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>2,129,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input checked="" type="checkbox"/> Y
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input checked="" type="checkbox"/> Y
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>661.0</u>		Number of days of plant operation <u>28</u>	
Were samples taken every 4 hours of plant operation? (Y/N) <input checked="" type="checkbox"/> Y		Were samples taken each day of operation? (Y/N) <input checked="" type="checkbox"/> Y	
Number of samples taken <u>167</u>		Number of lowest chlorine samples recorded <u>28</u>	
Highest single turbidity reading <u>1.20</u>		Lowest single chlorine reading <u>1.59</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>19</u>		Was residual restored within 4 hours of plant operation? (Y/N) <input type="checkbox"/>	
Number of samples exceeded 0.3 NTU <u>11</u>		Free Chlorine (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>1</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		Total Chlorine (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU _____		Number of samples under 0.5 mg/L _____	
Number of samples exceeded 5 NTU _____			

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>28</u>		Number of days of plant operation <u>28</u>	
Were samples taken each day of operation? (Y/N) <input type="checkbox"/>		Were samples taken each day of operation? (Y/N) <input type="checkbox"/>	
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

*Earl T. Alley*

Signature of Principal Executive Officer or Authorized Agent

03-09-2015

Date



Time	Combined	Turb # 3	Turb # 4	Turb # 5	Post CL2
20/02/2015 12:00:00 AM	0.061968	0.047844	0.046269	0.089767	1.73
20/02/2015 12:15:00 AM	0.061302	0.047554	0.044683	0.093144	1.74
20/02/2015 12:30:00 AM	0.060306	0.047442	0.048103	0.088827	1.74
20/02/2015 12:45:00 AM	0.061072	0.047538	0.045254	0.086416	1.74
20/02/2015 1:00:00 AM	0.063892	0.04763	0.043161	0.091531	1.73
20/02/2015 1:15:00 AM	0.066303	0.047952	0.044543	0.098681	1.73
20/02/2015 1:30:00 AM	0.068022	0.048193	0.046666	0.104958	1.72
20/02/2015 1:45:00 AM	0.068237	0.048451	0.046174	0.105629	1.72
20/02/2015 2:00:00 AM	0.068725	0.048682	0.049336	0.10758	1.72
20/02/2015 2:15:00 AM	0.069417	0.048725	0.047322	0.112166	1.73
20/02/2015 2:30:00 AM	0.068672	0.048446	0.047487	0.112524	1.73
20/02/2015 2:45:00 AM	0.069375	0.048327	0.04773	0.111725	1.74
20/02/2015 3:00:00 AM	0.067912	0.047936	0.046497	0.112313	1.74
20/02/2015 3:15:00 AM	0.067991	0.048161	0.045866	0.113043	1.74
20/02/2015 3:30:00 AM	0.068552	0.04778	0.044459	0.11149	1.75
20/02/2015 3:45:00 AM	0.067456	0.048005	0.048048	0.110196	1.76
20/02/2015 4:00:00 AM	0.067225	0.047732	0.044012	0.111343	1.76
20/02/2015 4:15:00 AM	0.066832	0.047635	0.046055	0.110285	1.77
20/02/2015 4:30:00 AM	0.067425	0.047619	0.043907	0.109192	1.77
20/02/2015 4:45:00 AM	0.066371	0.047603	0.04688	0.110432	1.78
20/02/2015 5:00:00 AM	0.066707	0.047442	0.047158	0.110613	1.78
20/02/2015 5:15:00 AM	0.067068	0.047485	0.045016	0.111363	1.78
20/02/2015 5:30:00 AM	0.067435	0.047619	0.044111	0.110383	1.78
20/02/2015 5:45:00 AM	0.06678	0.047329	0.046104	0.114563	1.78
20/02/2015 6:00:00 AM	0.067844	0.047093	0.043818	0.112063	1.78
20/02/2015 6:15:00 AM	0.068777	0.04727	0.042873	0.114415	1.79
20/02/2015 6:30:00 AM	0.070753	0.047179	0.044191	0.11641	1.8
20/02/2015 6:45:00 AM	0.07014	0.047125	0.044404	0.119752	1.8
20/02/2015 7:00:00 AM	0.070596	0.047211	0.044638	0.122065	1.8
20/02/2015 7:15:00 AM	0.071581	0.047259	0.04427	0.125196	1.8
20/02/2015 7:30:00 AM	0.072635	0.047254	0.044653	0.127813	1.81
20/02/2015 7:45:00 AM	0.073322	0.047179	0.048153	0.130165	1.8
20/02/2015 8:00:00 AM	0.073505	0.047243	0.042933	0.131321	1.8
20/02/2015 8:15:00 AM	0.074532	0.047093	0.044335	0.133752	1.8
20/02/2015 8:30:00 AM	0.074947	0.047039	0.044643	0.136373	1.8
20/02/2015 8:45:00 AM	0.076079	0.047184	0.043117	0.136677	1.81
20/02/2015 9:00:00 AM	0.076309	0.047018	0.043803	0.138686	1.81
20/02/2015 9:15:00 AM	0.076682	0.047163	0.044181	0.1422	1.8
20/02/2015 9:30:00 AM	0.079874	0.046991	0.045816	0.144273	1.81
20/02/2015 9:45:00 AM	0.080042	0.046824	0.044519	0.145561	1.8
20/02/2015 10:00:00 AM	0.080503	0.04676	0.043286	0.147169	1.77
20/02/2015 10:15:00 AM	0.080896	0.046706	0.046124	0.149369	1.76
20/02/2015 10:30:00 AM	0.081305	0.046685	0.044002	0.152515	1.73
20/02/2015 10:45:00 AM	0.082741	0.046615	0.043122	0.153127	1.71
20/02/2015 11:00:00 AM	0.083103	0.046502	0.042391	0.155734	1.68
20/02/2015 11:15:00 AM	0.083941	0.046368	0.042888	0.158081	1.64
20/02/2015 11:30:00 AM	0.084544	0.046223	0.042396	0.15913	1.63
20/02/2015 11:45:00 AM	0.086557	0.046277	0.042336	0.161678	1.66
20/02/2015 12:00:00 PM	0.088963	0.045842	0.0434	0.165084	1.69
20/02/2015 12:15:00 PM	0.088738	0.045885	0.042108	0.169239	1.71
20/02/2015 12:30:00 PM	0.088339	0.045686	0.043763	0.172003	1.73

*Found that  
Sludge Rake not  
turning on #3 unit  
motor is bad.*

*This Unit is  
#5 and #6  
filters*

#5

20/02/2015 12:45:00 PM	0.089167	0.045665	0.043793	0.174595	1.75
20/02/2015 1:00:00 PM	0.090829	0.04538	0.042883	0.173233	1.77
20/02/2015 1:15:00 PM	0.090331	0.045332	0.04166	0.174375	1.78
20/02/2015 1:30:00 PM	0.089912	0.045477	0.042286	0.177163	1.81
20/02/2015 1:45:00 PM	0.092543	0.0453	0.041993	0.177124	1.83
20/02/2015 2:00:00 PM	0.098052	0.045241	0.042654	0.180417	1.86
20/02/2015 2:15:00 PM	0.100432	0.045069	0.043604	0.186831	1.88
20/02/2015 2:30:00 PM	0.105747	0.045123	0.042555	0.198214	1.87
20/02/2015 2:45:00 PM	0.110611	0.044972	0.041804	0.209083	1.85
20/02/2015 3:00:00 PM	0.115858	0.04537	0.041914	0.222799	1.85
20/02/2015 3:15:00 PM	0.121834	0.044736	0.04256	0.238318	1.85
20/02/2015 3:30:00 PM	0.126127	0.044613	0.042038	0.256512	1.85
20/02/2015 3:45:00 PM	0.12902	0.044849	0.042595	0.267224	1.86
20/02/2015 4:00:00 PM	0.130797	0.044833	0.042997	0.272438	1.86
20/02/2015 4:15:00 PM	0.133497	0.044785	0.043624	0.283777	1.86
20/02/2015 4:30:00 PM	0.130682	0.044849	0.043937	0.292186	1.87
20/02/2015 4:45:00 PM	0.130368	0.045128	0.043201	0.286085	1.87
20/02/2015 5:00:00 PM	0.126861	0.045321	0.04337	0.283449	1.88
20/02/2015 5:15:00 PM	0.12511	0.04523	0.04341	0.28316	1.87
20/02/2015 5:30:00 PM	0.124161	0.045133	0.044235	0.275707	1.87
20/02/2015 5:45:00 PM	0.120985	0.045107	0.043589	0.26966	1.86
20/02/2015 6:00:00 PM	0.119428	0.045407	0.042987	0.268993	1.86
20/02/2015 6:15:00 PM	0.119748	0.045552	0.043594	0.257012	1.86
20/02/2015 6:30:00 PM	0.119119	0.045686	0.043907	0.259438	1.86
20/02/2015 6:45:00 PM	0.122463	0.045729	0.043967	0.26107	1.86
20/02/2015 7:00:00 PM	0.120948	0.045719	0.044384	0.26204	1.86
20/02/2015 7:15:00 PM	0.123454	0.045906	0.044583	0.263956	1.86
20/02/2015 7:30:00 PM	0.127479	0.046041	0.044086	0.273286	1.87
20/02/2015 7:45:00 PM	0.131589	0.046153	0.044335	0.279313	1.87
20/02/2015 8:00:00 PM	0.139451	0.045939	0.044404	0.289824	1.88
20/02/2015 8:15:00 PM	0.146968	0.046035	0.04421	0.30205	1.88
20/02/2015 8:30:00 PM	0.157567	0.045885	0.044777	0.322274	1.87
20/02/2015 8:45:00 PM	0.170483	0.0461	0.044906	0.349328	1.83
20/02/2015 9:00:00 PM	0.174991	0.046212	0.044086	0.373177	1.73
20/02/2015 9:15:00 PM	0.15959	0.046019	0.045299	0.378631	1.66
20/02/2015 9:30:00 PM	0.165524	0.046304	0.044613	0.39562	1.62
20/02/2015 9:45:00 PM	0.047527	0.046535	0.044588	0.408542	1.63
20/02/2015 10:00:00 PM	0.046756	0.047168	0.045075	0.437664	1.69
20/02/2015 10:15:00 PM	0.04564	0.046819	0.044767	0.639407	1.81
20/02/2015 10:30:00 PM	0.175635	0.04625	0.044315	0.739327	1.91
20/02/2015 10:45:00 PM	0.180882	0.046218	0.042873	0.775163	1.94
20/02/2015 11:00:00 PM	0.131709	0.046492	0.043833	0.577282	1.91
20/02/2015 11:15:00 PM	0.127144	0.046266	0.043614	0.445911	1.89
20/02/2015 11:30:00 PM	0.124858	0.046229	0.044369	0.421474	1.87
20/02/2015 11:45:00 PM	0.123983	0.046229	0.043236	0.421959	1.86

Reported to the  
Division of Water  
that Unit #3's  
Rake was not  
turning and we  
would have  
Turbidity Problems  
and that Due  
to the Weather  
we needed to  
Run it in order  
to Keep Water  
for everyone.

9:38pm  
Back washed  
#5 and #6 filters

Time	Combined	Turb # 3	Turb # 4	Turb # 5	Post CL2
21/02/2015 12:00:00 AM	0.125294	0.046196	0.043768	0.399668	1.85
21/02/2015 12:15:00 AM	0.129382	0.046395	0.043902	0.389833	1.84
21/02/2015 12:30:00 AM	0.134912	0.046008	0.043803	0.375936	1.82
21/02/2015 12:45:00 AM	0.139672	0.046239	0.043549	0.389446	1.81
21/02/2015 1:00:00 AM	0.146302	0.046159	0.043161	0.391749	1.8
21/02/2015 1:15:00 AM	0.163443	0.04632	0.044534	0.400413	1.79
21/02/2015 1:30:00 AM	0.174975	0.046148	0.044439	0.43371	1.79
21/02/2015 1:45:00 AM	0.178046	0.046325	0.04523	0.462597	1.78
21/02/2015 2:00:00 AM	0.180243	0.046577	0.043683	0.478356	1.78
21/02/2015 2:15:00 AM	0.182848	0.046341	0.045031	0.497089	1.78
21/02/2015 2:30:00 AM	0.190794	0.046293	0.044668	0.508115	1.78
21/02/2015 2:45:00 AM	0.190475	0.046481	0.044325	0.514804	1.78
21/02/2015 3:00:00 AM	0.191848	0.04611	0.043718	0.513133	1.78
21/02/2015 3:15:00 AM	0.195397	0.046395	0.044583	0.521821	1.77
21/02/2015 3:30:00 AM	0.199092	0.046701	0.044394	0.518616	1.78
21/02/2015 3:45:00 AM	0.191859	0.04639	0.044136	0.533841	1.78
21/02/2015 4:00:00 AM	0.195858	0.046744	0.044474	0.523658	1.78
21/02/2015 4:15:00 AM	0.204706	0.04647	0.044379	0.528318	1.78
21/02/2015 4:30:00 AM	0.208076	0.046599	0.044976	0.557896	1.78
21/02/2015 4:45:00 AM	0.21758	0.046604	0.044608	0.579761	1.78
21/02/2015 5:00:00 AM	0.220835	0.046513	0.045274	0.581633	1.78
21/02/2015 5:15:00 AM	0.220997	0.047157	0.045016	0.604493	1.78
21/02/2015 5:30:00 AM	0.225385	0.049031	0.047223	0.600077	1.77
21/02/2015 5:45:00 AM	0.230946	0.049208	0.047153	0.63752	1.77
21/02/2015 6:00:00 AM	0.234526	0.048531	0.046358	0.63261	1.77
21/02/2015 6:15:00 AM	0.243165	0.048242	0.045553	0.6346	1.77
21/02/2015 6:30:00 AM	0.243013	0.048467	0.045314	0.70139	1.77
21/02/2015 6:45:00 AM	0.255713	0.047877	0.045135	0.66771	1.77
21/02/2015 7:00:00 AM	0.254146	0.047474	0.045752	0.71292	1.77
21/02/2015 7:15:00 AM	0.260489	0.047216	0.044429	0.728841	1.77
21/02/2015 7:30:00 AM	0.265416	0.047093	0.045438	0.7817	1.77
21/02/2015 7:45:00 AM	0.27895	0.047254	0.044767	0.812473	1.77
21/02/2015 8:00:00 AM	0.285754	0.049057	0.046537	0.856776	1.76
21/02/2015 8:15:00 AM	0.301348	0.050491	0.047402	0.883953	1.77
21/02/2015 8:30:00 AM	0.321959	0.05136	0.048376	0.910174	1.77
21/02/2015 8:45:00 AM	0.323358	0.050936	0.047273	0.937767	1.77
21/02/2015 9:00:00 AM	0.328228	0.050002	0.046472	0.988769	1.77
21/02/2015 9:15:00 AM	0.341552	0.049095	0.046517	1.01108	1.77
21/02/2015 9:30:00 AM	0.345174	0.048317	0.045841	1.02632	1.77
21/02/2015 9:45:00 AM	0.367022	0.047903	0.045573	1.05486	1.76
21/02/2015 10:00:00 AM	0.376798	0.047463	0.045036	1.07766	1.76
21/02/2015 10:15:00 AM	0.395385	0.047673	0.045065	1.07004	1.76
21/02/2015 10:30:00 AM	0.418816	0.047211	0.045095	1.15385	1.77
21/02/2015 10:45:00 AM	0.451199	0.046808	0.044867	1.14242	1.76
21/02/2015 11:00:00 AM	0.474142	0.046808	0.044862	1.24644	1.75
21/02/2015 11:15:00 AM	0.490146	0.04611	0.04422	1.23199	1.74
21/02/2015 11:30:00 AM	0.519295	0.046282	0.044628	1.22983	1.74
21/02/2015 11:45:00 AM	0.536378	0.046486	0.044255	1.2405	1.73
21/02/2015 12:00:00 PM	0.55779	0.046475	0.044419	1.38337	1.73
21/02/2015 12:15:00 PM	0.580429	0.046454	0.044195	1.34993	1.73
21/02/2015 12:30:00 PM	0.590174	0.046314	0.044161	1.36919	1.72

#5

21/02/2015 12:45:00 PM	0.616047	0.046857	0.044041	1.35776	1.72
21/02/2015 1:00:00 PM	0.633188	0.048284	0.045568	1.44301	1.72
21/02/2015 1:15:00 PM	0.634545	0.049256	0.046537	1.47145	1.72
21/02/2015 1:30:00 PM	0.649112	0.050405	0.046701	1.43416	1.72
21/02/2015 1:45:00 PM	0.666268	0.05019	0.047288	1.43268	1.72
21/02/2015 2:00:00 PM	0.679934	0.04946	0.046462	1.4754	1.72
21/02/2015 2:15:00 PM	0.675887	0.048521	0.046433	1.55304	1.72
21/02/2015 2:30:00 PM	0.687927	0.048231	0.046224	1.4568	1.72
21/02/2015 2:45:00 PM	0.693237	0.047554	0.044882	1.44964	1.72
21/02/2015 3:00:00 PM	0.700114	0.04734	0.045135	1.4681	1.72
21/02/2015 3:15:00 PM	0.715163	0.047452	0.045344	1.57241	1.72
21/02/2015 3:30:00 PM	0.713397	0.047173	0.045538	1.63127	1.72
21/02/2015 3:45:00 PM	0.729279	0.047023	0.044757	1.55324	1.71
21/02/2015 4:00:00 PM	0.730097	0.04683	0.045299	1.56571	1.71
21/02/2015 4:15:00 PM	0.731664	0.046942	0.04513	1.71906	1.71
21/02/2015 4:30:00 PM	0.743364	0.046325	0.04426	1.69665	1.71
21/02/2015 4:45:00 PM	0.732461	0.046368	0.04433	1.34995	1.75
21/02/2015 5:00:00 PM	0.712107	0.046234	0.044623	0.966345	1.8
21/02/2015 5:15:00 PM	0.77494	0.046239	0.044012	2.91188	1.82
21/02/2015 5:30:00 PM	0.072478	0.046148	0.044131	0.847696	1.85
21/02/2015 5:45:00 PM	0.05594	0.046883	0.044166	0.776643	1.88
21/02/2015 6:00:00 PM	0.354861	0.046207	0.044066	1.00696	1.89
21/02/2015 6:15:00 PM	0.216956	0.04618	0.044449	1.2032	1.84
21/02/2015 6:30:00 PM	0.186051	0.045552	0.043738	0.745119	1.77
21/02/2015 6:45:00 PM	0.2024	0.045982	0.044369	0.692638	1.81
21/02/2015 7:00:00 PM	0.192079	0.045939	0.044315	0.649653	1.8
21/02/2015 7:15:00 PM	0.190496	0.04581	0.044002	0.552962	1.81
21/02/2015 7:30:00 PM	0.221155	0.046014	0.044151	0.545621	1.81
21/02/2015 7:45:00 PM	0.211484	0.04596	0.044519	0.612926	1.82
21/02/2015 8:00:00 PM	0.220814	0.046379	0.044131	0.638868	1.81
21/02/2015 8:15:00 PM	0.231203	0.046502	0.044857	0.605379	1.81
21/02/2015 8:30:00 PM	0.236864	0.045971	0.044613	0.577139	1.82
21/02/2015 8:45:00 PM	0.295802	0.04632	0.044275	0.603326	1.81
21/02/2015 9:00:00 PM	0.287866	0.046379	0.043917	0.625887	1.81
21/02/2015 9:15:00 PM	0.336777	0.046363	0.044648	0.721432	1.82
21/02/2015 9:30:00 PM	0.363384	0.046717	0.044424	0.791378	1.81
21/02/2015 9:45:00 PM	0.372615	0.046336	0.044797	0.926884	1.82
21/02/2015 10:00:00 PM	0.406477	0.046771	0.044548	0.983731	1.81
21/02/2015 10:15:00 PM	0.408033	0.046814	0.044772	1.01887	1.81
21/02/2015 10:30:00 PM	0.422668	0.047018	0.045463	1.01747	1.8
21/02/2015 10:45:00 PM	0.43863	0.046824	0.044822	1.1306	1.79
21/02/2015 11:00:00 PM	0.443719	0.046701	0.04436	1.09827	1.8
21/02/2015 11:15:00 PM	0.463481	0.046679	0.045553	1.17954	1.79
21/02/2015 11:30:00 PM	0.479971	0.046347	0.045264	1.20401	1.79
21/02/2015 11:45:00 PM	0.490664	0.046851	0.044732	1.23451	1.79

5:05 pm  
Backwashed  
#5 sand #6 filters  
18.9 hrs  
Runtime

Time	Combined	Turb # 3	Turb # 4	Turb # 5	Post CL2
22/02/2015 12:00:00 AM	0.497914	0.046615	0.04519	1.27432	1.79
22/02/2015 12:15:00 AM	0.503774	0.046819	0.045399	1.32889	1.78
22/02/2015 12:30:00 AM	0.529715	0.046647	0.044668	1.39193	1.78
22/02/2015 12:45:00 AM	0.614055	0.046792	0.04433	1.41514	1.78
22/02/2015 1:00:00 AM	0.642901	0.046663	0.045001	1.53533	1.77
22/02/2015 1:15:00 AM	0.655979	0.046631	0.045249	1.60329	1.77
22/02/2015 1:30:00 AM	0.663244	0.046669	0.044777	1.59491	1.77
22/02/2015 1:45:00 AM	0.694626	0.046524	0.044812	1.77211	1.77
22/02/2015 2:00:00 AM	0.695323	0.046701	0.045364	1.71468	1.76
22/02/2015 2:15:00 AM	0.727251	0.046599	0.044981	1.88049	1.76
22/02/2015 2:30:00 AM	0.718859	0.046535	0.044832	1.90301	1.76
22/02/2015 2:45:00 AM	0.718324	0.046921	0.044374	1.981	1.75
22/02/2015 3:00:00 AM	0.732272	0.046475	0.04596	1.98313	1.75
22/02/2015 3:15:00 AM	0.744763	0.046492	0.045349	1.93651	1.75
22/02/2015 3:30:00 AM	0.752794	0.046454	0.044762	2.09876	1.74
22/02/2015 3:45:00 AM	0.770322	0.046556	0.044867	2.09264	1.73
22/02/2015 4:00:00 AM	0.787772	0.046583	0.044887	2.18148	1.73
22/02/2015 4:15:00 AM	0.844619	0.046771	0.044896	1.8421	1.74
22/02/2015 4:30:00 AM	0.805431	0.046459	0.044703	1.48024	1.76
22/02/2015 4:45:00 AM	0.777823	0.046073	0.044877	3.70018	1.77
22/02/2015 5:00:00 AM	0.080529	0.046191	0.044727	1.38789	1.76
22/02/2015 5:15:00 AM	0.060783	0.047082	0.044767	0.96122	1.77
22/02/2015 5:30:00 AM	0.166342	0.046068	0.044648	1.06859	1.76
22/02/2015 5:45:00 AM	0.231182	0.046465	0.044305	1.22861	1.71
22/02/2015 6:00:00 AM	0.164974	0.046121	0.044031	1.02291	1.76
22/02/2015 6:15:00 AM	0.164119	0.046229	0.043872	0.915388	1.78
22/02/2015 6:30:00 AM	0.160906	0.046314	0.044012	0.951738	1.78
22/02/2015 6:45:00 AM	0.154967	0.046008	0.043813	1.03009	1.77
22/02/2015 7:00:00 AM	0.160932	0.045847	0.043962	1.04963	1.77
22/02/2015 7:15:00 AM	0.170902	0.045944	0.044111	1.06871	1.76
22/02/2015 7:30:00 AM	0.174603	0.045864	0.043882	1.02526	1.76
22/02/2015 7:45:00 AM	0.181894	0.045896	0.044767	0.816927	1.76
22/02/2015 8:00:00 AM	0.19644	0.046234	0.043624	0.700664	1.76
22/02/2015 8:15:00 AM	0.207479	0.046025	0.044176	0.603116	1.75
22/02/2015 8:30:00 AM	0.209167	0.046164	0.043892	0.570367	1.75
22/02/2015 8:45:00 AM	0.22734	0.046068	0.044384	0.550639	1.75
22/02/2015 9:00:00 AM	0.234432	0.04589	0.043927	0.538163	1.74
22/02/2015 9:15:00 AM	0.241639	0.045912	0.044379	0.578825	1.74
22/02/2015 9:30:00 AM	0.2617	0.045804	0.0443	0.561008	1.74
22/02/2015 9:45:00 AM	0.272534	0.045831	0.044474	0.547567	1.74
22/02/2015 10:00:00 AM	0.315836	0.045864	0.044295	0.548821	1.74
22/02/2015 10:15:00 AM	0.328527	0.045643	0.04429	0.619948	1.73
22/02/2015 10:30:00 AM	0.332558	0.045611	0.044548	0.66407	1.73
22/02/2015 10:45:00 AM	0.338895	0.045966	0.044151	0.68959	1.73
22/02/2015 11:00:00 AM	0.452048	0.045756	0.044345	0.725543	1.73
22/02/2015 11:15:00 AM	0.465404	0.045826	0.044091	0.954188	1.73
22/02/2015 11:30:00 AM	0.482115	0.045831	0.043758	1.02477	1.74
22/02/2015 11:45:00 AM	0.484081	0.045541	0.043713	1.11281	1.73
22/02/2015 12:00:00 PM	0.516108	0.045316	0.043793	1.12747	1.73
22/02/2015 12:15:00 PM	0.515044	0.045638	0.043599	1.19521	1.73
22/02/2015 12:30:00 PM	0.535953	0.045413	0.043927	1.22798	1.72

4:41 AM  
 # Sand #6 filters  
 Back washed  
 10.9 hrs Runtime

#5

22/02/2015 12:45:00 PM	0.540466	0.045558	0.04336	1.24538	1.72
22/02/2015 1:00:00 PM	0.540084	0.045762	0.043664	1.23385	1.72
22/02/2015 1:15:00 PM	0.560878	0.045423	0.043693	1.32185	1.72
22/02/2015 1:30:00 PM	0.55161	0.045074	0.043952	1.41097	1.72
22/02/2015 1:45:00 PM	0.546216	0.045676	0.043887	1.35625	1.72
22/02/2015 2:00:00 PM	0.547129	0.045563	0.043778	1.27219	1.71
22/02/2015 2:15:00 PM	0.556669	0.045321	0.043982	1.31006	1.71
22/02/2015 2:30:00 PM	0.565401	0.045713	0.043664	1.3162	1.71
22/02/2015 2:45:00 PM	0.565946	0.045144	0.043887	1.27694	1.71
22/02/2015 3:00:00 PM	0.567598	0.045676	0.043683	1.31762	1.71
22/02/2015 3:15:00 PM	0.581242	0.045074	0.0442	1.32096	1.71
22/02/2015 3:30:00 PM	0.606082	0.045568	0.043907	1.37423	1.71
22/02/2015 3:45:00 PM	0.62197	0.045826	0.043693	1.39843	1.71
22/02/2015 4:00:00 PM	0.621871	0.045064	0.043932	1.42316	1.71
22/02/2015 4:15:00 PM	0.71651	0.045439	0.043698	1.49339	1.7
22/02/2015 4:30:00 PM	0.718246	0.045461	0.044186	1.55283	1.71
22/02/2015 4:45:00 PM	0.738961	0.045847	0.044046	1.6306	1.71
22/02/2015 5:00:00 PM	0.753847	0.045423	0.043937	1.63485	1.71
22/02/2015 5:15:00 PM	0.765972	0.04581	0.044325	1.61602	1.71
22/02/2015 5:30:00 PM	0.769693	0.046207	0.04425	1.71656	1.71
22/02/2015 5:45:00 PM	0.785004	0.046078	0.044176	1.72055	1.71
22/02/2015 6:00:00 PM	0.79359	0.04625	0.044563	1.74869	1.71
22/02/2015 6:15:00 PM	0.809614	0.045987	0.044474	1.77645	1.71
22/02/2015 6:30:00 PM	0.814872	0.046271	0.044916	1.78698	1.71
22/02/2015 6:45:00 PM	0.807229	0.046583	0.044429	1.97528	1.71
22/02/2015 7:00:00 PM	0.831179	0.046331	0.044703	1.91312	1.71
22/02/2015 7:15:00 PM	0.942377	0.046535	0.04421	1.84256	1.72
22/02/2015 7:30:00 PM	0.883696	0.046143	0.044434	1.4113	1.72
22/02/2015 7:45:00 PM	0.804367	0.046041	0.044543	1.28137	1.74
22/02/2015 8:00:00 PM	0.13898	0.04603	0.044449	2.63946	1.76
22/02/2015 8:15:00 PM	0.065391	0.046153	0.044519	1.14167	1.83
22/02/2015 8:30:00 PM	0.067398	0.0464	0.044916	1.35135	1.91
22/02/2015 8:45:00 PM	0.061711	0.0464	0.044976	1.01939	2.03
22/02/2015 9:00:00 PM	0.259372	0.046148	0.044519	1.14786	2.14
22/02/2015 9:15:00 PM	0.336966	0.046245	0.045016	1.14642	2.15
22/02/2015 9:30:00 PM	0.325146	0.046046	0.044543	1.14548	2.08
22/02/2015 9:45:00 PM	0.358536	0.045949	0.044389	1.23023	2.03
22/02/2015 10:00:00 PM	0.359878	0.046325	0.044524	1.3766	1.98
22/02/2015 10:15:00 PM	0.385504	0.046223	0.044131	1.53197	1.92
22/02/2015 10:30:00 PM	0.415545	0.046035	0.044369	1.65286	1.9
22/02/2015 10:45:00 PM	0.474824	0.046046	0.04421	1.85063	1.88
22/02/2015 11:00:00 PM	0.506578	0.046196	0.043698	2.11172	1.86
22/02/2015 11:15:00 PM	0.540744	0.045853	0.044568	2.23184	1.84
22/02/2015 11:30:00 PM	0.570937	0.046073	0.044534	2.17913	1.83
22/02/2015 11:45:00 PM	0.622573	0.046137	0.044727	2.03975	1.82

7:54pm  
#Sard #6 filter  
Wash  
14.4 hrs  
Runtime

Time	Combined	Turb # 3	Turb # 4	Turb # 5	Post CL2
23/02/2015 12:00:00 AM	0.623013	0.046164	0.044887	2.01471	1.81
23/02/2015 12:15:00 AM	0.644122	0.046787	0.045975	1.80884	1.81
23/02/2015 12:30:00 AM	0.667144	0.046637	0.044926	1.53122	1.8
23/02/2015 12:45:00 AM	0.748097	0.046674	0.045165	1.47142	1.78
23/02/2015 1:00:00 AM	0.794366	0.046288	0.045394	1.54397	1.78
23/02/2015 1:15:00 AM	0.829281	0.047002	0.045359	1.5666	1.77
23/02/2015 1:30:00 AM	0.858405	0.047152	0.045051	1.66593	1.76
23/02/2015 1:45:00 AM	0.921788	0.046706	0.044951	1.78195	1.76
23/02/2015 2:00:00 AM	0.974509	0.047007	0.045225	1.73027	1.76
23/02/2015 2:15:00 AM	0.981339	0.046846	0.045155	1.78183	1.75
23/02/2015 2:30:00 AM	1.06948	0.046905	0.045458	1.78599	1.74
23/02/2015 2:45:00 AM	1.08246	0.047066	0.045483	1.86755	1.73
23/02/2015 3:00:00 AM	1.09486	0.04713	0.045418	1.8293	1.72
23/02/2015 3:15:00 AM	1.13185	0.046755	0.045016	1.8384	1.73
23/02/2015 3:30:00 AM	1.15464	0.047007	0.045503	1.82812	1.72
23/02/2015 3:45:00 AM	1.36001	0.046835	0.04509	1.84222	1.71
23/02/2015 4:00:00 AM	1.18685	0.047168	0.044986	1.82916	1.71
23/02/2015 4:15:00 AM	1.27786	0.046991	0.045001	1.78867	1.71
23/02/2015 4:30:00 AM	1.24927	0.046867	0.045046	1.78031	1.7
23/02/2015 4:45:00 AM	1.24112	0.046744	0.044708	1.74399	1.7
23/02/2015 5:00:00 AM	1.19589	0.046792	0.044628	1.7723	1.71
23/02/2015 5:15:00 AM	1.18608	0.046722	0.044663	1.84558	1.71
23/02/2015 5:30:00 AM	1.19784	0.046384	0.044568	1.61463	1.72
23/02/2015 5:45:00 AM	1.06468	0.04639	0.044474	1.3997	1.76
23/02/2015 6:00:00 AM	0.580828	0.046781	0.044623	5.36757	1.77
23/02/2015 6:15:00 AM	0.086583	0.046572	0.044414	1.46906	1.88
23/02/2015 6:30:00 AM	0.082285	0.046798	0.04425	1.69252	2
23/02/2015 6:45:00 AM	0.064867	0.046577	0.04424	1.59449	2.1
23/02/2015 7:00:00 AM	0.379749	0.046373	0.044379	1.56087	2.13
23/02/2015 7:15:00 AM	0.192425	0.046594	0.044355	1.66212	2.08
23/02/2015 7:30:00 AM	0.166426	0.046331	0.043957	1.32737	2.02
23/02/2015 7:45:00 AM	0.14528	0.046459	0.043947	1.12177	1.96
23/02/2015 8:00:00 AM	0.137512	0.045992	0.043977	1.00991	1.91
23/02/2015 8:15:00 AM	0.135955	0.045917	0.043509	0.888652	1.88
23/02/2015 8:30:00 AM	0.122992	0.046148	0.04333	0.866488	1.84
23/02/2015 8:45:00 AM	0.120377	0.045794	0.04434	0.875686	1.82
23/02/2015 9:00:00 AM	0.126887	0.045917	0.043599	0.809224	1.8
23/02/2015 9:15:00 AM	0.131631	0.045563	0.043718	0.761393	1.78
23/02/2015 9:30:00 AM	0.138173	0.045595	0.043867	0.73062	1.76
23/02/2015 9:45:00 AM	0.160607	0.045837	0.044151	0.733952	1.75
23/02/2015 10:00:00 AM	0.157981	0.045778	0.043877	0.738024	1.73
23/02/2015 10:15:00 AM	0.180017	0.045606	0.043067	0.806681	1.72
23/02/2015 10:30:00 AM	0.22095	0.04538	0.043499	0.841938	1.71
23/02/2015 10:45:00 AM	0.229012	0.045348	0.042734	0.864484	1.7
23/02/2015 11:00:00 AM	0.236969	0.045069	0.043266	0.807734	1.69
23/02/2015 11:15:00 AM	0.376075	0.04494	0.042505	0.746114	1.68
23/02/2015 11:30:00 AM	0.369376	0.044994	0.042913	0.832143	1.69
23/02/2015 11:45:00 AM	0.383392	0.044962	0.043355	0.94816	1.69
23/02/2015 12:00:00 PM	0.392948	0.044726	0.043112	0.947362	1.69
23/02/2015 12:15:00 PM	0.406561	0.044736	0.042217	0.900662	1.69
23/02/2015 12:30:00 PM	0.410481	0.044371	0.041884	0.880488	1.72

5:55 AM  
 Sand #6 filter  
 Wash  
 9.1 hrs runtime

# 5

23/02/2015 12:45:00 PM	0.42282	0.044124	0.042003	0.877783	1.77
23/02/2015 1:00:00 PM	0.43972	0.044253	0.042311	0.889034	1.8
23/02/2015 1:15:00 PM	0.441722	0.044248	0.042093	0.921165	1.83
23/02/2015 1:30:00 PM	0.451032	0.044194	0.041988	0.95677	1.85
23/02/2015 1:45:00 PM	0.471768	0.044038	0.042232	0.980203	1.88
23/02/2015 2:00:00 PM	0.475317	0.04406	0.042147	0.978135	1.89
23/02/2015 2:15:00 PM	0.488437	0.043802	0.041755	0.983952	1.91
23/02/2015 2:30:00 PM	0.510111	0.044334	0.041958	1.076	1.93
23/02/2015 2:45:00 PM	0.543423	0.044189	0.042038	1.05827	1.94
23/02/2015 3:00:00 PM	0.552517	0.044361	0.04175	1.12236	1.95
23/02/2015 3:15:00 PM	0.515243	0.044205	0.041869	1.14656	1.91
23/02/2015 3:30:00 PM	0.498889	0.043845	0.042162	1.14433	1.9
23/02/2015 3:45:00 PM	0.471605	0.043936	0.04173	1.14881	1.88
23/02/2015 4:00:00 PM	0.425724	0.044049	0.042366	1.16282	1.87
23/02/2015 4:15:00 PM	0.38162	0.044017	0.042436	1.11006	1.85
23/02/2015 4:30:00 PM	0.361036	0.043969	0.042595	1.01608	1.84
23/02/2015 4:45:00 PM	0.314369	0.044124	0.042252	0.955065	1.83
23/02/2015 5:00:00 PM	0.279857	0.044548	0.043067	0.877989	1.82
23/02/2015 5:15:00 PM	0.265185	0.044296	0.042913	0.820019	1.81
23/02/2015 5:30:00 PM	0.230039	0.04442	0.043097	0.742459	1.8
23/02/2015 5:45:00 PM	0.230852	0.044752	0.042485	0.677011	1.79
23/02/2015 6:00:00 PM	0.225783	0.044656	0.043624	0.813595	1.77
23/02/2015 6:15:00 PM	0.240229	0.045074	0.043276	0.56187	1.75
23/02/2015 6:30:00 PM	0.189458	0.045225	0.043316	2.07387	1.72
23/02/2015 6:45:00 PM	0.061937	0.04487	0.043569	0.409017	1.75
23/02/2015 7:00:00 PM	0.056307	0.045874	0.043688	0.381703	1.77
23/02/2015 7:15:00 PM	0.09973	0.045681	0.042938	0.436072	1.78
23/02/2015 7:30:00 PM	0.144389	0.045262	0.043629	0.902221	1.78
23/02/2015 7:45:00 PM	0.09942	0.046008	0.043738	0.291515	1.78
23/02/2015 8:00:00 PM	0.087186	0.045724	0.043524	0.227194	1.75
23/02/2015 8:15:00 PM	0.082746	0.045429	0.043271	0.220726	1.73
23/02/2015 8:30:00 PM	0.076325	0.04545	0.04334	0.668597	1.7
23/02/2015 8:45:00 PM	0.075586	0.045305	0.043286	0.307686	1.68
23/02/2015 9:00:00 PM	0.071435	0.045332	0.043495	0.233741	1.67
23/02/2015 9:15:00 PM	0.067357	0.045332	0.04344	0.190697	1.65
23/02/2015 9:30:00 PM	0.067755	0.045246	0.043147	0.154044	1.64
23/02/2015 9:45:00 PM	0.064495	0.045466	0.043256	0.146331	1.62
23/02/2015 10:00:00 PM	0.068463	0.04559	0.04344	0.135741	1.64
23/02/2015 10:15:00 PM	0.062167	0.045762	0.043813	0.130101	1.66
23/02/2015 10:30:00 PM	0.077311	0.045477	0.044066	0.119801	1.67
23/02/2015 10:45:00 PM	0.068856	0.04538	0.043151	0.118693	1.68
23/02/2015 11:00:00 PM	0.065926	0.045311	0.043067	0.113088	1.69
23/02/2015 11:15:00 PM	0.063336	0.045456	0.04427	0.109746	1.69
23/02/2015 11:30:00 PM	0.064856	0.045601	0.043375	0.126548	1.69
23/02/2015 11:45:00 PM	0.065884	0.045649	0.04338	0.104698	1.7

1:30 pm  
Motor installed  
on the eurodrive  
gear box that  
Turns Rake  
Filter backwashed  
at 6:00 pm.  
Back in service  
at 7:02 pm

# 6 Filter

This is a new Turbidimeter  
Was installed 9/16/14

02/21/2015 08:00:00 AM	0.041793
02/21/2015 08:15:00 AM	0.042131
02/21/2015 08:30:00 AM	0.044512
02/21/2015 08:45:00 AM	0.045609
02/21/2015 09:00:00 AM	0.046828
02/21/2015 09:15:00 AM	0.047760
02/21/2015 09:30:00 AM	0.048271
02/21/2015 09:45:00 AM	0.049111
02/21/2015 10:00:00 AM	0.049367
02/21/2015 10:15:00 AM	0.050405
02/21/2015 10:30:00 AM	0.052490
02/21/2015 10:45:00 AM	0.053562
02/21/2015 11:00:00 AM	0.055177
02/21/2015 11:15:00 AM	0.056924
02/21/2015 11:30:00 AM	0.059182
02/21/2015 11:45:00 AM	0.060806
02/21/2015 12:00:00 PM	0.062965
02/21/2015 12:15:00 PM	0.065578
02/21/2015 12:30:00 PM	0.068825
02/21/2015 12:45:00 PM	0.071734
02/21/2015 01:00:00 PM	0.072163
02/21/2015 01:15:00 PM	0.072839
02/21/2015 01:30:00 PM	0.075443
02/21/2015 01:45:00 PM	0.076860
02/21/2015 02:00:00 PM	0.078558
02/21/2015 02:15:00 PM	0.081105
02/21/2015 02:30:00 PM	0.079902
02/21/2015 02:45:00 PM	0.082803
02/21/2015 03:00:00 PM	0.081624
02/21/2015 03:15:00 PM	0.081154
02/21/2015 03:30:00 PM	0.082687
02/21/2015 03:45:00 PM	0.084748
02/21/2015 04:00:00 PM	0.082852
02/21/2015 04:15:00 PM	0.085704
02/21/2015 04:30:00 PM	0.085242
02/21/2015 04:45:00 PM	0.085613
02/21/2015 05:00:00 PM	0.086009
02/21/2015 05:15:00 PM	0.084657
02/21/2015 05:30:00 PM	0.087508
02/21/2015 05:45:00 PM	0.097786
02/21/2015 06:00:00 PM	0.267569
02/21/2015 06:15:00 PM	0.680420
02/21/2015 06:30:00 PM	0.725963
02/21/2015 06:45:00 PM	0.482170
02/21/2015 07:00:00 PM	0.129524
02/21/2015 07:15:00 PM	0.077685
02/21/2015 07:30:00 PM	0.054831
02/21/2015 07:45:00 PM	0.048114
02/21/2015 08:00:00 PM	0.039971
02/21/2015 08:15:00 PM	0.037927
02/21/2015 08:30:00 PM	0.035480
02/21/2015 08:45:00 PM	0.032233
02/21/2015 09:00:00 PM	0.032636
02/21/2015 09:15:00 PM	0.033395
02/21/2015 09:30:00 PM	0.040128
02/21/2015 09:45:00 PM	0.042493
02/21/2015 10:00:00 PM	0.046903
02/21/2015 10:15:00 PM	0.052754
02/21/2015 10:30:00 PM	0.051452
02/21/2015 10:45:00 PM	0.050957
02/21/2015 11:00:00 PM	0.052556
02/21/2015 11:15:00 PM	0.054213
02/21/2015 11:30:00 PM	0.057229
02/21/2015 11:45:00 PM	0.057674
02/22/2015 12:00:00 AM	0.060592
02/22/2015 12:15:00 AM	0.061523
02/22/2015 12:30:00 AM	0.063995
02/22/2015 12:45:00 AM	0.066204
02/22/2015 01:00:00 AM	0.066896
02/22/2015 01:15:00 AM	0.072336
02/22/2015 01:30:00 AM	0.075179
02/22/2015 01:45:00 AM	0.077734
02/22/2015 02:00:00 AM	0.079803
02/22/2015 02:15:00 AM	0.080396
02/22/2015 02:30:00 AM	0.081912
02/22/2015 02:45:00 AM	0.083890
02/22/2015 03:00:00 AM	0.086462
02/22/2015 03:15:00 AM	0.085745
02/22/2015 03:30:00 AM	0.086618
02/22/2015 03:45:00 AM	0.088036
02/22/2015 04:00:00 AM	0.089833

5:05 pm  
Backwash

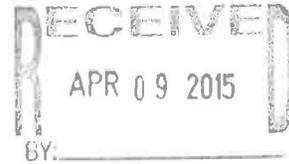
	0091827
02/22/2015 04:15:00 AM	0.093179
02/22/2015 04:30:00 AM	0.095791
02/22/2015 04:45:00 AM	0.101865
02/22/2015 05:00:00 AM	0.110280
02/22/2015 05:15:00 AM	0.170740
02/22/2015 05:30:00 AM	0.649918
02/22/2015 05:45:00 AM	0.700472
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02/22/2015 06:15:00 AM	0.158831
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02/23/2015 12:00:00 AM	0.121991

4:30 AM  
Backwash

7:54 P  
Backwash

	0114120
02/23/2015 12:30:00 AM	0116675
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02/23/2015 09:45:00 AM	0033246
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02/23/2015 10:30:00 AM	0057122
02/23/2015 10:45:00 AM	0097324
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02/23/2015 11:15:00 AM	0107684
02/23/2015 11:30:00 AM	0110535
02/23/2015 11:45:00 AM	0117771
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02/23/2015 12:15:00 PM	0123598
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02/23/2015 03:15:00 PM	0198011
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02/23/2015 08:00:00 PM	0069748
02/23/2015 08:15:00 PM	0055836
02/23/2015 08:30:00 PM	

5:55 am  
Back wash



KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 03/2015

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>04-06-2015</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Timothy D Reed</u>	<u>1V-A</u>	<u>24590</u>	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

04-06-2015  
DATE

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 03/2015

PAGE 1 OF 11

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	2,085,000	24.0	292.9	16.8	4.2	0.2			246.8	14.2	183.1	10.5
2	2,040,000	24.0	292.9	17.2	4.2	0.2			258.2	15.2	183.1	10.8
3	2,034,000	24.0	292.9	17.3	4.2	0.2			246.8	14.5	183.1	10.8
4	1,967,000	24.0	292.9	17.9	4.2	0.3			241.8	14.7	181.1	11.0
5	2,030,000	24.0	292.9	17.3	4.2	0.2			246.8	14.6	183.1	10.8
6	1,927,000	24.0	292.9	18.2	4.2	0.3			259.8	16.2	183.1	11.4
7	2,049,000	24.0	292.9	17.1	4.2	0.2			259.8	15.2	189.2	9.9
8	2,010,000	24.0	292.9	17.5	4.2	0.3			259.8	15.5	189.2	10.1
9	2,014,000	24.0	292.9	17.4	4.2	0.3			279.6	16.6	178.0	10.6
10	1,983,000	24.0	292.9	17.7	4.2	0.3			264.5	16.0	183.1	11.1
11	2,022,000	21.5	282.3	15.6	3.8	0.2			236.9	14.0	164.0	9.7
12	2,238,000	24.0	292.9	15.7	4.2	0.2			289.5	15.5	188.4	10.1
13	1,916,000	24.0	292.9	18.3	4.2	0.3			247.6	15.5	173.4	10.9
14	1,969,000	24.0	292.9	17.8	4.2	0.3			270.4	16.5	159.8	9.7
15	2,028,000	24.0	292.9	17.3	4.2	0.2			280.2	16.6	159.8	9.4
16	1,902,000	23.0	280.6	17.7	3.7	0.2			276.4	17.4	170.5	10.7
17	1,964,000	24.0	292.9	17.9	4.2	0.3			291.8	17.8	169.2	10.3
18	1,893,000	24.0	292.9	18.6	4.2	0.3			294.7	18.7	169.2	10.7
19	1,955,000	24.0	292.9	18.0	4.2	0.3			274.1	16.8	169.2	10.4
20	1,867,000	23.0	242.9	15.6	3.7	0.2			265.3	17.0	162.2	10.4
21	1,965,000	24.0	223.3	13.6	4.2	0.3			287.5	17.5	172.3	10.5
22	1,755,000	22.0	204.6	14.0	3.9	0.3			260.6	17.8	155.1	10.6
23	1,976,000	24.0	223.3	13.5	4.2	0.3			284.2	17.2	172.3	10.5
24	1,902,000	24.0	223.3	14.1	4.2	0.3			285.6	18.0	172.2	10.9
25	1,955,000	24.0	223.3	13.7	4.2	0.3			284.2	17.4	172.3	10.6
26	1,920,000	24.0	223.3	13.9	4.2	0.3			268.1	16.7	169.2	10.6
27	1,984,000	24.0	223.3	13.6	4.2	0.3			284.3	17.4	172.2	10.5
28	1,822,000	22.5	209.3	13.8	3.9	0.3			270.8	17.8	161.7	10.6
29	1,867,000	23.0	213.9	13.7	3.7	0.2			271.3	17.4	162.2	10.4
30	1,948,000	24.0	223.3	13.7	4.2	0.3			295.2	18.2	172.3	10.6
31	1,886,000	23.0	213.9	13.6	3.7	0.2			285.1	18.1	165.2	10.5
TOTAL	60,853,000		8169.9		127.2		0.0		8367.7		5328.8	
AVERAGE	1,963,000		263.5	16.1	4.1	0.3	#DIV/0!	#DIV/0!	269.9	16.5	171.9	10.5
MAX	2,238,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 03/2016

PAGE 2 OF 11

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H202	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
1	429.9	24.7	60.9	3.5					15.9	0.9				
2	441.3	25.9	60.9	3.6					15.9	0.9				
3	429.9	25.3	60.9	3.6					15.9	0.9				
4	423.0	25.8	60.9	3.7					15.9	1.0				
5	429.9	25.4	60.9	3.6					15.9	0.9				
6	442.9	27.6	60.9	3.8					15.9	1.0				
7	429.0	25.1	60.9	3.6					15.9	0.9				
8	429.0	25.6	60.9	3.6					15.9	0.9				
9	457.8	27.2	60.9	3.8					15.9	0.9				
10	447.6	27.1	60.9	3.7					15.9	1.0				
11	400.9	23.8	54.6	3.2					14.2	0.8				
12	477.9	25.8	60.9	3.3					15.9	0.9				
13	421.0	26.3	60.9	3.8					15.9	1.0				
14	430.2	26.2	60.9	3.7					15.9	1.0				
15	440.0	26.0	60.9	3.6					15.9	0.9				
16	446.9	28.2	58.4	3.7					15.2	1.0				
17	461.0	28.1	60.9	3.7					15.9	1.0				
18	463.9	29.4	60.9	3.9					15.9	1.0				
19	443.3	27.2	60.9	3.7					15.9	1.0				
20	427.5	27.5	58.4	3.8					15.2	1.0				
21	459.8	28.1	60.9	3.7					15.9	1.0				
22	415.7	28.4	56.8	3.8					14.5	1.0				
23	456.5	27.7	60.9	3.7					15.9	1.0				
24	457.8	28.9	60.9	3.8					15.9	1.0				
25	456.5	28.0	60.9	3.7					15.9	1.0				
26	437.3	27.3	60.9	3.8					15.9	1.0				
27	456.5	27.9	60.9	3.7					15.9	1.0				
28	432.5	28.5	57.1	3.8					14.8	1.0				
29	433.5	27.8	58.4	3.8					15.2	1.0				
30	467.5	28.8	60.9	3.7					15.9	1.0				
31	450.3	28.6	58.4	3.7					15.2	1.0				
TOTAL	13,898.6		1,862.7		0.0		0.0		466.0		0.0		0.0	
AVERAGE	441.8	27.0	60.1	3.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	15.7	1.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2016

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.43	7.41	7.30	70	65	100	97	0.79	0.70	1.86	1.78	14.70	0.22	0.05
2	7.47	7.44	7.32	60	57	108	104	0.78	0.69	1.88	1.81	14.20	0.20	0.05
3	7.57	7.43	7.34	55	50	100	105	0.66	0.58	1.73	1.68	14.10	0.21	0.04
4	7.42	7.39	7.31	60	55	93	88	0.75	0.68	1.85	1.80	13.70	0.22	0.05
5	7.52	7.36	7.26	65	59	112	110	0.63	0.57	1.81	1.75	13.60	0.24	0.04
6	7.31	7.34	7.21	68	64	82	78	0.64	0.58	1.82	1.78	22.20	0.23	0.05
7	7.30	7.31	7.21	50	47	95	90	0.65	0.60	1.80	1.74	28.10	0.21	0.05
8	7.33	7.33	7.19	58	52	90	88	0.57	0.48	1.79	1.73	27.40	0.17	0.05
9	7.31	7.29	7.18	50	45	82	78	0.58	0.51	1.78	1.72	27.40	0.26	0.05
10	7.28	7.28	7.13	50	48	92	88	0.61	0.51	1.82	1.76	31.40	0.25	0.06
11	7.28	7.27	7.11	65	62	90	85	0.66	0.54	1.82	1.75	27.40	0.48	0.07
12	7.20	7.19	7.10	48	45	93	88	0.63	0.57	1.74	1.77	25.30	0.17	0.04
13	7.14	7.19	7.07	40	37	88	82	0.65	0.54	1.78	1.72	24.70	0.18	0.05
14	7.36	7.19	7.11	44	30	86	84	0.66	0.58	1.82	1.75	20.40	0.15	0.05
15	7.19	7.20	7.18	45	40	77	70	0.57	0.48	1.78	1.73	19.40	0.13	0.04
16	7.11	7.13	7.01	45	42	78	74	0.81	0.53	1.82	1.76	17.90	0.18	0.04
17	7.10	7.14	7.06	42	36	58	63	0.66	0.55	1.85	1.78	16.20	0.19	0.04
18	7.16	7.15	7.03	45	40	70	64	0.68	0.61	1.83	1.76	17.10	0.19	0.05
19	7.10	7.16	7.02	45	42	73	68	0.70	0.64	1.78	1.75	14.50	0.15	0.04
20	7.15	7.09	7.00	42	38	68	65	0.70	0.62	1.80	1.73	12.10	0.19	0.05
21	7.19	7.16	7.04	35	30	58	59	0.68	0.60	1.81	1.74	10.90	0.18	0.04
22	7.07	7.14	7.02	33	30	54	50	0.68	0.60	1.80	1.75	10.70	0.18	0.05
23	7.05	7.11	6.99	33	28	58	63	0.67	0.67	0.59	1.73	9.34	0.17	0.05
24	7.06	7.15	7.04	36	32	55	61	0.67	0.60	1.78	1.74	9.18	0.15	0.05
25	7.07	7.10	6.98	32	28	55	60	0.65	0.58	1.81	1.74	8.58	0.14	0.05
26	7.08	7.14	6.99	36	32	59	65	0.61	0.53	1.81	1.75	7.97	0.15	0.05
27	7.02	7.16	7.00	42	37	55	60	0.60	0.54	1.86	1.79	7.40	0.15	0.05
28	7.09	7.18	7.03	48	42	60	58	0.59	0.52	1.84	1.78	7.21	0.14	0.05
29	7.05	7.18	7.04	38	35	60	56	0.70	0.62	1.90	1.84	7.04	0.13	0.05
30	7.10	7.20	7.00	42	38	55	52	0.68	0.59	1.84	1.79	6.31	0.14	0.04
31	7.10	7.18	7.03	34	32	60	57	0.70	0.61	1.85	1.78	6.90	0.15	0.04
AVERAGE	7.2	7.2	7.1	47	43	76	75	0.66	0.58	1.78	1.76	15.91	0.19	0.05

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 03/2016

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
		1	14.70		0.32	0.28						0.05	0.05	0.10	
2	14.20		0.30	0.18						0.05	0.05	0.04	0.03		0.05
3	14.10		0.32	0.17						0.04	0.05	0.05	0.02		0.05
4	13.70		0.29	0.22						0.04	0.05	0.05	0.02		0.05
5	13.60		0.34	0.27						0.04	0.05	0.05	0.03		0.05
6	22.20		0.31	0.25						0.04	0.05	0.08	0.04		0.05
7	28.10		0.34	0.17						0.03	0.05	0.05	0.02		0.05
8	27.40		0.25	0.15						0.04	0.05	0.05	0.02		0.05
9	27.40		0.34	0.38						0.06	0.07	0.06	0.02		0.06
10	31.40		0.40	0.28						0.05	0.05	0.08	0.04		0.07
11	27.40		1.57	1.23						0.06	0.06	0.20	0.08		0.19
12	25.30		0.21	0.20						0.04	0.05	0.06	0.02		0.06
13	24.70		0.36	0.26						0.05	0.05	0.07	0.02		0.07
14	20.40		0.18	0.18						0.04	0.05	0.09	0.04		0.07
15	19.40		0.16	0.16						0.04	0.04	0.06	0.02		0.05
16	17.90		0.34	0.28						0.08	0.07	0.07	0.02		0.08
17	16.20		0.28	0.26						0.05	0.05	0.06	0.02		0.06
18	17.10		0.20	0.36						0.04	0.05	0.14	0.07		0.08
19	14.50		0.20	0.15						0.04	0.05	0.06	0.02		0.06
20	12.10		0.26	0.21						0.05	0.06	0.06	0.02		0.06
21	10.90		0.25	0.17						0.04	0.05	0.06	0.02		0.06
22	10.70		0.20	0.19						0.04	0.05	0.29	0.12		0.12
23	9.34		0.22	0.16						0.04	0.05	0.07	0.02		0.06
24	9.18		0.19	0.19						0.05	0.06	0.07	0.02		0.06
25	8.58		0.19	0.21						0.08	0.05	0.07	0.02		0.07
26	7.97		0.20	0.24						0.04	0.05	0.07	0.03		0.06
27	7.40		0.18	0.19						0.04	0.05	0.06	0.02		0.06
28	7.09		0.19	0.14						0.05	0.06	0.06	0.02		0.06
29	7.05		0.18	0.13						0.04	0.05	0.09	0.04		0.07
30	6.31		0.17	0.16						0.04	0.05	0.07	0.03		0.06
31	6.90		0.19	0.19						0.04	0.05	0.05	0.02		0.06
AVERAGE	15.9	#DIV/0!	0.3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.04	0.05	0.08	0.03	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2015

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP		INCHES	DEGREES F°/C°
1	0.04	0.91	0.22	0.03	0.08	0.01			1.80	0.0	5.9
2	0.02	0.83	0.15	0.03	0.08	0.01			1.65	0.2	6.2
3	0.18	0.92	0.25	0.03	0.05	0.01			1.60	0.0	6.7
4	0.06	0.84	0.14	0.03	0.07	0.01			1.69	0.8	6.8
5	0.10	0.99	0.30	0.03	0.09	0.02			1.70	1.8	6.3
6	0.00	0.67	0.12	0.05	0.10	0.01			1.80	0.3	5.8
7	0.00	0.88	0.27	0.03	0.12	0.01			1.75	0.0	6.0
8	0.00	0.84	0.29	0.03	0.11	0.01			1.70	0.0	6.2
9	0.00	0.76	0.25	0.03	0.11	0.01			1.70	0.0	6.6
10	0.00	0.84	0.32	0.03	0.12	0.01			1.75	0.0	6.8
11	0.00	0.93	0.40	0.03	0.11	0.01			1.75	1.0	6.9
12	0.00	0.88	0.15	0.03	0.10	0.01			1.80	0.0	6.9
13	0.00	0.82	0.02	0.03	0.11	0.01			1.64	0.0	7.3
14	0.00	0.80	0.27	0.03	0.09	0.02			1.75	0.6	8.7
15	0.00	0.24	0.10	0.03	0.08	0.01			1.70	0.4	7.9
16	0.00	0.83	0.07	0.05	0.07	0.01			1.75	0.0	8.5
17	0.01	0.97	0.06	0.03	0.07	0.01			1.75	0.0	8.4
18	0.00	0.78	0.27	0.03	0.08	0.01			1.75	0.0	8.5
19	0.04	0.89	0.07	0.03	0.07	0.01			1.75	0.0	8.5
20	0.13	0.91	0.17	0.03	0.07	0.01			1.65	0.4	8.3
21	0.01	0.86	0.17	0.03	0.12	0.02			1.70	0.1	9.6
22	0.17	0.91	0.00	0.03	0.05	0.01			1.50	0.0	8.7
23	0.24	0.97	0.05	0.03	0.05	0.01			1.75	0.0	8.9
24	0.17	1.02	0.03	0.03	0.05	0.01			1.65	0.0	8.8
25	0.14	0.80	0.21	0.03	0.02	0.01			1.75	0.1	9.1
26	0.17	0.89	0.09	0.03	0.04	0.01			1.65	0.0	9.8
27	0.15	0.91	0.03	0.03	0.04	0.01			1.70	0.6	10.9
28	0.09	0.81	0.09	0.03	0.02	0.01			1.55	0.0	10.2
29	0.06	0.80	0.11	0.03	0.04	0.01			1.70	0.0	9.8
30	0.14	0.96	0.12	0.03	0.04	0.01			1.70	0.0	9.7
31	0.02	1.01	0.14	0.03	0.06	0.01			1.70	0.0	10.0
AVERAGE	0.06	0.85	0.16	0.03	0.07	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	8.0
									1.50		
									Number of readings	31	6.32
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 03/2016  
 PAGE 5 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	180	AREA (square feet)	180						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	30,000					15,000	95.10	15,000	95.10		
3	0										
4	28,000	14,000	87.60	14,000	87.60						
5	0										
6	28,000					14,000	92.20	14,000	92.20		
7	0										
8	28,000	14,000	102.60	14,000	102.60						
9	0										
10	34,000					17,000	93.96	17,000	93.60		
11	0										
12	0										
13	30,000	15,000	87.80	15,000	87.90						
14	33,000					17,000	104.30	16,000	104.30		
15	0										
16	24,000	12,000	83.50	12,000	83.50						
17	0										
18	34,000					17,000	90.20	17,000	90.20		
19	0										
20	29,000	15,000	87.20	14,000	87.20						
21	0										
22	34,000					17,000	81.70	17,000	81.80		
23	0										
24	30,000	15,000	84.30	15,000	84.30						
25	0										
26	36,000					18,000	92.40	18,000	92.40		
27	0										
28	30,000	15,000	95.20	15,000	95.20						
29	39,000					20,000	85.70	19,000	84.60		
30	0										
31	0										
TOTAL	467,000	100,000	628.20	99,000	628.30	135,000	735.56	133,000	734.20	0	0.00
AVERAGE	15,065	14,288	89.743	14,143	89.757	16,875	91.945	16,625	91.775	#DIV/0!	#DIV/0!

COPY AS NEEDED



**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 03/2015

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.05	0.05	0.05	0.05	0.06	0.05	0.058	
2	24.0	6	0.05	0.05	0.05	0.04	0.05	0.04	0.053	
3	24.0	6	0.05	0.05	0.04	0.05	0.05	0.05	0.049	
4	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
5	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
6	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
7	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
8	24.0	6	0.05	0.04	0.05	0.05	0.05	0.05	0.049	
9	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.057	
10	24.0	6	0.06	0.06	0.06	0.06	0.07	0.06	0.066	
11	21.5	6	0.06	0.07	0.06	0.05	0.19	0.06	0.192	
12	24.0	6	0.06	0.05	0.05	0.05	0.05	0.05	0.060	
13	24.0	6	0.05	0.05	0.05	0.06	0.07	0.06	0.069	
14	24.0	6	0.06	0.06	0.06	0.05	0.05	0.07	0.065	
15	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
16	23.0	8	0.05	0.05	0.05	0.05	0.06	0.08	0.077	
17	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061	
18	24.0	6	0.06	0.08	0.06	0.06	0.08	0.06	0.082	
19	24.0	6	0.06	0.06	0.07	0.06	0.06	0.06	0.066	
20	23.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
21	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.058	
22	22.0	6	0.06	0.12	0.06	0.06	0.06	0.06	0.119	
23	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.059	
24	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
25	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.066	
26	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.059	
27	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.058	
28	22.5	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
29	23.0	6	0.06	0.06	0.06	0.05	0.06	0.07	0.067	
30	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.059	
31	23.0	6	0.06	0.05	0.06	0.05	0.05	0.06	0.056	
Total	734.0	186								
								TOTAL # OF TURBIDITY SAMPLES TAKEN --	186	0.192

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding → 0.1 NTU 2 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding → 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley  
 Signature of Principal Executive Officer of Authorized Agent  
04-06-2015  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

03/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>60,853,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,963,000</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>2,238,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Number of hours of plant operation	<u>734.0</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>
Highest single turbidity reading	<u>0.19</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU	<u>2</u>
Number of samples exceeded 0.3 NTU	<u>0</u>
Number of samples exceeded 1 NTU	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded	<u>31</u>
Lowest single chlorine reading	<u>1.50</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Free Chlorine (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L	<u>0</u>
Total Chlorine (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L	<u>0</u>

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorite reading	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

04-06-2015  
Date



RECEIVED  
MAY 17 2015  
BY: \_\_\_\_\_

KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH  
MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 04/2015      Indicate one with "X"  SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY  
DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>05-05-2015</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartlin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Timothy D Reed</u>	<u>1V-A</u>	<u>24590</u>	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NOT LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm):	<u>1,667</u>
2. TYPE OF FILTRATION USED:	<u>Dual Media</u>
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	<u>2.66</u>
4. PERCENT BACKWASH WATER USED:	<u>1.0</u>
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	<u>#2 - 3/18/10 #3 - 9/2/09</u>
6. DATE SETTLING BASIN(S) LAST CLEANED:	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

05-04-2015  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 04/2015

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,877,000	23.0	213.9	13.7	4.0	0.3			277.7	17.7	165.2	10.6
2	1,833,000	22.5	209.3	13.7	3.9	0.3			263.0	17.2	161.1	10.5
3	1,251,000	15.5	144.2	13.8	2.7	0.3			177.7	17.0	118.3	11.3
4	1,911,000	24.0	280.1	17.6	4.2	0.3			297.8	18.7	174.7	11.0
5	1,892,000	24.0	338.6	21.5	4.2	0.3			308.6	19.6	172.3	10.9
6	1,900,000	24.0	338.7	21.4	4.2	0.3			330.7	20.9	194.3	12.3
7	1,867,000	23.0	324.5	20.8	4.0	0.3			300.0	19.3	170.5	10.9
8	1,856,000	23.5	331.6	21.4	4.1	0.3			388.0	25.1	169.2	10.9
9	1,969,000	24.0	338.7	20.6	4.2	0.3			368.8	22.5	178.2	10.9
10	1,904,000	24.0	321.5	20.2	4.2	0.3			335.6	21.1	169.2	10.7
11	1,938,000	24.0	292.9	18.1	4.2	0.3			413.3	25.6	178.3	11.0
12	1,934,000	24.0	292.9	18.2	4.2	0.3			418.0	25.9	169.2	10.5
13	1,758,000	22.0	268.4	18.3	3.9	0.3			399.7	27.3	173.2	11.8
14	1,883,000	24.0	292.9	18.7	4.2	0.3			388.9	24.8	183.2	11.7
15	1,791,000	22.0	268.4	18.0	3.9	0.3			356.0	23.8	162.9	10.9
16	1,772,000	22.0	268.4	18.2	3.9	0.3			367.3	24.9	155.1	10.5
17	1,798,000	23.5	286.7	19.1	4.1	0.3			400.7	26.7	166.7	11.1
18	1,916,000	24.0	292.9	18.3	4.2	0.3			424.5	26.6	178.5	11.2
19	1,860,000	23.0	280.6	18.1	4.0	0.3			371.7	24.0	169.2	10.9
20	1,870,000	24.0	292.9	18.8	4.2	0.3			415.2	26.6	169.2	10.8
21	1,738,000	22.0	268.4	18.5	3.9	0.3			375.4	25.9	155.1	10.7
22	1,867,000	24.0	292.9	18.8	4.2	0.3			419.6	26.9	165.5	10.6
23	1,820,000	23.0	280.6	18.5	4.0	0.3			411.7	27.1	153.2	10.1
24	1,895,000	24.0	292.9	18.5	4.2	0.3			428.1	27.1	159.8	10.1
25	1,782,000	23.0	280.6	18.9	4.0	0.3			398.9	26.8	161.4	10.9
26	1,891,000	24.0	270.8	17.2	4.2	0.3			411.6	26.1	161.5	10.2
27	1,727,000	22.0	236.0	16.4	3.9	0.3			392.9	27.3	159.8	11.1
28	1,934,000	24.0	257.4	16.0	4.2	0.3			428.1	26.5	178.8	11.1
29	1,792,000	23.0	246.8	16.5	4.0	0.3			409.3	27.4	155.7	10.4
30	1,908,000	24.0	257.4	16.2	4.2	0.3			416.4	26.2	165.7	10.4
31												
TOTAL	55,132,000		8361.8		121.3		0.0		11095.2		4995.0	
AVERAGE	1,837,733		278.7	18.1	4.0	0.3	#DIV/0!	#DIV/0!	369.8	24.1	166.5	10.9
MAX	1,969,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 04/2015

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APPLICABLE TO ALL PLANTS

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	442.9	28.3	58.4	3.7					15.2	1.0				
2	424.1	27.7	57.1	3.7					14.9	1.0				
3	296.0	28.4	39.3	3.8					10.2	1.0				
4	472.5	29.6	60.9	3.8					15.9	1.0				
5	480.9	30.5	60.9	3.9					15.9	1.0				
6	525.0	33.1	60.9	3.8					15.9	1.0				
7	470.5	30.2	58.4	3.8					14.9	1.0				
8	557.2	36.0	59.6	3.9	63.5	4.1	55.4	3.6	25.4	1.6				
9	547.0	33.3	60.9	3.7	63.5	3.9	55.4	3.4	25.4	1.5				
10	504.8	31.8	60.9	3.8	95.2	6.0	102.3	6.4	25.4	1.6				
11	591.6	36.6	60.9	3.8	95.2	5.9	102.3	6.3	25.4	1.6				
12	587.2	36.4	60.9	3.8	95.2	5.9	102.3	6.3	25.4	1.6				
13	572.9	39.1	55.8	3.8	88.0	6.0	93.7	6.4	23.3	1.6				
14	572.1	36.4	60.9	3.9	95.2	6.1	102.3	6.5	25.4	1.6				
15	518.9	34.7	55.8	3.7	88.0	5.9	93.7	6.3	23.3	1.6				
16	522.4	35.3	55.8	3.8	88.0	6.0	93.7	6.3	23.3	1.6				
17	587.4	37.8	59.6	4.0	94.0	6.3	100.1	6.7	24.9	1.7				
18	603.0	37.7	60.9	3.8	95.2	6.0	102.3	6.4	25.4	1.6				
19	540.9	34.9	58.4	3.8	92.0	5.9	97.9	6.3	24.4	1.6				
20	584.4	37.5	60.9	3.9	36.0	2.3	102.3	6.6	25.4	1.6				
21	530.5	36.6	55.8	3.8			93.7	6.5	23.3	1.6				
22	585.1	37.6	60.9	3.9			102.3	6.6	25.4	1.6				
23	564.9	37.2	58.4	3.8			97.9	6.4	24.4	1.6				
24	587.9	37.2	60.9	3.9			102.3	6.5	25.4	1.6				
25	560.3	37.7	58.4	3.9			97.9	6.6	24.4	1.6				
26	573.1	36.3	60.9	3.9			102.3	6.5	25.4	1.6				
27	552.7	38.4	55.8	3.9			93.7	6.5	23.3	1.6				
28	606.9	37.6	60.9	3.8			57.5	3.8	25.4	1.6				
29	585.0	37.8	58.4	3.9					24.4	1.6				
30	582.1	36.6	60.9	3.8			46.9	3.0	25.4	1.6				
31														
TOTAL	16,090.2		1,758.5		1,089.0		1,998.1		672.1		0.0		0.0	
AVERAGE	536.3	35.0	58.6	3.8	83.8	5.4	90.8	5.9	22.4	1.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 04/2016

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
								TOTAL	FREE	TOTAL	FREE				
1	7.11	7.19	7.03	38	40	60	65	0.65	0.57	1.82	1.77	6.92	0.14	0.04	
2	7.12	7.19	7.01	38	35	58	53	0.71	0.61	1.87	1.81	6.19	0.15	0.05	
3	7.14	7.20	7.02	38	35	70	73	0.64	0.54	1.85	1.81	6.11	0.19	0.06	
4	7.31	7.19	7.03	33	35	64	66	0.64	0.56	1.82	1.76	29.00	0.28	0.07	
5	7.08	7.12	6.93	36	45	72	64	0.48	0.41	1.77	1.71	62.80	0.19	0.06	
6	7.13	7.09	6.90	38	34	58	55	0.53	0.44	1.78	1.73	50.80	0.16	0.06	
7	7.10	7.05	6.86	38	34	60	64	0.71	0.62	1.82	1.77	46.40	0.16	0.06	
8	7.01	7.07	7.01	30	35	58	53	0.71	0.59	1.80	1.73	37.80	0.19	0.06	
9	7.04	7.03	7.08	30	34	55	52	0.66	0.54	1.87	1.80	38.60	0.15	0.05	
10	7.11	7.05	7.13	34	36	55	50	0.60	0.51	1.84	1.78	39.70	0.16	0.05	
11	7.05	7.02	7.01	32	30	52	50	0.65	0.57	1.93	1.85	38.30	0.12	0.05	
12	7.01	6.98	7.02	26	28	68	76	0.63	0.54	1.85	1.76	38.60	0.13	0.06	
13	6.97	7.00	7.02	26	24	55	50	0.61	0.52	1.86	1.80	36.20	0.14	0.06	
14	7.04	7.01	7.08	28	25	47	53	0.75	0.65	1.81	1.74	34.00	0.16	0.05	
15	7.04	6.98	7.01	26	22	51	45	0.75	0.64	1.84	1.77	33.40	0.19	0.06	
16	6.99	6.95	7.03	25	22	55	50	0.67	0.57	1.83	1.77	36.80	0.18	0.07	
17	6.94	6.93	7.07	25	28	50	53	0.61	0.52	1.88	1.79	35.20	0.17	0.06	
18	7.01	6.92	7.04	28	29	47	46	0.73	0.63	1.89	1.80	33.40	0.15	0.05	
19	7.04	6.92	6.98	28	25	46	43	0.73	0.65	1.82	1.73	31.70	0.12	0.05	
20	6.81	6.93	6.92	28	25	40	38	0.78	0.70	1.82	1.75	28.30	0.16	0.05	
21	6.91	6.94	7.05	29	25	53	48	0.74	0.63	1.84	1.79	28.30	0.16	0.05	
22	6.95	6.96	7.09	28	25	55	52	0.80	0.71	1.82	1.77	26.50	0.14	0.05	
23	6.89	6.97	7.07	28	25	50	48	0.80	0.70	1.81	1.74	24.90	0.14	0.05	
24	6.89	6.93	6.91	25	24	54	58	0.78	0.71	1.82	1.75	22.30	0.14	0.05	
25	6.95	7.00	7.10	28	26	54	55	0.80	0.70	1.86	1.80	21.50	0.15	0.05	
26	6.96	6.98	7.14	28	25	55	52	0.82	0.72	1.86	1.81	19.60	0.16	0.05	
27	6.92	6.93	7.05	28	25	56	54	0.85	0.74	1.84	1.77	19.20	0.18	0.06	
28	6.88	6.90	6.87	28	25	55	51	0.70	0.61	1.81	1.75	17.80	0.17	0.06	
29	6.88	6.93	6.77	28	23	55	52	0.72	0.64	1.83	1.76	16.30	0.15	0.06	
30	6.83	6.97	6.89	28	26	58	55	0.75	0.64	1.84	1.76	15.30	0.17	0.06	
31															
AVERAGE	7.0	7.0	7.0	30	29	56	54	0.70	0.61	1.84	1.77	29.40	0.16	0.06	

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 04/2015

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	6.92		0.20	0.14						0.05	0.06	0.05	0.02		0.06
2	6.19		0.16	0.20						0.04	0.05	0.06	0.02		0.06
3	6.11		0.26	0.32						0.05	0.05	0.22	0.08		0.14
4	29.00		0.51	0.66						0.05	0.05	0.23	0.04		0.12
5	62.80		0.19	0.27						0.04	0.05	0.14	0.05		0.09
6	50.80		0.20	0.21						0.05	0.07	0.09	0.06		0.08
7	46.40		0.18	0.26						0.04	0.05	0.10	0.02		0.09
8	37.80		0.21	0.32						0.06	0.06	0.11	0.05		0.09
9	38.60		0.16	0.20						0.04	0.05	0.10	0.03		0.06
10	39.70		0.18	0.22						0.05	0.06	0.06	0.03		0.06
11	38.30		0.13	0.18						0.04	0.05	0.06	0.02		0.06
12	38.60		0.10	0.30						0.04	0.05	0.18	0.13		0.11
13	36.20		0.16	0.17						0.04	0.05	0.07	0.03		0.07
14	3.00		0.21	0.22						0.05	0.07	0.08	0.02		0.07
15	33.40		0.39	0.48						0.05	0.05	0.24	0.10		0.25
16	36.80		0.21	0.43						0.07	0.07	0.17	0.05		0.08
17	35.20		0.22	0.35						0.09	0.10	0.14	0.06		0.12
18	33.40		0.16	0.34						0.08	0.09	0.16	0.07		0.12
19	31.70		0.12	0.19						0.04	0.04	0.06	0.02		0.07
20	28.30		0.16	0.30						0.04	0.04	0.09	0.04		0.07
21	28.30		0.25	0.20						0.04	0.04	0.06	0.02		0.06
22	26.50		0.23	0.14						0.05	0.06	0.10	0.02		0.06
23	24.90		0.13	0.25						0.04	0.05	0.15	0.09		0.10
24	22.30		0.18	0.18						0.04	0.04	0.07	0.03		0.06
25	21.50		0.17	0.18						0.04	0.05	0.06	0.02		0.06
26	19.60		0.30	0.22						0.09	0.10	0.07	0.02		0.07
27	19.20		0.20	0.32						0.04	0.05	0.11	0.05		0.08
28	17.80		0.17	0.25						0.04	0.05	0.10	0.03		0.07
29	16.30		0.20	0.20						0.04	0.05	0.07	0.02		0.07
30	15.30		0.25	0.20						0.09	0.11	0.08	0.02		0.07
31															
AVERAGE	28.4	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.06	0.11	0.04	#DIV/0!	0.09

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 04/2015

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F°/C°
1	0.18	0.97	0.06	0.03	0.05	0.01			1.55	0.0	10.7
2	0.18	1.13	0.11	0.03	0.02	0.01			1.75	0.0	10.6
3	0.09	1.07	0.05	0.04	0.04	0.01			1.54	0.7	10.9
4	0.12	0.91	0.12	0.04	0.05	0.01			1.50	1.9	11.6
5	0.00	0.97	0.42	0.03	0.18	0.01			1.70	0.0	11.0
6	0.00	1.04	0.45	0.03	0.17	0.01			1.55	0.0	10.5
7	0.00	0.87	0.43	0.03	0.19	0.01			1.65	0.0	11.2
8	0.00	1.11	0.49	0.03	0.17	0.02			1.80	0.5	11.0
9	0.00	0.98	0.39	0.06	0.18	0.01			1.70	0.8	11.5
10	0.00	1.15	0.30	0.04	0.14	0.01			1.54	0.0	12.2
11	0.00	0.99	0.46	0.03	0.15	0.01			1.70	0.7	12.4
12	0.00	1.33	0.68	0.03	0.14	0.01			1.65	0.0	11.5
13	0.00	1.07	0.38	0.03	0.13	0.01			1.65	0.0	11.4
14	0.00	0.94	0.45	0.03	0.12	0.01			1.65	0.5	11.9
15	0.00	1.12	0.41	0.08	0.13	0.01			1.70	1.0	12.1
16	0.00	1.01	0.36	0.03	0.14	0.01			1.75	0.1	11.6
17	0.00	1.28	0.37	0.03	0.12	0.01			1.69	0.2	11.9
18	0.00	0.92	0.49	0.06	0.15	0.01			1.75	0.0	13.0
19	0.00	0.94	0.18	0.03	0.13	0.01			1.65	0.0	13.3
20	0.00	0.98	0.30	0.03	0.01	0.01			1.70	0.3	12.8
21	0.00	1.04	0.34	0.04	0.12	0.01			1.75	0.1	12.4
22	0.00	0.99	0.25	0.03	0.10	0.01			1.75	0.0	12.7
23	0.00	0.92	0.24	0.03	0.11	0.01			1.75	0.1	12.6
24	0.00	0.92	0.36	0.03	0.10	0.01			1.65	0.0	12.6
25	0.00	1.04	0.25	0.04	0.10	0.01			1.75	0.1	12.7
26	0.00	1.22	0.19	0.03	0.09	0.01			1.75	0.3	12.9
27	0.00	0.95	0.22	0.03	0.09	0.01			1.75	0.0	13.0
28	0.00	1.02	0.25	0.03	0.01	0.01			1.75	0.0	13.1
29	0.00	1.17	0.22	0.03	0.09	0.01			1.70	0.0	13.6
30	0.00	1.28	0.22	0.03	0.08	0.01			1.70	0.0	13.7
31										0.0	
AVERAGE	0.02	1.04	0.31	0.04	0.11	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	12.1

	1.50
Number of readings	30
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N)

N

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID : A  
 REPORT MONTH/YEAR: 04/2015  
 PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	30,000	15,000	92.20	15,000	92.10						
2	0										
3	34,000					17,000	99.50	17,000	99.50		
4	0										
5	38,000					19000.00	40.30	19,000	40.30		
6	30,000	15,000	109.40	15,000	109.40						
7	0										
8	36,000					18,000	85.00	18,000	85.00		
9	0										
10	34,000	17,000	93.10	17,000	93.10						
11	0										
12	36,000					18,000	80.10	18,000	80.10		
13	0										
14	34,000	17,000	93.70	17,000	93.70						
15	33,000					17,000	83.00	16,000	83.00		
16	0										
17	29,000	14,000	82.20	15,000	82.20						
18	0										
19	0										
20	36,000					18,000	98.10	18,000	98.10		
21	0										
22	30,000	15,000	99.60	15,000	99.50						
23	49,000					30,000	84.30	19,000	84.30		
24	0										
25	30,000	15,000	88.90	15,000	88.90						
26	0										
27	35,000					18,000	92.90	17,000	92.90		
28	0										
29	30,000	15,000	91.80	15,000	91.90						
30	0										
31	0										
TOTAL	544,000	123,000	750.90	124,000	750.80	155,000	663.20	142,000	663.20	0	0.00
AVERAGE	17,548	15,375	93.863	15,500	93.850	19,375	82.900	17,750	82.900	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 04/2016

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1			1.40	1.30	1.45	1.43	1.35	1.27	1.18	1.11	
2			1.55	1.48	1.31	1.22	1.34	1.18	1.47	1.42	
3			1.51	1.46	1.50	1.36	1.52	1.40	1.29	1.23	
4			1.56	1.49	1.19	1.08	1.44	1.37	1.23	1.14	
5			1.43	1.37	1.50	1.45	1.44	1.38	1.41	1.35	
6			1.61	1.51	0.71	0.58	1.29	1.24	1.40	1.29	
7			1.56	1.49	1.37	1.25	1.30	1.18	1.55	1.52	
8			1.59	1.47	1.41	1.32	1.45	1.39	1.53	1.45	
9			1.62	1.53	1.47	1.45	1.62	1.56	1.61	1.56	
10			1.38	1.28	1.17	1.03	1.37	1.31	1.43	1.40	
11			1.50	1.43	1.39	1.33	1.12	1.00	1.34	1.22	
12			1.46	1.30	0.91	0.75	1.62	1.49	1.53	1.50	
13			1.41	1.34	1.39	1.30	1.43	1.34	1.54	1.48	
14			1.50	1.44	1.04	1.00	1.61	1.46	1.64	1.55	
15			1.57	1.55	1.25	1.17	1.62	1.57	1.60	1.53	
16			1.62	1.45	1.23	1.16	1.59	1.51	1.50	1.48	
17			1.23	1.17	1.53	1.44	1.64	1.47	1.52	1.37	
18			1.35	1.24	1.55	1.46	1.28	1.19	1.44	1.38	
19			1.52	1.40	1.37	1.29	1.44	1.35	1.55	1.47	
20			1.30	1.24	1.63	1.55	1.48	1.40	1.52	1.44	
21			1.39	1.34	1.55	1.48	1.41	1.35	1.26	1.14	
22			1.65	1.58	0.48	0.41	1.58	1.46	1.13	1.04	
23			1.65	1.53	1.66	1.59	1.42	1.38	1.64	1.59	
24			1.30	1.21	1.44	1.32	1.32	1.25	1.50	1.42	
25			1.39	1.28	1.46	1.39	1.38	1.32	1.42	1.35	
26			1.28	1.23	1.16	1.02	1.46	1.43	1.49	1.43	
27			1.50	1.32	1.09	0.97	1.20	1.07	1.53	1.43	
28			1.32	1.26	1.41	1.37	1.34	1.31	1.10	1.06	
29			1.46	1.38	1.10	1.07	1.50	1.43	1.43	1.39	
30			1.47	1.41	1.39	1.32	1.19	1.07	1.58	1.56	
31											
AVERAGE	#DIV/0!	#DIV/0!	Average	1.47	1.38	1.30	1.22	1.43	1.34	1.45	1.38
TOTAL	0.0	0.0	Total Minimum	1.23		0.48		1.12		1.10	
			Free Minimum		1.17		0.41		1.00		1.04

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	0	0	1	0	0	0	0	0	0

Number of Free Residuals	120	Minimum Monthly Free Residual	0.41	Disinfectant Chloramines? (Y/N)	<b>N</b>
Number of Total Residuals	120	Minimum Monthly Total Residual	0.48	Number of days of operation?	<b>30</b>
Total # Less than 0.2 mg/L	0				
Total # Less than 0.5 mg/L					

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**PWS ID :** KY0800273  
**PLANT ID:** A

**TURBIDITY REPORT**

**APPLICABLE TO ALL PLANTS WITH FILTRATION**

**Report Period (MM/YYYY):** 04/2015

**PAGE:**  
**8 OF 11**

**PWS Name:** Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid. - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum
1	23.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062
2	22.5	6	0.06	0.06	0.06	0.05	0.06	0.06	0.058
3	15.5	4	0.08	0.14	0.07	0.06	0.09		0.143
4	24.0	6	0.08	0.10	0.12	0.08	0.07	0.08	0.121
5	24.0	6	0.08	0.09	0.07	0.07	0.07	0.08	0.086
6	24.0	6	0.08	0.08	0.08	0.07	0.08	0.07	0.078
7	23.0	6	0.09	0.07	0.07	0.07	0.07	0.07	0.085
8	23.5	6	0.07	0.07	0.07	0.07	0.09	0.07	0.090
9	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.063
10	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064
11	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.060
12	24.0	6	0.06	0.11	0.07	0.06	0.06	0.07	0.114
13	22.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.065
14	24.0	6	0.06	0.07	0.07	0.06	0.07	0.07	0.072
15	22.0	6	0.07	0.06	0.07	0.06	0.06	0.25	0.249
16	22.0	6	0.08	0.05	0.05	0.07	0.06	0.06	0.080
17	23.5	6	0.08	0.07	0.06	0.06	0.06	0.12	0.121
18	24.0	6	0.12	0.05	0.05	0.05	0.06	0.06	0.115
19	23.0	6	0.05	0.06	0.07	0.06	0.06	0.06	0.067
20	24.0	6	0.06	0.07	0.06	0.05	0.06	0.07	0.068
21	22.0	6	0.05	0.06	0.06	0.06	0.05	0.05	0.060
22	24.0	6	0.05	0.06	0.05	0.06	0.05	0.05	0.058
23	23.0	6	0.06	0.05	0.06	0.06	0.05	0.10	0.101
24	24.0	6	0.06	0.05	0.06	0.06	0.06	0.06	0.062
25	23.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.060
26	24.0	6	0.07	0.07	0.06	0.06	0.06	0.07	0.072
27	22.0	6	0.06	0.06	0.06	0.06	0.08	0.07	0.080
28	24.0	6	0.06	0.07	0.06	0.06	0.06	0.07	0.067
29	23.0	6	0.07	0.06	0.07	0.06	0.06	0.06	0.067
30	24.0	6	0.07	0.07	0.07	0.06	0.07	0.07	0.073
31	0.0	0							0.000
<b>Total</b>	<b>693.0</b>	<b>178</b>						<b>179</b>	<b>0.249</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

Number of samples exceeding ----> 0.1 NTU 7 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley 05-04-2015  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

04/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS		
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>55,132,000</u>
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,837,733</u>
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,969,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>693.0</u>		Number of days of plant operation <u>30</u>	
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken <u>179</u>		Number of lowest chlorine samples recorded <u>30</u>	
Highest single turbidity reading <u>0.25</u>		Lowest single chlorine reading <u>1.50</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>7</u>		Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU <u>0</u>		<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU <u>    </u>		Number of samples under 0.5 mg/L <u>    </u>	
Number of samples exceeded 5 NTU <u>    </u>			

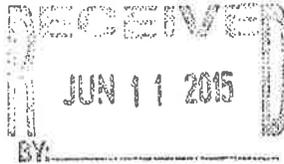
CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>30</u>		Number of days of plant operation <u>30</u>	
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Allen  
Signature of Principal Executive Officer or Authorized Agent

05-04-2015  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

05/2015

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS:	3	DIST. CLASS: 2
AGENCY INTEREST (AI):	2987	DATE MAILED:	06-08-2015	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Timothy D Reed	1V-A	24590	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- 1. DESIGN CAPACITY (gpm): 1,667
- 2. TYPE OF FILTRATION USED: Dual Media
- 3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- 4. PERCENT BACKWASH WATER USED: 1.2
- 6. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/ 09
- 6. DATE SETTLING BASIN(S) LAST CLEANED:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more that one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

06-08-2015  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 06/2015  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,685,000	22.0	236.1	16.8	3.9	0.3			360.2	25.6	146.5	10.4
2	1,924,000	24.0	257.4	16.0	4.2	0.3			425.0	26.5	162.4	10.1
3	1,836,000	24.0	257.4	16.8	4.2	0.3			424.5	27.7	159.8	10.4
4	1,851,000	24.0	257.4	16.7	4.2	0.3			424.5	27.5	159.8	10.4
5	1,737,000	23.0	246.8	17.0	4.0	0.3			386.2	26.7	155.7	10.7
6	1,798,000	23.0	213.9	14.3	4.0	0.3			403.1	26.9	153.2	10.2
7	1,910,000	24.0	223.3	14.0	4.2	0.3			426.9	26.8	170.2	10.7
8	1,858,000	24.0	257.4	16.6	4.2	0.3			419.4	27.1	173.3	11.2
9	1,911,000	24.0	257.4	16.2	4.2	0.3			436.3	27.4	173.6	10.9
10	1,863,000	24.0	257.4	16.6	4.2	0.3			432.0	27.8	173.3	11.2
11	1,850,000	24.0	257.4	16.7	4.2	0.3			446.7	29.0	196.1	12.7
12	1,874,000	24.0	257.4	16.5	4.2	0.3			465.6	29.8	196.1	12.5
13	1,894,000	24.0	257.4	16.3	4.2	0.3			511.4	32.4	183.1	11.6
14	1,516,000	24.0	257.4	19.1	4.2	0.3			450.1	33.4	167.5	12.4
15	1,903,000	24.0	257.4	16.2	4.2	0.3			483.2	30.4	169.1	10.7
16	1,848,000	24.0	257.4	16.7	4.2	0.3			464.2	30.1	162.6	10.6
17	1,830,000	24.0	292.9	19.2	4.2	0.3			467.8	30.7	169.2	11.1
18	1,803,000	24.0	292.9	19.5	4.2	0.3			491.4	32.7	167.6	11.1
19	1,827,000	24.0	292.9	19.2	4.2	0.3			482.0	31.6	159.8	10.5
20	1,750,000	24.0	292.9	20.1	4.2	0.3			463.8	31.8	132.7	9.1
21	1,839,000	24.0	292.9	19.1	4.2	0.3			374.6	24.4	122.4	8.0
22	1,820,000	24.0	292.9	19.3	4.2	0.3			341.6	22.5	159.8	10.5
23	1,863,000	24.0	292.9	18.9	4.2	0.3			370.8	23.9	159.8	10.3
24	1,872,000	24.0	292.9	18.8	4.2	0.3			370.8	23.8	166.6	10.7
25	1,828,000	24.0	292.9	19.2	4.2	0.3			370.8	24.3	159.8	10.5
26	1,422,000	18.0	219.6	18.5	3.2	0.3			291.4	24.6	122.6	10.3
27	3,181,000	23.0	280.6	10.6	4.0	0.2			357.6	13.5	159.8	6.0
28	1,890,000	24.0	292.9	18.6	4.2	0.3			370.8	23.5	159.8	10.1
29	1,847,000	24.0	292.9	19.0	4.2	0.3			367.6	23.9	166.6	10.8
30	1,887,000	24.0	292.9	18.6	4.2	0.3			388.2	24.7	170.2	10.8
31	1,291,000	17.0	207.4	19.3	2.9	0.3			293.8	27.3	119.9	11.1
TOTAL	57,308,000		8231.3		127.0		0.0		12762.3		4998.9	
AVERAGE	1,848,645		265.5	17.4	4.1	0.3	#DIV/0!	#DIV/0!	411.7	27.0	161.3	10.6
MAX	3,181,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 05/2015

APPLICABLE TO ALL PLANTS

PAGE 2 OF 11

CHEMICALS ADDED														
DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
							LBS	PPM						
1	506.7	36.1	55.8	4.0			93.7	6.7	23.3	1.7				
2	587.4	36.6	60.9	3.8			102.3	6.4	25.4	1.6				
3	584.3	38.2	60.9	4.0			102.3	6.7	25.4	1.7				
4	584.3	37.8	60.9	3.9			102.3	6.6	25.4	1.6				
5	541.9	37.4	58.4	4.0			97.9	6.8	24.4	1.7				
6	556.3	37.1	58.4	3.9			97.9	6.5	24.4	1.6				
7	597.1	37.5	60.9	3.8			102.3	6.4	25.4	1.6				
8	592.6	38.2	60.9	3.9			102.3	6.6	25.4	1.6				
9	609.9	38.3	60.9	3.8			102.3	6.4	25.4	1.6				
10	605.3	39.0	60.9	3.9			102.3	6.6	25.4	1.6				
11	642.8	41.7	60.9	3.8			102.3	6.6	25.4	1.6				
12	661.7	42.3	60.9	3.9			102.3	6.5	25.4	1.6				
13	694.5	44.0	60.9	3.9			102.3	6.5	25.4	1.6				
14	617.6	45.8	60.9	4.5			102.3	7.6	25.4	1.9				
15	652.3	41.1	60.9	3.8			102.3	6.4	25.4	1.6				
16	626.8	40.7	60.9	4.0			102.3	6.6	25.4	1.6				
17	637.0	41.7	60.9	4.0			102.3	6.7	25.4	1.7				
18	659.0	43.8	60.9	4.1			102.3	6.8	25.4	1.7				
19	641.8	42.1	60.9	4.0			102.3	6.7	25.4	1.7				
20	586.5	40.9	60.9	4.2			102.3	7.0	25.4	1.7				
21	497.0	32.4	60.9	4.0			102.3	6.7	25.4	1.7				
22	501.4	33.0	60.9	4.0			102.3	6.7	25.4	1.7				
23	530.6	34.1	60.9	3.9			102.3	6.6	25.4	1.6				
24	537.4	34.4	60.9	3.9			102.3	6.6	25.4	1.6				
25	530.6	34.8	60.9	4.0			102.3	6.7	25.4	1.7				
26	414.0	34.9	45.7	3.9			76.7	6.5	19.1	1.8				
27	517.4	19.5	58.4	2.2			97.9	3.7	24.4	0.9				
28	530.6	33.7	60.9	3.9					25.4	1.6				
29	534.2	34.7	60.9	4.0					25.4	1.6				
30	451.7	28.7	60.9	3.9			23.4	1.5	25.4	1.6				
31	413.7	38.4	43.2	4.0			72.4	6.7	16.0	1.7				
TOTAL	17,654.4		1,842.4		0.0		2,810.5		768.6		0.0		0.0	
AVERAGE	569.5	37.4	59.4	3.9	#DIV/0!	#DIV/0!	96.9	6.4	24.8	1.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 05/2015

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	6.93	6.99	7.07	30	33	57	53	0.75	0.67	1.85	1.77	15.20	0.15	0.07
2	6.86	6.96	7.04	33	30	55	48	0.81	0.73	1.99	1.92	14.10	0.16	0.05
3	6.89	6.91	6.95	30	26	52	48	0.77	0.69	1.85	1.79	14.20	0.14	0.05
4	6.91	6.93	6.96	29	26	63	60	0.76	0.65	1.84	1.76	13.10	0.18	0.06
5	6.94	6.94	7.05	28	26	53	50	0.75	0.64	1.85	1.74	12.20	0.20	0.07
6	6.91	6.96	7.05	30	28	55	52	0.73	0.61	1.83	1.75	11.90	0.19	0.06
7	6.90	6.95	7.08	28	26	50	58	0.68	0.60	1.79	1.73	11.60	0.17	0.05
8	6.94	6.93	7.21	28	25	55	52	0.62	0.55	1.86	1.75	11.30	0.18	0.06
9	6.89	6.93	7.23	28	34	54	50	0.65	0.57	1.89	1.81	10.30	0.18	0.05
10	6.86	6.90	6.89	28	30	50	48	0.60	0.51	1.80	1.72	10.70	0.24	0.07
11	6.80	6.92	7.09	32	26	53	50	0.61	0.52	1.85	1.78	10.50	0.23	0.06
12	6.77	6.92	7.08	35	30	65	62	0.58	0.48	1.87	1.80	10.40	0.21	0.06
13	6.80	6.89	7.02	33	30	50	52	0.62	0.54	1.91	1.83	10.00	0.23	0.07
14	6.80	6.85	6.95	30	28	55	52	0.74	0.65	1.88	1.83	9.55	0.40	0.07
15	6.80	6.88	7.05	35	31	60	56	0.73	0.63	1.98	1.92	9.48	0.33	0.06
16	6.76	6.84	7.06	33	31	48	43	0.71	0.59	1.91	1.83	8.60	0.35	0.07
17	6.78	6.83	6.82	30	28	50	47	0.71	0.57	1.81	1.73	8.55	0.25	0.06
18	6.74	6.78	6.94	29	27	55	49	0.83	0.70	1.92	1.85	6.74	0.29	0.08
19	6.82	6.85	7.02	35	35	52	50	0.85	0.72	1.97	1.86	8.67	0.21	0.06
20	6.71	6.83	6.98	35	33	48	43	0.93	0.72	1.85	1.78	11.10	0.25	0.06
21	7.10	7.22	7.23	74	65	107	95	0.94	0.82	1.82	1.71	15.90	0.26	0.06
22	7.22	7.23	7.22	62	57	110	112	0.72	0.60	1.87	1.76	15.40	0.25	0.06
23	7.11	7.22	7.15	68	65	112	110	0.80	0.68	1.92	1.83	14.30	0.24	0.04
24	7.11	7.18	7.13	65	72	110	108	0.75	0.66	1.85	1.78	13.40	0.24	0.05
25	7.13	7.19	7.15	60	62	108	105	0.72	0.63	1.84	1.76	12.60	0.29	0.05
26	7.09	7.15	7.11	65	67	105	102	0.70	0.61	1.83	1.75	11.30	0.26	0.07
27	7.11	7.20	7.08	60	62	115	110	0.62	0.53	1.78	1.71	10.70	0.25	0.05
28	7.04	7.12	7.01	65	61	100	105	0.67	0.55	1.87	1.78	9.54	0.23	0.06
29	7.07	7.05	6.97	64	68	103	100	0.69	0.58	1.96	1.86	9.20	0.22	0.06
30	7.03	7.04	6.99	55	58	90	90	0.62	0.52	1.85	1.76	8.35	0.22	0.05
31	6.96	7.01	6.97	50	52	90	86	0.49	0.38	1.75	1.67	9.31	0.23	0.05
AVERAGE	6.9	7.0	7.1	42	41	72	69	0.71	0.61	1.87	1.78	11.23	0.23	0.06

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID : A  
 AGENCY INTEREST : 2987  
 REPORT MONTH/YEAR : 05/2015

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
		1	15.20		0.16	0.23						0.04	0.05	0.12	
2	14.10		0.19	0.19						0.04	0.05	0.11	0.03		0.06
3	14.20		0.16	0.19						0.04	0.05	0.06	0.02		0.06
4	13.10		0.24	0.24						0.06	0.07	0.09	0.03		0.07
5	12.20		0.24	0.41						0.05	0.06	0.20	0.10		0.10
6	11.90		0.22	0.25						0.05	0.06	0.10	0.06		0.08
7	11.60		0.20	0.19						0.05	0.06	0.08	0.04		0.06
8	11.30		0.27	0.19						0.07	0.09	0.06	0.03		0.06
9	10.30		0.22	0.23						0.06	0.07	0.07	0.03		0.07
10	10.70		0.26	0.37						0.06	0.07	0.15	0.10		0.09
11	10.50		0.29	0.49						0.06	0.07	0.11	0.04		0.09
12	10.40		0.36	0.33						0.06	0.08	0.17	0.11		0.11
13	10.00		0.68	0.62						0.09	0.13	0.22	0.08		0.14
14	9.55		0.28	3.19						0.05	0.06	0.26	0.09		0.19
15	9.48		0.23	1.12						0.05	0.05	0.11	0.04		0.08
16	8.60		0.44	0.84						0.07	0.07	0.16	0.08		0.12
17	8.55		0.27	0.99						0.04	0.05	0.15	0.03		0.14
18	6.74		0.21	1.30						0.08	0.11	0.28	0.07		0.11
19	8.67		0.14	0.44						0.05	0.05	0.13	0.02		0.07
20	11.10		0.18	0.75						0.05	0.05	0.17	0.05		0.09
21	15.90		0.25	0.39						0.05	0.06	0.20	0.02		0.07
22	15.40		0.28	0.45						0.05	0.05	0.12	0.04		0.08
23	14.30		0.45	0.32						0.04	0.05	0.14	0.02		0.05
24	13.40		0.25	0.40						0.04	0.04	0.06	0.02		0.05
25	12.60		0.71	0.36						0.05	0.05	0.07	0.07		0.06
26	11.30		0.23	0.42						0.05	0.04	0.08	0.02		0.07
27	10.70		0.22	0.64						0.05	0.04	0.17	0.06		0.07
28	9.54		0.21	0.37						0.05	0.04	0.08	0.02		0.06
29	9.20		0.17	0.46						0.05	0.04	0.21	0.03		0.07
30	8.35		0.17	0.34						0.05	0.04	0.10	0.02		0.05
31	9.31		0.28	0.40						0.05	0.06	0.10	0.02		0.06
AVERAGE	11.2	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.06	0.13	0.05	#DIV/0!	0.08

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 05/2015

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F°/C°
1	0.05	1.23	0.31	0.03	0.07	0.01			1.68	0.5	13.6
2	0.00	1.16	0.26	0.00	0.09	0.00			1.75	0.0	13.8
3	0.08	1.31	0.27	0.03	0.09	0.01			1.80	0.0	13.7
4	0.00	1.12	0.29	0.00	0.08	0.00			1.75	0.0	14.3
5	0.00	1.21	0.17	0.01	0.08	0.00			1.70	0.0	14.7
6	0.08	1.31	0.22	0.00	0.09	0.00			1.70	0.0	15.0
7	0.00	1.16	0.22	0.03	0.08	0.00			1.75	0.0	15.5
8	0.04	0.74	0.27	0.03	0.09	0.00			1.62	0.0	15.7
9	0.00	0.85	0.30	0.06	0.08	0.00			1.75	0.0	16.8
10	0.03	1.00	0.20	0.03	0.09	0.00			1.70	0.5	17.1
11	0.00	1.01	0.26	0.00	0.09	0.01			1.70	0.0	17.5
12	0.05	0.95	0.27	0.00	0.08	0.00			1.25	0.0	18.0
13	0.00	1.01	0.28	0.00	0.11	0.00			1.75	0.0	18.4
14	0.09	1.00	0.32	0.03	0.09	0.00			1.65	0.0	18.0
15	0.05	1.03	0.31	0.03	0.12	0.01			1.69	0.0	17.8
16	0.10	1.15	0.38	0.02	0.10	0.01			1.70	0.0	18.5
17	0.12	0.98	0.36	0.01	0.10	0.01			1.75	0.0	18.5
18	0.12	1.37	0.36	0.01	0.09	0.01			1.75	0.0	18.8
19	0.08	0.94	0.34	0.03	0.11	0.01			1.70	0.2	18.3
20	0.08	0.86	0.28	0.03	0.13	0.01			1.70	0.0	15.4
21	0.25	0.98	0.25	0.04	0.07	0.01			1.70	0.1	11.6
22	0.15	1.09	0.10	0.03	0.06	0.00			1.70	0.1	11.1
23	0.05	0.91	0.14	0.03	0.07	0.01			1.75	0.0	10.6
24	0.18	1.10	0.23	0.04	0.08	0.01			1.70	0.0	10.6
25	0.18	0.99	0.15	0.02	0.06	0.01			1.60	0.0	11.4
26	0.08	0.92	0.19	0.06	0.08	0.01			1.50	0.0	11.8
27	0.15	1.17	0.16	0.14	0.07	0.01			1.65	0.2	11.7
28	0.11	0.92	0.09	0.00	0.08	0.01			1.70	0.2	12.2
29	0.18	0.99	0.13	0.03	0.08	0.01			1.75	0.0	12.8
30	0.09	0.75	0.22	0.00	0.10	0.01			1.70	0.1	14.3
31	0.04	0.80	0.21	0.03	0.14	0.01			1.75	0.0	13.7
AVERAGE	0.08	1.03	0.24	0.03	0.09	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	14.9

	1.25
Number of readings	31
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N) N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 05/2015

APPLICABLE TO ALL PLANTS WITH FILTRATION

PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)	160	AREA (square feet)	180	AREA (square feet)	180	AREA (square feet)	FILT RUN
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	35,000					18,000	92.60	17,000	92.60		
2	0										
3	0										
4	34,000	17,000	95.80	17,000	95.80						
5	40,000					21000.00	85.00	19,000	85.00		
6	36,000					18,000	28.60	18,000	28.60		
7	0										
8	30,000	15,000	93.30	15,000	93.30						
9	0										
10	36,000					18,000	79.90	18,000	79.90		
11	39,000					19,000	42.20	20,000	42.20		
12	31,000	15,000	111.00	16,000	111.00						
13	0										
14	28,000					14,000	62.80	14,000	62.80		
15	0										
16	40,000					20,000	38.30	20,000	38.30		
17	30,000	15,000	124.30	15,000	123.70						
18	41,000					20,000	54.90	21,000	54.90		
19	0										
20	36,000					18,000	47.20	18,000	47.20		
21	33,000	16,000	90.40	17,000	90.40						
22	36,000					18,000	46.40	18,000	46.40		
23	0										
24	0										
25	32,000	16,000	79.40	16,000	79.40						
26	41,000					21,000	94.90	20,000	94.90		
27	0										
28	0										
29	36,000	18,000	63.90	18,000	63.90						
30	0										
31	33,000	15,000	136.20	18,000	136.10						
TOTAL	667,000	127,000	794.30	132,000	793.60	205,000	672.80	203,000	672.80	0	0.00
AVERAGE	21,516	15,875	99.288	16,500	99.200	18,636	61.164	18,455	61.164	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 05/2016

PAGE 7 OF 11

DAY	CHEMICALS ADDED			TEST RESULTS							
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	Average	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
				NORTH		SOUTH		EAST		WEST	
				T	F	T	F	T	F	T	F
1				1.58	1.48	1.50	1.39	1.35	1.29	1.44	1.36
2				1.62	1.58	1.55	1.48	1.27	1.17	1.77	1.70
3				1.26	1.18	1.52	1.44	1.65	1.51	1.50	1.41
4				1.54	1.39	1.59	1.52	1.38	1.31	1.54	1.48
5				1.32	1.20	0.51	0.41	1.43	1.29	1.47	1.44
6				1.49	1.38	1.42	1.37	1.33	1.29	1.62	1.48
7				1.45	1.29	1.43	1.34	1.49	1.40	1.30	1.23
8				1.39	1.29	1.51	1.39	1.47	1.38	1.39	1.26
9				1.49	1.38	1.14	1.03	1.27	1.15	1.18	1.03
10				1.28	1.24	1.31	1.19	1.12	1.04	1.50	1.38
11				0.92	0.88	0.64	0.62	0.58	0.55	0.94	0.93
12				1.45	1.36	0.98	0.95	0.83	0.78	0.56	0.52
13				1.01	0.79	0.64	0.57	0.86	0.84	1.05	0.94
14				1.37	1.30	1.14	1.10	0.75	0.68	1.31	1.28
15				0.79	0.74	1.18	1.13	0.74	0.72	1.24	1.20
16				1.38	1.27	1.43	1.34	1.39	1.30	1.28	1.22
17				0.53	0.44	1.40	1.27	1.55	1.37	1.23	1.11
18				1.29	1.18	1.47	1.35	1.27	1.15	1.47	1.35
19				1.04	0.90	1.81	1.47	1.51	1.37	1.40	1.27
20				1.40	1.26	0.97	0.83	1.55	1.39	0.65	0.54
21				1.31	1.19	1.24	1.11	1.49	1.33	1.43	1.30
22				1.09	1.00	0.83	0.80	1.08	1.05	1.21	1.16
23				1.27	1.22	1.68	1.59	1.58	1.47	1.73	1.70
24				1.51	1.42	0.50	0.42	1.34	1.32	0.76	0.67
25				1.52	1.42	1.36	1.26	1.24	1.17	0.80	0.70
26				1.40	1.30	1.38	1.27	1.62	1.55	1.45	1.40
27				1.30	1.25	1.24	1.19	1.59	1.53	1.53	1.50
28				1.44	1.33	1.50	1.38	1.40	1.28	1.30	1.18
29				1.60	1.53	1.41	1.28	1.53	1.48	1.41	1.36
30				1.42	1.35	1.45	1.35	1.22	1.09	1.84	1.74
31				1.13	1.09	0.53	0.50	1.00	0.94	1.02	0.93
AVERAGE	#DIV/0!	#DIV/0!	Average	1.31	1.21	1.23	1.14	1.29	1.20	1.30	1.22
TOTAL	0.0	0.0	Total Minimum	0.53		0.50		0.58		0.56	
			Free Minimum		0.44		0.41		0.55		0.52

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	0	0	0	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.41
Number of Total Residuals	124	Minimum Monthly Total Residual	0.50
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 05/2015

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum
1	22.0	6	0.06	0.06	0.06	0.06	0.08	0.08	0.076
2	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062
3	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.059
4	24.0	6	0.06	0.06	0.06	0.07	0.07	0.07	0.071
5	23.0	6	0.06	0.06	0.07	0.10	0.08	0.07	0.095
6	23.0	6	0.07	0.07	0.08	0.08	0.07	0.07	0.084
7	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.061
8	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061
9	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.067
10	24.0	6	0.07	0.09	0.07	0.07	0.07	0.08	0.093
11	24.0	6	0.07	0.07	0.07	0.07	0.08	0.09	0.087
12	24.0	6	0.11	0.08	0.08	0.06	0.06	0.07	0.105
13	24.0	6	0.07	0.07	0.07	0.14	0.07	0.06	0.142
14	24.0	6	0.06	0.06	0.06	0.06	0.04	0.19	0.193
15	24.0	6	0.08	0.06	0.06	0.06	0.06	0.08	0.083
16	24.0	6	0.10	0.06	0.08	0.12	0.09	0.06	0.117
17	24.0	6	0.06	0.06	0.06	0.07	0.07	0.14	0.142
18	24.0	6	0.10	0.07	0.07	0.09	0.11	0.11	0.113
19	24.0	6	0.05	0.05	0.05	0.06	0.07	0.06	0.069
20	24.0	6	0.05	0.06	0.06	0.06	0.09	0.08	0.089
21	24.0	6	0.06	0.05	0.05	0.06	0.07	0.07	0.074
22	24.0	6	0.06	0.06	0.06	0.06	0.08	0.05	0.075
23	24.0	6	0.05	0.05	0.04	0.04	0.05	0.05	0.046
24	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052
25	24.0	6	0.06	0.06	0.05	0.05	0.06	0.05	0.057
26	18.0	5	0.06	0.06	0.06	0.05	0.07		0.065
27	23.0	6	0.07	0.06	0.05	0.05	0.05	0.05	0.069
28	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060
29	24.0	6	0.06	0.06	0.06	0.06	0.07	0.05	0.065
30	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050
31	17.0	5	0.06	0.06	0.06	0.05		0.06	0.062
Total	726.0	184						184	0.193

TOTAL # OF TURBIDITY SAMPLES TAKEN --

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 8 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Carl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

06-08-2015  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID KY0800273

MONITORING PERIOD (MMYYYY) 05/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>57,308,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,848,645</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>3,181,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>726.0</u>		Number of days of plant operation <u>31</u>	
Were samples taken every 4 hours of plant operation? (Y/N) <input checked="" type="checkbox"/> Y		Were samples taken each day of operation? (Y/N) <input checked="" type="checkbox"/> Y	
Number of samples taken <u>184</u>		Number of lowest chlorine samples recorded <u>31</u>	
Highest single turbidity reading <u>0.19</u>		Lowest single chlorine reading <u>1.25</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>8</u>		Was residual restored within 4 hours of plant operation? (Y/N) <input type="checkbox"/>	
Number of samples exceeded 0.3 NTU <u>0</u>		<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU _____		Number of samples under 0.5 mg/L _____	
Number of samples exceeded 5 NTU _____			

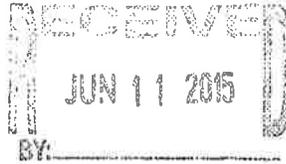
CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>31</u>		Number of days of plant operation <u>31</u>	
Were samples taken each day of operation? (Y/N) <input type="checkbox"/>		Were samples taken each day of operation? (Y/N) <input type="checkbox"/>	
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

06-08-2015  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 06/2015

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS:	<u>3</u>	DIST. CLASS: <u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>06-08-2015</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Timothy D Reed</u>	<u>1V-A</u>	<u>24590</u>	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 1.2
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

06-08-2015  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 06/2016  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,685,000	22.0	236.1	16.8	3.9	0.3			360.2	25.6	146.5	10.4
2	1,924,000	24.0	257.4	16.0	4.2	0.3			425.0	26.5	162.4	10.1
3	1,836,000	24.0	257.4	16.8	4.2	0.3			424.5	27.7	159.8	10.4
4	1,851,000	24.0	257.4	16.7	4.2	0.3			424.5	27.5	159.8	10.4
5	1,737,000	23.0	246.8	17.0	4.0	0.3			386.2	26.7	155.7	10.7
6	1,798,000	23.0	213.9	14.3	4.0	0.3			403.1	26.9	153.2	10.2
7	1,910,000	24.0	223.3	14.0	4.2	0.3			426.9	26.8	170.2	10.7
8	1,858,000	24.0	257.4	16.6	4.2	0.3			419.4	27.1	173.3	11.2
9	1,911,000	24.0	257.4	16.2	4.2	0.3			436.3	27.4	173.6	10.9
10	1,863,000	24.0	257.4	16.6	4.2	0.3			432.0	27.8	173.3	11.2
11	1,850,000	24.0	257.4	16.7	4.2	0.3			446.7	29.0	196.1	12.7
12	1,874,000	24.0	257.4	16.5	4.2	0.3			465.6	29.8	196.1	12.5
13	1,894,000	24.0	257.4	16.3	4.2	0.3			511.4	32.4	183.1	11.6
14	1,616,000	24.0	257.4	19.1	4.2	0.3			450.1	33.4	167.5	12.4
15	1,903,000	24.0	257.4	16.2	4.2	0.3			483.2	30.4	169.1	10.7
16	1,848,000	24.0	257.4	16.7	4.2	0.3			464.2	30.1	162.6	10.6
17	1,830,000	24.0	292.9	19.2	4.2	0.3			467.8	30.7	169.2	11.1
18	1,803,000	24.0	292.9	19.5	4.2	0.3			491.4	32.7	167.6	11.1
19	1,827,000	24.0	292.9	19.2	4.2	0.3			482.0	31.6	159.8	10.5
20	1,750,000	24.0	292.9	20.1	4.2	0.3			463.8	31.8	132.7	9.1
21	1,839,000	24.0	292.9	19.1	4.2	0.3			374.6	24.4	122.4	8.0
22	1,820,000	24.0	292.9	19.3	4.2	0.3			341.6	22.5	159.8	10.5
23	1,863,000	24.0	292.9	18.9	4.2	0.3			370.8	23.9	159.8	10.3
24	1,872,000	24.0	292.9	18.8	4.2	0.3			370.8	23.8	166.6	10.7
25	1,828,000	24.0	292.9	19.2	4.2	0.3			370.8	24.3	159.8	10.5
26	1,422,000	18.0	219.6	18.5	3.2	0.3			291.4	24.6	122.6	10.3
27	3,181,000	23.0	280.6	10.6	4.0	0.2			357.6	13.5	159.8	6.0
28	1,890,000	24.0	292.9	18.6	4.2	0.3			370.8	23.5	159.8	10.1
29	1,847,000	24.0	292.9	19.0	4.2	0.3			367.6	23.9	166.6	10.8
30	1,887,000	24.0	292.9	18.6	4.2	0.3			368.2	24.7	170.2	10.8
31	1,291,000	17.0	207.4	19.3	2.9	0.3			293.8	27.3	119.9	11.1
TOTAL	57,308,000		8231.3		127.0		0.0		12762.3		4998.9	
AVERAGE	1,848,645		265.5	17.4	4.1	0.3	#DIV/0!	#DIV/0!	411.7	27.0	161.3	10.6
MAX	3,181,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 05/2015

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

CHEMICALS ADDED														
DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
							LBS	PPM						
1	506.7	36.1	55.8	4.0			93.7	6.7	23.3	1.7				
2	587.4	36.6	60.9	3.8			102.3	6.4	25.4	1.6				
3	584.3	38.2	60.9	4.0			102.3	6.7	25.4	1.7				
4	584.3	37.8	60.9	3.9			102.3	6.6	25.4	1.6				
5	541.9	37.4	58.4	4.0			97.9	6.8	24.4	1.7				
6	556.3	37.1	58.4	3.9			97.9	6.5	24.4	1.6				
7	597.1	37.5	60.9	3.8			102.3	6.4	25.4	1.6				
8	592.6	38.2	60.9	3.9			102.3	6.6	25.4	1.6				
9	609.9	38.3	60.9	3.8			102.3	6.4	25.4	1.6				
10	605.3	39.0	60.9	3.9			102.3	6.6	25.4	1.6				
11	642.8	41.7	60.9	3.8			102.3	6.6	25.4	1.6				
12	661.7	42.3	60.9	3.9			102.3	6.5	25.4	1.6				
13	694.5	44.0	60.9	3.9			102.3	6.5	25.4	1.6				
14	617.6	45.8	60.9	4.5			102.3	7.6	25.4	1.9				
15	652.3	41.1	60.9	3.8			102.3	6.4	25.4	1.6				
16	626.8	40.7	60.9	4.0			102.3	6.6	25.4	1.6				
17	637.0	41.7	60.9	4.0			102.3	6.7	25.4	1.7				
18	659.0	43.8	60.9	4.1			102.3	6.8	25.4	1.7				
19	641.8	42.1	60.9	4.0			102.3	6.7	25.4	1.7				
20	596.5	40.9	60.9	4.2			102.3	7.0	25.4	1.7				
21	497.0	32.4	60.9	4.0			102.3	6.7	25.4	1.7				
22	501.4	33.0	60.9	4.0			102.3	6.7	25.4	1.7				
23	530.6	34.1	60.9	3.9			102.3	6.6	25.4	1.6				
24	537.4	34.4	60.9	3.9			102.3	6.6	25.4	1.6				
25	530.8	34.8	60.9	4.0			102.3	6.7	25.4	1.7				
26	414.0	34.9	45.7	3.9			76.7	6.5	19.1	1.6				
27	517.4	19.5	58.4	2.2			97.9	3.7	24.4	0.9				
28	530.6	33.7	60.9	3.9					25.4	1.6				
29	534.2	34.7	60.9	4.0					25.4	1.6				
30	451.7	28.7	60.9	3.9			23.4	1.5	25.4	1.6				
31	413.7	38.4	43.2	4.0			72.4	6.7	18.0	1.7				
TOTAL	17,654.4		1,842.4		0.0		2,810.5		766.6		0.0		0.0	
AVERAGE	569.5	37.4	59.4	3.9	#DIV/0!	#DIV/0!	96.9	6.4	24.8	1.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 05/2015

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)													
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	6.93	6.99	7.07	30	33	57	53	0.75	0.67	1.85	1.77	15.20	0.15	0.07
2	6.86	6.96	7.04	33	30	55	48	0.81	0.73	1.99	1.92	14.10	0.16	0.05
3	6.89	6.91	6.95	30	26	52	48	0.77	0.69	1.85	1.79	14.20	0.14	0.05
4	6.91	6.93	6.96	29	26	63	60	0.76	0.65	1.84	1.76	13.10	0.18	0.06
5	6.94	6.94	7.05	28	26	53	50	0.75	0.64	1.85	1.74	12.20	0.20	0.07
6	6.91	6.96	7.05	30	28	55	52	0.73	0.61	1.83	1.75	11.90	0.19	0.06
7	6.90	6.95	7.08	28	26	50	58	0.68	0.60	1.79	1.73	11.60	0.17	0.05
8	6.94	6.93	7.21	28	25	55	52	0.62	0.55	1.86	1.75	11.30	0.18	0.06
9	6.89	6.93	7.23	28	34	54	50	0.65	0.57	1.89	1.81	10.30	0.18	0.05
10	6.86	6.90	6.89	28	30	50	48	0.60	0.51	1.80	1.72	10.70	0.24	0.07
11	6.80	6.92	7.09	32	26	53	50	0.61	0.52	1.85	1.78	10.50	0.23	0.06
12	6.77	6.92	7.08	35	30	65	62	0.58	0.48	1.87	1.80	10.40	0.21	0.06
13	6.80	6.89	7.02	33	30	50	52	0.62	0.54	1.91	1.83	10.00	0.23	0.07
14	6.80	6.85	6.95	30	28	55	52	0.74	0.65	1.88	1.83	9.55	0.40	0.07
15	6.80	6.88	7.05	35	31	60	56	0.73	0.63	1.98	1.92	9.48	0.33	0.06
16	6.76	6.84	7.06	33	31	48	43	0.71	0.59	1.91	1.83	8.60	0.35	0.07
17	6.78	6.83	6.82	30	28	50	47	0.71	0.57	1.81	1.73	8.55	0.25	0.06
18	6.74	6.78	6.94	29	27	55	49	0.83	0.70	1.92	1.85	6.74	0.29	0.08
19	6.82	6.85	7.02	35	35	52	50	0.85	0.72	1.97	1.86	8.67	0.21	0.06
20	6.71	6.83	6.98	35	33	48	43	0.93	0.72	1.85	1.78	11.10	0.25	0.06
21	7.10	7.22	7.23	74	65	107	95	0.94	0.82	1.82	1.71	15.90	0.26	0.06
22	7.22	7.23	7.22	62	57	110	112	0.72	0.60	1.87	1.76	15.40	0.25	0.06
23	7.11	7.22	7.15	68	65	112	110	0.80	0.68	1.92	1.83	14.30	0.24	0.04
24	7.11	7.18	7.13	65	72	110	108	0.75	0.66	1.85	1.78	13.40	0.24	0.05
25	7.13	7.19	7.15	60	62	108	105	0.72	0.63	1.84	1.76	12.60	0.29	0.05
26	7.09	7.15	7.11	65	67	105	102	0.70	0.61	1.83	1.75	11.30	0.26	0.07
27	7.11	7.20	7.08	60	62	115	110	0.62	0.53	1.78	1.71	10.70	0.25	0.05
28	7.04	7.12	7.01	65	61	100	105	0.67	0.55	1.87	1.78	9.54	0.23	0.06
29	7.07	7.05	6.97	64	68	103	100	0.69	0.58	1.96	1.86	9.20	0.22	0.06
30	7.03	7.04	6.99	55	58	90	90	0.62	0.52	1.85	1.76	8.35	0.22	0.05
31	6.96	7.01	6.97	50	52	90	86	0.49	0.38	1.75	1.67	9.31	0.23	0.05
AVERAGE	6.9	7.0	7.1	42	41	72	69	0.71	0.61	1.87	1.78	11.23	0.23	0.06

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 05/2015

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PAGE 4 OF 11

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT						INDIVIDUAL FILTER EFFLUENT							CFE DAILY MAXIMUM
		DAILY MAXIMUM						DAILY MAXIMUM							
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	15.20		0.16	0.23						0.04	0.05	0.12	0.05		0.08
2	14.10		0.19	0.19						0.04	0.05	0.11	0.03		0.06
3	14.20		0.16	0.19						0.04	0.05	0.06	0.02		0.06
4	13.10		0.24	0.24						0.06	0.07	0.09	0.03		0.07
5	12.20		0.24	0.41						0.05	0.06	0.20	0.10		0.10
6	11.90		0.22	0.25						0.05	0.06	0.10	0.06		0.08
7	11.60		0.20	0.19						0.05	0.06	0.08	0.04		0.06
8	11.30		0.27	0.19						0.07	0.09	0.06	0.03		0.06
9	10.30		0.22	0.23						0.06	0.07	0.07	0.03		0.07
10	10.70		0.26	0.37						0.06	0.07	0.15	0.10		0.09
11	10.50		0.29	0.49						0.06	0.07	0.11	0.04		0.09
12	10.40		0.36	0.33						0.06	0.08	0.17	0.11		0.11
13	10.00		0.68	0.62						0.09	0.13	0.22	0.08		0.14
14	9.55		0.28	3.19						0.05	0.06	0.26	0.09		0.19
15	9.48		0.23	1.12						0.05	0.05	0.11	0.04		0.08
16	8.60		0.44	0.84						0.07	0.07	0.16	0.08		0.12
17	8.55		0.27	0.99						0.04	0.05	0.15	0.03		0.14
18	6.74		0.21	1.30						0.08	0.11	0.28	0.07		0.11
19	8.67		0.14	0.44						0.05	0.05	0.13	0.02		0.07
20	11.10		0.18	0.75						0.05	0.05	0.17	0.05		0.09
21	15.90		0.25	0.39						0.05	0.06	0.20	0.02		0.07
22	15.40		0.28	0.45						0.05	0.05	0.12	0.04		0.08
23	14.30		0.45	0.32						0.04	0.05	0.14	0.02		0.05
24	13.40		0.25	0.40						0.04	0.04	0.06	0.02		0.05
25	12.60		0.71	0.36						0.05	0.05	0.07	0.07		0.06
26	11.30		0.23	0.42						0.05	0.04	0.08	0.02		0.07
27	10.70		0.22	0.64						0.05	0.04	0.17	0.06		0.07
28	9.54		0.21	0.37						0.05	0.04	0.08	0.02		0.06
29	9.20		0.17	0.46						0.05	0.04	0.21	0.03		0.07
30	8.35		0.17	0.34						0.05	0.04	0.10	0.02		0.05
31	9.31		0.28	0.40						0.05	0.06	0.10	0.02		0.06
AVERAGE	11.2	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.06	0.13	0.05	#DIV/0!	0.08

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 05/2015

\*Please answer Y/N question below this chart.

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DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.05	1.23	0.31	0.03	0.07	0.01			1.68	0.5	13.6
2	0.00	1.16	0.26	0.00	0.09	0.00			1.75	0.0	13.8
3	0.08	1.31	0.27	0.03	0.09	0.01			1.80	0.0	13.7
4	0.00	1.12	0.29	0.00	0.08	0.00			1.75	0.0	14.3
5	0.00	1.21	0.17	0.01	0.08	0.00			1.70	0.0	14.7
6	0.08	1.31	0.22	0.00	0.09	0.00			1.70	0.0	15.0
7	0.00	1.16	0.22	0.03	0.08	0.00			1.75	0.0	15.5
8	0.04	0.74	0.27	0.03	0.09	0.00			1.62	0.0	15.7
9	0.00	0.85	0.30	0.06	0.08	0.00			1.75	0.0	16.8
10	0.03	1.00	0.20	0.03	0.09	0.00			1.70	0.5	17.1
11	0.00	1.01	0.26	0.00	0.09	0.01			1.70	0.0	17.5
12	0.05	0.95	0.27	0.00	0.08	0.00			1.25	0.0	18.0
13	0.00	1.01	0.28	0.00	0.11	0.00			1.75	0.0	18.4
14	0.09	1.00	0.32	0.03	0.09	0.00			1.65	0.0	18.0
15	0.05	1.03	0.31	0.03	0.12	0.01			1.69	0.0	17.8
16	0.10	1.15	0.38	0.02	0.10	0.01			1.70	0.0	18.5
17	0.12	0.98	0.36	0.01	0.10	0.01			1.75	0.0	18.5
18	0.12	1.37	0.36	0.01	0.09	0.01			1.75	0.0	18.8
19	0.08	0.94	0.34	0.03	0.11	0.01			1.70	0.2	18.3
20	0.08	0.86	0.28	0.03	0.13	0.01			1.70	0.0	15.4
21	0.25	0.98	0.25	0.04	0.07	0.01			1.70	0.1	11.6
22	0.15	1.09	0.10	0.03	0.06	0.00			1.70	0.1	11.1
23	0.05	0.91	0.14	0.03	0.07	0.01			1.75	0.0	10.6
24	0.18	1.10	0.23	0.04	0.08	0.01			1.70	0.0	10.6
25	0.18	0.99	0.15	0.02	0.06	0.01			1.60	0.0	11.4
26	0.08	0.92	0.19	0.06	0.08	0.01			1.50	0.0	11.8
27	0.15	1.17	0.16	0.14	0.07	0.01			1.65	0.2	11.7
28	0.11	0.92	0.09	0.00	0.08	0.01			1.70	0.2	12.2
29	0.18	0.99	0.13	0.03	0.08	0.01			1.75	0.0	12.8
30	0.09	0.75	0.22	0.00	0.10	0.01			1.70	0.1	14.3
31	0.04	0.80	0.21	0.03	0.14	0.01			1.75	0.0	13.7
AVERAGE	0.08	1.03	0.24	0.03	0.09	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	14.9

	1.25
Number of readings	31
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 06/2016

PAGE 6 OF 11

DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No: 7	
		AREA (square feet)	FILT RUN HRS								
1	35,000					18,000	92.60	17,000	92.60		
2	0										
3	0										
4	34,000	17,000	95.80	17,000	95.80						
5	40,000					21000.00	85.00	19,000	85.00		
6	36,000					18,000	28.60	18,000	28.60		
7	0										
8	30,000	15,000	93.30	15,000	93.30						
9	0										
10	36,000					18,000	79.90	18,000	79.90		
11	39,000					19,000	42.20	20,000	42.20		
12	31,000	15,000	111.00	16,000	111.00						
13	0										
14	28,000					14,000	62.80	14,000	62.80		
15	0										
16	40,000					20,000	38.30	20,000	38.30		
17	30,000	15,000	124.30	15,000	123.70						
18	41,000					20,000	54.90	21,000	54.90		
19	0										
20	36,000					18,000	47.20	18,000	47.20		
21	33,000	16,000	90.40	17,000	90.40						
22	36,000					18,000	46.40	18,000	46.40		
23	0										
24	0										
25	32,000	16,000	79.40	16,000	79.40						
26	41,000					21,000	94.90	20,000	94.90		
27	0										
28	0										
29	36,000	18,000	63.90	18,000	63.90						
30	0										
31	33,000	15,000	136.20	18,000	136.10						
TOTAL	667,000	127,000	794.30	132,000	793.60	205,000	672.80	203,000	672.80	0	0.00
AVERAGE	21,516	15,875	99.288	16,500	99.200	18,636	61.164	18,455	61.164	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 06/2016

PAGE 7 OF 11

DAY	CHEMICALS ADDED			TEST RESULTS							
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
				NORTH		SOUTH		EAST		WEST	
				T	F	T	F	T	F	T	F
1				1.58	1.48	1.50	1.39	1.35	1.29	1.44	1.36
2				1.62	1.58	1.55	1.48	1.27	1.17	1.77	1.70
3				1.26	1.18	1.52	1.44	1.65	1.51	1.50	1.41
4				1.54	1.39	1.59	1.52	1.38	1.31	1.54	1.48
5				1.32	1.20	0.51	0.41	1.43	1.29	1.47	1.44
6				1.49	1.38	1.42	1.37	1.33	1.29	1.62	1.48
7				1.45	1.29	1.43	1.34	1.49	1.40	1.30	1.23
8				1.39	1.29	1.51	1.39	1.47	1.38	1.39	1.26
9				1.49	1.38	1.14	1.03	1.27	1.15	1.18	1.03
10				1.28	1.24	1.31	1.19	1.12	1.04	1.50	1.38
11				0.92	0.88	0.64	0.62	0.58	0.55	0.94	0.93
12				1.45	1.36	0.98	0.95	0.83	0.78	0.56	0.52
13				1.01	0.79	0.84	0.57	0.86	0.84	1.05	0.94
14				1.37	1.30	1.14	1.10	0.75	0.68	1.31	1.28
15				0.79	0.74	1.18	1.13	0.74	0.72	1.24	1.20
16				1.38	1.27	1.43	1.34	1.39	1.30	1.28	1.22
17				0.53	0.44	1.40	1.27	1.55	1.37	1.23	1.11
18				1.29	1.18	1.47	1.35	1.27	1.15	1.47	1.35
19				1.04	0.90	1.61	1.47	1.51	1.37	1.40	1.27
20				1.40	1.26	0.97	0.83	1.55	1.39	0.65	0.54
21				1.31	1.19	1.24	1.11	1.49	1.33	1.43	1.30
22				1.09	1.00	0.83	0.80	1.08	1.05	1.21	1.18
23				1.27	1.22	1.68	1.59	1.58	1.47	1.73	1.70
24				1.51	1.42	0.50	0.42	1.34	1.32	0.76	0.67
25				1.52	1.42	1.36	1.26	1.24	1.17	0.80	0.70
26				1.40	1.30	1.38	1.27	1.62	1.55	1.45	1.40
27				1.30	1.25	1.24	1.19	1.59	1.53	1.53	1.50
28				1.44	1.33	1.50	1.38	1.40	1.28	1.30	1.18
29				1.60	1.53	1.41	1.28	1.53	1.48	1.41	1.36
30				1.42	1.35	1.45	1.35	1.22	1.09	1.84	1.74
31				1.13	1.09	0.53	0.50	1.00	0.94	1.02	0.93
AVERAGE	#DIV/0!	#DIV/0!	Average	1.31	1.21	1.23	1.14	1.29	1.20	1.30	1.22
TOTAL	0.0	0.0	Total Minimum	0.53		0.50		0.58		0.56	
			Free Minimum		0.44		0.41		0.55		0.52

Total # Chlorine Samples	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L	0	0	0	0	0	0	0	0
Number of Free Residuals	124	Minimum Monthly Free Residual	0.41					
Number of Total Residuals	124	Minimum Monthly Total Residual	0.50					
Total # Less than 0.2 mg/L	0							
Total # Less than 0.5 mg/L								
		Disinfectant Chloramines? (Y/N)		N				
		Number of days of operation?		31				

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

**TURBIDITY REPORT**

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 05/2015

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	22.0	6	0.06	0.06	0.06	0.06	0.08	0.08	0.076	
2	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
3	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.059	
4	24.0	6	0.06	0.06	0.06	0.07	0.07	0.07	0.071	
5	23.0	6	0.06	0.06	0.07	0.10	0.08	0.07	0.095	
6	23.0	6	0.07	0.07	0.08	0.08	0.07	0.07	0.084	
7	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.061	
8	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.061	
9	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.067	
10	24.0	6	0.07	0.09	0.07	0.07	0.07	0.08	0.093	
11	24.0	6	0.07	0.07	0.07	0.07	0.08	0.09	0.087	
12	24.0	6	0.11	0.08	0.08	0.06	0.06	0.07	0.105	
13	24.0	6	0.07	0.07	0.07	0.14	0.07	0.06	0.142	
14	24.0	6	0.06	0.06	0.06	0.06	0.04	0.19	0.193	
15	24.0	6	0.08	0.06	0.06	0.06	0.06	0.08	0.083	
16	24.0	6	0.10	0.06	0.08	0.12	0.09	0.06	0.117	
17	24.0	6	0.06	0.06	0.06	0.07	0.07	0.14	0.142	
18	24.0	6	0.10	0.07	0.07	0.09	0.11	0.11	0.113	
19	24.0	6	0.05	0.05	0.05	0.06	0.07	0.06	0.069	
20	24.0	6	0.05	0.06	0.06	0.06	0.09	0.08	0.089	
21	24.0	6	0.06	0.05	0.05	0.06	0.07	0.07	0.074	
22	24.0	6	0.06	0.06	0.06	0.06	0.08	0.05	0.075	
23	24.0	6	0.05	0.05	0.04	0.04	0.05	0.05	0.046	
24	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
25	24.0	6	0.06	0.06	0.05	0.05	0.06	0.05	0.057	
26	24.0	6	0.06	0.06	0.05	0.05	0.07		0.065	
27	18.0	5	0.06	0.06	0.06	0.05	0.05	0.05	0.069	
28	23.0	6	0.07	0.06	0.05	0.05	0.05	0.05	0.060	
29	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
30	24.0	6	0.06	0.06	0.06	0.06	0.07	0.05	0.065	
31	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
31	17.0	5	0.06	0.06	0.06	0.05		0.06	0.062	
<b>Total</b>	<b>726.0</b>	<b>184</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>184</b>	<b>0.193</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 8 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Carl L. O'Leary  
 Signature of Principal Executive Officer or Authorized Agent

06-08-2015  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

05/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>57,308,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,848,645</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>3,181,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Were measurements recorded every 15 minutes? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Number of hours of plant operation	<u>726.0</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>184</u>
Highest single turbidity reading	<u>0.19</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU	<u>8</u>
Number of samples exceeded 0.3 NTU	<u>0</u>
Number of samples exceeded 1 NTU	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU	<u>    </u>
Number of samples exceeded 5 NTU	<u>    </u>

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0999</u>
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Number of lowest chlorine samples recorded	<u>31</u>
Lowest single chlorine reading	<u>1.25</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L	<u>    </u>

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>

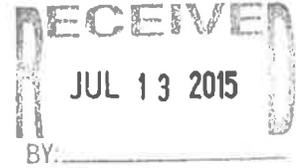
CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/> Y <input type="checkbox"/> N
Number of samples taken	<u>0</u>
Highest single chlorite reading	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

06-08-2015  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

06/2015

Indicate one with "X"

SURFACE WATER

GROUNDWATER

PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	07/08/15	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Timothy D Reed	1V-A	24590	
DISTRIBUTION:	Elbert Osborne	11-A	27800	

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 1.1
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

07/08/15  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 06/2015  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	1,828,000	24.0	292.9	19.2	4.2	0.3			389.8	25.6	173.3	11.4
2	1,893,000	24.0	292.9	18.6	4.2	0.3			417.6	26.5	169.2	10.7
3	1,873,000	24.0	292.9	18.8	4.2	0.3			461.2	29.5	183.1	11.7
4	1,769,000	24.0	292.9	19.9	4.2	0.3			522.6	35.4	167.6	11.4
5	1,879,000	24.0	292.9	18.7	4.2	0.3			511.7	32.7	159.8	10.2
6	1,890,000	24.0	292.9	18.6	4.2	0.3			467.8	29.7	159.8	10.1
7	1,833,000	24.0	249.9	16.3	4.2	0.3			477.8	31.3	159.8	10.5
8	1,811,000	21.5	200.8	14.9	3.8	0.3			435.4	32.4	149.0	11.1
9	1,879,000	24.0	224.2	14.3	4.2	0.3			470.6	30.0	166.6	10.6
10	1,798,000	24.0	224.2	15.0	4.2	0.3			468.6	31.2	180.0	12.0
11	1,852,000	24.0	224.2	14.5	4.2	0.3			567.3	36.7	183.2	11.9
12	1,814,000	24.0	224.2	14.8	4.2	0.3			577.5	38.2	179.8	11.9
13	1,821,000	24.0	224.2	14.8	4.2	0.3			598.1	39.4	183.1	12.1
14	1,831,000	24.0	224.2	14.7	4.2	0.3			598.1	39.2	183.1	12.0
15	1,845,000	24.0	224.2	14.6	4.2	0.3			598.1	38.9	183.1	11.9
16	1,481,000	24.0	224.2	18.2	3.5	0.3			471.3	38.2	152.6	12.4
17	1,908,000	24.0	224.2	14.1	4.2	0.3			606.3	38.1	203.7	12.8
18	1,924,000	24.0	224.2	14.0	4.2	0.3			606.3	37.8	201.9	12.6
19	1,808,000	23.5	188.2	12.5	4.1	0.3			568.7	37.7	182.9	12.1
20	1,839,000	24.0	155.0	10.1	4.2	0.3			593.1	38.7	162.8	10.6
21	1,904,000	24.0	155.0	9.8	4.2	0.3			606.3	38.2	169.2	10.7
22	1,589,000	20.0	129.2	9.7	3.5	0.3			520.6	39.3	141.8	10.7
23	1,898,000	24.0	155.0	9.8	4.2	0.3			606.3	38.3	170.0	10.7
24	1,907,000	24.0	155.0	9.7	4.2	0.3			606.3	38.1	182.4	11.5
25	1,801,000	24.0	155.0	10.3	4.2	0.3			606.3	40.4	186.7	12.4
26	1,755,000	23.0	148.6	10.2	4.0	0.3			578.3	39.5	181.1	12.4
27	1,743,000	23.0	148.6	10.2	4.0	0.3			553.1	38.0	175.5	12.1
28	1,818,000	24.0	155.0	10.2	4.2	0.3			606.3	40.0	192.5	12.7
29	1,756,000	24.0	155.0	10.6	4.2	0.3			606.3	41.4	192.5	13.1
30	1,831,000	24.0	155.0	10.2	4.2	0.3			600.2	39.3	213.1	14.0
31												
TOTAL	54,378,000		6304.8		123.7		0.0		16297.9		5289.2	
AVERAGE	1,812,600		210.2	13.9	4.1	0.3	#DIV/0!	#DIV/0!	543.3	36.0	176.3	11.7
MAX	1,924,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 06/2015

APPLICABLE TO ALL PLANTS

PAGE 2 OF 11

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	563.1	38.9	60.9	4.0			102.3	6.7	25.4	1.7				
2	586.8	37.2	60.9	3.9			102.3	6.5	25.4	1.6				
3	644.3	41.2	60.9	3.9			102.3	6.5	25.4	1.6				
4	690.2	46.8	60.9	4.1			102.3	6.9	25.4	1.7				
5	671.5	42.9	60.9	3.9			102.3	6.5	25.4	1.6				
6	627.6	39.8	60.9	3.9			102.3	6.5	25.4	1.6				
7	637.6	41.7	60.9	4.0			102.3	6.7	25.4	1.7				
8	584.4	43.5	54.6	4.1			91.6	6.8	22.8	1.7				
9	637.2	40.7	60.9	3.9			102.3	6.5	25.4	1.6				
10	648.6	43.3	60.9	4.1			102.3	6.8	25.4	1.7				
11	750.5	48.6	60.9	3.9			102.3	6.6	25.4	1.6				
12	757.3	50.1	60.9	4.0			102.3	6.8	25.4	1.7				
13	781.2	51.4	60.9	4.0			57.5	3.8	25.4	1.7				
14	781.2	51.2	60.9	4.0					25.4	1.7				
15	781.2	50.8	60.9	4.0					25.4	1.7				
16	623.9	50.5	55.0	4.5					21.2	1.7				
17	810.0	50.9	60.9	3.8					25.4	1.6				
18	808.2	50.4	60.9	3.8					25.4	1.6				
19	751.6	49.8	59.6	4.0					24.9	1.7				
20	755.9	49.3	60.9	4.0					25.4	1.7				
21	775.5	48.8	60.9	3.8					25.4	1.6				
22	662.4	50.0	50.8	3.8					21.2	1.6				
23	776.3	49.0	60.9	3.8					25.4	1.6				
24	788.7	49.6	60.9	3.8					25.4	1.6				
25	793.0	52.8	60.9	4.1					25.4	1.7				
26	759.4	51.9	58.4	4.0					24.4	1.7				
27	728.6	50.1	58.4	4.0					24.4	1.7				
28	798.8	52.7	60.9	4.0					25.4	1.7				
29	798.8	54.5	60.9	4.2					25.4	1.7				
30	813.3	53.3	60.9	4.0					25.4	1.7				
31														
TOTAL	21,587.1		1,798.4		0.0		1,274.2		748.5		0.0		0.0	
AVERAGE	719.6	47.7	59.9	4.0	#DIV/0!	#DIV/0!	98.0	6.4	25.0	1.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 06/2015

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)													
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	6.89	6.99	6.99	55	52	80	75	0.58	0.45	1.79	1.71	8.83	0.27	0.06
2	6.89	7.01	7.05	55	52	73	70	0.60	0.49	1.83	1.76	8.94	0.24	0.06
3	6.88	6.98	7.03	58	52	80	76	0.61	0.49	1.94	1.86	8.46	0.22	0.06
4	6.84	6.92	6.97	48	50	73	70	0.82	0.72	1.89	1.79	7.74	0.22	0.07
6	6.84	6.93	7.01	40	44	60	62	0.82	0.70	1.86	1.77	7.86	0.22	0.05
8	6.88	6.99	7.07	55	50	68	70	0.81	0.69	1.84	1.72	7.54	0.23	0.06
7	6.91	7.03	7.00	53	50	78	72	0.72	0.60	1.86	1.76	6.83	0.27	0.06
8	7.01	7.04	7.20	55	63	72	68	0.71	0.55	1.83	1.71	6.45	0.23	0.05
9	7.00	7.10	7.29	63	65	75	72	0.72	0.59	1.83	1.71	6.45	0.26	0.07
10	7.07	7.11	7.22	47	51	81	74	0.58	0.46	1.86	1.74	5.64	0.25	0.06
11	7.10	7.19	7.31	78	80	95	90	0.58	0.47	1.80	1.70	5.06	0.21	0.05
12	7.30	7.24	7.28	85	88	110	104	0.71	0.56	1.88	1.76	4.62	0.21	0.05
13	7.25	7.34	7.24	95	88	120	116	0.74	0.60	1.92	1.80	4.20	0.20	0.05
14	7.17	7.36	7.19	86	84	128	122	0.73	0.56	1.85	1.73	3.55	0.17	0.05
15	7.20	7.39	7.23	105	98	142	136	0.74	0.60	1.96	1.85	3.30	0.17	0.06
16	7.29	7.43	7.30	110	102	145	150	0.75	0.57	1.95	1.84	3.23	0.23	0.08
17	7.33	7.43	7.30	96	93	144	131	0.68	0.52	1.94	1.81	2.80	0.17	0.07
18	7.40	7.32	7.28	110	102	165	160	0.75	0.59	1.93	1.84	2.47	0.15	0.07
19	7.37	7.50	7.39	125	122	170	164	0.82	0.68	1.82	1.81	2.43	0.16	0.06
20	7.43	7.54	7.42	130	125	180	168	0.93	0.79	1.95	1.82	3.02	0.17	0.06
21	7.36	7.53	7.39	130	125	170	166	0.88	0.72	1.89	1.77	3.28	0.18	0.06
22	7.37	7.58	7.39	133	130	175	170	0.73	0.59	1.88	1.80	3.23	0.17	0.08
23	7.39	7.58	7.44	124	120	185	182	0.91	0.78	1.89	1.79	3.15	0.18	0.06
24	7.41	7.57	7.43	140	145	185	180	0.90	0.77	1.83	1.76	3.69	0.18	0.06
25	7.41	7.59	7.43	140	137	180	178	0.84	0.67	1.89	1.79	4.00	0.19	0.08
26	7.43	7.61	7.45	155	150	192	188	0.82	0.66	1.92	1.78	4.11	0.23	0.08
27	7.43	7.62	7.48	158	150	190	188	0.83	0.66	1.91	1.81	3.96	0.21	0.05
28	7.44	7.63	7.50	136	139	194	192	0.77	0.63	1.78	1.71	3.68	0.20	0.05
29	7.48	7.66	7.49	165	158	195	193	0.75	0.59	1.84	1.72	4.82	0.27	0.07
30	7.53	7.71	7.54	140	138	198	194	0.84	0.66	1.90	1.79	5.92	0.21	0.06
31														
AVERAGE	7.2	7.3	7.3	99	97	133	129	0.76	0.61	1.88	1.77	4.98	0.21	0.06

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 06/2015

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA

COPY PAGE AS NEEDED

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	8.83		0.22	0.66						0.05	0.05	0.10	0.03		0.07
2	8.94		0.20	0.35						0.07	0.08	0.13	0.03		0.06
3	8.46		0.18	0.34						0.05	0.05	0.12	0.02		0.07
4	7.74		0.19	0.41						0.05	0.05	0.12	0.03		0.08
5	7.86		0.15	0.41						0.05	0.05	0.07	0.02		0.06
6	6.88		0.18	0.43						0.05	0.05	0.09	0.02		0.06
7	6.83		0.22	0.42						0.05	0.05	0.11	0.02		0.07
8	6.45		0.24	0.40						0.08	0.09	0.07	0.02		0.07
9	6.45		0.19	0.46						0.07	0.06	0.18	0.02		0.10
10	5.64		0.31	0.49						0.07	0.07	0.14	0.03		0.11
11	5.06		0.18	0.39						0.06	0.06	0.06	0.02		0.06
12	4.62		0.15	0.42						0.07	0.06	0.06	0.02		0.07
13	4.20		0.15	0.40						0.06	0.06	0.10	0.03		0.08
14	3.55		0.19	0.33						0.06	0.05	0.13	0.03		0.05
15	3.30		0.15	0.33						0.06	0.05	0.09	0.04		0.07
16	3.23		0.13	0.32						0.07	0.06	0.19	0.06		0.10
17	2.80		0.17	0.37						0.06	0.06	0.07	0.03		0.06
18	2.47		0.18	0.34						0.07	0.06	0.09	0.03		0.07
19	2.43		0.11	0.26						0.07	0.05	0.08	0.04		0.08
20	3.02		0.14	0.29						0.07	0.06	0.07	0.03		0.08
21	3.28		0.25	0.33						0.07	0.06	0.09	0.03		0.08
22	3.23		0.17	0.27						0.06	0.05	0.14	0.06		0.08
23	3.15		0.15	0.36						0.07	0.05	0.09	0.03		0.07
24	3.69		0.16	0.33						0.06	0.05	0.08	0.03		0.08
25	4.00		0.15	0.40						0.07	0.07	0.12	0.03		0.11
26	4.11		0.25	0.46						0.06	0.06	0.09	0.06		0.12
27	3.96		0.17	0.36						0.06	0.05	0.05	0.02		0.06
28	3.68		0.16	0.48						0.06	0.05	0.07	0.02		0.07
29	4.82		0.25	0.58						0.08	0.07	0.11	0.07		0.09
30	5.92		0.18	0.42						0.07	0.06	0.09	0.03		0.08
31															
AVERAGE	5.0	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.10	0.03	#DIV/0!	0.08

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 06/2015

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.11	0.78	0.13	0.02	0.14	0.01			1.70	0.9	14.0
2	0.10	0.80	0.24	0.00	0.18	0.00			1.75	0.4	14.4
3	0.14	0.82	0.19	0.06	0.19	0.01			1.75	0.0	15.0
4	0.10	0.76	0.33	0.03	0.19	0.00			1.75	0.1	15.8
5	0.14	0.85	0.31	0.02	0.20	0.00			1.70	0.0	16.1
6	0.00	0.70	0.28	0.04	0.20	0.01			1.70	0.0	17.1
7	0.11	0.73	0.31	0.07	0.17	0.00			1.69	0.0	17.6
8	0.08	0.77	0.30	0.05	0.25	0.00			1.70	0.0	19.6
9	0.07	0.62	0.32	0.00	0.26	0.00			1.70	0.7	19.5
10	0.22	0.65	0.39	0.03	0.22	0.01			1.61	0.0	19.9
11	0.05	0.96	0.30	0.00	0.31	0.00			1.70	0.0	20.9
12	0.08	1.00	0.28	0.00	0.27	0.00			1.68	0.0	21.4
13	0.14	0.40	0.27	0.08	0.27	0.01			1.70	0.0	21.4
14	0.24	1.22	0.22	0.02	0.25	0.01			1.60	0.0	21.7
15	0.24	1.22	0.19	0.02	0.19	0.01			1.65	0.0	22.2
16	0.18	0.85	0.20	0.02	0.22	0.01			1.50	0.0	22.6
17	0.27	0.87	0.16	0.02	0.23	0.01			1.70	0.1	23.0
18	0.44	1.11	0.18	0.03	0.19	0.01			1.75	0.0	23.3
19	0.31	1.03	0.13	0.01	0.21	0.00			1.66	0.5	23.7
20	0.33	1.07	0.13	0.00	0.21	0.02			1.75	0.5	23.7
21	0.27	0.98	0.12	0.00	0.18	0.01			1.65	0.2	24.2
22	0.31	1.15	0.11	0.02	0.16	0.01			1.60	0.0	24.5
23	0.27	1.11	0.12	0.02	0.18	0.00			1.70	0.0	24.9
24	0.44	1.11	0.14	0.03	0.17	0.01			1.70	0.1	25.3
25	0.20	1.03	0.07	0.02	0.18	0.01			1.70	0.0	25.5
26	0.33	1.10	0.10	0.01	0.14	0.01			1.70	0.9	25.6
27	0.32	1.13	0.10	0.02	0.17	0.01			1.70	0.2	25.9
28	0.37	1.05	0.11	0.03	0.15	0.01			1.70	0.3	25.9
29	0.29	1.18	0.12	0.02	0.19	0.01			1.65	0.0	25.9
30	0.26	1.37	0.09	0.01	0.18	0.00			1.70	0.0	25.9
31											
AVERAGE	0.21	0.95	0.20	0.02	0.20	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	21.6

	1.50
Number of readings	30
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N) N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 06/2015

PAGE 6 OF 11

DAY	FILTER OPERATION											
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No: 7		
		AREA (square feet)	180	AREA (square feet)	180	AREA (square feet)	160	AREA (square feet)	160	AREA (square feet)	160	
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS		
1	36,000						18,000	61.60	18,000	61.60		
2	0											
3	0											
4	66,000	15,000	90.20	15,000	90.10	18,000	74.80	18,000	74.80			
5	0											
6	0											
7	37,000					18,000	71.00	19,000	71.00			
8	28,000	13,000	107.00	15,000	107.00							
9	0											
10	36,000					18,000	60.90	18,000	60.90			
11	0											
12	32,000	16,000	95.90	16,000	95.90							
13	36,000					18,000	78.30	18,000	78.30			
14	0											
15	0											
16	68,000	16,000	80.20	16,000	79.30	18,000	65.40	18,000	66.00			
17	0											
18	0											
19	35,000					17,000	70.00	18,000	70.00			
20	28,000	14,000	106.20	14,000	106.20							
21	0											
22	36,000					18,000	66.30	18,000	66.30			
23	0											
24	0											
25	30,000	15,000	102.30	15,000	99.90							
26	37,000					18,000	92.10	19,000	92.10			
27	0											
28	0											
29	66,000	15,000	95.40	15,000	92.70	18,000	77.30	18,000	77.30			
30	0											
31	0											
TOTAL	571,000	104,000	677.20	106,000	671.10	179,000	717.70	182,000	718.30	0	0.00	
AVERAGE	18,419	14,857	96.743	15,143	95.871	17,900	71.770	18,200	71.830	#DIV/0!	#DIV/0!	

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 06/2015

PAGE 7 OF 11

DAY	DISTRIBUTION SYSTEM OPERATION										
	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER	CHLORINE BOOSTER	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
	LBS	LBS	NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1			1.34	1.22	0.69	0.62	1.41	1.34	1.38	1.29	
2			1.25	1.14	1.48	1.38	0.88	0.85	1.38	1.31	
3			1.36	1.25	0.81	0.54	1.46	1.36	1.35	1.23	
4			1.58	1.47	1.39	1.33	1.36	1.29	1.51	1.42	
5			1.44	1.41	1.26	1.17	1.33	1.21	1.37	1.22	
6			1.46	1.35	1.50	1.33	1.49	1.37	1.49	1.39	
7			1.34	1.25	1.28	1.13	0.57	0.50	1.12	1.06	
8			1.35	1.24	1.29	1.18	1.41	1.27	1.23	1.13	
9			1.34	1.22	0.47	0.40	1.19	1.04	1.29	1.21	
10			1.18	1.06	0.94	0.87	1.12	0.98	1.20	1.10	
11			1.35	1.29	1.12	1.09	1.45	1.40	1.32	1.27	
12			0.58	0.52	1.02	0.93	1.49	1.44	1.31	1.14	
13			1.41	1.32	1.28	1.23	1.44	1.36	0.93	0.90	
14			1.41	1.30	1.43	1.29	1.49	1.34	1.44	1.22	
15			1.06	0.94	0.78	0.70	1.29	1.17	1.38	1.32	
16			0.98	0.90	1.14	1.01	1.00	0.85	0.90	0.77	
17			1.03	0.91	1.29	1.22	1.32	1.04	1.27	1.12	
18			1.12	1.06	1.29	1.12	1.33	1.17	1.27	1.11	
19			1.12	0.91	1.11	1.02	1.36	1.20	1.23	1.19	
20			1.14	1.10	1.56	1.52	1.37	1.26	1.32	1.18	
21			1.06	0.85	1.41	1.31	0.64	0.51	1.05	0.95	
22			0.78	0.61	0.58	0.45	0.98	0.91	1.26	1.13	
23			1.23	1.08	0.83	0.75	1.07	0.99	1.22	1.13	
24			0.63	0.49	1.31	1.20	1.34	1.31	1.41	1.31	
25			1.23	1.11	1.35	1.16	1.08	0.94	1.44	1.24	
26			0.99	0.85	1.30	1.15	0.61	0.56	1.16	1.10	
27			0.40	0.31	1.12	0.94	1.12	1.02	1.00	0.87	
28			1.01	0.89	1.13	1.07	1.09	1.06	1.37	1.28	
29			1.15	1.02	1.08	0.98	1.29	1.21	0.88	0.77	
30			1.12	1.03	0.49	0.38	1.15	0.97	1.20	1.12	
31											
AVERAGE	#DIV/0!	#DIV/0!	Average	1.15	1.04	1.12	1.02	1.20	1.10	1.26	1.15
TOTAL	0.0	0.0	Total Minimum	0.40		0.47		0.57		0.88	
			Free Minimum		0.31		0.38		0.50		0.77

Total # Chlorine Samples	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	1	0	2	0	0	0	0

Number of Free Residuals	120	Minimum Monthly Free Residual	0.31
Number of Total Residuals	120	Minimum Monthly Total Residual	0.40
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **30**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 06/2015

PAGE:  
**8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.05	0.07	0.07	0.05	0.05	0.04	0.068	
2	24.0	6	0.04	0.04	0.04	0.05	0.06	0.06	0.064	
3	24.0	6	0.06	0.07	0.07	0.05	0.06	0.06	0.071	
4	24.0	6	0.07	0.07	0.08	0.06	0.06	0.06	0.077	
5	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.055	
6	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
7	24.0	6	0.07	0.07	0.07	0.06	0.06	0.05	0.071	
8	21.5	6	0.05	0.05	0.05	0.05	0.06	0.07	0.069	
9	24.0	6	0.10	0.10	0.09	0.06	0.06	0.08	0.099	
10	24.0	6	0.11	0.10	0.09	0.05	0.05	0.05	0.105	
11	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.060	
12	24.0	6	0.06	0.06	0.05	0.05	0.05	0.07	0.066	
13	24.0	6	0.06	0.07	0.06	0.05	0.08	0.05	0.078	
14	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
16	24.0	6	0.06	0.07	0.07	0.05	0.06	0.07	0.069	
18	20.0	5	0.09	0.10	0.09		0.06	0.06	0.097	
17	24.0	6	0.06	0.06	0.06	0.06	0.05	0.06	0.064	
18	24.0	6	0.07	0.07	0.06	0.05	0.06	0.06	0.072	
19	23.5	6	0.07	0.08	0.07	0.06	0.05	0.06	0.077	
20	24.0	6	0.06	0.06	0.06	0.06	0.06	0.08	0.078	
21	24.0	6	0.08	0.08	0.07	0.06	0.06	0.07	0.084	
22	20.0	5	0.07	0.08	0.07	0.07	0.05	0.06	0.082	
23	24.0	6	0.07	0.07	0.06	0.05	0.05	0.06	0.073	
24	24.0	6	0.08	0.08	0.07	0.05	0.06	0.08	0.077	
25	24.0	6	0.09	0.11	0.10	0.06	0.06	0.09	0.108	
26	23.0	6	0.12	0.12	0.12	0.06	0.05	0.05	0.123	
27	23.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.058	
28	24.0	6	0.06	0.07	0.07	0.05	0.05	0.06	0.068	
29	24.0	6	0.07	0.09	0.09	0.06	0.06	0.07	0.092	
30	24.0	6	0.07	0.09	0.07	0.06	0.06	0.08	0.090	
31	0.0	0							0.000	
<b>Total</b>	<b>707.0</b>	<b>178</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>179</b>	<b>0.123</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 6 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

07/08/15  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

**06/2015**

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS		
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>54,378,000</u>
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,812,600</u>
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,924,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	<input type="checkbox"/>
Was each filter monitored continuously? (Y/N) _____	<input type="checkbox"/>
Were measurements recorded every 15 minutes? (Y/N) _____	<input type="checkbox"/>
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/>
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/>
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Number of hours of plant operation _____	<u>711.0</u>
Were samples taken every 4 hours of plant operation? (Y/N) _____	<input checked="" type="checkbox"/>
Number of samples taken _____	<u>179</u>
Highest single turbidity reading _____	<u>0.12</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU _____	<u>6</u>
Number of samples exceeded 0.3 NTU _____	<u>0</u>
Number of samples exceeded 1 NTU _____	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU _____	_____
Number of samples exceeded 5 NTU _____	_____

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input checked="" type="checkbox"/>
Number of lowest chlorine samples recorded _____	<u>30</u>
Lowest single chlorine reading _____	<u>1.50</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
Free Chlorine (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L _____	<u>0</u>
Total Chlorine (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L _____	_____

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorine dioxide reading _____	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	<u>0</u>

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorite reading _____	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L _____	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

07/08/15  
Date



**RECEIVED**  
AUG 12 2015

BY: \_\_\_\_\_  
Revised 01/04/07

**KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH  
MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS**

MONTH & YEAR (mm/yyyy) 07/2015

Indicate one with "X"  
 SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS:	<u>3</u>	DIST. CLASS: <u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>08/06/2015</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Timothy D Reed / Elbert Osborne</u>	<u>1V-A / 11-A</u>	<u>24590 / 27800</u>	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

**TREATMENT PLANTS COMPLETE:**

- |   |                                 |
|---|---------------------------------|
| 1. DESIGN CAPACITY (gpm):                   | <u>1,667</u>                    |
| 2. TYPE OF FILTRATION USED:                 | <u>Dual Media</u>               |
| 3. DESIGN FILTRATION RATE (gpm/sq. ft.):    | <u>2.66</u>                     |
| 4. PERCENT BACKWASH WATER USED:             | <u>1.4</u>                      |
| 6. DATE FLOCCULATION BASIN(S) LAST CLEANED: | <u>#2 - 3/18/10 #3 - 9/2/09</u> |
| 6. DATE SETTLING BASIN(S) LAST CLEANED:     | _____                           |

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

08/05/2015  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 07/2015  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,729,000	23.0	148.6	10.3	4.0	0.3			600.2	41.6	213.1	14.8
2	1,747,000	24.0	257.4	17.7	4.2	0.3			595.4	40.9	201.9	13.9
3	1,770,000	24.0	257.4	17.4	4.2	0.3			624.8	42.3	187.7	12.7
4	1,786,000	24.0	257.4	17.3	4.2	0.3			599.5	40.2	169.2	11.4
5	1,794,000	24.0	272.8	18.2	4.2	0.3			636.1	42.5	169.2	11.3
6	1,717,000	24.0	257.4	18.0	4.2	0.3			675.9	47.2	196.1	13.7
7	1,744,000	24.0	257.4	17.7	4.2	0.3			675.9	46.5	183.1	12.6
8	1,759,000	24.0	257.4	17.5	4.2	0.3			675.9	46.1	177.2	12.1
9	1,692,000	23.0	246.8	17.5	4.0	0.3			654.7	46.4	156.1	11.1
10	1,676,000	22.5	241.4	17.3	3.9	0.3			642.4	46.0	167.4	12.0
11	1,751,000	24.0	257.4	17.6	4.2	0.3			677.1	46.4	169.2	11.6
12	1,777,000	24.0	257.4	17.4	4.2	0.3			679.9	45.9	183.1	12.4
13	1,666,000	23.0	246.8	17.8	4.0	0.3			651.0	46.9	174.7	12.6
14	1,604,000	22.0	236.1	17.6	3.9	0.3			619.0	46.3	167.9	12.6
15	1,763,000	24.0	330.6	22.6	4.2	0.3			735.1	50.3	183.1	12.5
16	1,736,000	24.0	330.6	22.8	4.2	0.3			766.9	53.0	183.1	12.6
17	1,772,000	24.0	330.6	22.4	4.2	0.3			770.9	52.2	192.5	13.0
18	1,772,000	23.0	316.6	21.4	4.0	0.3			679.3	46.0	166.5	11.3
19	1,777,000	24.0	330.6	22.3	4.2	0.3			680.7	45.9	173.6	11.7
20	1,715,000	24.0	330.6	23.1	4.2	0.3			687.9	46.1	162.3	11.3
21	1,723,000	24.0	330.6	23.0	4.2	0.3			687.9	47.9	166.9	11.8
22	1,765,000	24.0	330.8	22.5	4.2	0.3			608.8	41.4	147.0	10.0
23	1,717,000	24.0	330.6	23.1	4.2	0.3			606.0	42.3	163.2	11.4
24	1,380,000	19.0	261.8	22.7	3.3	0.3			533.5	48.4	135.4	11.8
25	1,754,000	24.0	330.6	22.6	4.2	0.3			705.7	48.2	169.2	11.6
26	1,826,000	24.0	330.6	21.7	4.2	0.3			705.5	46.3	169.2	11.1
27	1,771,000	24.0	330.6	22.4	4.2	0.3			679.1	46.0	178.8	12.1
28	1,804,000	24.0	330.6	22.0	4.2	0.3			679.0	45.1	192.5	12.8
29	1,746,000	24.0	224.2	15.4	4.2	0.3			698.8	47.9	213.1	14.6
30	1,730,000	24.0	224.2	15.5	4.2	0.3			772.4	53.5	260.9	18.1
31	1,671,000	23.0	214.8	15.4	4.0	0.3			737.4	52.9	250.0	17.9
TOTAL	53,626,000		8680.7		127.7		0.0		20742.7		5825.2	
AVERAGE	1,729,871		279.4	19.4	4.1	0.3	#DIV/0!	#DIV/0!	669.1	46.4	181.5	12.6
MAX	1,826,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0600273

PLANT ID : A

REPORT MONTH/YEAR: 07/2015

APPLICABLE TO ALL PLANTS

PAGE 2 OF 11

CHEMICALS ADDED														
DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
							LBS	PPM						
1	813.3	58.4	58.4	4.0					24.4	1.7				
2	797.3	54.7	60.9	4.2					25.4	1.7				
3	812.5	55.0	60.9	4.1					25.4	1.7				
4	788.7	51.8	60.9	4.1					25.4	1.7				
5	805.3	53.8	60.9	4.1					25.4	1.7				
6	872.0	60.9	60.9	4.3					25.4	1.8				
7	859.0	59.1	60.9	4.2					25.4	1.7				
8	853.1	58.2	60.9	4.2					25.4	1.7				
9	810.8	57.5	58.4	4.1					24.4	1.7				
10	809.8	57.9	57.2	4.1					23.9	1.7				
11	846.3	58.0	60.9	4.2					25.4	1.7				
12	859.0	58.0	60.9	4.1										
13	826.0	59.4	58.4	4.2										
14	786.9	58.8	55.9	4.2	203.7	15.2								
15	916.2	62.8	60.9	4.2	222.1	15.2								
16	950.0	65.6	60.9	4.2	222.1	15.3								
17	963.4	65.2	60.9	4.1	222.1	15.0								
18	845.8	57.2	58.4	4.0	212.8	14.4								
19	854.3	57.6	60.9	4.1	222.1	16.0								
20	850.2	59.4	80.9	4.3	222.1	16.6								
21	856.8	59.6	60.9	4.2	222.1	15.5								
22	755.8	51.3	60.9	4.1	222.1	15.1								
23	769.2	53.7	60.9	4.3										
24	668.9	58.1	48.3	4.2										
25	874.9	59.8	60.9	4.2										
26	874.7	57.4	60.9	4.0										
27	857.9	58.1	80.9	4.1	101.9	6.9								
28	871.5	57.9	60.9	4.0	222.1	14.8								
29	911.9	62.6	60.9	4.2	222.1	15.2								
30	1033.3	71.8	80.9	4.2	222.1	15.4								
31	987.4	70.9	58.4	4.2	213.0	15.3								
TOTAL	28,364.2		1,854.1		2,952.4		0.0		275.9		0.0		0.0	
AVERAGE	850.5	59.0	59.8	4.1	210.9	14.6	#DIV/0!	#DIV/0!	25.1	1.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 07/2016

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.59	7.74	7.58	162	158	198	195	0.79	0.63	1.89	1.78	5.64	0.20	0.07
2	7.62	7.76	7.60	166	160	198	196	0.68	0.51	1.87	1.74	8.04	0.24	0.07
3	7.64	7.75	7.59	145	143	195	190	0.90	0.74	1.92	1.80	15.90	0.22	0.05
4	7.58	7.66	7.53	155	153	195	198	0.73	0.57	1.81	1.69	13.90	0.18	0.06
5	7.52	7.58	7.48	132	134	183	186	0.66	0.51	1.74	1.64	39.10	0.19	0.08
6	7.48	7.56	7.39	145	140	178	172	0.71	0.53	1.87	1.73	25.50	0.22	0.05
7	7.47	7.60	7.41	145	143	182	176	0.82	0.67	1.99	1.86	14.40	0.23	0.05
8	7.47	7.58	7.45	130	135	185	180	0.93	0.75	1.93	1.82	12.80	0.21	0.07
9	7.53	7.59	7.42	144	141	183	177	0.96	0.76	1.95	1.81	11.50	0.23	0.07
10	7.43	7.55	7.41	148	142	178	176	0.69	0.51	1.87	1.75	8.69	0.20	0.07
11	7.50	7.60	7.49	135	126	168	165	0.79	0.65	1.91	1.80	14.50	0.22	0.07
12	7.48	7.52	7.44	116	115	174	182	0.74	0.60	1.91	1.78	14.50	0.21	0.09
13	7.44	7.53	7.41	140	135	170	168	0.79	0.65	1.95	1.84	14.80	0.26	0.11
14	7.36	7.54	7.42	125	122	167	165	0.65	0.49	1.82	1.69	11.40	0.41	0.12
15	7.36	7.39	7.34	120	115	153	150	0.75	0.59	1.87	1.77	35.00	0.39	0.13
16	7.29	7.38	7.27	100	105	120	118	0.73	0.59	1.88	1.79	33.60	0.43	0.14
17	7.29	7.42	7.36	120	116	130	125	0.85	0.70	1.95	1.85	26.00	0.49	0.12
18	7.12	7.40	7.32	100	105	130	125	1.02	0.90	1.98	1.89	20.00	0.38	0.10
19	7.40	7.42	7.33	86	91	126	122	0.89	0.77	1.94	1.86	16.70	0.32	0.10
20	7.31	7.40	7.34	110	106	130	125	0.94	0.80	1.89	1.78	14.40	0.37	0.13
21	7.42	7.42	7.36	98	95	125	119	1.04	0.91	2.00	1.92	12.60	0.24	0.11
22	7.26	7.34	7.27	86	90	135	130	1.03	0.91	1.89	1.80	10.80	0.20	0.09
23	7.23	7.37	7.30	100	98	120	125	1.00	0.89	1.94	1.82	10.20	0.21	0.08
24	7.04	7.29	7.21	85	88	130	125	0.67	0.54	1.94	1.79	10.00	19.00	0.07
25	7.52	7.59	7.39	90	87	120	117	0.77	0.63	1.88	1.77	6.62	0.61	0.14
26	7.80	7.72	7.55	76	74	114	119	0.93	0.77	1.84	1.73	7.48	0.36	0.13
27	7.58	7.72	7.54	98	92	120	115	0.95	0.77	1.90	1.77	3.78	0.45	0.13
28	7.55	7.61	7.48	83	85	115	110	0.67	0.52	1.85	1.75	5.26	0.32	0.11
29	7.51	7.60	7.46	97	95	115	112	0.64	0.48	1.89	1.78	7.27	0.44	0.12
30	7.52	7.47	7.39	92	88	115	110	0.55	0.40	1.88	1.77	7.52	0.47	0.09
31	7.61	7.58	7.45	71	78	114	121	0.74	0.59	1.94	1.86	7.39	0.33	0.10
AVERAGE	7.4	7.5	7.4	116	115	151	148	0.81	0.66	1.90	1.79	14.36	0.91	0.09

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 07/2015

**AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA**

COPY PAGE AS NEEDED

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	5.64		0.18	0.41						0.08	0.06	0.11	0.03		0.10
2	8.04		0.17	0.46						0.06	0.05	0.11	0.08		0.09
3	15.90		0.21	0.42						0.08	0.07	0.07	0.04		0.06
4	13.90		0.13	0.37						0.07	0.06	0.07	0.03		0.07
5	39.10		0.13	0.53						0.07	0.06	0.12	0.03		0.10
6	25.50		0.14	0.58						0.06	0.06	0.11	0.07		0.09
7	14.40		0.13	0.64						0.06	0.05	0.05	0.02		0.06
8	12.80		0.19	0.45						0.10	0.09	0.07	0.02		0.09
9	11.50		0.20	0.53						0.06	0.05	0.10	0.05		0.10
10	8.69		0.14	0.47						0.06	0.05	0.09	0.03		0.08
11	14.50		0.16	0.55						0.06	0.06	0.09	0.03		0.11
12	14.50		0.13	0.57						0.06	0.06	0.12	0.03		0.14
13	14.80		0.19	0.59						0.06	0.06	0.12	0.07		0.16
14	11.40		0.40	0.79						0.06	0.06	0.09	0.05		0.18
16	35.00		0.24	0.90						0.06	0.06	0.16	0.14		0.22
16	33.60		0.18	0.93						0.07	0.06	0.14	0.03		0.26
17	26.00		0.28	1.45						0.06	0.06	0.17	0.32		0.23
18	20.00		0.18	1.35						0.06	0.05	0.13	0.07		0.19
19	16.70		0.16	0.86						0.05	0.05	0.11	0.03		0.15
20	14.40		0.33	1.08						0.08	0.06	0.17	0.04		0.20
21	12.60		0.18	0.47						0.06	0.05	0.09	0.03		0.14
22	10.80		0.25	0.44						0.06	0.05	0.08	0.03		0.12
23	10.20		0.19	0.41						0.06	0.05	0.11	0.04		0.11
24	10.00		0.43	0.61						0.06	0.05	0.15	0.04		0.15
25	6.62		1.35	1.87						0.08	0.07	0.17	0.06		0.30
26	7.48		0.44	0.59						0.11	0.09	0.14	0.09		0.18
27	3.78		0.70	0.98						0.09	0.08	0.15	0.12		0.19
28	5.26		0.37	0.74						0.08	0.08	0.30	0.12		0.20
29	7.27		0.43	1.04						0.08	0.08	0.37	0.13		0.24
30	7.52		0.25	1.37						0.07	0.06	0.48	0.10		0.23
31	7.39		0.31	1.13						0.09	0.08	0.37	0.07		0.16
AVERAGE	14.4	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.06	0.15	0.07	#DIV/0!	0.15

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 07/2015

PAGE 6 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: <u>3</u>		No: <u>4</u>		No: <u>5</u>		No: <u>6</u>		No: <u>7</u>	
		AREA (square feet) 160	FILT RUN HRS								
1	0										
2	41,000					21,000	70.00	20,000	70.00		
3	29,000	14,000	110.50	15,000	110.50						
4	0										
5	0										
6	41,000					21,000	79.40	20,000	79.50		
7	30,000	15,000	98.40	15,000	98.40						
8	0										
9	44,000					22,000	85.90	22,000	85.90		
10	0										
11	30,000	15,000	74.70	15,000	74.30						
12	0										
13	40,000					20,000	83.00	20,000	83.00		
14	0										
15	45,000					22,000	46.60	23,000	46.60		
16	34,000	17,000	118.70	17,000	116.90						
17	45,000					23,000	42.30	22,000	42.30		
18	41,000					21,000	37.80	20,000	37.80		
19	0										
20	30,000	15,000	95.20	15,000	95.00						
21	0										
22	0										
23	44,000					22,000	117.60	22,000	117.60		
24	0										
25	33,000	16,000	136.90	17,000	136.90						
26	0										
27	44,000					22,000	96.10	22,000	96.70		
28	0										
29	88,000					44,000	45.40	44,000	47.10		
30	43,000					22,000	22.40	21,000	22.40		
31	44,000	16,000	130.30	16,000	130.30	12,000	21.20				
TOTAL	746,000	108,000	764.70	110,000	762.30	272,000	747.70	256,000	728.90	0	0.00
AVERAGE	24,065	15,429	109.243	15,714	108.900	22,667	62.308	23,273	66.264	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 07/2015

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)								Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	FLUORIDE		IRON		MANGANESE		RAW	TAP			
	RAW	TAP	RAW	TAP	RAW	TAP					
1	0.26	1.38	0.14	0.02	0.19	0.01			1.65	0.5	26.0
2	0.17	0.92	0.15	0.01	0.18	0.01			1.70	0.0	25.8
3	0.09	1.09	0.26	0.01	0.21	0.01			1.70	1.4	25.3
4	0.05	0.90	0.31	0.02	0.20	0.00			1.60	0.9	25.2
5	0.00	0.79	0.62	0.00	0.33	0.00			1.65	0.1	24.5
6	0.01	1.00	0.47	0.02	0.26	0.01			1.65	0.1	24.7
7	0.13	1.09	0.29	0.03	0.20	0.01			1.80	0.1	24.6
8	0.09	1.25	0.22	0.02	0.16	0.01			1.65	0.3	24.6
9	0.18	0.96	0.24	0.03	0.15	0.01			1.80	0.0	24.3
10	0.17	0.98	0.16	0.01	0.14	0.01			1.65	1.3	25.0
11	0.12	0.84	0.21	0.01	0.16	0.00			1.65	0.8	24.5
12	0.13	0.76	0.34	0.00	0.12	0.00			1.60	0.0	24.0
13	0.16	0.89	0.20	0.01	0.17	0.00			1.50	0.5	24.3
14	0.18	0.79	0.19	0.00	0.16	0.02			1.65	1.1	24.6
15	0.00	0.76	0.45	0.01	0.25	0.00			1.65	0.6	24.2
16	0.00	0.92	0.39	0.00	0.22	0.00			1.60	0.0	24.0
17	0.00	0.88	0.47	0.02	0.10	0.00			1.75	0.0	25.1
18	0.03	0.88	0.42	0.01	0.17	0.01			1.75	0.2	26.2
19	0.10	0.82	0.41	0.03	0.12	0.00			1.70	0.1	23.8
20	0.03	0.80	0.27	0.01	0.11	0.01			1.65	0.5	29.5
21	0.12	0.87	0.19	0.02	0.09	0.00			1.65	0.3	24.2
22	0.08	0.89	0.20	0.00	0.16	0.01			1.65	0.0	24.2
23	0.12	0.90	0.19	0.01	0.08	0.00			1.65	0.0	24.8
24	0.16	0.93	0.24	0.00	0.05	0.00			1.70	0.0	27.1
25	0.10	0.89	0.17	0.00	0.07	0.01			1.60	0.0	27.6
26	0.13	0.87	0.25	0.00	0.09	0.00			1.55	0.0	27.8
27	0.26	0.87	0.14	0.01	0.05	0.01			1.60	0.0	28.1
28	0.13	0.93	0.15	0.00	0.05	0.00			1.60	0.6	28.8
29	0.16	1.21	0.30	0.00	0.09	0.01			1.65	0.0	28.7
30	0.17	0.81	0.18	0.01	0.10	0.01			1.55	0.0	29.9
31	0.13	0.93	0.20	0.00	0.11	0.00			1.60	0.0	30.1
AVERAGE	0.11	0.92	0.27	0.01	0.15	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	25.9

	1.50
Number of readings	31
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N) N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 07/2015

PAGE 7 OF 11

DAY	DISTRIBUTION SYSTEM OPERATION										
	CHEMICALS ADDED			TEST RESULTS							
	CHLORINE BOOSTER	CHLORINE BOOSTER		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
	LBS	LBS		NORTH		SOUTH		EAST		WEST	
			T	F	T	F	T	F	T	F	
1				1.49	1.38	0.99	0.86	1.04	0.98	1.09	0.94
2				0.86	0.71	1.11	1.01	1.13	1.03	1.10	0.91
3				1.35	1.28	0.75	0.69	1.31	1.24	1.16	1.08
4				1.33	1.19	0.65	0.53	1.48	1.33	1.40	1.25
5				1.04	0.88	1.09	0.95	0.95	0.86	0.98	0.84
6				1.12	0.99	0.99	0.91	1.15	1.02	1.23	1.16
7				1.21	1.11	1.09	1.02	1.30	1.24	1.15	1.07
8				0.87	0.78	1.01	0.88	1.28	1.12	0.74	0.58
9				1.29	1.25	1.17	1.01	1.26	1.14	1.40	1.20
10				1.16	1.02	0.79	0.69	1.27	1.19	1.34	1.23
11				1.37	1.26	1.31	1.16	1.27	1.09	1.50	1.35
12				0.95	0.78	1.10	0.96	1.22	1.16	0.80	0.63
13				1.45	1.28	1.04	0.88	0.71	0.52	1.51	1.34
14				1.43	1.35	1.11	1.07	1.47	1.41	1.47	1.33
15				0.94	1.04	1.57	1.49	0.31	0.28	0.38	0.30
16				1.28	1.09	0.91	0.74	1.44	1.24	1.41	1.35
17				1.49	1.39	0.40	0.26	1.28	1.13	1.64	1.53
18				0.98	0.88	1.23	1.15	1.60	1.56	0.47	0.39
19				1.08	1.03	1.38	1.28	1.28	1.19	1.27	1.10
20				1.41	1.34	1.55	1.29	1.38	1.21	0.90	0.78
21				1.34	1.29	1.23	1.18	1.56	1.53	1.54	1.45
22				1.44	1.36	1.55	1.42	1.34	1.28	1.22	1.09
23				1.26	1.14	1.24	1.19	0.92	0.75	1.14	1.07
24				0.85	0.79	1.40	1.32	1.32	1.26	0.81	0.76
25				1.10	1.02	0.30	0.22	1.53	1.45	1.60	1.47
26				0.98	0.82	1.26	1.09	1.26	1.10	0.45	0.34
27				1.35	1.24	1.04	0.96	1.22	1.12	1.39	1.34
28				1.01	0.88	1.39	1.32	1.05	0.94	1.44	1.39
29				1.35	1.22	1.42	1.37	0.75	0.67	1.42	1.36
30				1.17	0.94	1.39	1.18	1.30	1.19	0.93	0.82
31				1.53	1.39	1.33	1.12	0.81	0.67	1.11	0.94
AVERAGE	#DIV/0!	#DIV/0!	Average	1.21	1.10	1.12	1.01	1.20	1.09	1.16	1.04
TOTAL	0.0	0.0	Total Minimum	0.85		0.30		0.31		0.36	
			Free Minimum		0.71		0.22		0.28		0.30

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	2	0	1	0	3	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.22
Number of Total Residuals	124	Minimum Monthly Total Residual	0.30
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID: A

**APPLICABLE TO ALL PLANTS WITH FILTRATION**

Report Period (MM/YYYY): 07/2015

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	23.0	6	0.08	0.10	0.08	0.06	0.06	0.07	0.096	
2	24.0	6	0.08	0.09	0.09	0.09	0.09	0.06	0.089	
3	24.0	6	0.06	0.06	0.05	0.05	0.05	0.06	0.061	
4	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.068	
5	24.0	6	0.10	0.10	0.10	0.07	0.07	0.07	0.104	
6	24.0	6	0.09	0.06	0.06	0.05	0.05	0.05	0.090	
7	24.0	6	0.05	0.06	0.06	0.05	0.05	0.06	0.057	
8	24.0	6	0.08	0.09	0.08	0.06	0.07	0.07	0.085	
9	23.0	6	0.09	0.10	0.09	0.06	0.07	0.07	0.099	
10	22.5	6	0.06	0.07	0.08	0.08	0.06	0.07	0.082	
11	24.0	6	0.07	0.11	0.10	0.07	0.07	0.08	0.106	
12	24.0	6	0.13	0.14	0.14	0.09	0.08	0.10	0.139	
13	23.0	6	0.10	0.16	0.10	0.08	0.16	0.11	0.157	
14	22.0	6	0.13	0.15	0.18	0.10	0.10	0.15	0.179	
15	24.0	6	0.16	0.22	0.10	0.07	0.07	0.07	0.220	
16	24.0	6	0.11	0.26	0.21	0.12	0.13	0.16	0.255	
17	24.0	6	0.23	0.13	0.11	0.09	0.13	0.10	0.233	
18	23.0	6	0.10	0.10	0.12	0.13	0.19	0.11	0.187	
19	24.0	6	0.11	0.15	0.12	0.12	0.10	0.08	0.147	
20	24.0	6	0.11	0.18	0.20	0.12	0.11	0.12	0.199	
21	24.0	6	0.14	0.13	0.11	0.10	0.10	0.11	0.143	
22	24.0	6	0.12	0.11	0.10	0.08	0.08	0.09	0.124	
23	24.0	6	0.09	0.11	0.10	0.08	0.10	0.07	0.114	
24	19.0	5	0.15	0.07	0.07	0.07		0.07	0.146	
25	24.0	6	0.30	0.17	0.18	0.10	0.10	0.14	0.304	
26	24.0	6	0.16	0.18	0.15	0.10	0.11	0.17	0.176	
27	24.0	6	0.17	0.19	0.15	0.11	0.11	0.18	0.192	
28	24.0	6	0.17	0.14	0.12	0.10	0.13	0.20	0.204	
29	24.0	6	0.20	0.15	0.13	0.10	0.12	0.24	0.237	
30	24.0	6	0.14	0.10	0.09	0.08	0.10	0.23	0.226	
31	23.0	6	0.16	0.11	0.10	0.09	0.12	0.09	0.163	
<b>Total</b>	<b>730.5</b>	<b>185</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>185</b>	<b>0.304</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 87 0.3 NTU 1 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Carl T. Alley 08/05/2015  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID KY0800273

MONITORING PERIOD (MMYYYY) 07/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>53,626,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,729,871</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,826,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N) _____	<input type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Number of hours of plant operation _____	<u>730.5</u>
Were samples taken every 4 hours of plant operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of samples taken _____	<u>185</u>
Highest single turbidity reading _____	<u>0.30</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU _____	<u>87</u>
Number of samples exceeded 0.3 NTU _____	<u>1</u>
Number of samples exceeded 1 NTU _____	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU _____	
Number of samples exceeded 5 NTU _____	

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded _____	<u>31</u>
Lowest single chlorine reading _____	<u>1.50</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L _____	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L _____	

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorine dioxide reading _____	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	<u>0</u>

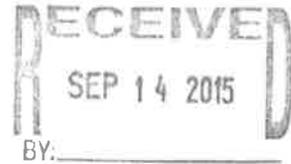
CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorite reading _____	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L _____	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

08/05/2015  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

08/2015

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	09/09/15	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Timothy D Reed / Elbert Osborne	1V-A / 11-A	24590 / 27800	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 1.3
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

09/08/15  
DATE

12



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 08/2015

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,728,000	24.0	224.2	15.6	4.2	0.3			717.5	49.8	201.9	14.0
2	1,665,000	24.0	292.9	21.1	4.2	0.3			716.7	51.6	203.7	14.7
3	1,690,000	24.0	292.9	20.8	4.2	0.3			775.0	55.0	192.5	13.7
4	1,637,000	24.0	292.9	21.5	4.2	0.3			853.8	62.5	192.5	14.1
5	1,716,000	24.0	292.9	20.5	4.2	0.3			893.9	62.5	201.9	14.1
6	1,726,000	24.0	249.9	17.4	4.2	0.3			827.5	57.5	183.1	12.7
7	1,781,000	24.0	224.2	15.1	4.2	0.3			831.3	56.0	190.6	12.8
8	1,772,000	24.0	224.2	15.2	4.2	0.3			876.7	59.3	191.9	13.0
9	1,749,000	24.0	224.2	15.4	4.2	0.3			887.8	60.9	191.9	13.2
10	1,739,000	24.0	224.2	15.5	4.2	0.3			825.9	58.9	183.1	12.6
11	1,731,000	24.0	224.2	15.5	4.2	0.3			865.2	59.9	191.9	13.3
12	1,776,000	24.0	178.1	12.0	4.2	0.3			875.0	59.1	183.1	12.4
13	1,773,000	24.0	155.0	10.5	4.2	0.3			870.2	58.8	183.1	12.4
14	1,733,000	22.5	145.4	10.1	3.9	0.3			823.7	57.0	179.2	12.4
15	1,773,000	24.0	155.0	10.5	4.2	0.3			944.7	63.9	159.8	10.8
16	1,816,000	24.0	155.0	10.2	4.2	0.3			862.9	57.0	166.2	11.0
17	1,704,000	24.0	155.0	10.9	4.2	0.3			846.5	59.6	182.7	11.4
18	1,793,000	24.0	155.0	10.4	4.2	0.3			779.9	52.2	166.2	11.1
19	1,757,000	24.0	155.0	10.6	4.2	0.3			795.7	54.3	159.8	10.9
20	1,791,000	24.0	155.0	10.4	4.2	0.3			784.5	52.5	186.8	12.5
21	1,753,000	24.0	155.0	10.6	4.2	0.3			815.9	55.8	183.1	12.5
22	1,790,000	24.0	155.0	10.4	4.2	0.3			837.0	56.1	183.2	12.3
23	1,787,000	24.0	155.0	10.4	4.2	0.3			868.2	58.3	196.1	13.2
24	1,793,000	24.0	155.0	10.4	4.2	0.3			868.2	58.1	196.1	13.1
25	1,835,000	24.0	155.0	10.1	4.2	0.3			876.4	57.3	203.7	13.9
26	1,790,000	24.0	155.0	10.4	4.2	0.3			868.4	58.2	174.4	11.7
27	1,790,000	24.0	155.0	10.4	4.2	0.3			802.7	53.8	155.8	10.4
28	1,819,000	24.0	155.0	10.2	4.2	0.3			774.5	51.1	174.2	11.5
29	1,809,000	24.0	155.0	10.3	4.2	0.3			765.5	50.7	169.5	11.2
30	1,860,000	24.0	155.0	10.0	4.2	0.3			778.6	50.2	166.8	10.7
31	1,815,000	24.0	155.0	10.2	4.2	0.3			810.2	53.5	183.1	12.1
TOTAL	54,691,000		5880.3		129.9		0.0		25720.0		5857.7	
AVERAGE	1,764,228		189.7	13.0	4.2	0.3	#DIV/0!	#DIV/0!	829.7	56.4	182.5	12.4
MAX	1,880,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 08/2016

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
1	919.4	63.8	60.9	4.2	222.1	15.4								
2	920.4	66.3	60.9	4.4	222.1	16.0								
3	967.5	68.6	60.9	4.3	222.1	15.8								
4	1046.3	76.8	60.9	4.5	208.4	15.3								
5	1095.8	76.6	60.9	4.3	157.4	11.0			18.0	1.3				
6	1010.6	70.2	60.9	4.2	222.1	15.4			25.4	1.8				
7	1021.9	68.8	60.9	4.1	222.1	15.0			25.4	1.7				
8	1068.6	72.3	60.9	4.1	222.1	15.0			25.4	1.7				
9	1079.7	74.0	60.9	4.2	222.1	15.2			25.4	1.7				
10	1009.0	69.6	60.9	4.2	222.1	15.3			25.4	1.8				
11	1057.1	73.2	60.9	4.2	222.1	15.4			25.4	1.8				
12	1068.1	71.4	60.9	4.1	222.1	15.0			25.4	1.7				
13	1053.3	71.2	60.9	4.1	222.1	15.0			25.4	1.7				
14	1002.9	69.4	57.2	4.0	208.4	14.4			23.9	1.7				
15	1004.5	67.9	60.9	4.1	222.1	15.0			25.4	1.7				
16	1029.1	67.9	60.9	4.0	222.1	14.7			25.4	1.7				
17	1009.2	71.0	60.9	4.3	222.1	15.6			25.4	1.8				
18	946.1	63.3	60.9	4.1	95.2	6.4			25.4	1.7				
19	955.2	65.2	60.9	4.2	95.2	6.5			25.4	1.7				
20	971.3	65.0	60.9	4.1	222.1	14.9			25.4	1.7				
21	999.0	68.3	60.9	4.2	222.1	15.2			25.4	1.7				
22	1020.2	68.3	60.9	4.1	222.1	14.9			25.4	1.7				
23	1064.3	71.4	60.9	4.1	222.1	14.9			25.4	1.7				
24	1064.3	71.2	60.9	4.1	222.1	14.9			25.4	1.7				
25	1080.1	70.6	60.9	4.0	222.1	14.5			25.4	1.7				
26	1042.6	69.9	60.9	4.1	222.1	14.9			25.4	1.7				
27	958.5	64.2	60.9	4.1					25.4	1.7				
28	948.7	62.5	60.9	4.0					25.4	1.7				
29	935.0	62.0	60.9	4.0					25.4	1.7				
30	945.2	60.9	60.9	3.9	222.1	14.3			25.4	1.6				
31	993.3	65.6	60.9	4.0	222.1	14.7			25.4	1.7				
TOTAL	31,277.4		1,884.2		5,872.9		0.0		676.9		0.0		0.0	
AVERAGE	1,008.9	68.6	60.6	4.1	209.7	14.3	#DIV/0!	#DIV/0!	25.1	1.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 08/2015

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.33	7.46	7.40	90	96	127	123	0.84	0.71	2.00	1.89	5.79	0.43	0.08
2	7.29	7.43	7.35	90	82	133	126	0.72	0.59	1.83	1.78	23.60	0.62	0.12
3	7.48	7.45	7.42	105	100	160	156	0.59	0.44	1.93	1.84	13.40	0.35	0.11
4	7.52	7.50	7.45	120	116	190	185	0.57	0.43	1.77	1.71	13.40	0.46	0.11
5	7.69	7.61	7.53	113	108	181	190	0.87	0.74	1.94	1.88	6.91	0.42	0.10
6	7.78	7.66	7.60	125	120	205	200	1.00	0.87	1.98	1.87	5.71	0.53	0.12
7	7.77	7.69	7.61	148	132	210	205	0.83	0.71	1.99	1.87	4.76	0.47	0.12
8	7.76	7.69	7.62	134	128	212	205	0.94	0.83	1.94	1.82	4.15	0.35	0.12
9	7.74	7.70	7.64	122	125	214	215	0.96	0.83	1.98	1.89	3.03	0.38	0.08
10	7.83	7.75	7.64	135	132	215	210	1.03	0.89	1.96	1.84	2.30	0.46	0.08
11	7.91	7.76	7.68	145	148	228	222	0.87	0.74	1.98	1.87	1.91	0.44	0.10
12	7.98	7.80	7.72	145	152	220	222	1.08	0.93	1.97	1.89	2.24	0.34	0.10
13	7.99	7.83	7.73	145	148	228	225	0.87	0.74	1.95	1.86	2.21	0.46	0.11
14	8.03	7.86	7.78	155	152	235	230	0.77	0.66	1.93	1.86	2.31	0.29	0.09
15	8.03	7.94	7.81	155	152	238	233	0.98	0.84	1.94	1.84	2.34	0.14	0.09
16	8.10	7.96	7.83	150	146	244	242	0.98	0.85	1.92	1.79	2.13	0.26	0.09
17	8.03	7.98	7.86	158	152	238	235	0.97	0.84	1.93	1.81	1.91	0.29	0.09
18	8.20	8.05	7.81	155	150	240	238	0.94	0.81	1.83	1.73	1.77	0.31	0.08
19	8.24	8.06	7.93	155	158	245	242	0.96	0.82	1.98	1.86	1.78	0.32	0.11
20	8.20	8.07	7.93	158	162	245	242	0.77	0.65	1.85	1.74	2.71	0.35	0.08
21	8.25	8.07	7.94	150	152	250	245	0.81	0.67	1.90	1.75	2.31	0.43	0.11
22	8.22	8.06	7.92	155	152	250	245	0.76	0.64	1.77	1.67	2.57	0.46	0.10
23	8.19	8.05	7.92	161	158	241	239	0.72	0.63	1.88	1.77	2.83	0.36	0.12
24	8.18	8.08	7.93	170	165	240	236	0.70	0.57	1.89	1.77	1.83	0.49	0.10
25	8.28	8.11	7.97	160	156	242	238	0.70	0.57	1.87	1.78	1.71	0.53	0.11
26	8.29	8.09	7.98	160	155	245	240	1.17	1.04	2.03	1.93	1.60	0.39	0.11
27	8.23	8.08	7.96	158	164	245	243	1.19	1.08	1.98	1.89	1.33	0.44	0.13
28	8.24	8.10	7.96	160	155	250	245	0.97	0.85	1.93	1.82	1.04	0.41	0.10
29	8.24	8.08	7.96	152	153	248	249	0.93	0.84	1.83	1.76	1.46	0.33	0.12
30	8.27	8.10	7.97	158	152	248	250	0.76	0.65	1.87	1.78	1.18	0.28	0.09
31	8.28	8.11	7.99	164	162	245	240	0.84	0.70	1.87	1.77	1.14	0.24	0.10
AVERAGE	8.0	7.9	7.8	144	141	223	220	0.87	0.75	1.92	1.82	3.98	0.39	0.10

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID:     A      
 AGENCY INTEREST:     2987      
 REPORT MONTH/YEAR:     08/2015    

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	5.79		0.28	1.60						0.09	0.08	0.25	0.07		0.13
2	23.60		0.22	2.20						0.08	0.08	0.44	0.14		0.17
3	13.40		0.22	0.75						0.07	0.07	0.30	0.06		0.18
4	13.40		0.27	0.98						0.07	0.08	0.45	0.11		0.28
5	6.91		0.33	1.03						0.07	0.07	0.28	0.07		0.21
6	5.71		0.32	1.25						0.06	0.06	0.39	0.08		0.24
7	4.76		0.41	1.27						0.05	0.06	0.32	0.04		0.19
8	4.15		0.46	1.18						0.05	0.05	0.34	0.09		0.20
9	3.03		0.43	0.91						0.05	0.05	0.18	0.05		0.12
10	2.30		0.33	1.33						0.05	0.05	0.16	0.03		0.11
11	1.91		0.28	1.36						0.05	0.05	0.21	0.05		0.21
12	2.24		0.33	1.15						0.05	0.05	0.26	0.06		0.16
13	2.21		0.36	1.74						0.05	0.05	0.27	0.04		0.24
14	2.31		0.27	0.65						0.05	0.06	0.28	0.07		0.14
15	2.34		0.22	0.47						0.05	0.06	0.25	0.07		0.14
16	2.13		0.26	0.55						0.05	0.06	0.21	0.04		0.16
17	1.91		0.20	0.66						0.05	0.06	0.19	0.06		0.14
18	1.77		0.28	1.33						0.07	0.07	0.15	0.04		0.12
19	1.78		0.28	0.98						0.06	0.06	0.22	0.04		0.17
20	2.71		0.30	0.96						0.06	0.06	0.20	0.06		0.12
21	2.31		0.33	0.98						0.06	0.06	0.27	0.05		0.22
22	2.57		0.40	1.34						0.06	0.06	0.31	0.09		0.17
23	2.83		0.31	0.64						0.05	0.06	0.29	0.06		0.27
24	1.83		0.24	2.20						0.06	0.07	0.26	0.08		0.15
25	1.71		0.18	2.54						0.06	0.07	0.25	0.06		0.19
26	1.60		0.17	1.01						0.06	0.06	0.21	0.11		0.17
27	1.33		0.18	1.28						0.06	0.06	1.72	0.08		0.21
28	1.04		0.26	1.14						0.06	0.06	0.27	0.08		0.18
29	1.46		0.15	1.04						0.06	0.06	0.20	0.05		0.16
30	1.18		0.19	0.69						0.06	0.06	0.15	0.07		0.13
31	1.14		0.13	0.56						0.06	0.06	0.17	0.04		0.15
AVERAGE	4.0	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.30	0.07	#DIV/0!	0.18

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 08/2015

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F°/C°
1	0.15	1.02	0.14	0.00	0.10	0.01			1.75	0.0	26.8
2	0.00	0.89	0.49	0.00	0.28	0.00			1.60	0.0	27.1
3	0.10	0.93	0.35	0.02	0.19	0.01			1.70	0.0	26.9
4	0.17	0.94	0.31	0.01	0.24	0.00			1.70	0.3	26.9
5	0.32	1.20	0.25	0.00	0.20	0.01			1.40	0.0	27.3
6	0.31	1.03	0.19	0.01	0.16	0.01			1.70	0.1	27.3
7	0.25	1.03	0.15	0.02	0.13	0.01			1.70	0.6	27.1
8	0.23	1.03	0.11	0.00	0.10	0.01			1.65	0.0	26.3
9	0.25	0.95	0.14	0.03	0.09	0.00			1.75	0.0	26.7
10	0.34	0.99	0.11	0.00	0.10	0.01			1.70	0.0	27.4
11	0.08	0.93	0.30	0.00	0.09	0.01			1.70	0.0	27.4
12	0.40	0.95	0.04	0.00	0.05	0.01			1.65	0.0	27.4
13	0.25	0.94	0.11	0.03	0.08	0.01			1.65	0.0	27.4
14	0.32	1.20	0.08	0.01	0.07	0.01			1.65	0.0	27.0
15	0.40	0.99	0.09	0.02	0.07	0.01			1.70	0.0	27.1
16	0.43	0.98	0.11	0.02	0.07	0.02			1.75	0.0	27.5
17	0.43	1.12	0.08	0.01	0.06	0.01			1.70	0.0	27.5
18	0.39	1.19	0.08	0.00	0.06	0.01			1.50	0.8	27.3
19	0.27	1.03	0.09	0.00	0.12	0.02			1.65	0.1	27.3
20	0.25	1.06	0.10	0.00	0.06	0.01			1.75	0.4	27.7
21	0.34	0.97	0.07	0.03	0.07	0.01			1.60	0.0	27.1
22	0.31	1.09	0.10	0.00	0.06	0.01			1.55	0.0	26.9
23	0.31	1.09	0.09	0.00	0.06	0.02			1.60	0.0	26.5
24	0.42	1.25	0.07	0.02	0.07	0.01			1.65	0.0	27.1
25	0.40	1.03	0.08	0.00	0.07	0.00			1.65	0.0	27.0
26	0.39	0.93	0.19	0.01	0.06	0.01			1.70	0.0	26.6
27	0.40	1.00	0.07	0.00	0.05	0.02			1.75	0.0	25.9
28	0.37	1.06	0.06	0.01	0.09	0.03			1.70	0.0	25.5
29	0.33	0.97	0.04	0.00	0.10	0.02			1.70	0.0	25.7
30	0.53	0.79	0.10	0.00	0.03	0.01			1.70	0.0	25.7
31	0.32	0.98	0.07	0.01	0.05	0.00			1.65	0.0	25.5
AVERAGE	0.31	1.02	0.14	0.01	0.10	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	26.9
									1.40		
									Number of readings	31	2.34
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID : A  
 REPORT MONTH/YEAR: 08/2015  
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DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	
1	0										
2	32,000					16,000	67.50	16,000	63.10		
3											
4	62,000					31,000	54.20	31,000	56.10		
5	30,000					15000.00	23.10	15,000	24.10		
6	33,000	18,000	145.70	17,000	146.40						
7	0										
8	42,000					21,000	66.60	21,000	68.00		
9	0										
10	0										
11	36,000					18,000	75.80	18,000	75.40		
12	33,000	16,000	147.10	17,000	146.40						
13	36,000					18,000	47.20	18,000	47.80		
14	0										
15	30,000					15,000	29.80	15,000	31.50		
16	0										
17	66,000	16,000	124.80	16,000	122.50	17,000	44.10	17,000	44.70		
18	0										
19	34,000					17,000	66.10	17,000	66.70		
20	0										
21	34,000					17,000	47.40	17,000	47.90		
22	0										
23	34,000					17,000	47.30	17,000	47.90		
24	33,000	16,000	156.00	17,000	158.10						
25	0										
26	34,000					17,000	51.30	17,000	51.90		
27	34,000					17,000	42.40	17,000	43.00		
28	29,000	14,000	102.60	15,000	102.20						
29	36,000					18,000	42.90	18,000	43.60		
30	0										
31	36,000					17,000	52.00	19,000	51.90		
TOTAL	704,000	78,000	676.00	82,000	673.60	271,000	747.70	273,000	763.60	0	0.00
AVERAGE	23.467	15,600	135.200	16,400	134.720	18,067	49.847	18,200	50.907	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 08/2016

ALL WATER SYSTEMS

PAGE 7 OF 11

DAY	CHEMICALS ADDED			TEST RESULTS							
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
				NORTH		SOUTH		EAST		WEST	
				T	F	T	F	T	F	T	F
1				1.59	1.48	1.02	0.91	1.30	1.18	1.35	1.31
2				1.40	1.28	1.32	1.24	1.33	1.27	1.56	1.52
3				0.61	0.54	0.67	0.55	1.20	1.13	1.03	0.97
4				0.83	0.72	1.33	1.25	0.94	0.84	1.05	0.97
5				0.93	0.87	0.87	0.74	0.30	0.27	1.06	0.99
6				1.22	1.13	1.23	1.15	1.26	1.23	1.02	0.98
7				1.08	1.01	0.42	0.37	1.23	1.19	1.55	1.44
8				1.22	1.18	1.01	0.87	1.18	1.12	0.59	0.47
9				1.15	1.02	0.32	0.27	1.19	1.09	0.55	0.46
10				0.93	0.81	1.28	1.17	0.45	0.38	1.34	1.15
11				1.17	1.07	0.80	0.67	1.33	1.18	1.29	1.20
12				1.22	1.09	1.48	1.42	1.16	1.12	1.38	1.27
13				1.02	0.93	1.66	1.58	0.54	0.45	1.27	1.22
14				1.12	0.94	0.97	0.87	1.00	0.88	1.07	1.03
15				1.14	1.00	1.45	1.28	1.38	1.26	1.51	1.35
16				0.90	0.84	1.45	1.30	1.43	1.33	1.27	1.13
17				1.06	0.89	0.99	0.87	1.90	1.80	1.30	1.22
18				1.41	1.31	0.95	0.81	1.07	0.90	1.37	1.25
19				1.35	1.21	2.08	1.96	1.40	1.29	1.38	1.27
20				1.39	1.24	1.90	1.78	1.28	1.17	1.16	1.03
21				0.88	0.78	0.78	0.63	1.89	1.77	0.68	0.60
22				1.18	1.08	0.92	0.79	1.11	1.01	1.04	0.93
23				0.92	0.88	1.12	0.96	0.91	0.76	0.95	0.84
24				1.13	1.04	0.78	0.84	1.04	0.95	1.04	0.96
25				1.08	0.93	1.20	1.19	0.97	0.89	1.23	1.18
26				1.27	1.21	0.92	0.84	0.98	0.95	1.46	1.43
27				1.22	1.14	1.05	0.91	1.07	0.92	1.44	1.29
28				1.22	1.12	1.12	0.98	1.25	1.20	1.29	1.23
29				1.03	0.98	1.20	1.14	1.08	1.03	1.31	1.25
30				1.34	1.26	1.20	1.07	1.19	1.07	1.33	1.29
31				0.69	0.60	1.25	1.22	0.95	0.93	1.27	1.17
AVERAGE	#DIV/0!	#DIV/0!	Average	1.12	1.02	1.12	1.01	1.14	1.05	1.20	1.11
TOTAL	0.0	0.0	Total Minimum	0.61		0.32		0.30		0.55	
			Free Minimum		0.54		0.27		0.27		0.46

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.8 mg/L	0	0	2	0	2	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.27
Number of Total Residuals	124	Minimum Monthly Total Residual	0.30
Total # Less than 0.2 mg/L	0		
Total # Less than 0.8 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

**TURBIDITY REPORT**

**APPLICABLE TO ALL PLANTS WITH FILTRATION**

Report Period (MM/YYYY): 08/2015

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.11	0.11	0.13	0.09	0.08	0.13	0.132	
2	24.0	6	0.15	0.16	0.13	0.07	0.13	0.12	0.161	
3	24.0	6	0.13	0.13	0.13	0.09	0.10	0.18	0.179	
4	24.0	6	0.20	0.14	0.14	0.11	0.13	0.28	0.283	
5	24.0	6	0.13	0.12	0.13	0.09	0.10	0.21	0.208	
6	24.0	6	0.24	0.17	0.16	0.12	0.09	0.17	0.242	
7	24.0	6	0.19	0.14	0.13	0.11	0.09	0.17	0.193	
8	24.0	6	0.20	0.14	0.11	0.08	0.12	0.15	0.204	
9	24.0	6	0.12	0.09	0.09	0.06	0.07	0.10	0.116	
10	24.0	6	0.10	0.08	0.09	0.07	0.09	0.11	0.111	
11	24.0	6	0.11	0.10	0.12	0.09	0.11	0.21	0.208	
12	24.0	6	0.16	0.09	0.09	0.06	0.08	0.15	0.156	
13	24.0	6	0.14	0.10	0.09	0.07	0.09	0.24	0.238	
14	22.5	6	0.14	0.08	0.08	0.06	0.08	0.13	0.140	
15	24.0	6	0.14	0.11	0.10	0.06	0.08	0.13	0.136	
16	24.0	6	0.12	0.09	0.08	0.06	0.09	0.16	0.156	
17	24.0	6	0.14	0.08	0.06	0.05	0.06	0.10	0.136	
18	24.0	6	0.09	0.08	0.07	0.06	0.07	0.12	0.122	
19	24.0	6	0.12	0.10	0.09	0.07	0.12	0.17	0.172	
20	24.0	6	0.11	0.08	0.08	0.06	0.08	0.12	0.116	
21	24.0	6	0.13	0.18	0.11	0.09	0.12	0.22	0.224	
22	24.0	6	0.15	0.10	0.10	0.07	0.08	0.17	0.171	
23	24.0	6	0.17	0.12	0.11	0.09	0.11	0.27	0.272	
24	24.0	6	0.15	0.10	0.09	0.08	0.10	0.15	0.154	
25	24.0	6	0.15	0.12	0.12	0.08	0.11	0.19	0.188	
26	24.0	6	0.17	0.10	0.11	0.07	0.10	0.13	0.170	
27	24.0	6	0.14	0.15	0.16	0.09	0.11	0.21	0.210	
28	24.0	6	0.16	0.11	0.11	0.08	0.08	0.18	0.182	
29	24.0	6	0.14	0.08	0.09	0.08	0.11	0.16	0.161	
30	24.0	6	0.13	0.08	0.08	0.06	0.07	0.11	0.127	
31	24.0	6	0.12	0.10	0.10	0.08	0.08	0.15	0.148	
<b>Total</b>	<b>742.5</b>	<b>186</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>186</b>	<b>0.283</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 102 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Eric T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

09/08/15  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

08/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>54,691,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,764,226</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,860,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N) _____	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Number of hours of plant operation _____	<u>742.5</u>
Were samples taken every 4 hours of plant operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of samples taken _____	<u>186</u>
Highest single turbidity reading _____	<u>0.28</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU _____	<u>102</u>
Number of samples exceeded 0.3 NTU _____	<u>0</u>
Number of samples exceeded 1 NTU _____	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU _____	
Number of samples exceeded 5 NTU _____	

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded _____	<u>31</u>
Lowest single chlorine reading _____	<u>1.40</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L _____	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L _____	

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorine dioxide reading _____	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	<u>0</u>

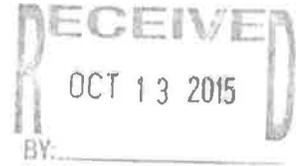
CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorite reading _____	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L _____	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

09/08/15  
Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) **09/2015**

Indicate one with "X"  
 SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	10/08/2015	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Timothy D Reed / Elbert Osborne	1V-A / 11-A	24590 / 27800	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- 1. DESIGN CAPACITY (gpm): 1,667
- 2. TYPE OF FILTRATION USED: Dual Media
- 3. DESIGN FILTRATION RATE (gpm/eq. ft.): 2.66
- 4. PERCENT BACKWASH WATER USED: 1.3
- 5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- 6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

10/08/2015  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 09/2015

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,703,000	22.5	145.4	10.2	3.9	0.3			835.7	58.8	191.9	13.5
2	1,809,000	24.0	155.0	10.3	4.2	0.3			870.0	57.7	213.1	14.1
3	1,754,000	24.0	155.0	10.8	4.2	0.3			899.4	61.5	215.4	14.7
4	1,853,000	24.0	155.0	10.0	4.2	0.3			880.1	56.9	191.9	12.4
5	1,860,000	24.0	155.0	10.0	4.2	0.3			861.1	55.5	183.2	11.8
6	1,861,000	24.0	155.0	10.0	4.2	0.3			851.0	54.8	183.1	11.8
7	1,801,000	24.0	155.0	10.3	4.2	0.3			866.1	57.7	201.9	13.4
8	1,868,000	24.0	155.0	9.9	4.2	0.3			888.0	57.0	191.9	12.3
9	1,710,000	23.0	148.6	10.4	4.0	0.3			845.6	59.3	174.2	12.2
10	1,887,000	24.0	155.0	10.0	4.2	0.3			818.8	52.6	186.6	12.0
11	1,823,000	24.0	155.0	10.2	4.2	0.3			869.2	57.2	201.9	13.3
12	1,864,000	24.0	155.0	10.0	4.2	0.3			842.2	54.2	183.2	11.8
13	1,809,000	24.0	155.0	10.3	4.2	0.3			814.2	54.0	183.1	12.1
14	1,856,000	24.0	155.0	10.0	4.2	0.3			831.7	53.7	182.5	11.8
15	1,807,000	24.0	155.0	10.3	4.2	0.3			812.8	53.9	166.2	11.0
16	1,843,000	24.0	155.0	10.1	4.2	0.3			773.8	50.3	166.2	10.8
17	1,790,000	24.0	155.0	10.4	4.2	0.3			768.8	51.5	165.7	11.1
18	1,832,000	24.0	155.0	10.1	4.2	0.3			692.0	45.3	165.1	10.8
19	1,777,000	24.0	165.0	10.5	4.2	0.3			722.6	48.8	158.4	10.7
20	1,778,000	24.0	155.0	10.5	4.2	0.3			722.6	48.7	157.6	10.8
21	1,850,000	24.0	155.0	11.3	4.2	0.3			676.2	49.1	159.8	11.6
22	1,335,000	24.0	155.0	13.9	4.2	0.4			520.0	46.7	118.1	10.4
23	1,595,000	24.0	155.0	11.7	4.2	0.3			702.0	52.8	155.8	11.7
24	1,735,000	24.0	155.0	10.7	4.2	0.3			899.6	48.3	149.3	10.3
25	1,843,000	24.0	155.0	10.1	4.2	0.3			650.4	42.3	159.1	10.4
26	1,812,000	24.0	155.0	10.3	4.2	0.3			658.2	43.8	165.2	10.9
27	1,840,000	24.0	155.0	10.1	4.2	0.3			652.2	42.5	159.8	10.4
28	1,845,000	24.0	155.0	10.1	4.2	0.3			682.8	44.4	160.6	10.4
29	1,643,000	22.0	142.1	10.4	3.9	0.3			507.8	37.1	90.0	8.8
30	1,802,000	22.5	145.4	9.7	3.9	0.3			486.4	32.4	126.7	8.4
31												
TOTAL	53,365,000		4811.5		124.9		0.0		22701.1		5105.5	
AVERAGE	1,778,833		153.7	10.4	4.2	0.3	#DIV/0!	#DIV/0!	758.7	51.0	170.2	11.5
MAX	1,868,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 09/2016

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
1	1027.6	72.4	57.2	4.0	208.4	14.7			23.9	1.7				
2	1083.1	71.8	60.9	4.0	222.1	14.7			25.4	1.7				
3	1114.8	78.2	60.9	4.2	222.1	15.2			25.4	1.7				
4	1072.0	69.4	60.9	3.9	148.2	9.6			25.4	1.6				
5	1044.3	67.3	60.9	3.9	148.2	9.6			25.4	1.6				
6	1034.1	66.6	60.9	3.9					25.4	1.6				
7	1066.0	71.1	60.9	4.1					25.4	1.7				
8	1079.9	69.3	60.9	3.9					25.4	1.6				
9	1019.8	71.5	58.4	4.1					24.4	1.7				
10	1005.4	64.6	60.9	3.9					25.4	1.6				
11	1071.0	70.4	60.9	4.0					25.4	1.7				
12	1025.4	66.0	60.9	3.9					25.4	1.6				
13	997.3	66.1	60.9	4.0					25.4	1.7				
14	1014.2	65.5	60.9	3.9					25.4	1.6				
15	979.0	65.0	60.9	4.0	27.4	1.8			25.4	1.7				
16	940.0	61.2	60.9	4.0	120.6	7.8			25.4	1.7				
17	934.3	62.6	60.9	4.1	120.6	8.1			25.4	1.7				
18	857.1	56.1	60.9	4.0	120.6	7.9			25.4	1.7				
19	881.0	59.4	60.9	4.1	120.6	8.1			25.4	1.7				
20	880.2	59.4	60.9	4.1	120.6	8.1			25.4	1.7				
21	836.0	60.8	60.9	4.4	120.6	8.8			25.4	1.8				
22	836.1	57.1	60.9	5.5	120.6	10.8			25.4	2.3				
23	857.8	64.5	60.9	4.6	120.6	9.1			25.4	1.9				
24	846.9	58.7	60.9	4.2	120.6	8.3			25.4	1.6				
25	809.5	52.7	60.9	4.0					25.4	1.7				
26	823.4	54.5	60.9	4.0					25.4	1.7				
27	812.0	52.9	60.9	4.0					25.4	1.7				
28	843.4	54.8	60.9	4.0					25.4	1.7				
29	597.8	43.6	55.9	4.1					23.3	1.7				
30	613.1	40.8	57.2	3.8					23.9	1.6				
31														
TOTAL	27,806.5		1,812.1		2,061.8		0.0		755.9		0.0		0.0	
AVERAGE	926.9	62.4	60.4	4.1	137.5	9.5	#DIV/0!	#DIV/0!	25.2	1.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 09/2015

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DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
							TOTAL	FREE	TOTAL	FREE					
1	8.30	8.12	8.00	165	160	250	245	0.78	0.66	1.92	1.77	0.93	0.25	0.09	
2	8.32	8.11	7.99	165	162	272	265	0.81	0.71	1.93	1.83	1.62	0.34	0.09	
3	8.32	8.11	7.99	162	160	270	266	0.83	0.63	1.93	1.79	0.92	0.31	0.10	
4	8.34	8.14	8.02	165	160	275	270	1.01	0.88	1.87	1.76	0.86	0.39	0.11	
5	8.37	8.19	8.06	175	172	275	272	0.94	0.79	1.97	1.83	0.77	0.28	0.08	
6	8.34	8.18	8.04	171	170	278	282	0.91	0.76	1.88	1.76	0.86	0.37	0.08	
7	8.33	8.20	8.08	170	168	283	280	0.99	0.84	2.02	1.88	0.79	0.37	0.10	
8	8.34	8.19	8.06	188	185	282	285	1.21	1.05	1.96	1.84	0.79	0.32	0.08	
9	8.32	8.17	8.05	178	175	285	290	1.26	1.09	1.95	1.85	0.88	0.37	0.10	
10	8.28	8.02	7.96	180	182	280	283	0.93	0.77	1.92	1.81	1.90	0.24	0.09	
11	7.57	7.62	7.59	163	165	238	234	0.95	0.83	2.00	1.88	2.53	0.35	0.09	
12	7.62	7.70	7.61	170	175	240	250	1.20	1.08	1.99	1.86	3.70	0.44	0.09	
13	7.72	7.79	7.71	168	162	249	254	1.16	1.00	2.05	1.90	4.14	0.36	0.09	
14	7.90	7.94	7.84	180	176	280	275	1.10	0.96	1.95	1.81	3.34	0.26	0.09	
15	7.99	7.98	7.89	175	170	285	282	1.10	0.97	2.01	1.91	2.67	0.24	0.10	
16	7.96	7.98	7.86	185	180	285	282	1.12	0.95	2.07	1.96	2.13	0.22	0.07	
17	7.91	7.92	7.85	170	173	285	280	1.15	0.98	2.00	1.85	2.27	0.25	0.06	
18	7.91	7.92	7.84	185	183	285	282	0.98	0.81	1.95	1.84	1.96	0.21	0.07	
19	7.90	7.94	7.84	185	180	275	277	0.88	0.73	1.90	1.76	1.66	0.18	0.06	
20	7.90	7.94	7.84	173	172	279	286	0.85	0.71	1.89	1.75	1.89	0.18	0.06	
21	7.90	7.95	7.88	180	176	288	285	0.84	0.69	1.87	1.74	1.45	0.18	0.07	
22	8.04	8.00	7.89	185	183	283	285	0.91	0.79	1.98	1.87	1.74	0.14	0.06	
23	8.02	7.98	7.91	185	182	293	288	1.01	0.88	1.92	1.85	1.45	0.22	0.05	
24	8.02	8.01	7.91	185	182	285	281	1.10	0.94	1.97	1.86	1.26	0.19	0.06	
25	8.02	8.05	7.95	185	183	285	287	1.04	0.91	1.91	1.80	1.30	0.21	0.05	
26	8.07	8.07	7.98	200	205	297	280	1.10	0.98	1.90	1.80	1.70	0.18	0.05	
27	8.10	8.11	8.01	187	186	291	302	1.07	0.94	1.85	1.76	1.34	0.16	0.05	
28	8.09	8.07	7.99	189	186	300	302	1.13	0.97	1.92	1.84	1.29	0.21	0.05	
29	8.09	8.07	7.98	200	205	300	298	1.26	1.16	1.95	1.83	1.19	0.17	0.06	
30	8.02	8.07	7.99	190	188	297	292	1.14	1.00	1.95	1.83	1.17	0.18	0.06	
31															
AVERAGE	8.1	8.0	7.9	179	177	279	278	1.03	0.88	1.95	1.83	1.68	0.26	0.08	

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 09/2015

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	0.93		0.14	0.59						0.06	0.06	0.21	0.05		0.11
2	1.62		0.40	0.78						0.06	0.07	0.20	0.05		0.14
3	0.92		0.28	0.86						0.06	0.07	0.25	0.07		0.16
4	0.86		0.30	1.40						0.07	0.08	0.33	0.11		0.15
5	0.77		0.21	0.54						0.07	0.07	0.15	0.07		0.10
6	0.86		0.49	1.44						0.06	0.07	0.17	0.06		0.14
7	0.79		0.32	0.86						0.06	0.07	0.44	0.09		0.16
8	0.79		0.70	0.54						0.07	0.07	0.19	0.09		0.13
9	0.88		0.30	0.88						0.09	0.10	0.31	0.06		0.21
10	1.90		0.17	0.46						0.07	0.08	0.26	0.07		0.13
11	2.53		0.17	0.97						0.06	0.06	0.22	0.08		0.13
12	3.70		0.16	0.96						0.05	0.05	0.20	0.05		0.14
13	4.14		0.19	0.93						0.05	0.05	0.15	0.06		0.12
14	3.34		0.21	0.55						0.07	0.08	0.18	0.06		0.12
15	2.67		0.19	0.47						0.06	0.06	0.18	0.06		0.12
16	2.13		0.17	0.55						0.06	0.06	0.10	0.04		0.08
17	2.27		0.23	0.56						0.06	0.06	0.10	0.04		0.07
18	1.96		0.19	0.51						0.07	0.07	0.11	0.04		0.09
19	1.66		0.16	0.43						0.06	0.06	0.10	0.06		0.08
20	1.89		0.21	0.41						0.06	0.06	0.07	0.05		0.07
21	1.45		0.18	0.53						0.06	0.07	0.12	0.05		0.09
22	1.74		0.15	0.24						0.06	0.06		0.08		0.06
23	1.45		0.23	0.62						0.05	0.41		0.04		0.05
24	1.26		0.14	0.40						0.05	0.06	0.05	0.03		0.12
25	1.30		0.14	0.38						0.06	0.06	0.05	0.03		0.06
26	1.70		0.13	0.37						0.06	0.06	0.08	0.05		0.06
27	1.34		0.15	0.30						0.05	0.05	0.05	0.04		0.06
28	1.29		0.16	0.46						0.05	0.05	0.05	0.03		0.06
29	1.19		0.17	0.32						0.06	0.06	0.05	0.03		0.06
30	1.17		0.14	0.31						0.05	0.05	0.19	0.08		0.08
31															
AVERAGE	1.7	#DIV/0!	0.2	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.08	0.16	0.06	#DIV/0!	0.11

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 09/2015

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.33	0.99	0.04	0.01	0.06	0.01			1.65	0.0	26.1
2	0.44	0.99	0.09	0.02	0.11	0.00			1.70	0.0	26.0
3	0.32	1.06	0.01	0.01	0.05	0.01			1.60	0.0	26.7
4	0.41	1.11	0.04	0.01	0.04	0.00			1.60	0.0	26.8
5	0.47	1.04	0.05	0.03	0.10	0.00			1.75	0.0	27.0
6	0.58	1.17	0.05	0.03	0.02	0.01			1.75	0.0	27.1
7	0.47	1.08	0.02	0.01	0.02	0.00			1.70	0.0	27.2
8	0.52	1.11	0.05	0.01	0.01	0.00			1.70	0.0	27.4
9	0.42	0.98	0.05	0.01	0.12	0.00			1.65	0.0	27.4
10	0.51	1.09	0.11	0.00	0.11	0.00			1.65	1.5	27.0
11	0.39	0.94	0.07	0.05	0.72	0.01			1.76	0.2	23.4
12	0.30	0.91	0.04	0.00	0.32	0.01			1.80	0.1	23.7
13	0.49	1.06	0.08	0.01	0.27	0.01			1.70	0.4	23.9
14	0.34	1.07	0.07	0.00	0.19	0.01			1.65	0.0	23.9
15	0.48	1.02	0.13	0.00	0.14	0.02			1.70	0.0	23.5
16	0.41	1.03	0.07	0.00	0.16	0.01			1.70	0.0	23.3
17	0.39	1.02	0.05	0.00	0.17	0.02			1.65	0.0	23.4
18	0.41	1.12	0.07	0.00	0.14	0.01			1.65	0.0	23.4
19	0.41	1.10	0.05	0.00	0.12	0.01			1.60	0.0	23.5
20	0.46	1.14	0.08	0.00	0.12	0.01			1.70	0.2	23.4
21	0.34	1.09	0.04	0.00	0.10	0.02			1.60	0.0	23.6
22	0.38	0.84	0.05	0.01	0.11	0.01			1.60	0.0	23.4
23	0.47	1.01	0.05	0.00	0.10	0.00			1.75	0.0	23.2
24	0.48	1.10	0.02	0.02	0.10	0.01			1.65	0.0	23.2
25	0.47	1.02	0.03	0.00	0.09	0.03			1.62	0.0	23.2
26	0.45	0.89	0.06	0.00	0.06	0.01			1.65	0.0	23.1
27	0.62	0.99	0.07	0.01	0.08	0.00			1.65	0.2	22.6
28	0.44	0.94	0.06	0.01	0.07	0.01			1.65	0.1	22.7
29	0.41	1.05	0.13	0.03	0.09	0.00			1.75	0.0	22.6
30	0.49	1.04	0.04	0.00	0.18	0.03			1.85	0.8	22.7
31											
AVERAGE	0.44	1.03	0.06	0.01	0.13	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	24.5

	1.60	
Number of readings	30	3.64
For Free Chlorine, # less than 0.2 mg/L	0	
For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID : A  
 REPORT MONTH/YEAR: 09/2015

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DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No: 7	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HRB	WASHWATER GALLONS	FILT RUN HRB	WASHWATER GALLONS	FILT RUN HRB	WASHWATER GALLONS	FILT RUN HRB	WASHWATER GALLONS	FILT RUN HRB	
1	0										
2	34,000					17,000	47.40	17,000	48.00		
3	35,000	17,000	148.00	18,000	145.20						
4	39,000					20,000	43.70	19,000	44.50		
5	0										
6	0										
7	36,000					18,000	71.30	18,000	71.50		
8	0										
9	70,000	17,000	124.70	17,000	123.90	18,000	51.20	18,000	51.40		
10	0										
11	37,000					19,000	43.50	18,000	43.40		
12	0										
13	34,000	17,000	115.50	17,000	114.20						
14	0										
15	40,000					19,000	95.20	21,000	95.90		
16	0										
17	34,000	17,000	95.20	17,000	94.60						
18	0										
19	38,000					19,000	79.60	19,000	79.70		
20	34,000	17,000	71.60	17,000	71.00						
21	29,000					12,000	46.80	17,000	46.90		
22	34,000							34,000	30.40		
23											
24	62,000	17,000	96.20	18,000	95.50	27,000	13.40				
25	0										
26	37,000					19,000	61.20	18,000	93.90		
27	0										
28	0										
29	34,000	17,000	99.90	17,000	99.20						
30	42,000					22,000	93.60	18,000	93.60		
31	0										
TOTAL	669,000	119,000	751.10	121,000	743.60	210,000	646.90	217,000	699.20	0	0.00
AVERAGE	22,300	17,000	107.300	17,286	106.229	19,091	58.809	19,727	63.564	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 09/2013

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DAY	DISTRIBUTION SYSTEM OPERATION											
	CHEMICALS ADDED			TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
				NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F		
1				1.22	1.12	1.19	1.10	0.82	0.77	1.34	1.21	
2				1.06	0.95	0.86	0.78	1.48	1.41	1.38	1.34	
3				1.40	1.23	0.94	0.86	1.22	1.14	1.14	1.27	
4				1.29	1.24	0.91	0.82	1.15	1.06	1.37	1.28	
5				1.25	1.10	0.97	0.84	1.35	1.19	1.25	1.12	
6				1.48	1.28	1.27	1.16	1.34	1.16	1.15	0.95	
7				1.27	1.14	1.08	0.93	1.02	0.94	1.14	0.99	
8				1.00	0.88	1.04	0.98	0.90	0.89	1.40	1.33	
9				1.21	1.13	1.05	0.88	1.44	1.36	1.34	1.30	
10				1.17	1.06	1.17	1.06	0.95	0.90	1.35	1.30	
11				0.95	0.86	1.07	0.99	0.60	0.45	1.57	1.50	
12				1.12	1.04	0.88	0.80	1.09	0.95	1.29	1.20	
13				0.99	0.88	1.01	0.97	1.30	1.14	1.34	1.18	
14				1.16	1.08	0.49	0.43	1.18	1.10	1.34	1.10	
15				1.22	1.09	0.54	0.46	1.15	1.07	1.45	1.36	
16				1.30	1.09	1.04	0.98	0.54	0.46	1.52	1.37	
17				1.22	1.11	1.05	0.99	1.33	1.22	1.38	1.35	
18				1.43	1.34	1.58	1.52	1.11	1.01	1.01	0.96	
19				1.15	1.04	0.86	0.50	1.22	1.10	1.43	1.25	
20				1.18	1.00	0.39	0.28	1.11	0.85	1.74	1.54	
21				1.29	1.23	1.42	1.33	1.34	1.26	1.46	1.36	
22				1.31	1.20	1.13	1.07	1.36	1.30	1.03	0.92	
23				1.29	1.20	1.22	1.14	1.50	1.49	0.87	0.76	
24				0.81	0.75	0.96	0.88	1.19	1.12	0.70	0.64	
25				1.19	1.08	1.36	1.25	1.36	1.31	1.05	0.97	
26				1.09	1.03	0.99	0.93	0.88	0.83	1.55	1.49	
27				1.40	1.23	1.37	1.25	1.25	1.12	1.44	1.28	
28				1.14	1.06	0.31	0.22	1.23	1.19	1.30	1.20	
29				1.22	1.13	0.89	0.80	1.00	0.89	1.24	1.19	
30				1.34	1.26	1.19	1.12	1.59	1.34	0.93	0.85	
31												
AVERAGE	#DIV/0!	#DIV/0!	Average	1.21	1.09	0.99	0.90	1.17	1.08	1.28	1.19	
TOTAL	0.0	0.0	Total Minimum	0.81			0.31	0.54		0.70		
			Free Minimum		0.75		0.22		0.45		0.64	

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L	0	0	3	0	0	0	0	0	0
Number of Free Residuals	120	Minimum Monthly Free Residual	0.22						
Number of Total Residuals	120	Minimum Monthly Total Residual	0.31						
Total # Less than 0.2 mg/L	0								
Total # Less than 0.5 mg/L									
		Disinfectant Chloramines? (Y/N)	N						
		Number of days of operation?	30						

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 09/2015

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	22.5	6	0.11	0.09	0.08	0.06	0.07	0.08	0.108	
2	24.0	6	0.09	0.11	0.11	0.07	0.08	0.14	0.142	
3	24.0	6	0.14	0.10	0.09	0.07	0.11	0.16	0.161	
4	24.0	6	0.13	0.12	0.14	0.08	0.10	0.15	0.152	
5	24.0	6	0.10	0.09	0.08	0.06	0.07	0.10	0.104	
6	24.0	6	0.11	0.10	0.09	0.07	0.07	0.14	0.141	
7	24.0	6	0.12	0.10	0.10	0.07	0.08	0.16	0.157	
8	24.0	6	0.11	0.09	0.09	0.07	0.07	0.13	0.126	
9	23.0	6	0.12	0.12	0.10	0.08	0.10	0.21	0.214	
10	24.0	6	0.13	0.10	0.10	0.08	0.08	0.08	0.127	
11	24.0	6	0.11	0.12	0.13	0.08	0.08	0.10	0.130	
12	24.0	6	0.11	0.11	0.14	0.10	0.09	0.11	0.137	
13	24.0	6	0.12	0.10	0.11	0.10	0.09	0.10	0.115	
14	24.0	6	0.12	0.12	0.12	0.08	0.07	0.08	0.123	
15	24.0	6	0.10	0.11	0.12	0.08	0.07	0.10	0.116	
16	24.0	6	0.08	0.08	0.08	0.06	0.06	0.07	0.080	
17	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.074	
18	24.0	6	0.08	0.08	0.09	0.06	0.06	0.07	0.085	
19	24.0	6	0.08	0.08	0.07	0.06	0.06	0.06	0.080	
20	24.0	6	0.07	0.07	0.07	0.06	0.05	0.06	0.069	
21	24.0	6	0.08	0.09	0.08	0.06	0.05	0.06	0.085	
22	24.0	6	0.06	0.06	0.05	0.05	0.05	0.06	0.063	
23	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.053	
24	24.0	6	0.05	0.12	0.05	0.05	0.05	0.05	0.123	
25	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.057	
26	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.060	
27	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.056	
28	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.055	
29	22.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.057	
30	22.5	6	0.05	0.05	0.05	0.05	0.05	0.08	0.078	
31	0.0	0							0.000	
<b>Total</b>	<b>714.0</b>	<b>180</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>180</b>	<b>0.214</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 46 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Adley  
 Signature of Principal Executive Officer or Authorized Agent

10/08/2015  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

09/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>53,365,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,778,833</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,868,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Number of hours of plant operation	<u>714.0</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>180</u>
Highest single turbidity reading	<u>0.21</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU	<u>46</u>
Number of samples exceeded 0.3 NTU	<u>0</u>
Number of samples exceeded 1 NTU	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU	<u>    </u>
Number of samples exceeded 5 NTU	<u>    </u>

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0999</u>
Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded	<u>30</u>
Lowest single chlorine reading	<u>1.60</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L	<u>    </u>

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>
Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>30</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorite reading	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

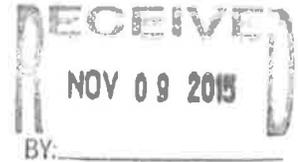
Earl T. Alley

Signature of Principal Executive Officer or Authorized Agent

10/08/2015

Date





KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 10/2015

Indicate one with "X"  
 SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2008

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>11/06/15</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Timothy D Reed / Elbert Osborne</u>	<u>1V-A / 11-A</u>	<u>24590 / 27800</u>	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 1.1
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

11/06/15  
DATE

12



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 10/2016  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,849,000	24.0	155.0	10.1	4.2	0.3			522.6	33.9	129.4	8.4
2	1,721,000	23.0	148.6	10.4	4.0	0.3			521.2	38.3	134.4	9.4
3	1,846,000	24.0	155.0	10.1	4.2	0.3			492.2	32.0	129.4	8.4
4	1,792,000	24.0	155.0	10.4	4.2	0.3			531.2	35.5	129.4	8.7
5	1,830,000	24.0	155.0	10.2	4.2	0.3			553.8	36.3	152.7	10.0
6	1,754,000	23.0	148.6	10.2	4.0	0.3			515.6	35.2	153.2	10.5
7	1,839,000	24.0	155.0	10.1	4.2	0.3			542.4	35.4	140.6	9.2
8	1,838,000	24.0	155.0	10.1	4.2	0.3			516.6	33.7	152.7	10.0
9	1,799,000	24.0	155.0	10.3	4.2	0.3			511.8	34.1	141.9	9.5
10	1,798,000	24.0	155.0	10.3	4.2	0.3			444.5	29.6	147.6	9.8
11	1,847,000	24.0	155.0	10.1	4.2	0.3			513.3	33.3	147.6	9.6
12	1,725,000	23.0	148.6	10.3	4.0	0.3			471.9	32.8	153.4	10.7
13	1,813,000	24.0	155.0	10.3	4.2	0.3			484.6	32.0	164.2	10.9
14	1,837,000	24.0	155.0	10.1	4.2	0.3			484.6	31.6	159.8	10.4
15	1,822,000	24.0	155.0	10.2	4.2	0.3			484.6	31.9	159.8	10.5
16	1,766,000	23.0	148.6	10.1	4.0	0.3			440.4	29.9	153.2	10.4
17	1,841,000	24.0	155.0	10.1	4.2	0.3			456.4	29.7	159.8	10.4
18	1,778,000	24.0	155.0	10.5	4.2	0.3			456.4	30.8	164.2	11.1
19	1,741,000	23.0	148.6	10.2	4.0	0.3			431.8	29.7	157.0	10.8
20	1,799,000	24.0	155.0	10.3	4.2	0.3			420.6	28.0	146.5	9.8
21	1,799,000	24.0	155.0	10.3	4.2	0.3			376.4	25.1	150.9	10.1
22	1,756,000	24.0	155.0	10.6	4.2	0.3			380.0	24.6	159.8	10.9
23	1,755,000	24.0	155.0	10.8	4.2	0.3			380.0	24.6	162.8	11.1
24	1,807,000	24.0	155.0	10.3	4.2	0.3			335.8	22.3	159.8	10.6
25	1,770,000	24.0	155.0	10.5	4.2	0.3			326.4	22.1	159.8	10.8
26	1,812,000	24.0	155.0	10.3	4.2	0.3			338.6	22.4	166.8	11.0
27	1,745,000	23.5	155.0	10.7	4.2	0.3			405.0	27.8	159.8	11.0
28	1,677,000	23.0	142.1	10.2	3.9	0.3			370.2	26.5	159.8	11.4
29	1,775,000	24.0	155.0	10.5	4.2	0.3			404.8	27.3	162.8	11.0
30	1,782,000	24.0	155.0	10.4	4.2	0.3			412.9	27.8	183.2	12.3
31	1,786,000	24.0	155.0	10.4	4.2	0.3			435.6	29.2	179.5	12.1
TOTAL	55,499,000		4760.1		128.9		0.0		13922.2		4781.8	
AVERAGE	1,790,290		153.6	10.3	4.2	0.3	#DIV/0!	#DIV/0!	449.1	30.1	154.3	10.3
MAX	1,849,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 10/2016

PAGE 2 OF 11

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
1	652.0	42.3	60.9	3.9					25.4	1.6				
2	655.8	45.7	58.4	4.1					24.4	1.7				
3	621.6	40.4	60.9	4.0					25.4	1.6				
4	680.8	44.2	60.9	4.1					25.4	1.7				
5	706.5	46.3	60.9	4.0					25.4	1.7				
6	688.8	45.7	58.4	4.0					24.4	1.7				
7	683.0	44.5	60.9	4.0					25.4	1.7				
8	669.3	43.7	60.9	4.0					25.4	1.7				
9	653.7	43.6	60.9	4.1					25.4	1.7				
10	592.1	39.5	60.9	4.1					25.4	1.7				
11	660.9	42.9	60.9	4.0					25.4	1.6				
12	625.3	43.5	58.4	4.1					24.4	1.7				
13	648.8	42.9	60.9	4.0					25.4	1.7				
14	644.4	42.1	60.9	4.0					25.4	1.7				
15	644.4	42.4	60.9	4.0					25.4	1.7				
16	593.8	40.3	58.4	4.0					24.4	1.7				
17	616.2	40.1	60.9	4.0					25.4	1.7				
18	620.8	41.9	60.9	4.1					25.4	1.7				
19	588.8	40.6	58.4	4.0					24.4	1.7				
20	567.1	37.8	60.9	4.1					25.4	1.7				
21	527.3	35.1	60.9	4.1					25.4	1.7				
22	519.8	35.5	60.9	4.2					25.4	1.7				
23	522.8	35.7	60.9	4.2	80.3	5.5			25.4	1.7				
24	495.6	32.9	60.9	4.0	80.3	5.3			25.4	1.7				
25	486.2	32.9	60.9	4.1	120.6	8.2			25.4	1.7				
26	505.4	33.4	60.9	4.0	120.6	8.0			25.4	1.7				
27	564.8	38.8	59.7	4.1	118.0	8.1			24.9	1.7				
28	530.0	37.9	55.9	4.0	110.4	7.9			23.3	1.7				
29	567.6	38.3	60.9	4.1	120.6	8.1			25.4	1.7				
30	586.1	40.1	60.9	4.1	120.6	8.1			25.4	1.7				
31	615.1	41.3	60.9	4.1	120.6	8.1			25.4	1.7				
TOTAL	18,704.0		1,869.2		992.0		0.0		779.8		0.0		0.0	
AVERAGE	603.4	40.4	60.3	4.0	110.2	7.5	#DIV/0!	#DIV/0!	25.2	1.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 10/2015

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
		TOTAL						FREE	TOTAL	FREE				
1	8.02	8.06	7.98	197	195	303	299	1.08	0.94	1.89	1.82	1.18	0.24	0.06
2	8.07	8.07	7.98	200	198	296	294	0.99	0.87	1.79	1.71	1.15	0.24	0.06
3	8.08	8.09	8.01	195	190	293	290	0.91	0.80	1.85	1.74	2.37	0.21	0.06
4	8.07	8.06	7.98	181	178	295	291	0.93	0.83	1.83	1.73	2.25	0.18	0.05
5	8.05	8.06	7.96	193	190	295	292	1.01	0.91	1.93	1.82	2.11	0.21	0.06
6	8.08	8.04	7.95	188	185	295	290	1.03	0.91	1.94	1.83	2.02	0.20	0.06
7	8.05	8.07	7.96	198	195	295	292	1.00	0.88	1.85	1.78	1.80	0.25	0.06
8	8.05	8.07	7.97	190	188	295	290	1.04	0.91	1.88	1.75	1.64	0.37	0.06
9	8.02	8.06	7.96	195	192	295	293	0.98	0.86	1.93	1.81	1.60	0.27	0.06
10	8.01	8.03	7.95	195	190	297	290	0.90	0.76	1.86	1.75	1.36	0.27	0.05
11	8.03	8.04	7.95	185	188	310	317	0.97	0.84	1.89	1.75	1.35	0.33	0.05
12	8.02	8.05	7.97	188	185	291	289	0.92	0.77	1.91	1.78	1.64	0.38	0.05
13	8.05	8.06	7.96	193	190	290	295	0.88	0.74	1.91	1.84	1.20	0.27	0.06
14	8.03	8.06	7.98	195	190	297	291	0.79	0.66	1.95	1.83	1.29	0.29	0.06
15	8.07	8.11	8.00	190	188	290	285	0.87	0.75	1.94	1.85	0.78	0.49	0.05
16	8.06	8.07	7.99	190	185	290	288	0.89	0.75	1.96	1.85	0.64	0.65	0.07
17	8.05	8.07	7.99	190	200	294	280	0.91	0.76	2.02	1.87	0.66	0.60	0.06
18	8.06	8.08	8.00	185	197	294	290	0.76	0.59	1.91	1.79	1.01	0.53	0.08
19	8.08	8.12	8.02	190	188	295	290	0.80	0.64	2.00	1.89	0.90	0.63	0.11
20	8.09	8.15	8.05	198	196	295	302	1.05	0.91	1.98	1.82	1.04	0.66	0.10
21	8.08	8.14	8.05	190	188	298	290	0.96	0.82	1.98	1.85	1.05	0.48	0.08
22	8.09	8.15	8.04	190	188	295	293	0.93	0.76	1.89	1.77	1.05	0.53	0.11
23	8.09	8.13	8.03	190	193	290	288	0.78	0.61	1.98	1.82	1.03	0.48	0.14
24	8.11	8.14	8.05	195	190	297	300	0.70	0.55	1.86	1.73	0.94	0.38	0.10
25	8.11	8.16	8.05	188	186	301	300	0.82	0.44	1.80	1.68	0.86	0.29	0.09
26	8.12	8.17	8.08	190	188	307	304	0.64	0.49	1.96	1.83	0.99	0.36	0.10
27	8.10	8.15	8.09	195	193	301	296	0.78	0.64	1.92	1.79	0.92	0.40	0.10
28	8.09	8.15	8.07	195	190	300	297	0.81	0.68	1.87	1.72	0.94	0.37	0.13
29	8.08	8.14	8.07	198	192	298	296	0.68	0.55	1.84	1.72	1.06	0.46	0.13
30	8.10	8.16	8.09	195	192	300	296	0.72	0.56	1.96	1.81	1.06	0.48	0.12
31	8.12	8.18	8.10	185	200	288	290	0.76	0.62	1.81	1.70	0.90	0.55	0.09
AVERAGE	8.1	8.1	8.0	192	191	296	293	0.87	0.74	1.91	1.79	1.25	0.39	0.08

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 10/2015

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	1.18		0.16	0.72						0.05	0.04	0.05	0.03		0.05
2	1.15		0.23	0.39						0.05	0.05	0.05	0.03		0.05
3	2.37		0.20	0.40						0.06	0.06	0.05	0.03		0.06
4	2.25		0.13	0.42						0.06	0.05	0.05	0.03		0.05
5	2.11		0.17	0.51						0.06	0.05	0.12	0.06		0.07
6	2.02		0.15	0.57						0.07	0.07	0.05	0.03		0.05
7	1.80		0.17	0.65						0.06	0.06	0.05	0.03		0.05
8	1.64		0.15	1.08						0.06	0.05	0.04	0.03		0.05
9	1.60		0.22	0.96						0.06	0.05	0.07	0.04		0.06
10	1.38		0.17	0.72						0.06	0.05	0.05	0.03		0.05
11	1.35		0.22	0.83						0.05	0.05	0.04	0.03		0.05
12	1.64		0.38	1.14						0.05	0.05	0.05	0.03		0.05
13	1.20		0.15	1.07						0.05	0.05	0.08	0.07		0.06
14	1.29		0.24	0.53						0.05	0.06	0.05	0.03		0.06
15	0.78		0.96	0.93						0.06	0.05	0.05	0.04		0.06
16	0.64		0.16	1.48						0.08	0.05	0.07	0.06		0.08
17	0.66		0.19	1.55						0.06	0.05	0.05	0.04		0.05
18	1.01		0.35	1.92						0.08	0.07	0.06	0.09		0.09
19	0.90		0.26	1.68						0.08	0.07	0.10	0.29		0.14
20	1.04		0.33	1.98						0.10	0.08	0.10	0.21		0.11
21	1.05		0.28	1.16						0.10	0.09	0.08	0.10		0.11
22	1.05		0.29	1.22						0.14	0.12	0.09	0.12		0.14
23	1.03		0.33	1.01						0.15	0.14	0.22	0.21		0.20
24	0.94		0.26	0.86						0.12	0.11	0.15	0.15		0.14
25	0.86		0.25	0.43						0.10	0.10	0.08	0.08		0.10
26	0.99		0.28	0.70						0.14	0.13	0.10	0.07		0.11
27	0.92		0.25	0.96						0.11	0.11	0.12	0.16		0.15
28	0.94		0.23	0.84						0.09	0.09	0.10	0.16		0.19
29	1.08		0.33	1.12						0.08	0.10	0.08	0.10		0.12
30	1.06		0.27	1.17						0.07	0.09	0.06	0.09		0.15
31	0.90		0.31	1.51						0.06	0.08	0.40	0.41		0.18
AVERAGE	1.3	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.08	0.07	0.09	0.09	#DIV/0!	0.09

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 10/2015

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
1	0.46	0.99	0.04	0.01	0.11	0.00			1.75	0.0	22.6
2	0.50	1.05	0.04	0.02	0.04	0.01			1.25	0.1	22.2
3	0.48	1.01	0.06	0.01	0.08	0.01			1.75	0.8	22.3
4	0.39	0.80	0.04	0.00	0.07	0.01			1.60	0.2	20.5
5	0.49	1.08	0.08	0.00	0.07	0.02			1.75	0.0	20.4
6	0.46	0.86	0.07	0.02	0.06	0.01			1.75	0.0	20.4
7	0.46	1.05	0.06	0.01	0.04	0.00			1.80	0.0	20.4
8	0.41	0.95	0.06	0.00	0.05	0.01			1.50	0.0	20.6
9	0.44	0.95	0.05	0.01	0.05	0.02			1.75	0.0	20.8
10	0.43	1.01	0.04	0.00	0.05	0.01			1.60	0.4	20.7
11	0.47	1.11	0.05	0.01	0.05	0.01			1.70	0.0	20.6
12	0.43	0.94	0.07	0.01	0.05	0.03			1.70	0.0	20.4
13	0.44	1.02	0.05	0.03	0.05	0.01			1.75	0.4	20.3
14	0.36	1.09	0.04	0.00	0.04	0.01			1.75	0.0	20.3
15	0.48	0.97	0.03	0.01	0.03	0.01			1.80	0.0	20.4
16	0.37	1.00	0.03	0.00	0.04	0.01			1.76	0.0	20.1
17	0.40	0.92	0.04	0.00	0.05	0.01			1.80	0.0	19.6
18	0.49	1.04	0.06	0.00	0.09	0.01			1.75	0.0	18.7
19	0.46	1.00	0.06	0.00	0.08	0.00			1.85	0.0	18.2
20	0.52	1.06	0.06	0.04	0.05	0.00			1.70	0.0	17.3
21	0.42	1.07	0.06	0.01	0.05	0.01			1.70	0.0	17.1
22	0.41	1.07	0.06	0.01	0.04	0.01			1.80	0.0	17.0
23	0.39	0.91	0.04	0.00	0.03	0.00			1.75	0.0	17.0
24	0.39	0.96	0.07	0.00	0.05	0.03			1.60	0.0	16.7
25	0.54	0.96	0.07	0.03	0.04	0.03			1.60	0.2	16.9
26	0.49	1.06	0.06	0.03	0.04	0.02			1.65	0.1	17.0
27	0.27	0.86	0.14	0.03	0.04	0.02			1.70	0.1	17.1
28	0.44	0.90	0.08	0.00	0.01	0.00			1.65	0.6	17.1
29	0.38	0.84	0.09	0.03	0.00	0.00			1.70	0.1	16.9
30	0.51	0.87	0.09	0.00	0.01	0.00			1.71	0.0	17.0
31	0.44	0.91	0.06	0.00	0.04	0.01			1.70	0.0	16.9
AVERAGE	0.44	0.98	0.06	0.01	0.05	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	19.1
									1.25		
									Number of readings	31	3.17
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 10/2015  
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DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	34,000	17,000	91.30	17,000	87.00						
3	0										
4	39,000					19,000	97.40	20,000	97.40		
5	0										
6	32,000	16,000	91.90	16,000	91.40						
7	0										
8	0										
9	39,000					19,000	98.40	20,000	98.40		
10	36,000	18,000	79.60	18,000	79.60						
11	0										
12	41,000					20,000	90.00	21,000	90.00		
13	34,000	17,000	91.20	17,000	89.50						
14	0										
15	0										
16	42,000	21,000	91.00	21,000	91.00						
17	0										
18	36,000	18,000	100.60	18,000	99.10						
19	43,000					21,000	71.20	22,000	71.20		
20	0										
21	0										
22	36,000	18,000	95.50	18,000	94.00						
23	46,000					23,000	91.20	23,000	91.20		
24	0										
25	28,000	14,000	91.60	14,000	90.90						
26	0										
27	37,000					19,000	98.20	18,000	98.20		
28	0										
29	25,000	13,000	90.90	12,000	89.40						
30	38,000	18,000	78.60	20,000	78.70						
31	0										
TOTAL	586,000	170,000	900.20	171,000	888.60	121,000	546.40	124,000	546.40	0	0.00
AVERAGE	18,903	17,000	90.020	17,100	88.860	20,167	91.067	20,667	91.067	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0600273

PLANT ID : A

REPORT MONTH/YEAR: 10/2016

ALL WATER SYSTEMS

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DAY	CHEMICALS ADDED			TEST RESULTS							
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
				NORTH		SOUTH		EAST		WEST	
				T	F	T	F	T	F	T	F
1				1.40	1.32	1.17	1.08	1.59	1.52	1.50	1.37
2				1.28	1.22	1.01	0.95	1.31	1.27	1.46	1.38
3				1.08	1.01	0.99	0.88	1.35	1.28	1.31	1.22
4				1.34	1.17	1.18	0.98	1.41	1.24	1.37	1.21
5				1.02	0.78	1.32	1.14	1.16	1.03	1.40	1.20
6				1.08	0.94	1.14	1.00	1.42	1.32	0.98	0.82
7				1.23	1.10	1.03	1.02	1.16	1.11	1.30	1.18
8				1.29	1.16	1.26	1.05	1.29	1.10	1.35	1.26
9				0.81	0.69	1.44	1.24	1.45	1.30	1.41	1.31
10				0.61	0.57	1.43	1.25	1.38	1.22	0.68	0.52
11				1.43	1.32	0.97	0.84	1.24	1.11	0.70	0.55
12				1.25	1.16	1.12	1.03	0.86	0.80	1.39	1.25
13				1.55	1.47	1.11	1.07	1.00	0.86	1.48	1.44
14				1.28	1.18	0.93	0.84	1.17	1.08	1.38	1.35
15				1.40	1.26	1.34	1.20	1.16	1.06	1.42	1.27
16				1.36	1.25	1.14	1.00	1.05	0.94	1.37	1.29
17				1.39	1.34	1.18	1.06	1.31	1.28	1.28	1.16
18				1.22	1.13	1.09	0.96	0.95	0.87	1.31	1.18
19				1.40	1.29	1.48	1.38	1.52	1.43	1.31	1.22
20				1.24	1.08	1.03	0.86	1.07	0.98	1.53	1.43
21				1.50	1.30	1.22	1.11	1.53	1.43	1.40	1.29
22				1.07	1.00	1.23	1.19	1.23	1.11	1.36	1.30
23				1.30	1.22	1.14	1.09	1.17	1.08	1.29	1.12
24				1.44	1.24	1.07	0.91	1.52	1.38	1.48	1.33
25				1.18	1.00	0.90	0.75	1.08	0.97	1.43	1.23
26				1.54	1.38	0.41	0.34	1.14	0.92	1.50	1.29
27				1.08	0.91	1.21	1.15	1.40	1.22	0.71	0.61
28				1.37	1.25	1.35	1.31	1.32	1.22	1.42	1.39
29				1.28	1.20	0.95	0.75	1.21	1.13	1.35	1.26
30				1.42	1.34	1.35	1.26	1.04	0.93	1.47	1.32
31				1.00	0.76	0.97	0.80	1.14	1.00	1.34	1.19
AVERAGE	#DIV/0!	#DIV/0!	Average	1.25	1.13	1.13	1.02	1.25	1.13	1.31	1.19
TOTAL	0.0	0.0	Total Minimum	0.61		0.41		0.86		0.68	
			Free Minimum		0.57		0.34		0.80		0.52

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	0	0	1	0	0	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.34
Number of Total Residuals	124	Minimum Monthly Total Residual	0.41
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY):

10/2015

PAGE:  
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PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
2	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
3	24.0	6	0.06	0.05	0.05	0.05	0.05	0.05	0.055	
4	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.050	
5	24.0	6	0.07	0.05	0.05	0.05	0.05	0.05	0.067	
6	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
7	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
8	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.049	
9	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.055	
10	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
11	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
12	23.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
13	24.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.063	
14	24.0	6	0.06	0.05	0.04	0.04	0.04	0.04	0.056	
15	24.0	6	0.04	0.04	0.05	0.05	0.05	0.06	0.061	
16	23.0	6	0.07	0.07	0.08	0.06	0.05	0.05	0.076	
17	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
18	24.0	6	0.06	0.09	0.09	0.06	0.06	0.06	0.091	
19	23.0	6	0.09	0.11	0.14	0.11	0.09	0.10	0.141	
20	24.0	6	0.10	0.10	0.11	0.09	0.09	0.11	0.110	
21	24.0	6	0.09	0.07	0.07	0.07	0.08	0.11	0.113	
22	24.0	6	0.12	0.14	0.12	0.10	0.10	0.13	0.139	
23	24.0	6	0.13	0.15	0.15	0.14	0.18	0.20	0.196	
24	24.0	6	0.14	0.13	0.11	0.10	0.10	0.11	0.142	
25	24.0	6	0.10	0.10	0.10	0.09	0.08	0.10	0.104	
26	24.0	6	0.11	0.11	0.10	0.09	0.09	0.10	0.111	
27	23.5	6	0.10	0.09	0.09	0.09	0.09	0.15	0.150	
28	23.0	6	0.14	0.12	0.12	0.10	0.19	0.12	0.193	
29	24.0	6	0.12	0.12	0.12	0.09	0.08	0.12	0.121	
30	24.0	6	0.13	0.12	0.13	0.11	0.10	0.15	0.151	
31	24.0	6	0.18	0.09	0.08	0.08	0.08	0.08	0.175	
<b>Total</b>	<b>737.5</b>	<b>186</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN -</b>						<b>186</b>	<b>0.196</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 40 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Wiley  
 Signature of Principal Executive Officer or Authorized Agent

11/06/15  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

10/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>55,499,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,790,290</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,849,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N) _____	<input type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Number of hours of plant operation _____	<u>737.5</u>
Were samples taken every 4 hours of plant operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of samples taken _____	<u>186</u>
Highest single turbidity reading _____	<u>0.20</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU _____	<u>40</u>
Number of samples exceeded 0.3 NTU _____	<u>0</u>
Number of samples exceeded 1 NTU _____	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU _____	
Number of samples exceeded 5 NTU _____	

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION	
APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded _____	<u>31</u>
Lowest single chlorine reading _____	<u>1.25</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L _____	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L _____	

CHLORINE DIOXIDE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorine dioxide reading _____	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	<u>0</u>

CHLORITE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorite reading _____	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L _____	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

East T. Alley

Signature of Principal Executive Officer or Authorized Agent

11/06/15

Date



RECEIVED  
 DEC 09 2015  
 BY: \_\_\_\_\_

**KENTUCKY DIVISION OF WATER**  
**DRINKING WATER BRANCH**  
**MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS**

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 11/2015      Indicate one with "X"  SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY  
 DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>12/07/2015</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	<b>OPERATOR(S) RESPONSIBLE / IN-CHARGE</b>	<b>CLASS</b>	<b>CERTIFICATION NUMBER</b>	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Timothy D Reed / Elbert Osborne</u>	<u>1V-A / 11-A</u>	<u>24590 / 27800</u>	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 0.9
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

12/05/2015  
 DATE



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 11/2015

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,809,000	24.0	155.0	10.3	4.2	0.3			421.0	27.9	169.2	11.2
2	1,779,000	24.0	155.0	10.4	4.2	0.3			435.6	29.4	166.4	11.2
3	1,808,000	24.0	155.0	10.3	4.2	0.3			448.7	29.8	163.2	10.8
4	1,762,000	24.0	155.0	10.5	4.2	0.3			453.4	30.9	163.7	11.1
5	1,751,000	23.0	148.6	10.2	4.0	0.3			440.0	30.1	163.7	11.2
6	1,745,000	22.0	142.1	9.8	3.9	0.3			428.9	29.5	150.4	10.3
7	1,811,000	24.0	155.0	10.3	4.2	0.3			463.6	30.7	159.8	10.8
8	1,686,000	23.0	148.6	10.6	4.0	0.3			441.2	31.4	153.2	10.9
9	1,665,000	22.0	142.1	10.2	3.9	0.3			404.6	29.1	146.5	10.6
10	1,753,000	23.0	148.6	10.2	4.0	0.3			422.0	28.9	153.2	10.5
11	1,813,000	24.0	155.0	10.3	4.2	0.3			451.6	29.9	162.8	10.8
12	1,651,000	22.5	145.4	10.6	3.9	0.3			431.4	31.3	153.2	11.1
13	1,810,000	24.0	155.0	10.3	4.2	0.3			457.4	30.3	163.2	10.8
14	1,810,000	24.0	155.0	10.3	4.2	0.3			457.4	30.3	159.8	10.6
15	1,754,000	24.0	155.0	10.6	4.2	0.3			457.4	31.3	159.8	10.9
16	1,721,000	23.0	148.6	10.4	4.0	0.3			434.2	30.3	156.1	10.9
17	1,819,000	24.0	155.0	10.2	4.2	0.3			401.0	26.4	159.8	10.5
18	1,819,000	24.0	155.0	10.2	4.2	0.3			357.6	23.6	154.0	10.2
19	1,750,000	23.0	148.6	10.2	4.0	0.3			400.6	27.4	152.7	10.5
20	1,822,000	24.0	155.0	10.2	4.2	0.3			400.6	26.4	163.7	10.8
21	1,750,000	23.0	148.6	10.2	4.0	0.3			384.6	26.4	157.0	10.8
22	1,685,000	22.0	142.1	10.1	3.9	0.3			353.2	25.1	147.7	10.5
23	1,757,000	23.0	148.6	10.1	4.0	0.3			386.2	26.4	153.2	10.6
24	1,643,000	22.0	142.1	10.4	3.9	0.3			370.0	27.0	137.8	10.1
25	1,744,000	24.0	155.0	10.7	4.2	0.3			399.0	27.4	148.4	10.2
26	1,789,000	24.0	155.0	10.4	4.2	0.3			402.0	26.9	155.1	10.4
27	1,759,000	24.0	155.0	10.6	4.2	0.3			347.0	23.7	159.8	10.9
28	1,796,000	24.0	155.0	10.3	4.2	0.3			329.8	22.0	153.7	10.2
29	1,746,000	23.0	148.6	10.2	4.0	0.3			337.4	23.2	147.6	10.1
30	1,801,000	24.0	155.0	10.3	4.2	0.3			324.2	21.6	153.7	10.2
31												
TOTAL	52,810,000		4537.6		122.9		0.0		12241.8		4688.4	
AVERAGE	1,760,333		151.3	10.3	4.1	0.3	#DIV/0!	#DIV/0!	408.1	27.8	156.3	10.6
MAX	1,822,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 11/2016

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

DAY	CHEMICALS ADDED													
	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
1	590.2	39.1	60.9	4.0	120.6	8.0			25.4	1.7				
2	602.0	40.6	60.9	4.1	120.6	8.1			25.4	1.7				
3	611.9	40.6	60.9	4.0	120.6	8.0			25.4	1.7				
4	617.1	42.0	60.9	4.1	120.6	8.2			25.4	1.7				
5	603.7	41.3	58.4	4.0					24.4	1.7				
6	579.3	39.8	55.8	3.8					23.3	1.6				
7	623.4	41.3	60.9	4.0					25.4	1.7				
8	584.4	42.3	58.4	4.2					24.4	1.7				
9	551.1	39.7	55.8	4.0					23.3	1.7				
10	675.2	39.3	58.4	4.0					24.4	1.7				
11	614.4	40.6	60.9	4.0					25.4	1.7				
12	584.6	42.5	57.2	4.2					23.9	1.7				
13	620.6	41.1	60.9	4.0					25.4	1.7				
14	617.2	40.9	60.9	4.0					17.0	1.1				
15	617.2	42.2	60.9	4.2										
16	590.3	41.1	58.4	4.1										
17	560.8	37.0	60.9	4.0										
18	511.6	33.7	60.9	4.0										
19	563.3	37.9	58.4	4.0										
20	584.3	37.1	60.9	4.0										
21	541.6	37.1	58.4	4.0										
22	500.9	35.6	55.9	4.0										
23	539.4	36.8	58.4	4.0										
24	508.0	37.1	55.9	4.1										
25	547.4	37.6	60.9	4.2										
26	557.1	37.3	60.9	4.1										
27	508.8	34.6	60.9	4.2										
28	483.5	32.2	60.9	4.1										
29	485.0	33.3	58.4	4.0										
30	477.9	31.8	60.9	4.1										
31														
TOTAL	18,930.4		1,783.1		482.4		0.0		338.5		0.0		0.0	
AVERAGE	584.3	38.5	59.4	4.0	120.6	8.1	#DIV/0!	#DIV/0!	24.2	1.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 11/2015

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	8.02	8.11	8.05	193	184	291	307	0.79	0.62	1.96	1.83	1.36	0.31	0.08
2	8.08	8.11	8.05	192	189	295	290	0.82	0.68	1.95	1.84	1.29	0.36	0.08
3	8.05	8.09	8.04	192	190	292	288	0.90	0.73	1.96	1.82	1.15	0.40	0.09
4	8.04	8.12	8.04	185	190	297	295	0.78	0.63	1.91	1.80	1.08	0.37	0.10
5	8.04	8.09	8.03	200	196	300	296	0.71	0.59	1.85	1.76	1.11	0.30	0.08
6	8.01	8.07	8.01	190	195	300	298	0.85	0.72	1.97	1.86	1.10	0.31	0.08
7	8.00	8.11	8.03	210	207	287	293	0.89	0.75	1.99	1.87	1.08	0.37	0.08
8	7.99	8.07	8.00	198	196	300	311	0.79	0.64	1.83	1.72	0.97	0.44	0.07
9	8.00	8.07	8.01	194	188	298	305	0.81	0.69	1.98	1.86	0.89	0.37	0.10
10	8.05	8.10	8.02	200	203	295	300	0.87	0.72	1.98	1.87	1.10	0.37	0.10
11	8.00	8.09	8.03	193	195	297	302	0.86	0.69	1.89	1.79	0.87	0.34	0.08
12	8.00	8.08	8.02	195	192	303	300	0.84	0.70	1.88	1.75	0.94	0.29	0.08
13	8.00	8.08	8.01	192	189	300	295	0.89	0.74	2.00	1.88	0.98	0.41	0.08
14	8.06	8.05	8.00	195	192	297	300	0.85	0.69	1.93	1.78	0.82	0.34	0.07
15	8.03	8.07	8.01	199	201	291	294	0.94	0.76	2.05	1.91	1.01	0.34	0.07
16	8.05	8.11	8.06	198	203	285	282	0.97	0.81	1.98	1.85	0.96	0.33	0.08
17	8.06	8.13	8.06	200	198	295	292	0.92	0.76	1.97	1.82	0.97	0.26	0.08
18	8.08	8.17	8.09	199	203	292	298	0.75	0.61	1.91	1.77	1.04	0.24	0.08
19	8.12	8.15	8.11	200	199	295	296	0.87	0.72	1.86	1.74	0.95	0.32	0.08
20	8.09	8.15	8.11	195	193	295	293	0.86	0.73	1.91	1.79	0.89	0.37	0.06
21	8.11	8.12	8.06	205	200	295	287	0.84	0.68	1.91	1.77	0.94	0.29	0.06
22	8.05	8.11	8.04	196	191	303	308	0.79	0.62	1.87	1.74	0.96	0.33	0.07
23	8.06	8.08	8.02	190	188	295	292	0.85	0.68	1.90	1.79	1.01	0.38	0.07
24	8.07	8.11	8.04	195	192	290	287	0.88	0.72	2.01	1.84	1.02	0.32	0.07
25	8.10	8.12	8.06	190	188	292	290	0.90	0.76	1.92	1.79	1.15	0.35	0.06
26	8.10	8.11	8.01	190	188	290	287	0.73	0.58	1.88	1.75	1.15	0.33	0.07
27	8.09	8.10	8.00	190	187	290	288	0.76	0.64	1.93	1.85	1.09	0.26	0.07
28	8.08	8.10	7.99	190	189	290	292	0.77	0.66	1.90	1.80	1.00	0.23	0.08
29	8.15	8.13	8.02	195	191	299	304	0.75	0.66	1.84	1.76	1.02	0.24	0.07
30	8.08	8.09	8.08	190	189	295	288	0.73	0.64	1.84	1.77	0.90	0.19	0.07
31														
AVERAGE	8.1	8.1	8.0	195	194	295	295	0.83	0.69	1.93	1.81	1.03	0.33	0.08

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 11/2015

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	1.36		0.21	0.51						0.06	0.08	0.07	0.06		0.08
2	1.29		0.25	0.58						0.08	0.09	0.08	0.07		0.10
3	1.15		0.30	0.71						0.11	0.13	0.07	0.06		0.11
4	1.06		0.25	0.61						0.08	0.10	0.14	0.13		0.13
5	1.11		0.26	0.49						0.08	0.09	0.08	0.07		0.10
6	1.10		0.32	0.42						0.10	0.13	0.07	0.06		0.11
7	1.08		0.22	0.80						0.10	0.11	0.07	0.06		0.10
8	0.97		0.32	0.80						0.07	0.08	0.06	0.04		0.08
9	0.89		0.28	0.92						0.07	0.08	0.13	0.11		0.10
10	1.10		0.36	0.78						0.10	0.12	0.09	0.08		0.11
11	0.87		0.23	1.05						0.07	0.09	0.07	0.05		0.09
12	0.94		0.20	0.62						0.06	0.06	0.06	0.04		0.08
13	0.98		0.24	0.89						0.06	0.07	0.12	0.09		0.09
14	0.82		0.25	0.81						0.06	0.07	0.07	0.05		0.08
15	1.01		0.30	0.78						0.07	0.08	0.06	0.05		0.08
16	0.96		0.19	0.88						0.07	0.07	0.09	0.07		0.09
17	0.97		0.19	0.50						0.08	0.07	0.07	0.06		0.08
18	1.04		0.17	0.54						0.07	0.07	0.07	0.05		0.08
19	0.95		0.24	0.80						0.07	0.07	0.06	0.05		0.08
20	0.89		0.16	1.05						0.06	0.07	0.06	0.04		0.07
21	0.94		0.15	0.61						0.06	0.07	0.08	0.07		0.09
22	0.96		0.33	0.87						0.06	0.07	0.07	0.06		0.08
23	1.01		0.26	1.15						0.07	0.09	0.07	0.06		0.08
24	1.02		0.24	0.96						0.07	0.08	0.06	0.05		0.08
25	1.15		0.29	0.86						0.08	0.07	0.06	0.04		0.07
26	1.15		0.27	0.80						0.08	0.07	0.09	0.09		0.09
27	1.09		0.16	0.72						0.07	0.07	0.06	0.05		0.08
28	1.00		0.17	0.34						0.00	0.09	0.06	0.05		0.08
29	1.02		0.19	0.42						0.07	0.08	0.09	0.09		0.09
30	0.90		0.20	0.34						0.06	0.07	0.07	0.07		0.08
31															
AVERAGE	1.0	#DIV/0!	0.2	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.08	0.08	0.06	#DIV/0!	0.09

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 11/2015

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F°/C°
1	0.46	1.31	0.11	0.02	0.04	0.02			1.80	0.1	16.2
2	0.46	0.79	0.11	0.04	0.04	0.02			1.85	0.0	16.3
3	0.45	0.88	0.09	0.04	0.04	0.02			1.80	0.0	16.3
4	0.37	0.77	0.01	0.00	0.04	0.02			1.80	0.0	16.3
5	0.46	0.88	0.05	0.02	0.04	0.00			1.70	0.0	16.5
6	0.44	0.83	0.07	0.01	0.04	0.02			1.68	0.0	16.8
7	0.43	0.83	0.09	0.00	0.03	0.01			1.70	0.1	17.1
8	0.35	0.75	0.06	0.04	0.04	0.03			1.70	0.0	16.4
9	0.48	0.89	0.07	0.03	0.03	0.02			1.70	0.0	16.3
10	0.54	0.67	0.14	0.08	0.03	0.01			1.75	0.1	15.8
11	0.44	0.88	0.05	0.00	0.04	0.01			1.65	0.0	16.0
12	0.49	0.84	0.03	0.00	0.03	0.01			1.75	0.0	15.7
13	0.46	1.03	0.03	0.00	0.03	0.01			1.70	0.0	15.8
14	0.46	0.87	0.03	0.02	0.04	0.02			1.65	0.0	15.8
15	0.31	0.85	0.04	0.00	0.04	0.01			1.80	0.0	14.8
16	0.45	0.83	0.04	0.00	0.04	0.02			1.70	0.0	14.4
17	0.45	0.87	0.05	0.00	0.03	0.02			1.60	0.0	14.5
18	0.34	0.85	0.04	0.03	0.04	0.02			1.60	0.0	14.1
19	0.50	0.81	0.05	0.00	0.05	0.02			1.65	0.5	14.5
20	0.43	0.50	0.05	0.00	0.03	0.01			1.65	0.0	14.1
21	0.38	0.67	0.05	0.00	0.03	0.01			1.75	0.0	15.0
22	0.46	0.87	0.06	0.02	0.05	0.02			1.70	0.0	13.2
23	0.38	0.79	0.07	0.02	0.02	0.01			1.70	0.0	12.9
24	0.41	0.87	0.04	0.01	0.04	0.02			1.70	0.0	12.3
25	0.41	0.79	0.09	0.00	0.04	0.02			1.60	0.0	12.2
26	0.35	1.05	0.01	0.01	0.02	0.01			1.60	0.0	11.9
27	0.42	1.03	0.04	0.02	0.03	0.02			1.80	0.0	12.0
28	0.34	1.00	0.04	0.01	0.03	0.01			1.65	0.0	12.4
29	0.46	0.99	0.07	0.00	0.04	0.01			1.75	0.5	12.0
30	0.42	0.97	0.04	0.00	0.02	0.02			1.65	0.3	12.4
31											
AVERAGE	0.43	0.87	0.06	0.01	0.04	0.02	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	14.7

	1.60	
Number of readings	30	1.64
For Free Chlorine, # less than 0.2 mg/L	0	
For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N) **N**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 11/2015  
 PAGE 6 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	24,000	12,000	100.50	12,000	100.50						
3	0										
4	26,000					13,000	98.90	13,000	99.00		
5	0										
6	30,000	15,000	89.00	15,000	89.00						
7	0										
8	32,000					16,000	110.80	16,000	110.80		
9	0										
10	37,000	18,000	91.90	19,000	91.90						
11	0										
12	35,000					17,000	90.90	18,000	90.90		
13	0										
14	0										
15	44,000	23,000	102.30	21,000	100.80						
16	40,000					20,000	90.70	20,000	90.70		
17	0										
18	0										
19	32,000	16,000	106.60	16,000	106.60						
20	0										
21	39,000					19,000	117.30	20,000	117.30		
22	0										
23	34,000	17,000	95.70	17,000	95.70						
24	0										
25	38,000					19,000	94.20	19,000	94.20		
26	0										
27	34,000	17,000	98.50	17,000	96.70						
28	0										
29	36,000					18,000	91.30	18,000	91.30		
30	0										
31	0										
TOTAL	481,000	118,000	684.50	117,000	681.20	122,000	694.10	124,000	694.20	0	0.00
AVERAGE	15,516	16,857	97.786	16,714	97.314	17,429	99.157	17,714	99.171	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 11/2015

ALL WATER SYSTEMS

PAGE 7 OF 11

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
	T	F	T	F	T	F	T	F			
1			1.58	1.39	1.18	1.02	1.38	1.24	1.58	1.40	
2			1.38	1.21	0.86	0.72	1.21	1.12	1.50	1.37	
3			1.52	1.44	1.22	1.05	1.17	1.15	1.57	1.50	
4			0.77	0.69	1.18	1.17	1.28	1.20	1.45	1.39	
5			1.35	1.27	1.16	1.10	1.09	0.97	1.15	1.08	
6			1.14	1.08	1.20	1.11	1.07	0.89	1.43	1.36	
7			1.45	1.37	0.80	0.64	1.25	1.18	1.56	1.46	
8			1.23	1.00	1.14	0.97	1.80	1.44	1.07	0.96	
9			2.04	1.86	1.13	0.98	1.38	1.21	1.43	1.28	
10			1.37	1.23	1.17	1.11	1.39	1.29	1.12	1.00	
11			1.42	1.34	1.30	1.21	1.39	1.28	1.44	1.32	
12			1.30	1.23	1.27	1.19	0.97	0.88	1.02	0.90	
13			1.34	1.28	0.59	0.49	1.24	1.18	1.50	1.44	
14			1.45	1.32	1.03	0.89	1.34	1.18	1.61	1.42	
15			1.38	1.18	0.88	0.70	1.31	1.08	1.48	1.29	
16			1.58	1.49	1.67	1.59	1.31	1.29	1.85	1.57	
17			1.41	1.34	1.33	1.27	1.38	1.23	1.39	1.30	
18			1.45	1.35	0.43	0.31	1.22	1.18	1.52	1.41	
19			1.57	1.48	1.44	1.34	1.09	0.97	1.52	1.39	
20			1.40	1.26	1.14	1.02	1.16	1.12	1.31	1.22	
21			1.22	1.14	0.46	0.30	1.30	1.17	1.54	1.47	
22			1.40	1.27	1.34	1.20	1.40	1.34	1.44	1.39	
23			1.22	1.14	1.26	1.13	1.28	1.24	1.46	1.39	
24			1.17	1.10	0.88	0.80	1.51	1.41	1.57	1.44	
25			1.50	1.38	1.30	1.15	1.64	1.46	1.15	1.04	
26			1.47	1.35	1.52	1.41	1.55	1.45	1.53	1.46	
27			1.13	0.99	0.89	0.80	1.30	1.20	1.23	1.14	
28			1.34	1.26	1.20	1.14	1.41	1.26	1.41	1.34	
29			1.21	1.07	1.51	1.38	1.52	1.43	1.26	1.18	
30			1.29	1.26	1.28	1.23	0.77	0.75	1.37	1.36	
31											
AVERAGE	#DIV/OI	#DIV/OI	Average	1.37	1.26	1.12	1.01	1.30	1.19	1.41	1.31
TOTAL	0.0	0.0	Total Minimum	0.77		0.43		0.77		1.02	
			Free Minimum		0.69		0.30		0.75		0.90

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	0	0	2	0	0	0	0	0	0
Number of Free Residuals	120	Minimum Monthly Free Residual	0.30						
Number of Total Residuals	120	Minimum Monthly Total Residual	0.43						
Total # Less than 0.2 mg/L	0								
Total # Less than 0.5 mg/L									

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **30**

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID : A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 11/2015

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.08	0.08	0.08	0.08	0.08	0.08	0.083	
2	24.0	6	0.08	0.08	0.08	0.07	0.08	0.10	0.102	
3	24.0	6	0.11	0.11	0.09	0.08	0.08	0.10	0.112	
4	24.0	6	0.09	0.13	0.11	0.09	0.09	0.10	0.130	
5	23.0	6	0.09	0.10	0.09	0.08	0.08	0.09	0.098	
6	22.0	6	0.09	0.09	0.08	0.08	0.08	0.11	0.106	
7	24.0	6	0.10	0.10	0.09	0.08	0.08	0.08	0.101	
8	23.0	6	0.08	0.08	0.08	0.07	0.07	0.08	0.080	
9	22.0	6	0.10	0.10	0.09	0.09	0.09	0.09	0.102	
10	23.0	6	0.10	0.10	0.10	0.09	0.11	0.11	0.111	
11	24.0	6	0.09	0.08	0.08	0.07	0.08	0.08	0.093	
12	22.5	6	0.08	0.08	0.07	0.07	0.07	0.07	0.079	
13	24.0	6	0.09	0.08	0.08	0.07	0.07	0.08	0.093	
14	24.0	6	0.08	0.07	0.07	0.07	0.07	0.08	0.076	
15	24.0	6	0.08	0.08	0.08	0.07	0.07	0.08	0.081	
16	23.0	6	0.08	0.08	0.07	0.07	0.07	0.09	0.088	
17	24.0	6	0.08	0.08	0.08	0.08	0.08	0.08	0.083	
18	24.0	6	0.07	0.08	0.08	0.07	0.07	0.08	0.076	
19	23.0	6	0.07	0.07	0.07	0.06	0.07	0.08	0.075	
20	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.074	
21	23.0	6	0.07	0.07	0.07	0.07	0.07	0.09	0.086	
22	22.0	6	0.08	0.08	0.08	0.07	0.08	0.08	0.081	
23	23.0	6	0.08	0.08	0.08	0.07	0.07	0.08	0.084	
24	22.0	6	0.08	0.07	0.07	0.07	0.07	0.07	0.082	
25	24.0	6	0.07	0.07	0.07	0.07	0.07	0.07	0.072	
26	24.0	6	0.09	0.08	0.08	0.07	0.07	0.08	0.087	
27	24.0	6	0.08	0.08	0.07	0.07	0.07	0.07	0.076	
28	24.0	6	0.08	0.08	0.08	0.07	0.08	0.08	0.083	
29	23.0	6	0.08	0.07	0.07	0.07	0.07	0.09	0.089	
30	24.0	6	0.08	0.08	0.08	0.07	0.07	0.07	0.082	
31	0.0	0							0.000	
<b>Total</b>	<b>702.5</b>	<b>180</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>180</b>	<b>0.130</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 12 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Carl T. Alley 12/05/2015  
 Signature of Principal Executive Officer or Authorized Agent Date





**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID           KY0800273          

MONITORING PERIOD (MMYYYY)           11/2015          

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>  A  </u>	TOTAL WATER TREATED (gallons)	<u>52,810,000</u>	
PLANT NAME <u>  Martin County Water District  </u>	AVE. DAILY PRODUCTION (gallons)	<u>1,760,333</u>	
AGENCY INTEREST <u>  2987  </u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,822,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>  0100  </u>	
Was each filter monitored continuously? (Y/N) _____	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>  0100  </u>	
Number of hours of plant operation _____	<u>702.6</u>
Were samples taken every 4 hours of plant operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of samples taken _____	<u>180</u>
Highest single turbidity reading _____	<u>0.13</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU _____	<u>12</u>
Number of samples exceeded 0.3 NTU _____	<u>0</u>
Number of samples exceeded 1 NTU _____	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU _____	
Number of samples exceeded 5 NTU _____	

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>  0999  </u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded _____	<u>30</u>
Lowest single chlorine reading _____	<u>1.60</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L _____	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L _____	

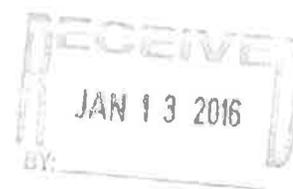
CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>  1008  </u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorine dioxide reading _____	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	<u>0</u>

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>  1009  </u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorite reading _____	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L _____	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Easton Alley  
Signature of Principal Executive Officer or Authorized Agent

12/05/2015  
Date



KENTUCKY DIVISION OF WATER

Revised 01/04/07

DRINKING WATER BRANCH

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 12/2015

Indicate one with "X"

SURFACE WATER

GROUNDWATER

PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	01/07/2016	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Timothy D Reed / Elbert Osborne	1V-A / 11-A	24590 / 27800	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

1. DESIGN CAPACITY (gpm):	1,667
2. TYPE OF FILTRATION USED:	Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	2.66
4. PERCENT BACKWASH WATER USED:	1.0
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	#2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED:	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

01/06/2016  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 12/2015

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,649,000	22.0	142.1	10.3	3.9	0.3			298.4	21.7	149.4	10.9
2	1,770,000	24.0	155.0	10.5	4.2	0.3			324.2	22.0	161.1	10.9
3	1,775,000	23.5	151.8	10.3	4.1	0.3			317.6	21.5	157.7	10.7
4	1,823,000	24.0	155.0	10.2	4.2	0.3			338.8	22.3	163.2	10.7
5	1,751,000	23.0	148.5	10.2	4.0	0.3			342.4	23.4	162.6	11.1
6	1,807,000	24.0	155.0	10.3	4.2	0.3			342.4	22.7	169.2	11.2
7	1,601,000	21.5	138.9	10.4	3.8	0.3			291.8	21.9	148.9	11.2
8	1,812,000	24.0	155.0	10.3	4.2	0.3			334.8	22.2	171.0	11.3
9	1,778,000	23.5	151.8	10.2	4.1	0.3			336.0	22.7	165.7	11.2
10	1,795,000	24.0	155.0	10.4	4.2	0.3			342.4	22.9	171.2	11.4
11	1,742,000	24.0	155.0	10.7	4.2	0.3			324.2	22.3	169.2	11.6
12	1,792,000	24.0	155.0	10.4	4.2	0.3			342.2	22.9	169.2	11.3
13	1,744,000	24.0	155.0	10.7	4.2	0.3			334.8	23.0	169.2	11.6
14	1,793,000	24.0	155.0	10.4	4.2	0.3			324.2	21.7	168.6	11.3
15	1,740,000	24.0	155.0	10.7	4.2	0.3			324.2	22.3	158.4	10.9
16	1,800,000	24.0	155.0	10.3	4.2	0.3			324.2	21.8	159.8	10.6
17	1,746,000	24.0	155.0	10.6	4.2	0.3			324.2	22.3	159.8	11.0
18	1,797,000	24.0	155.0	10.3	4.2	0.3			319.8	21.3	164.9	11.0
19	1,802,000	24.0	155.0	10.3	4.2	0.3			329.8	21.9	171.0	11.4
20	1,847,000	24.0	155.0	10.1	4.2	0.3			324.2	21.0	169.2	11.0
21	1,674,000	22.0	142.1	10.2	3.9	0.3			293.8	21.0	146.5	10.5
22	1,807,000	24.0	155.0	10.3	4.2	0.3			319.6	21.2	159.8	10.6
23	1,816,000	24.0	155.0	10.2	4.2	0.3			319.6	21.1	159.8	10.6
24	1,843,000	24.0	155.0	10.1	4.2	0.3			326.2	21.2	159.8	10.4
25	1,811,000	24.0	155.0	10.3	4.2	0.3			319.6	21.2	159.8	10.6
26	1,842,000	24.0	155.0	10.1	4.2	0.3			319.6	20.8	159.8	10.4
27	1,807,000	24.0	155.0	10.3	4.2	0.3			322.0	21.4	159.8	10.6
28	1,844,000	24.0	155.0	10.1	4.2	0.3			319.6	20.8	159.8	10.4
29	1,833,000	24.0	155.0	10.1	4.2	0.3			319.6	20.9	159.8	10.5
30	1,832,000	24.0	155.0	10.1	4.2	0.3			254.6	16.7	170.4	11.2
31	1,843,000	24.0	155.0	10.1	4.2	0.3			250.9	18.3	180.8	11.8
TOTAL	55,316,000		4750.2		128.8		0.0		9905.7		5055.4	
AVERAGE	1,784,387		153.2	10.3	4.2	0.3	#DIV/0!	#DIV/0!	319.5	21.5	163.1	11.0
MAX	1,847,000											

NUMBER DAYS IN OPERATION

31



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 12/2015

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)												TURBIDITY (NTU)		
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				RAW	SETTLED WATER	PLANT TAP	
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP					
							TOTAL	FREE	TOTAL	FREE					
1	8.08	8.06	8.01	193	190	285	280	0.67	0.57	1.79	1.71	0.85	0.25	0.07	
2	8.06	8.09	7.99	193	190	285	282	0.68	0.57	1.81	1.73	1.03	0.24	0.07	
3	8.06	8.07	7.96	190	188	280	285	0.65	0.54	1.81	1.73	1.15	0.43	0.07	
4	8.05	8.07	7.97	195	190	292	288	0.64	0.55	1.77	1.70	1.15	0.34	0.07	
5	8.00	8.04	7.96	193	190	288	290	0.62	0.52	1.83	1.74	1.29	0.38	0.07	
6	7.99	8.01	7.92	183	185	281	287	0.68	0.55	1.86	1.78	2.27	0.32	0.07	
7	7.98	8.00	7.93	180	177	278	275	0.63	0.53	1.75	1.66	2.41	0.33	0.07	
8	7.96	7.97	7.90	180	178	285	280	0.61	0.49	1.86	1.79	2.04	0.22	0.06	
9	7.96	8.00	7.91	185	180	275	270	0.71	0.60	1.87	1.78	1.99	0.27	0.07	
10	7.95	7.98	7.90	188	182	275	278	0.64	0.54	1.86	1.75	1.72	0.27	0.06	
11	7.92	7.96	7.88	175	172	285	280	0.74	0.63	1.87	1.76	1.65	0.29	0.06	
12	7.91	7.95	7.87	180	177	275	272	0.79	0.70	1.79	1.77	1.54	0.22	0.07	
13	7.91	7.95	7.88	172	174	287	262	0.69	0.58	1.98	1.85	1.64	0.27	0.07	
14	7.91	7.96	7.88	170	175	277	273	0.72	0.58	1.90	1.77	1.59	0.27	0.07	
15	7.87	7.93	7.85	175	178	280	275	0.76	0.62	1.84	1.75	1.73	0.23	0.07	
16	7.87	7.94	7.88	173	170	275	270	0.75	0.63	1.87	1.78	1.76	0.33	0.07	
17	7.86	7.93	7.86	185	179	278	280	0.81	0.67	1.82	1.71	1.73	0.23	0.06	
18	7.85	7.92	7.85	170	168	270	267	0.69	0.57	1.84	1.73	1.72	0.35	0.07	
19	7.81	7.92	7.83	177	170	250	255	0.70	0.56	1.84	1.72	1.64	0.45	0.07	
20	7.86	7.90	7.82	165	167	250	248	0.73	0.60	1.88	1.77	1.72	0.33	0.07	
21	7.91	7.94	7.88	167	164	247	240	0.81	0.68	1.91	1.82	1.88	0.30	0.07	
22	7.91	7.92	7.84	158	155	235	230	0.75	0.64	1.88	1.76	1.48	0.22	0.07	
23	7.90	7.94	7.85	155	158	235	232	0.76	0.65	1.81	1.71	1.65	0.27	0.07	
24	7.89	7.92	7.82	158	150	235	230	0.77	0.64	1.87	1.74	1.49	0.23	0.07	
25	7.86	7.90	7.80	158	152	235	230	0.83	0.69	1.92	1.83	1.54	0.23	0.07	
26	7.87	7.89	7.78	155	152	235	230	0.77	0.66	1.86	1.76	1.67	0.24	0.08	
27	7.81	7.88	7.78	150	148	230	236	0.78	0.66	1.86	1.75	1.70	0.25	0.07	
28	7.87	7.90	7.81	145	142	230	225	0.82	0.71	1.83	1.74	1.80	0.26	0.08	
29	7.81	7.88	7.79	150	148	230	222	0.73	0.62	1.81	1.71	1.99	0.28	0.07	
30	7.85	7.89	7.81	155	152	228	222	0.73	0.61	1.82	1.69	2.02	0.34	0.07	
31	7.82	7.89	7.80	148	152	228	225	0.76	0.67	1.86	1.75	2.21	0.35	0.07	
AVERAGE	7.9	8.0	7.9	172	169	261	259	0.72	0.61	1.85	1.75	1.68	0.29	0.07	

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 12/2015

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

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ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM						CFE DAILY MAXIMUM	
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6		#7
1	0.85		0.32	0.56						0.06	0.07	0.06	0.05		0.08
2	1.03		0.24	0.54						0.07	0.08	0.06	0.05		0.08
3	1.15		0.28	0.87						0.06	0.07	0.08	0.07		0.08
4	1.15		0.22	0.87						0.06	0.07	0.07	0.07		0.08
5	1.29		0.34	0.66						0.08	0.10	0.06	0.05		0.09
6	2.27		0.21	0.67						0.07	0.09	0.06	0.05		0.08
7	2.41		0.32	0.86						0.06	0.07	0.10	0.11		0.09
8	2.04		0.16	0.42						0.05	0.06	0.06	0.05		0.07
9	1.99		0.20	0.85						0.07	0.09	0.06	0.05		0.08
10	1.72		0.18	0.74						0.08	0.09	0.06	0.05		0.08
11	1.65		0.27	0.56						0.07	0.08	0.06	0.05		0.07
12	1.54		0.22	0.35						0.07	0.07	0.10	0.09		0.08
13	1.64		0.25	0.44						0.07	0.07	0.07	0.06		0.07
14	1.59		0.32	0.44						0.10	0.11	0.07	0.05		0.08
15	1.73		0.21	0.37						0.07	0.08	0.06	0.05		0.07
16	1.76		0.28	0.80						0.07	0.07	0.11	0.11		0.08
17	1.73		0.30	0.37						0.07	0.07	0.07	0.05		0.06
18	1.72		0.21	0.67						0.11	0.11	0.07	0.05		0.06
19	1.64		0.26	0.78						0.08	0.08	0.08	0.08		0.05
20	1.72		0.21	0.68						0.07	0.08	0.07	0.06		0.06
21	1.88		0.24	0.74						0.11	0.12	0.07	0.06		0.09
22	1.48		0.22	0.28						0.11	0.11	0.07	0.06		0.08
23	1.65		0.36	0.37						0.09	0.09	0.10	0.10		0.08
24	1.49		0.28	0.34						0.08	0.08	0.08	0.08		0.07
25	1.54		0.22	0.31						0.08	0.08	0.07	0.06		0.06
26	1.67		0.25	0.29						0.14	0.14	0.07	0.06		0.07
27	1.70		0.27	0.31						0.09	0.09	0.07	0.06		0.07
28	1.80		0.26	0.41						0.08	0.08	0.11	0.12		0.08
29	1.99		0.28	0.47						0.11	0.11	0.07	0.07		0.08
30	2.02		0.26	0.78						0.10	0.10	0.07	0.06		0.08
31	2.21		0.28	0.67						0.07	0.07	0.08	0.08		0.07
AVERAGE	1.7	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.08	0.09	0.07	0.07	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 12/2015

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE		RAW	TAP	Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP					
1	0.41	0.46	0.04	0.00	0.03	0.01			1.60	0.7	12.6
2	0.49	1.11	0.00	0.01	0.04	0.01			1.65	1.3	12.5
3	0.34	1.14	0.07	0.04	0.02	0.01			1.70	0.0	12.5
4	0.48	0.99	0.06	0.02	0.00	0.00			1.00	0.0	12.5
5	0.40	1.11	0.06	0.00	0.02	0.00			1.65	0.0	12.2
6	0.52	1.02	0.11	0.03	0.04	0.01			1.64	0.0	12.1
7	0.34	0.91	0.08	0.00	0.03	0.02			1.70	0.0	11.7
8	0.36	1.09	0.00	0.01	0.02	0.01			1.70	0.1	12.1
9	0.31	1.02	0.03	0.01	0.03	0.01			1.70	0.0	11.6
10	0.39	0.96	0.04	0.00	0.03	0.02			1.70	0.0	11.7
11	0.46	1.05	0.06	0.02	0.02	0.01			0.95	0.0	11.8
12	0.37	0.95	0.01	0.04	0.02	0.01			1.50	0.0	11.5
13	0.48	0.76	0.08	0.04	0.03	0.01			1.25	0.0	11.4
14	0.38	0.86	0.01	0.10	0.02	0.00			1.65	0.0	11.9
15	0.49	0.88	0.00	0.00	0.02	0.01			0.95	0.3	12.3
16	0.29	1.03	0.11	0.08	0.02	0.01			1.70	0.0	11.9
17	0.41	1.00	0.06	0.00	0.00	0.00			1.65	0.3	12.1
18	0.38	1.09	0.09	0.03	0.03	0.00			1.64	0.2	11.9
19	0.51	0.77	0.05	0.00	0.05	0.01			1.60	0.0	12.2
20	0.45	0.87	0.04	0.00	0.04	0.01			1.70	0.0	10.9
21	0.37	0.80	0.05	0.00	0.02	0.01			1.65	0.0	11.3
22	0.45	0.95	0.09	0.00	0.02	0.01			1.65	0.7	11.0
23	0.47	0.94	0.02	0.05	0.05	0.00			1.65	0.1	11.1
24	0.27	0.95	0.04	0.11	0.02	0.02			1.70	0.4	11.1
25	0.42	0.97	0.03	0.00	0.02	0.01			1.70	0.0	11.1
26	0.22	1.08	0.00	0.12	0.03	0.01			1.75	0.9	11.3
27	0.08	0.77	0.09	0.00	0.05	0.02			1.70	0.0	11.2
28	0.27	0.99	0.08	0.06	0.02	0.01			1.70	0.2	11.4
29	0.38	0.90	0.02	0.00	0.02	0.01			1.70	0.1	11.5
30	0.21	0.74	0.07	0.01	0.02	0.01			1.65	0.0	11.3
31	0.31	0.92	0.02	0.05	0.03	0.02			1.64	0.0	11.4
AVERAGE	0.38	0.94	0.05	0.03	0.03	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	TOTAL Rainfall	11.7

	0.95
Number of readings	31
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N)

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 12/2016

PAGE 6 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: <u>3</u>		No: <u>4</u>		No: <u>5</u>		No: <u>6</u>		No: <u>  </u>	
		AREA (square feet) 160	FILT RUN HR8								
1	0										
2	34,000	17,000	99.90	17,000	96.40						
3	36,000					18,000	92.40	18,000	92.40		
4	0										
5	34,000	17,000	87	17000.00	87						
6	0										
7	35,000					18,000	92.60	17,000	92.60		
8	0										
9	35,000	18,000	92.10	17,000	92.10						
10	0										
11	38,000					19,000	97.80	19,000	97.90		
12	0										
13	36,000	18,000	99.70	18,000	99.60						
14	0										
15	38,000					19,000	95.50	19,000	95.50		
16	0										
17	36,000	18,000	96.00	18,000	95.30						
18	0										
19	33,000					17,000	86.80	16,000	86.80		
20	0										
21	34,000	17,000	91.00	17,000	91.00						
22	0										
23	34,000					17,000	93.20	17,000	93.20		
24	0										
26	36,000	18,000	98.90	18,000	96.60						
26	0										
27	36,000					18,000	102.50	18,000	102.60		
28	0										
29	34,000	17,000	90.80	17,000	90.80						
30	0										
31	34,000					17,000	87.00	17,000	87.00		
TOTAL	563,000	140,000	755.40	139,000	748.80	143,000	747.80	141,000	748.00	0	0.00
AVERAGE	18,161	17,500	94.425	17,375	93.600	17,875	93.475	17,625	93.500	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID : A

REPORT MONTH/YEAR: 12/2016

ALL WATER SYSTEMS

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DAY	CHEMICALS ADDED		DISTRIBUTION SYSTEM OPERATION								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TEST RESULTS								
			TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
T	F	T	F	T	F	T	F				
1			1.26	1.23	1.14	1.13	0.42	0.33	1.27	1.26	
2			1.33	1.26	1.39	1.30	1.51	1.48	1.49	1.40	
3			1.28	1.23	1.14	1.09	1.34	1.22	1.35	1.28	
4			0.87	0.74	0.63	0.61	0.88	0.82	1.38	1.31	
5			1.25	1.17	1.25	1.18	1.35	1.28	1.46	1.40	
6			1.48	1.33	1.20	1.08	0.59	0.52	1.50	1.38	
7			1.09	1.04	1.33	1.26	0.67	0.64	1.41	1.32	
8			1.48	1.35	0.57	0.50	0.87	0.76	1.28	1.23	
9			1.44	1.38	1.27	1.18	1.34	1.27	1.36	1.29	
10			1.41	1.28	1.20	1.08	1.30	1.25	1.56	1.49	
11			0.88	0.76	0.47	0.36	1.16	1.08	1.11	1.10	
12			1.87	1.76	1.00	0.87	1.44	1.32	1.44	1.32	
13			1.39	1.24	1.14	1.01	1.66	1.49	1.66	1.53	
14			1.34	1.20	1.28	1.23	1.46	1.41	1.50	1.42	
15			1.12	1.07	0.71	0.65	1.34	1.19	1.10	0.93	
16			1.37	1.23	1.16	1.11	1.26	1.19	1.17	1.09	
17			1.29	1.17	1.19	1.11	0.91	0.85	1.22	1.12	
18			1.13	0.96	0.97	0.88	1.18	1.10	1.33	1.23	
19			1.52	1.40	1.20	1.13	1.15	1.01	1.37	1.33	
20			1.87	1.74	1.18	1.02	1.30	1.13	1.41	1.26	
21			1.41	1.35	1.27	1.19	1.52	1.40	1.61	1.58	
22			1.92	1.84	0.59	0.43	0.69	0.54	1.52	1.41	
23			1.28	1.23	0.98	0.91	1.44	1.40	1.00	0.96	
24			1.45	1.30	1.21	1.01	1.64	1.52	1.53	1.40	
25			1.92	1.82	1.28	1.17	1.28	1.16	1.32	1.19	
26			1.51	1.37	0.90	0.76	1.63	1.50	1.61	1.47	
27			1.43	1.23	1.25	1.11	1.56	1.44	1.53	1.43	
28			1.47	1.44	1.31	1.22	1.42	1.32	1.19	1.12	
29			1.29	1.19	1.26	1.17	0.39	0.34	1.58	1.47	
30			1.40	1.34	1.35	1.26	1.39	1.32	1.49	1.41	
31			1.39	1.28	1.50	1.44	1.34	1.30	1.22	1.17	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.39	1.29	1.11	1.01	1.21	1.12	1.39	1.30
TOTAL	0.0	0.0	Total Minimum Free Minimum	0.87		0.47		0.39		1.00	
					0.74		0.36		0.33		0.93

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L	0	0	1	0	2	0	0	0	0
Number of Free Residuals	124	Minimum Monthly Free Residual	0.33						
Number of Total Residuals	124	Minimum Monthly Total Residual	0.39						
Total # Less than 0.2 mg/L	0	Disinfectant Chloramines? (Y/N)	N						
Total # Less than 0.5 mg/L		Number of days of operation?	31						

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID : A

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 12/2015

PAGE:  
8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	22.0	6	0.07	0.08	0.07	0.07	0.07	0.07	0.080	
2	24.0	6	0.07	0.08	0.08	0.07	0.07	0.07	0.080	
3	23.5	6	0.07	0.07	0.07	0.06	0.07	0.08	0.081	
4	24.0	6	0.08	0.08	0.08	0.07	0.07	0.08	0.083	
5	23.0	6	0.07	0.07	0.07	0.08	0.08	0.09	0.086	
6	24.0	6	0.08	0.07	0.08	0.07	0.07	0.07	0.081	
7	21.5	6	0.07	0.07	0.07	0.07	0.07	0.09	0.089	
8	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.068	
9	23.5	6	0.06	0.06	0.06	0.06	0.07	0.08	0.081	
10	24.0	6	0.08	0.07	0.07	0.07	0.07	0.07	0.078	
11	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.066	
12	24.0	6	0.08	0.07	0.07	0.07	0.07	0.07	0.078	
13	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.068	
14	24.0	6	0.08	0.07	0.07	0.07	0.07	0.07	0.081	
15	24.0	6	0.07	0.07	0.07	0.06	0.06	0.06	0.066	
16	24.0	6	0.08	0.07	0.06	0.06	0.05	0.05	0.082	
17	24.0	6	0.05	0.06	0.06	0.05	0.05	0.05	0.059	
18	24.0	6	0.06	0.05	0.06	0.05	0.05	0.05	0.061	
19	24.0	6	0.05	0.05	0.05	0.04	0.05	0.05	0.053	
20	24.0	6	0.05	0.06	0.06	0.05	0.05	0.05	0.057	
21	22.0	6	0.05	0.05	0.05	0.05	0.05	0.09	0.092	
22	24.0	6	0.08	0.07	0.07	0.07	0.06	0.06	0.080	
23	24.0	6	0.07	0.07	0.07	0.06	0.08	0.07	0.077	
24	24.0	6	0.07	0.06	0.06	0.05	0.05	0.05	0.071	
25	24.0	6	0.06	0.06	0.05	0.05	0.05	0.06	0.064	
26	24.0	6	0.07	0.06	0.07	0.06	0.06	0.06	0.074	
27	24.0	6	0.05	0.05	0.05	0.05	0.05	0.07	0.065	
28	24.0	6	0.08	0.05	0.06	0.05	0.05	0.06	0.080	
29	24.0	6	0.06	0.05	0.05	0.06	0.07	0.08	0.084	
30	24.0	6	0.08	0.07	0.07	0.06	0.06	0.06	0.080	
31	24.0	6	0.06	0.06	0.06	0.06	0.07	0.07	0.072	
Total	735.5	186	TOTAL # OF TURBIDITY SAMPLES TAKEN --						186	0.092

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding --> 0.1 NTU 0 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding --> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

01/06/2016  
Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID KY0800273

MONITORING PERIOD (MMYYYY) 12/2015

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>55,316,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,784,387</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,847,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0100</u>	ANALYTE CODE	<u>0999</u>
Number of hours of plant operation	<u>735.5</u>	Number of days of plant operation	<u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>186</u>	Number of lowest chlorine samples recorded	<u>31</u>
Highest single turbidity reading	<u>0.09</u>	Lowest single chlorine reading	<u>0.95</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU	<u>0</u>	Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU	<u>0</u>	<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU	<u>0</u>	Number of samples under 0.2 mg/L	<u>0</u>
When filtration is slow sand filtration:		<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU		Number of samples under 0.5 mg/L	
Number of samples exceeded 5 NTU			

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>	ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>31</u>	Number of days of plant operation	<u>31</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>	Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>	Highest single chlorite reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>	Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

01/06/2016  
Date





## Specific Site Information Bacteriological and MRDL Monitoring Plan

**RECEIVED**  
MAY 11 2011

PWSID: 0800273  
 Name: Martin County Water District  
 Address: 387 East Main Street, Suite 140  
 City/State/Zip: Inez Kentucky 41224  
 County: Martin

Service  
 Connections: 3,606  
 System  
 Population  
 Served: 10,457

Revised: \_\_\_\_\_ OR New: x

**Sampling  
Site No.**

**Sampling Site Location**

**Type of Facility**

Sampling Site No.	Name	Address	City	State/Zip	Residential:	Commercial:	School:	Other (specify):	Medical:	Public Bldg:
112	Name:	Martin County Water Treatment Plant								
	Address:	14 Flat Hollow								
	City:	Inez								<input checked="" type="checkbox"/> x
	State/Zip:	Kentucky 41224								<input checked="" type="checkbox"/> x The end of an Asbestos Line
113	Name:	Fire Hydrant								
	Address:	Blacklog Road Route 40 East								
	City:	Inez								<input checked="" type="checkbox"/> x Fire Hydrant at the end of Asbestos Line
	State/Zip:	Kentucky 41224								
114	Name:	Fire Hydrant								
	Address:	Castle Branch Road Route 3								
	City:	Inez								<input checked="" type="checkbox"/> x Fire Hydrant at the end of Asbestos Line
	State/Zip:	Kentucky 41224								
115	Name:	Fire Hydrant								
	Address:	Cold Water Road Route 908								
	City:	Inez								<input checked="" type="checkbox"/> x Fire Hydrant at the end of Asbestos Line
	State/Zip:	Kentucky 41224								
116	Name:	Otto Brown Pump Station								
	Address:	Eli Road Route 3								
	City:	Inez								<input checked="" type="checkbox"/> x Pumping Station at the end of Asbestos Line
	State/Zip:	Kentucky 41224								

Prepared By: Earl T. Alley

Date: 05-11-2011

Page 1 of 1



## Specific Site Information Bacteriological and MRDL Monitoring Plan

PWSID: 0800273  
 Name: Martin County Water District  
 Address: 387 East Main Street , Suit 140  
 City/State/Zip: Inez Kentucky 41224  
 County: Martin

Service  
 Connections: 3606  
 System  
 Population  
 Served: 10,457

Revised: \_\_\_\_\_ OR New: x

Sampling Site No.	Sampling Site Location		Type of Facility			
103	<b>Name:</b>	Earl T. Alley	<b>Residential:</b>	<input checked="" type="checkbox"/>	<b>Medical:</b>	<input type="checkbox"/>
	<b>Address:</b>	169 Williams Branch	<b>Commercial:</b>	<input type="checkbox"/>	<b>Public Bldg:</b>	<input type="checkbox"/>
	<b>City:</b>	Warfield	<b>School:</b>	<input type="checkbox"/>		
	<b>State/Zip:</b>	Kentucky 41267	<b>Other (specify):</b>	<input type="checkbox"/>		
104	<b>Name:</b>	Wendell Stanley	<b>Residential:</b>	<input checked="" type="checkbox"/>	<b>Medical:</b>	<input type="checkbox"/>
	<b>Address:</b>	PO Box 181	<b>Commercial:</b>	<input type="checkbox"/>	<b>Public Bldg:</b>	<input type="checkbox"/>
	<b>City:</b>	Beauty	<b>School:</b>	<input type="checkbox"/>		
	<b>State/Zip:</b>	Kentucky 41203	<b>Other (specify):</b>	<input type="checkbox"/>		
105	<b>Name:</b>	Maurice Mills	<b>Residential:</b>	<input checked="" type="checkbox"/>	<b>Medical:</b>	<input type="checkbox"/>
	<b>Address:</b>	2026 Rockhouse Road	<b>Commercial:</b>	<input type="checkbox"/>	<b>Public Bldg:</b>	<input type="checkbox"/>
	<b>City:</b>	Tomahawk	<b>School:</b>	<input type="checkbox"/>		
	<b>State/Zip:</b>	Kentucky 41262	<b>Other (specify):</b>	<input type="checkbox"/>		
106	<b>Name:</b>	Warfield Middle School	<b>Residential:</b>	<input type="checkbox"/>	<b>Medical:</b>	<input type="checkbox"/>
	<b>Address:</b>	130 Middle School Drive PO Box 366	<b>Commercial:</b>	<input type="checkbox"/>	<b>Public Bldg:</b>	<input type="checkbox"/>
	<b>City:</b>	Inez	<b>School:</b>	<input checked="" type="checkbox"/>		
	<b>State/Zip:</b>	Kentucky 41224	<b>Other (specify):</b>	<input type="checkbox"/>		
107	<b>Name:</b>	Fast Lane #2	<b>Residential:</b>	<input type="checkbox"/>	<b>Medical:</b>	<input type="checkbox"/>
	<b>Address:</b>	512 Blacklog Road PO Box 248	<b>Commercial:</b>	<input type="checkbox"/>	<b>Public Bldg:</b>	<input checked="" type="checkbox"/>
	<b>City:</b>	Lovely	<b>School:</b>	<input type="checkbox"/>		
	<b>State/Zip:</b>	Kentucky 41231	<b>Other (specify):</b>	<input type="checkbox"/>		

Prepared By: Earl T. Alley  
 Date: 09 - 16 - 2010

Page 1 of 2

## Specific Site Information Bacteriological and MRDL Monitoring Plan

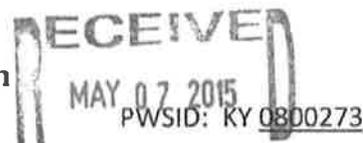
PWSID: 0800273  
 Name: Martin County Water District  
 Address: 387 East Main Street, Suite 140  
 City/State/Zip: Inez Kentucky 41224  
 County: Martin

Service  
 Connections: 3,606  
 System  
 Population  
 Served: 10,457

Revised: \_\_\_\_\_ OR New: x

Sampling Site No.	Sampling Site Location	Type of Facility	
108	<b>Name:</b> Beauty Post Office	<b>Residential:</b>	<b>Medical:</b>
	<b>Address:</b> 7815 Beauty Road	<b>Commercial:</b>	
	<b>City:</b> Beauty	<b>School:</b>	<b>Public Bldg:</b> x
	<b>State/Zip:</b> Kentucky 41203	<b>Other (specify):</b>	
109	<b>Name:</b> Josh Williams	<b>Residential:</b> x	<b>Medical:</b>
	<b>Address:</b> 127 Ralph Williams Road	<b>Commercial:</b>	
	<b>City:</b> Inez	<b>School:</b>	<b>Public Bldg:</b>
	<b>State/Zip:</b> Kentucky 41224	<b>Other (specify):</b>	
110	<b>Name:</b> 292 Pumping Station	<b>Residential:</b>	<b>Medical:</b>
	<b>Address:</b> Route 292 South	<b>Commercial:</b>	
	<b>City:</b> Lovely	<b>School:</b>	<b>Public Bldg:</b>
	<b>State/Zip:</b> Kentucky 41231	<b>Other (specify):</b>	x Martin County Water Pumping Station
111	<b>Name:</b> Adkins Miners Mart	<b>Residential:</b>	<b>Medical:</b>
	<b>Address:</b> PO Box 118	<b>Commercial:</b>	
	<b>City:</b> Pilgrim	<b>School:</b>	<b>Public Bldg:</b> x
	<b>State/Zip:</b> Kentucky 41250	<b>Other (specify):</b>	
	<b>Name:</b>	<b>Residential:</b>	<b>Medical:</b>
	<b>Address:</b>	<b>Commercial:</b>	
	<b>City:</b>	<b>School:</b>	<b>Public Bldg:</b>
	<b>State/Zip:</b>	<b>Other (specify):</b>	

## Kentucky Division of Water Operational Evaluation Reporting Form



Facility Name: Martin County Water District

The Stage 2 Operational Evaluation Level (OEL) process is used to "predict" TTHM and HAA5 results for the next compliance period. It provides a water system with a process for evaluating their entire system to identify ways to reduce future TTHM and HAA5 levels and avoid non-compliance.

- Once 3 quarters of Stage 2 DBP data is available and every quarter from that time on, Page 1 of this form is to be used to determine if one or more of the compliance monitoring sites have exceeded the Operational Evaluation Levels (OEL) for TTHM and/or HAA5. Use additional pages as needed.
- If the calculated OEL for any site exceeds the MCL, you shall complete Page 2 and submit it to the State no later than 90 days following the end of the quarter. This report includes an examination of system treatment and distribution practices, including storage tank operations, excess storage capacity, distribution system flushing, changes in sources or source water quality, and treatment changes or problems that may contribute to TTHM and HAA5 formation and what steps could be considered to minimize future exceedances.
- Unless the State has issued a written approval limiting the scope of the operational evaluation, Page 2 should be entirely completed.

Date of OEL Report: 04/22/15

Date of written approval for limited evaluation (if applicable): \_\_\_\_\_

Site ID	Analyte	Results from 3rd Qtr. 2014 (Two Quarters Ago)	Results from 4th Qtr. 2014 (Previous Quarter)	Results from 1st Qtr. 2015 (Current Quarter)	Operation Evaluation Level (OEL)	Check if Column D Exceeds 0.080 mg/L for TTHMs or 0.060 mg/L for HAA5—if so, complete Page 2 and submit to DOW
		A	B	C	D= (A+B+(2*C))/4	
SM8	TTHM	0.178	0.053	0.039	0.077	<input type="checkbox"/>
	HAA5	0.095	0.099	0.057	0.077	<input checked="" type="checkbox"/>
SM7	TTHM	0.173	0.078	0.036	0.081	<input checked="" type="checkbox"/>
	HAA5	0.046	0.128	0.062	0.075	<input checked="" type="checkbox"/>
118	TTHM	0.155	0.049	0.030	0.066	<input type="checkbox"/>
	HAA5	0.102	0.098	0.030	0.065	<input checked="" type="checkbox"/>
119	TTHM	0.158	0.040	0.044	0.072	<input type="checkbox"/>
	HAA5	0.090	0.078	0.056	0.070	<input checked="" type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>

**Sample Collection and Handling**

Were all TTHM and HAA5 samples collected and handled using proper SOPs? Yes  No

Who collected the samples? PWS  Contract Lab

Did sample collection and handling factors contribute to exceedance? Yes  No

Other/Explain: \_\_\_\_\_

**Source Quality**

Did source water quality factors contribute to exceedance? Yes  No

(check all that apply)

- Point or non-point source contamination
- Storage time longer than normal
- Heavy Rainfall or snowmelt
- New source placed on-line
- Algae bloom in source water
- Lake or reservoir turnover
- Stream flow rates/reservoir level higher than normal
- Stream flow rates/reservoir level lower than normal
- Long term drought

Other/Explain: \_\_\_\_\_

**Treatment Change/Problems**

Did water treatment factors contribute to exceedance? Yes  No

(check all that apply)

- Problem with clearwell operation
- Increased filter effluent turbidity
- Filters operated beyond capacity
- Abnormal influent turbidity
- Coagulation/sedimentation problems
- Excessive filter run-time
- Abnormal influent temperature
- Abnormal flow rates/short-circuiting
- TOC removal problems
- Pre-disinfectant added/changed
- Sludge blanket/carryover problems
- Abnormal pH/Alkalinity
- Disinfectant feed higher than normal

Other/Explain: \_\_\_\_\_

**Distribution System**

Did distribution system factors contribute to exceedance? Yes  No

(check all that apply)

- Flushing (routine or compliant)
- Fires or hydraulic disturbance
- Valves operated in vicinity
- Disinfectant residual lower than normal
- High volume customer usage
- Breaks or line replacements
- Disinfectant residual higher than normal
- Water temperature higher than normal
- Booster chlorination
- Water quality at Master Meter exceeds MCL
- Low volume customer usage (contributing to high water age)

Other/Explain: \_\_\_\_\_

**Storage Tank Operations**

Did water storage operations/factors contribute to exceedance? Yes  No

(check all that apply)

- Tank removed from service
- Tank upstream from sample site
- Excessive storage capacity
- Tank cleaned/maintenance
- Operated "last in -first out"
- Excessive ambient temperature
- Excessive tank draw-down
- Improper level fluctuations
- Disinfectant residual low in tank

Other/Explain: \_\_\_\_\_

**Additional Comments**

Adjustments being made to treatment process. Instructed by DOW personnel to begin feeding carbon.

Assistance being received for corrective action plan and treatment plant optimization.

\_\_\_\_\_

Completed By: Earl T Alley  
(Printed Name)

Plant Manager  
(Title)

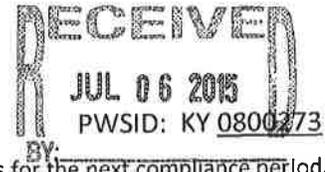
Earl T. Alley  
(Signature)

Phone: 606-298-7439 ext 5

E-mail: etalley47@gmail.com

Date: 04/30/15

## Kentucky Division of Water Operational Evaluation Reporting Form



Facility Name: Martin County Water District

The Stage 2 Operational Evaluation Level (OEL) process is used to "predict" TTHM and HAA5 results for the next compliance period. It provides a water system with a process for evaluating their entire system to identify ways to reduce future TTHM and HAA5 levels and avoid non-compliance.

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Date of OEL Report: 04/22/15

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Site ID	Analyte	Results from 3rd Qtr. 2014 (Two Quarters Ago)	Results from 4th Qtr. 2014 (Previous Quarter)	Results from 1st Qtr. 2015 (Current Quarter)	Operation Evaluation Level (OEL)	Check If Column D Exceeds 0.080 mg/L for TTHMs or 0.060 mg/L for HAA5—If so, complete Page 2 and submit to DOW
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	HAA5	0.095	0.099	0.057	0.077	<input checked="" type="checkbox"/>
SM7	TTHM	0.173	0.078	0.036	0.081	<input checked="" type="checkbox"/>
	HAA5	0.046	0.128	0.062	0.075	<input checked="" type="checkbox"/>
118	TTHM	0.155	0.049	0.030	0.066	<input type="checkbox"/>
	HAA5	0.102	0.098	0.030	0.065	<input checked="" type="checkbox"/>
119	TTHM	0.158	0.040	0.044	0.072	<input type="checkbox"/>
	HAA5	0.090	0.078	0.056	0.070	<input checked="" type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>

**Sample Collection and Handling**

Were all TTHM and HAA5 samples collected and handled using proper SOPs? Yes  No

Who collected the samples? PWS  Contract Lab

Did sample collection and handling factors contribute to exceedance? Yes  No

Other/Explain: \_\_\_\_\_

**Source Quality**

Did source water quality factors contribute to exceedance? Yes  No

(check all that apply)

- Point or non-point source contamination
- Storage time longer than normal
- Heavy Rainfall or snowmelt
- New source placed on-line
- Algae bloom in source water
- Lake or reservoir turnover
- Stream flow rates/reservoir level higher than normal
- Stream flow rates/reservoir level lower than normal
- Long term drought

Other/Explain: \_\_\_\_\_

**Treatment Change/Problems**

Did water treatment factors contribute to exceedance? Yes  No

(check all that apply)

- Problem with clearwell operation
- Increased filter effluent turbidity
- Filters operated beyond capacity
- Abnormal influent turbidity
- Coagulation/sedimentation problems
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- Abnormal pH/Alkalinity
- Disinfectant feed higher than normal

Other/Explain: \_\_\_\_\_

**Distribution System**

Did distribution system factors contribute to exceedance? Yes  No

(check all that apply)

- Flushing (routine or compliant)
- Fires or hydraulic disturbance
- Valves operated in vicinity
- Disinfectant residual lower than normal
- High volume customer usage
- Breaks or line replacements
- Disinfectant residual higher than normal
- Water temperature higher than normal
- Booster chlorination
- Water quality at Master Meter exceeds MCL
- Low volume customer usage (contributing to high water age)

Other/Explain: \_\_\_\_\_

**Storage Tank Operations**

Did water storage operations/factors contribute to exceedance? Yes  No

(check all that apply)

- Tank removed from service
- Tank upstream from sample site
- Excessive storage capacity
- Tank cleaned/maintenance
- Operated "last in -first out"
- Excessive ambient temperature
- Excessive tank draw-down
- Improper level fluctuations
- Disinfectant residual low in tank

Other/Explain: \_\_\_\_\_

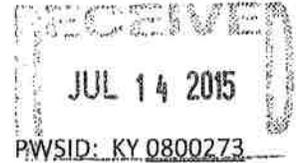
**Additional Comments**

Adjustments being made to treatment process. Instructed by DOW personnel to begin feeding carbon.  
Assistance being received for corrective action plan and treatment plant optimization.  
\_\_\_\_\_

Completed By: Earl T Alley Plant Manager Earl T Alley  
(Printed Name) (Title) (Signature)

Phone: 606-298-7439 ext 5 E-mail: etalley47@gmail.com Date: 04/30/15

## Kentucky Division of Water Operational Evaluation Reporting Form



Facility Name: Martin County Water District

The Stage 2 Operational Evaluation Level (OEL) process is used to "predict" TTHM and HAA5 results for the next compliance period. It provides a water system with a process for evaluating their entire system to identify ways to reduce future TTHM and HAA5 levels and avoid non-compliance.

- Once 3 quarters of Stage 2 DBP data is available and every quarter from that time on, Page 1 of this form is to be used to determine if one or more of the compliance monitoring sites have exceeded the Operational Evaluation Levels (OEL) for TTHM and/or HAA5. Use additional pages as needed.
- If the calculated OEL for any site exceeds the MCL, you shall complete Page 2 and submit it to the State no later than 90 days following the end of the quarter. This report includes an examination of system treatment and distribution practices, including storage tank operations, excess storage capacity, distribution system flushing, changes in sources or source water quality, and treatment changes or problems that may contribute to TTHM and HAA5 formation and what steps could be considered to minimize future exceedances.
- Unless the State has issued a written approval limiting the scope of the operational evaluation, Page 2 should be entirely completed.

Date of OEL Report: 07/06/15 Date of written approval for limited evaluation (if applicable): \_\_\_\_\_

Site ID	Analyte	Results from 4th Qtr. 2014 (Two Quarters Ago)	Results from 1st Qtr. 2015 (Previous Quarter)	Results from 2nd Qtr. 2015 (Current Quarter)	Operation Evaluation Level (OEL)	Check If Column D Exceeds 0.080 mg/L for TTHMs or 0.060 mg/L for HAA5—If so, complete Page 2 and submit to DOW
		A	B	C	D= (A+B+(2*C))/4	
SM8	TTHM	0.053	0.039	0.049	0.048	<input type="checkbox"/>
	HAA5	0.099	0.057	0.056	0.067	<input checked="" type="checkbox"/>
SM7	TTHM	0.078	0.036	0.064	0.061	<input checked="" type="checkbox"/>
	HAA5	0.128	0.062	0.066	0.081	<input checked="" type="checkbox"/>
118	TTHM	0.049	0.030	0.119	0.079	<input type="checkbox"/>
	HAA5	0.098	0.030	0.037	0.051	<input type="checkbox"/>
119	TTHM	0.040	0.044	0.054	0.048	<input type="checkbox"/>
	HAA5	0.078	0.056	0.057	0.062	<input checked="" type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>

**Sample Collection and Handling**

Were all TTHM and HAA5 samples collected and handled using proper SOPs? Yes  No

Who collected the samples? PWS  Contract Lab

Did sample collection and handling factors contribute to exceedance? Yes  No

Other/Explain: \_\_\_\_\_

**Source Quality**

Did source water quality factors contribute to exceedance? Yes  No

(check all that apply)

- Point or non-point source contamination
- Storage time longer than normal
- Heavy Rainfall or snowmelt
- New source placed on-line
- Algae bloom in source water
- Lake or reservoir turnover
- Stream flow rates/reservoir level higher than normal
- Stream flow rates/reservoir level lower than normal
- Long term drought

Other/Explain: \_\_\_\_\_

**Treatment Change/Problems**

Did water treatment factors contribute to exceedance? Yes  No

(check all that apply)

- Problem with clearwell operation
- Increased filter effluent turbidity
- Filters operated beyond capacity
- Abnormal influent turbidity
- Coagulation/sedimentation problems
- Excessive filter run-time
- Abnormal influent temperature
- Abnormal flow rates/short-circuiting
- TOC removal problems
- Pre-disinfectant added/changed
- Sludge blanket/carryover problems
- Abnormal pH/Alkalinity
- Disinfectant feed higher than normal

Other/Explain: \_\_\_\_\_

**Distribution System**

Did distribution system factors contribute to exceedance? Yes  No

(check all that apply)

- Flushing (routine or compliant)
- Fires or hydraulic disturbance
- Valves operated in vicinity
- Disinfectant residual lower than normal
- High volume customer usage
- Breaks or line replacements
- Disinfectant residual higher than normal
- Water temperature higher than normal
- Booster chlorination
- Water quality at Master Meter exceeds MCL
- Low volume customer usage (contributing to high water age)

Other/Explain: \_\_\_\_\_

**Storage Tank Operations**

Did water storage operations/factors contribute to exceedance? Yes  No

(check all that apply)

- Tank removed from service
- Tank upstream from sample site
- Excessive storage capacity
- Tank cleaned/maintenance
- Operated "last in -first out"
- Excessive ambient temperature
- Excessive tank draw-down
- Improper level fluctuations
- Disinfectant residual low in tank

Other/Explain: \_\_\_\_\_

**Additional Comments**

Adjustments being made to treatment process. Instructed by DOW personnel to begin feeding carbon.

Assistance being received for corrective action plan and treatment plant optimization.

Completed By: Earl T Alley  
(Printed Name)

Plant Manager  
(Title)

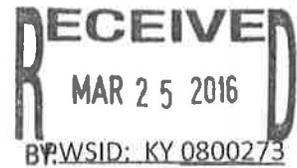
Earl T Alley  
(Signature)

Phone: 606-298-7439 ext 5

E-mail: etalley47@bellsouth.net

Date: 02/08/15

## Kentucky Division of Water Operational Evaluation Reporting Form



Facility Name: Martin County Water District

The Stage 2 Operational Evaluation Level (OEL) process is used to "predict" TTHM and HAA5 results for the next compliance period. It provides a water system with a process for evaluating their entire system to identify ways to reduce future TTHM and HAA5 levels and avoid non-compliance.

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- Unless the State has issued a written approval limiting the scope of the operational evaluation, Page 2 should be entirely completed.

Date of OEL Report: 03/17/16

Date of written approval for limited evaluation (if applicable): \_\_\_\_\_

Site ID	Analyte	Results from 3rd Qtr. 2015 (Two Quarters Ago)	Results from 4th Qtr. 2015 (Previous Quarter)	Results from 1st Qtr. 2015 (Current Quarter)	Operation Evaluation Level (OEL)	Check If Column D Exceeds 0.080 mg/L for TTHMs or 0.060 mg/L for HAA5—If so, complete Page 2 and submit to DOW
		A	B	C	D= (A+B+(2*C))/4	
SM8	TTHM	0.121	0.098	0.045	0.077	<input type="checkbox"/>
	HAA5	0.067	0.058	0.066	0.064	<input checked="" type="checkbox"/>
SM7	TTHM	0.144	0.101	0.054	0.088	<input checked="" type="checkbox"/>
	HAA5	0.022	0.038	0.063	0.047	<input type="checkbox"/>
118	TTHM	0.107	0.145	0.044	0.085	<input checked="" type="checkbox"/>
	HAA5	0.061	0.045	0.052	0.053	<input type="checkbox"/>
119	TTHM	0.109	0.082	0.036	0.066	<input type="checkbox"/>
	HAA5	0.053	0.052	0.051	0.052	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>

**Sample Collection and Handling**

Were all TTHM and HAA5 samples collected and handled using proper SOPs? Yes  No

Who collected the samples? PWS  Contract Lab

Did sample collection and handling factors contribute to exceedance? Yes  No

Other/Explain: \_\_\_\_\_

**Source Quality**

Did source water quality factors contribute to exceedance? Yes  No

(check all that apply)

- Point or non-point source contamination
- Storage time longer than normal
- Heavy Rainfall or snowmelt
- New source placed on-line
- Algae bloom in source water
- Lake or reservoir turnover
- Stream flow rates/reservoir level higher than normal
- Stream flow rates/reservoir level lower than normal
- Long term drought

Other/Explain: conditions during previous quarters attributed to current MCL violation

**Treatment Change/Problems**

Did water treatment factors contribute to exceedance? Yes  No

(check all that apply)

- Problem with clearwell operation
- Increased filter effluent turbidity
- Filters operated beyond capacity
- Abnormal influent turbidity
- Coagulation/sedimentation problems
- Excessive filter run-time
- Abnormal influent temperature
- Abnormal flow rates/short-circuiting
- TOC removal problems
- Pre-disinfectant added/changed
- Sludge blanket/carryover problems
- Abnormal pH/Alkalinity
- Disinfectant feed higher than normal

Other/Explain: Filter 6 needs repair work and new media.

**Distribution System**

Did distribution system factors contribute to exceedance? Yes  No

(check all that apply)

- Flushing (routine or compliant)
- Fires or hydraulic disturbance
- Valves operated in vicinity
- Disinfectant residual lower than normal
- High volume customer usage
- Breaks or line replacements
- Disinfectant residual higher than normal
- Water temperature higher than normal
- Booster chlorination
- Water quality at Master Meter exceeds MCL
- Low volume customer usage (contributing to high water age)

Other/Explain: \_\_\_\_\_

**Storage Tank Operations**

Did water storage operations/factors contribute to exceedance? Yes  No

(check all that apply)

- Tank removed from service
- Tank upstream from sample site
- Excessive storage capacity
- Tank cleaned/maintenance
- Operated "last in -first out"
- Excessive ambient temperature
- Excessive tank draw-down
- Improper level fluctuations
- Disinfectant residual low in tank

Other/Explain: \_\_\_\_\_

**Additional Comments**

Adjustments being made to treatment process. Instructed by DOW personnel to begin feeding carbon.

Assistance being received for corrective action plan and treatment plant optimization.

Completed By: Earl T Alley  
(Printed Name)

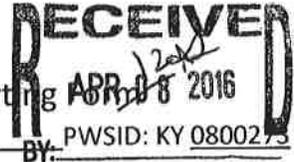
Plant Manager  
(Title)

Earl T. Alley  
(Signature)

Phone: 606-298-7439 ext 5

E-mail: etalley47@bellsouth.net

Date: 3/22/16



## Kentucky Division of Water Operational Evaluation Reporting Form

Facility Name: Martin County Water District

The Stage 2 Operational Evaluation Level (OEL) process is used to "predict" ITHM and HAAS results for the next compliance period. It provides a water system with a process for evaluating their entire system to identify ways to reduce future TTHM and HAAS levels and avoid non-compliance.

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Date of OEL Report: 03/17/16

Date of written approval for limited evaluation (if applicable): \_\_\_\_\_

Site ID	Analyte	from 3rd Qtr. 2015	from 4th Qtr. 2015 (Previous Quarter)	Results from 1st Qtr. 2016 (Current Quarter)	Operation Evaluation Level	Check If Column D Exceeds 0.080 mg/L for TTHMs or 0.060 mg/L for HAA5—If so, complete Page 2 and submit to DOW
		Quarters Ago)			$D = (A+B+(2*C))/4$	
SM8	TTHM	0.121	0.098	0.045	0.077	
	HAA5	0.067	0.058	0.066	0.054	
SM7	TTHM		0.101	0.054	0.088	
	HAAS	0.022	0.038		0.047	
118	TTHM		0.145	0.044	0.085	
	HAA5	0.061	0.045	0.052	0.053	
119	TTHM		0.082	0.036	0.065	
	HAA5	0.053	0.052	0.051	0.052	
	TTHM				0.000	
	HAAS					
	TTHM				0.000	
	TTHM				0.000	
	HAAS				0.000	
	TTHM				0.000	
	HAAS				0.000	
	ITHM				0.000	
	HAAS					
	TTHM				0.000	
	HAAS				0.000	

	TTHM				0.000	
	HAAS				0.000	
	TTHM				0.000	
	HAAS				0.000	

Rev. December 2013

Page 1 of 2

Sample Collection and Handling

Were all TTHM and HAAS samples collected and handled using proper SOPs? Yes  No

Who collected the samples? PWS C]  Contract Lab  No

Did sample collection and handling factors contribute to exceedance? Yes C]

Other/Explain:

Source Quali

Did source water quality factors contribute to exceedance? Yes  No

(check all that apply)

C] Point or non-point source contamination  Storage time longer than normal

New source placed on-line  Algae bloom in source water

Stream flow rates/reservoir level higher than normal  Stream flow rates/reservoir level lower than normal

Heavy Rainfall or snowmelt

Lake or reservoir turnover

Long term drought

Other/Explain: conditions during previous quarters attributed to current MCL violation

Treatment Change/Problems

Did water treatment factors contribute to exceedance? Yes  No

(check all that apply)

Problem with clearwell operation  Increased filter effluent turbidity  Filters operated beyond capacity

Abnormal influent turbidity  Coagulation/sedimentation problems  Excessive filter run-time

Abnormal influent temperature  Abnormal flow rates/short-circuiting  TOC removal problems

C] Pre-disinfectant added/changed  Sludge blanket/carryover problems  Abnormal pH/Alkalinity

C] Disinfectant feed higher than normal

Other/Explain: Filter 6 needs repair work and new media.

Distribution System

Did distribution system factors contribute to exceedance? Yes  No

(check all that apply)

Flushing (routine or compliant)  Leaks or hydraulic disturbance  Valves operated in vicinity

Disinfectant residual lower than normal  High volume customer usage  Breaks or line replacements

Disinfectant residual higher than normal  Water temperature higher than normal  Booster chlorination

Water quality at Master Meter exceeds MCL  Low volume customer usage (contributing to high water age)

Other/Explain:

Storage Tank Operations

Did water storage operations/factors contribute to exceedance? Yes  NO

Tank removed from service  Tank upstream from sample site

Tank cleaned/maintenance  C] Operated "last in --first out"  Excessive storage capacity

Excessive tank draw-down  Improper level fluctuations

Other/Explain:  C] Excessive ambient temperature  Disinfectant residual low in tank

AdditionalComments

Adjustments being made to treatment process. Instructed by DOW personnel to begin feeding carbon.  
Assistance being received for corrective action plan and treatment plant optimization.

Completed By: Earl T Alley  
(Printed Name)

Plant Manager  
(Title)

Earl T. Alley  
(Signature)

Phone: 606-298-7439 ext 5

E-mail: etalley47@bellsouth.net

Date: 3/22/16

Completed By: Earl T Alley

Phone: 606-298-7439 ext 5

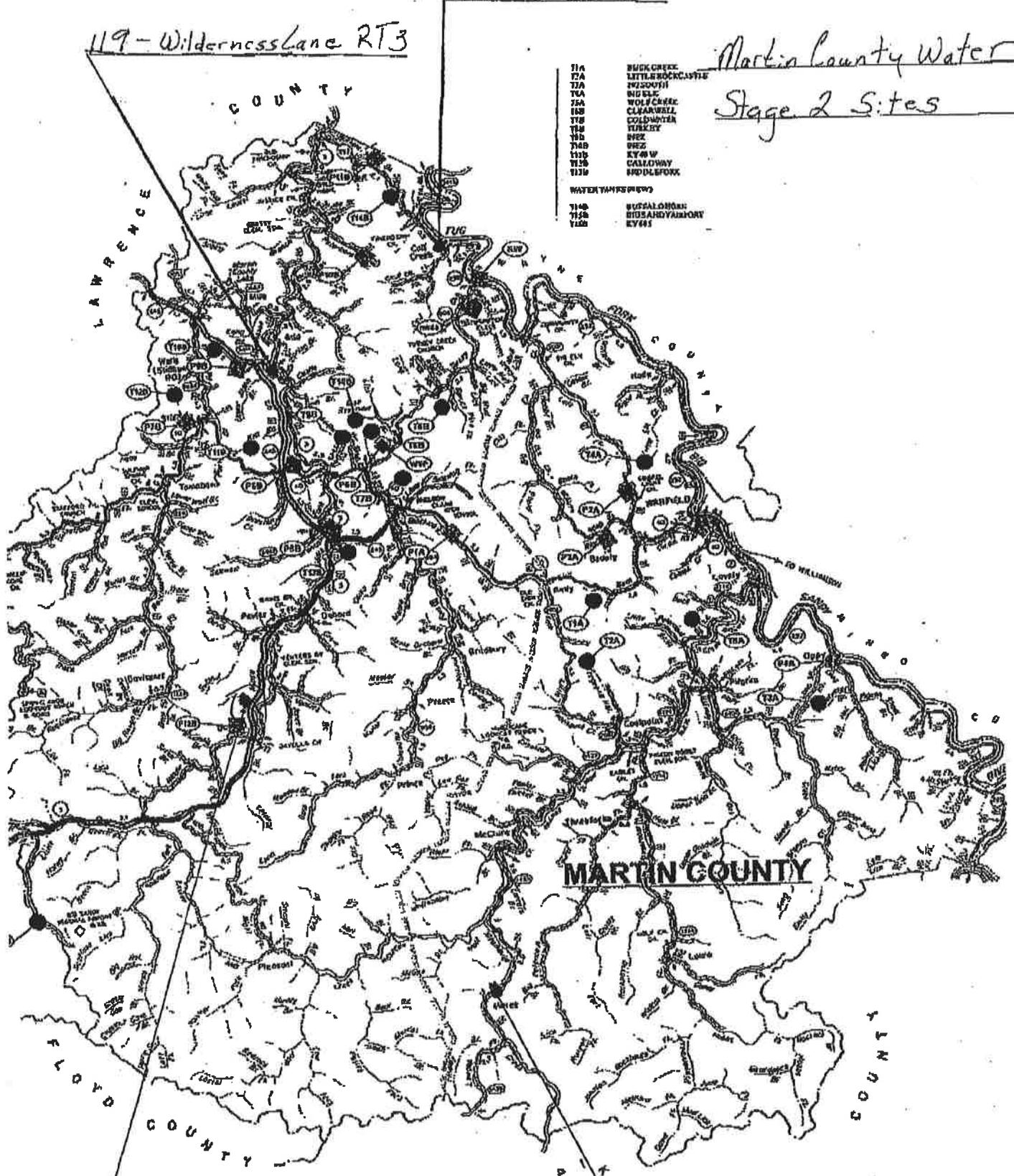
E-mail: etalkY47@bellsouth.net

SM8- Calf Creek

119- Wilderness Lane RT3

Martin County Water  
Stage 2 Sites

- 71A BUCK CREEK
  - 72A LITTLE ROCKCASTLE
  - 73A WILD CREEK
  - 74A WILD CREEK
  - 75A WILD CREEK
  - 76A CLEARWELL
  - 77A COLDWATER
  - 78A TURKEY
  - 79A BEEZ
  - 79AB BEEZ
  - 79B KY 40 W
  - 79C CALLOWAY
  - 79D WOODFORK
- WATER TAPES (NEW)
- 71AB BUCKALOON
  - 715B BUCKALOON
  - 715C BUCKALOON



118- Babs DeLong Rd RT3

SM7- Meat House

Martin County Water District Treatment Plant  
14 Flat Hollow, Inez KY 41224  
606 - 298 - 7439

Revised Stage 2 Monitoring Sites

1. SM7 - Booster Pump on RT 1439, Meathouse
2. SM8 - Hydrant on Rt 292 North , Calf Creek
3. 118 - Hydrant on Babe DeLong Road , Rt 3 South
4. 119 - Hydrant at Wilderness Lane , Rt 3 North

## Specific Site Information Bacteriological and MRDL Monitoring Plan

PWSID: KY 0800273  
 Name: Martin County Water District  
 Address: 387 East Main Street, Suite 140  
 City/State/Zip: Inez KY, 41224  
 County: Martin

Service  
 Connections: 3,249  
 System  
 Population  
 Served: 10,472

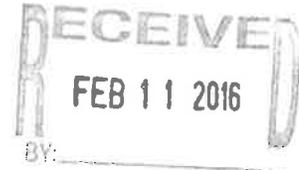
Revised: \_\_\_\_\_ OR New: x

Sampling Site No.	Sampling Site Location	Type of Facility
-------------------	------------------------	------------------

120	<b>Name:</b> Raymond F Jude	<b>Residential:</b> <input checked="" type="checkbox"/>	<b>Medical:</b> <input type="checkbox"/>
	<b>Address:</b> 448 North Wolf Creek Road	<b>Commercial:</b> <input type="checkbox"/>	<b>Public Bldg:</b> <input type="checkbox"/>
	<b>City:</b> Pilgrim	<b>School:</b> <input type="checkbox"/>	<b>Other (specify):</b> <input type="checkbox"/>
	<b>State/Zip:</b> Kentucky, 41250		
121	<b>Name:</b> Phillip & Linda Muncy	<b>Residential:</b> <input checked="" type="checkbox"/>	<b>Medical:</b> <input type="checkbox"/>
	<b>Address:</b> 6348 Meathouse Road	<b>Commercial:</b> <input type="checkbox"/>	<b>Public Bldg:</b> <input type="checkbox"/>
	<b>City:</b> Pilgrim	<b>School:</b> <input type="checkbox"/>	<b>Other (specify):</b> <input type="checkbox"/>
	<b>State/Zip:</b> Kentucky, 41250		
122	<b>Name:</b> James T Maynard	<b>Residential:</b> <input checked="" type="checkbox"/>	<b>Medical:</b> <input type="checkbox"/>
	<b>Address:</b> 7112 Beauty Road	<b>Commercial:</b> <input type="checkbox"/>	<b>Public Bldg:</b> <input type="checkbox"/>
	<b>City:</b> Beauty	<b>School:</b> <input type="checkbox"/>	<b>Other (specify):</b> <input type="checkbox"/>
	<b>State/Zip:</b> Kentucky, 41203		
123	<b>Name:</b> John L Stafford	<b>Residential:</b> <input checked="" type="checkbox"/>	<b>Medical:</b> <input type="checkbox"/>
	<b>Address:</b> 16 Alpha Branch	<b>Commercial:</b> <input type="checkbox"/>	<b>Public Bldg:</b> <input type="checkbox"/>
	<b>City:</b> Inez	<b>School:</b> <input type="checkbox"/>	<b>Other (specify):</b> <input type="checkbox"/>
	<b>State/Zip:</b> Kentucky, 41224		
124	<b>Name:</b> Joe & Annie Hammond	<b>Residential:</b> <input checked="" type="checkbox"/>	<b>Medical:</b> <input type="checkbox"/>
	<b>Address:</b> 21 Murray Road	<b>Commercial:</b> <input type="checkbox"/>	<b>Public Bldg:</b> <input type="checkbox"/>
	<b>City:</b> Inez	<b>School:</b> <input type="checkbox"/>	<b>Other (specify):</b> <input type="checkbox"/>
	<b>State/Zip:</b> Kentucky, 41224		

Prepared By: Earl T Alley  
 Date: 02/26/2016

Page 1 of 1



Revised 01/04/07

KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH  
MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 01/2016 Indicate one with "X"  
 SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>02/08/2016</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Timothy D Reed / Elbert Osborne</u>	<u>1V-A / 11-A</u>	<u>24590 / 27800</u>	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- DESIGN CAPACITY (gpm): 1,667
- TYPE OF FILTRATION USED: Dual Media
- DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
- PERCENT BACKWASH WATER USED: 0.9
- DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
- DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

02/08/2016  
DATE

12

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 01/2018  
 PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	LBS	PPM	Pre		Post	
									LBS	PPM	LBS	PPM
1	1,871,000	24.0	155.0	9.9					254.6	16.3	170.5	10.9
2	1,838,000	24.0	155.0	10.1					258.4	16.9	161.9	10.6
3	1,858,000	24.0	155.0	10.0					265.6	17.1	147.6	9.5
4	1,829,000	24.0	155.0	10.2					251.8	16.5	169.2	11.1
5	1,839,000	24.0	155.0	10.1					251.8	16.4	163.4	10.7
6	1,854,000	24.0	155.0	10.0					251.8	16.3	159.8	10.3
7	1,884,000	24.0	155.0	9.9					254.6	16.2	159.8	10.2
8	1,823,000	24.0	155.0	10.2					251.0	16.5	159.8	10.5
9	1,860,000	24.0	155.0	10.0					254.6	16.4	159.8	10.3
10	1,813,000	24.0	155.0	10.3					245.8	16.3	159.8	10.6
11	1,872,000	24.0	155.0	9.9					251.8	16.1	159.8	10.2
12	1,847,000	24.0	155.0	10.1					240.0	15.6	159.8	10.4
13	1,868,000	24.0	155.0	9.9					251.9	16.2	159.8	10.3
14	1,840,000	24.0	155.0	10.1					254.6	16.6	159.8	10.4
15	1,913,000	24.0	155.0	9.7					240.0	15.0	159.8	10.0
16	1,877,000	24.0	155.0	9.9					240.0	15.3	159.8	10.2
17	1,906,000	24.0	155.0	9.8					240.0	15.1	159.8	10.1
18	1,890,000	24.0	155.0	9.8					254.6	16.2	159.8	10.1
19	1,927,000	24.0	155.0	9.6					251.8	15.7	159.8	9.9
20	1,902,000	24.0	155.0	9.8					240.0	15.1	159.8	10.1
21	1,953,000	24.0	155.0	9.5					240.0	14.7	159.8	9.8
22	1,960,000	24.0	155.0	9.5					240.0	14.7	159.8	9.8
23	1,933,000	24.0	155.0	9.6					237.5	14.7	180.3	11.2
24	1,892,000	24.0	155.0	9.8					251.8	16.0	183.1	11.6
25	1,941,000	24.0	155.0	9.6					254.6	15.7	170.7	10.5
26	1,928,000	24.0	155.0	9.6					240.0	14.9	169.2	10.5
27	1,921,000	24.0	155.0	9.7					240.0	15.0	169.2	10.6
28	1,949,000	24.0	155.0	9.5					254.6	15.7	163.4	10.1
29	1,922,000	24.0	155.0	9.7					240.0	15.0	159.8	10.0
30	1,947,000	24.0	155.0	9.5					257.6	15.9	159.8	9.8
31	1,900,000	24.0	155.0	9.8					254.6	16.1	159.8	10.1
TOTAL	58,557,000		4805.0		0.0		0.0		7715.4		5044.5	
AVERAGE	1,888,935		155.0	9.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	248.9	15.8	162.7	10.3
MAX	1,960,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 01/2016

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.83	7.86	7.78	145	155	216	216	0.78	0.65	1.89	1.79	2.16	0.45	0.06
2	7.82	7.90	7.82	155	160	232	226	0.80	0.69	1.83	1.71	2.11	0.40	0.06
3	7.82	7.82	7.74	142	146	232	222	0.80	0.67	1.81	1.71	2.04	0.30	0.06
4	7.73	7.84	7.75	165	160	225	220	0.71	0.60	1.82	1.72	1.98	0.34	0.06
5	7.73	7.86	7.78	145	142	230	222	0.80	0.69	1.88	1.78	1.91	0.45	0.06
6	7.81	7.85	7.78	145	142	220	225	0.81	0.67	1.81	1.73	1.83	0.35	0.06
7	7.72	7.82	7.75	140	143	215	212	0.80	0.69	1.84	1.73	1.94	0.33	0.06
8	7.74	7.77	7.70	143	138	212	209	0.76	0.64	1.82	1.72	1.72	0.25	0.06
9	7.76	7.80	7.70	135	132	210	207	0.79	0.66	1.89	1.79	1.45	0.25	0.06
10	7.75	7.78	7.69	131	136	215	222	0.83	0.73	1.91	1.81	1.41	0.28	0.05
11	7.65	7.80	7.71	135	132	210	204	0.73	0.63	1.88	1.77	1.34	0.40	0.06
12	7.80	7.84	7.76	135	130	210	206	0.81	0.72	1.86	1.79	1.87	0.37	0.07
13	7.77	7.83	7.76	135	130	210	205	0.84	0.74	1.87	1.78	1.91	0.38	0.05
14	7.79	7.85	7.77	135	132	200	197	0.77	0.68	1.80	1.73	2.03	0.33	0.06
15	7.77	7.82	7.73	135	132	205	198	0.85	0.75	1.85	1.75	1.98	0.33	0.07
16	7.80	7.84	7.75	132	138	210	205	0.71	0.60	1.75	1.64	2.04	0.35	0.07
17	7.82	7.82	7.74	128	126	206	212	0.74	0.63	1.81	1.72	2.02	0.32	0.06
18	7.81	7.82	7.78	135	132	205	200	0.76	0.66	1.83	1.76	2.04	0.36	0.06
19	7.78	7.81	7.73	135	128	200	197	0.77	0.68	1.79	1.71	2.02	0.38	0.06
20	7.72	7.79	7.72	135	130	198	200	0.82	0.71	1.79	1.72	1.96	0.40	0.06
21	7.78	7.80	7.72	130	128	205	200	0.80	0.68	1.75	1.67	1.90	0.38	0.06
22	7.78	7.84	7.74	128	130	197	195	0.83	0.71	1.80	1.70	1.85	0.56	0.06
23	7.74	7.80	7.70	123	121	200	197	0.69	0.59	1.71	1.65	1.79	0.44	0.06
24	7.68	7.79	7.69	122	121	201	205	0.80	0.68	1.76	1.69	1.72	0.43	0.07
25	7.67	7.75	7.65	122	120	200	203	0.67	0.56	1.82	1.76	1.66	0.35	0.06
26	7.69	7.74	7.65	128	133	198	192	0.75	0.71	1.77	1.70	1.69	0.29	0.06
27	7.64	7.71	7.64	130	128	200	198	0.72	0.65	1.77	1.71	1.64	0.32	0.06
28	7.66	7.75	7.68	128	126	193	189	0.75	0.68	1.76	1.71	1.62	0.31	0.07
29	7.71	7.70	7.66	124	122	196	189	0.73	0.64	1.77	1.72	1.68	0.31	0.07
30	7.63	7.66	7.56	120	116	198	192	0.73	0.65	1.78	1.72	1.63	0.36	0.06
31	7.58	7.66	7.57	121	121	193	191	0.73	0.64	1.77	1.72	1.64	0.37	0.06
AVERAGE	7.7	7.8	7.7	134	133	208	205	0.77	0.67	1.81	1.73	1.83	0.36	0.06

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 01/2016

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	2.16		0.27	0.83						0.07	0.07	0.07	0.06		0.07
2	2.11		0.22	0.71						0.08	0.07	0.06	0.05		0.06
3	2.04		0.21	0.56						0.07	0.06	0.06	0.04		0.06
4	1.98		0.18	0.66						0.06	0.06	0.07	0.06		0.05
5	1.91		0.22	1.27						0.06	0.05	0.06	0.05		0.06
6	1.83		0.22	0.65						0.08	0.07	0.06	0.05		0.06
7	1.94		0.23	0.67						0.07	0.06	0.05	0.05		0.06
8	1.72		0.22	0.58						0.06	0.05	0.05	0.05		0.06
9	1.45		0.18	0.49						0.06	0.05	0.11	0.12		0.07
10	1.41		0.21	0.70						0.06	0.05	0.06	0.04		0.05
11	1.34		0.23	0.78						0.11	0.11	0.06	0.04		0.08
12	1.87		0.29	0.71						0.07	0.06	0.07	0.15		0.09
13	1.91		0.34	0.88						0.07	0.06	0.07	0.08		0.06
14	2.03		0.28	0.71						0.06	0.05	0.06	0.08		0.05
15	1.98		0.29	0.62						0.12	0.10	0.06	0.09		0.07
16	2.04		0.28	0.59						0.07	0.06	0.07	0.17		0.06
17	2.02		0.27	0.45						0.07	0.06	0.07	0.10		0.06
18	2.04		0.30	0.79						0.10	0.09	0.06	0.05		0.06
19	2.02		0.35	0.80						0.09	0.08	0.06	0.05		0.05
20	1.96		0.42	0.75						0.07	0.06	0.07	0.11		0.05
21	1.90		0.36	0.66						0.07	0.06	0.07	0.07		0.05
22	1.85		0.38	1.24						0.06	0.05	0.06	0.08		0.06
23	1.79		0.36	0.86						0.09	0.08	0.06	0.07		0.06
24	1.72		0.28	0.86						0.08	0.07	0.06	0.11		0.07
25	1.66		0.27	0.67						0.07	0.06	0.14	0.17		0.08
26	1.69		0.28	0.48						0.06	0.05	0.06	0.06		0.05
27	1.64		0.28	0.52						0.09	0.08	0.06	0.07		0.07
28	1.62		0.28	0.56						0.08	0.07	0.06	0.08		0.07
29	1.68		0.27	0.56						0.07	0.06	0.07	0.13		0.07
30	1.63		0.28	0.61						0.07	0.06	0.06	0.06		0.05
31	1.64		0.30	0.60						0.07	0.06	0.06	0.05		0.06
AVERAGE	1.8	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.07	0.07	0.08	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 01/2016

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\*Please answer Y/N question below this chart.

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL			
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP				
1	0.35	0.93	0.06	0.00	0.03	0.01			1.60	0.0	11.1	
2	0.30	0.92	0.06	0.00	0.02	0.01			1.60	0.0	11.0	
3	0.31	0.91	0.08	0.02	0.04	0.02			1.65	0.0	10.8	
4	0.37	0.93	0.06	0.01	0.03	0.02			1.60	0.0	10.9	
5	0.34	0.91	0.04	0.01	0.02	0.01			1.70	0.0	10.8	
6	0.41	0.87	0.08	0.00	0.02	0.00			1.60	0.0	11.1	
7	0.35	0.96	0.05	0.02	0.02	0.02			1.65	0.0	12.1	
8	0.34	0.79	0.04	0.00	0.03	0.01			1.65	0.0	10.6	
9	0.28	0.96	0.00	0.05	0.02	0.01			1.65	0.3	10.2	
10	0.27	0.84	0.07	0.01	0.03	0.02			1.80	0.2	9.9	
11	0.34	0.95	0.05	0.04	0.02	0.01			1.60	0.0	10.2	
12	0.46	0.94	0.04	0.02	0.02	0.01			1.65	0.0	10.2	
13	0.37	0.88	0.07	0.03	0.03	0.01			1.70	0.0	9.5	
14	0.25	0.83	0.13	0.04	0.02	0.02			1.65	0.0	9.9	
15	0.35	0.96	0.12	0.03	0.03	0.01			1.71	0.0	8.6	
16	0.17	0.75	0.12	0.00	0.02	0.00			1.60	0.2	8.5	
17	0.25	0.81	0.11	0.04	0.04	0.01			1.65	0.0	8.1	
18	0.30	0.42	0.07	0.02	0.03	0.01			1.55	0.0	8.3	
19	0.29	0.85	0.01	0.13	0.03	0.00			1.65	0.0	8.9	
20	0.35	0.80	0.12	0.04	0.03	0.01			1.60	0.0	8.0	
21	0.23	0.86	0.00	0.01	0.04	0.02			1.60	0.1	8.4	
22	0.40	0.95	0.04	0.00	0.02	0.01			1.65	0.0	8.5	
23	0.32	0.89	0.10	0.00	0.03	0.02			1.55	1.5	8.1	
24	0.40	0.88	0.07	0.01	0.03	0.01			1.60	0.0	8.2	
25	0.33	0.96	0.09	0.03	0.03	0.02			1.60	0.0	9.3	
26	0.39	0.86	0.03	0.00	0.03	0.03			1.70	0.0	9.2	
27	0.29	0.97	0.12	0.02	0.03	0.01			1.55	0.0	8.8	
28	0.38	0.94	0.07	0.03	0.02	0.02			1.65	0.0	9.1	
29	0.23	0.79	0.01	0.02	0.03	0.02			1.55	0.0	9.8	
30	0.32	0.74	0.08	0.00	0.03	0.02			1.60	0.0	9.5	
31	0.28	1.02	0.11	0.00	0.05	0.01			1.55	0.0	8.7	
AVERAGE	0.32	0.87	0.07	0.02	0.03	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	1.55	Total Rainfall	9.6
									Number of readings	31	2.50	
									For Free Chlorine, # less than 0.2 mg/L	0		
									For Chloramines, # less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N)

N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 01/2016

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DAY	FILTER OPERATION										
	TOTAL WASH WATER GALLONS	No: <u>3</u>		No: <u>4</u>		No: <u>5</u>		No: <u>6</u>		No: _____	
		AREA (square feet)	160	AREA (square feet)	160						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	34,000	17,000	91.40	17,000	91.40						
3	0										
4	34,000					17,000	95.30	17,000	95.30		
5	0										
6	33,000	16,000	98.60	17,000	98.60						
7	0										
8	34,000					17,000	102.50	17,000	102.50		
9	0										
10	34,000	17,000	99.80	17,000	99.80						
11	0										
12	34,000					17,000	91.50	17,000	91.50		
13	0										
14	34,000	17,000	95.70	17,000	95.00						
15											
16	34,000					17,000	95.00	17,000	95.00		
17	0										
18	33,000	16,000	91.20	17,000	91.20						
19	0										
20	34,000					17,000	91.20	17,000	91.20		
21	0										
22	0										
23	35,000	18,000	119.10	17,000	119.10						
24	0										
25	34,000					17,000	103.00	17,000	103.00		
26	0										
27	34,000	17,000	95.10	17,000	95.10						
28	0										
29	34,000					17,000	111.40	17,000	111.40		
30	0										
31	28,000	14,000	99.20	14,000	99.20						
TOTAL	503,000	132,000	790.10	133,000	789.40	119,000	689.90	119,000	689.90	0	0.00
AVERAGE	16,767	16,500	98.763	16,625	98.675	17,000	98.557	17,000	98.557	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 01/2016

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DAY	CHEMICALS ADDED		DISTRIBUTION SYSTEM OPERATION								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TEST RESULTS								
			TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
T	F	T	F	T	F	T	F				
1			1.39	1.34	1.10	1.06	1.69	1.67	1.73	1.65	
2			1.28	1.18	1.32	1.27	1.43	1.39	1.44	1.39	
3			1.84	1.77	1.25	1.17	1.21	1.12	1.57	1.38	
4			1.24	1.15	1.10	1.03	1.21	1.17	1.24	1.19	
5			1.08	0.98	1.45	1.44	1.53	1.46	1.39	1.33	
6			1.44	1.36	1.38	1.30	1.54	1.52	1.23	1.19	
7			1.36	1.26	1.35	1.27	1.43	1.33	1.32	1.17	
8			1.33	1.22	1.29	1.11	1.16	1.05	1.33	1.20	
9			1.93	1.79	1.36	1.26	1.37	1.23	1.40	1.24	
10			1.98	1.81	1.37	1.27	1.31	1.19	1.73	1.55	
11			1.71	1.53	1.46	1.35	1.30	1.20	1.51	1.46	
12			1.24	1.15	1.48	1.42	1.21	1.20	1.24	1.17	
13			1.29	1.21	1.37	1.33	1.42	1.42	1.52	1.49	
14			1.45	1.40	1.51	1.46	1.35	1.26	1.58	1.46	
15			1.31	1.21	1.09	1.02	1.23	1.17	1.47	1.38	
16			1.35	1.13	1.42	1.37	1.27	1.26	0.70	0.66	
17			1.29	1.16	1.35	1.25	1.49	1.37	1.43	1.26	
18			1.27	1.12	1.37	1.34	1.14	1.02	1.09	1.03	
19			1.19	1.10	1.31	1.23	1.21	1.19	1.46	1.43	
20			1.41	1.34	1.45	1.42	1.47	1.44	1.50	1.49	
21			1.39	1.34	1.34	1.22	1.48	1.39	1.47	1.43	
22			1.34	1.27	1.30	1.24	1.24	1.21	1.51	1.49	
23			1.40	1.32	1.36	1.34	1.49	1.42	1.48	1.45	
24			0.40	0.32	1.57	1.49	1.34	1.23	1.34	1.20	
25			1.18	1.12	1.23	1.18	1.26	1.11	1.30	1.25	
26			1.24	1.19	1.34	1.29	1.18	1.13	1.17	1.13	
27			1.37	1.28	1.39	1.34	1.47	1.38	1.63	1.59	
28			1.58	1.57	0.29	0.26	1.36	1.26	1.38	1.30	
29			1.16	1.14	1.18	1.15	1.41	1.30	1.33	1.29	
30			1.41	1.24	0.30	0.23	1.66	1.53	1.57	1.50	
31			1.36	1.30	1.49	1.45	1.56	1.41	1.57	1.53	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.36	1.27	1.28	1.21	1.37	1.29	1.41	1.33
TOTAL	0.0	0.0	Total Minimum	0.40		0.29		1.14		0.70	
			Free Minimum		0.32		0.23		1.02		0.68

Total # Chlorine Samples	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	1	0	2	0	0	0	0	0

Number of Free Residuals	124	Minimum Monthly Free Residual	0.23
Number of Total Residuals	124	Minimum Monthly Total Residual	0.29
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) **N**  
 Number of days of operation? **31**

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

**TURBIDITY REPORT**

PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 01/2016

PAGE:  
8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.066	
2	24.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.057	
3	24.0	6	0.06	0.05	0.04	0.04	0.05	0.04	0.058	
4	24.0	6	0.04	0.04	0.04	0.05	0.04	0.04	0.051	
5	24.0	6	0.04	0.05	0.05	0.05	0.05	0.06	0.055	
6	24.0	6	0.06	0.05	0.05	0.05	0.05	0.06	0.062	
7	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.060	
8	24.0	6	0.06	0.06	0.06	0.06	0.05	0.06	0.061	
9	24.0	6	0.07	0.05	0.05	0.05	0.05	0.05	0.070	
10	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
11	24.0	6	0.08	0.06	0.04	0.04	0.04	0.05	0.075	
12	24.0	6	0.05	0.05	0.05	0.06	0.09	0.06	0.086	
13	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.056	
14	24.0	6	0.05	0.05	0.05	0.04	0.05	0.05	0.050	
15	24.0	6	0.07	0.06	0.05	0.05	0.06	0.06	0.068	
16	24.0	6	0.06	0.06	0.06	0.06	0.06	0.05	0.063	
17	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.057	
18	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.061	
19	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
20	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.054	
21	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.053	
22	24.0	6	0.06	0.05	0.05	0.06	0.06	0.05	0.059	
23	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.056	
24	24.0	6	0.05	0.06	0.05	0.06	0.06	0.07	0.071	
25	24.0	6	0.08	0.06	0.05	0.05	0.05	0.05	0.079	
26	24.0	6	0.05	0.05	0.04	0.05	0.05	0.05	0.051	
27	24.0	6	0.05	0.05	0.04	0.05	0.06	0.07	0.074	
28	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.070	
29	24.0	6	0.07	0.06	0.07	0.07	0.06	0.05	0.066	
30	24.0	6	0.05	0.06	0.05	0.05	0.05	0.05	0.056	
31	24.0	6	0.05	0.05	0.05	0.05	0.06	0.06	0.058	
<b>Total</b>	<b>744.0</b>	<b>186</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>186</b>	<b>0.086</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley 02/08/2016  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

01/2016

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>58,557,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,888,935</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,960,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation <u>744.0</u>		Number of days of plant operation <u>31</u>	
Were samples taken every 4 hours of plant operation? (Y/N) <input checked="" type="checkbox"/> Y		Were samples taken each day of operation? (Y/N) <input checked="" type="checkbox"/> Y	
Number of samples taken <u>186</u>		Number of lowest chlorine samples recorded <u>31</u>	
Highest single turbidity reading <u>0.09</u>		Lowest single chlorine reading <u>1.55</u>	
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU <u>0</u>		Was residual restored within 4 hours of plant operation? (Y/N) <input type="checkbox"/>	
Number of samples exceeded 0.3 NTU <u>0</u>		<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU <u>0</u>		Number of samples under 0.2 mg/L <u>0</u>	
When filtration is slow sand filtration:		<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU _____		Number of samples under 0.5 mg/L _____	
Number of samples exceeded 5 NTU _____			

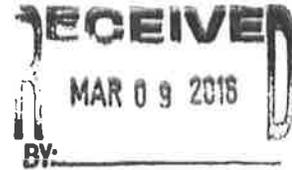
CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation <u>31</u>		Number of days of plant operation <u>31</u>	
Were samples taken each day of operation? (Y/N) <input type="checkbox"/>		Were samples taken each day of operation? (Y/N) <input type="checkbox"/>	
Number of samples taken <u>0</u>		Number of samples taken <u>0</u>	
Highest single chlorine dioxide reading <u>0.00</u>		Highest single chlorite reading <u>0.00</u>	
Number of chlorine dioxide samples exceeded 0.8 mg/L <u>0</u>		Number of chlorite samples exceeded 1 mg/L <u>0</u>	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

02/08/2016  
Date





Revised 01/04/07

KENTUCKY DIVISION OF WATER
DRINKING WATER BRANCH
MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 02/2016

Indicate one with "X" SURFACE WATER [X] GROUNDWATER PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

Form containing fields for PWS ID, PLANT ID, PLANT NAME, PWS NAME, AGENCY INTEREST (AI), SOURCE NAME, OPERATOR(S) RESPONSIBLE / IN-CHARGE, WTP SHIFT 1, 2, 3, and DISTRIBUTION. Includes a warning: THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

TREATMENT PLANTS COMPLETE:

- 1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/eq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.9
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Signature of Earl T. Alley
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

03/04/2016
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 02/2016

PAGE 1

OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,968,000	24.0	155.0	9.4					240.0	14.6	159.8	9.7
2	1,903,000	24.0	155.0	9.8					251.8	15.9	159.8	10.1
3	1,942,000	24.0	155.0	9.6					254.6	15.7	159.8	9.9
4	1,918,000	24.0	155.0	9.7					240.0	15.0	159.8	10.0
5	1,916,000	24.0	155.0	9.7					258.4	16.2	159.8	10.0
6	1,939,000	24.0	155.0	9.6					245.2	15.2	159.8	9.9
7	1,873,000	24.0	155.0	9.9					244.5	15.7	159.8	10.2
8	1,938,000	24.0	155.0	9.6					240.0	14.8	159.8	9.9
9	1,916,000	24.0	155.0	9.7					240.0	15.0	159.8	10.0
10	1,849,000	24.0	155.0	10.1					240.0	15.6	159.8	10.4
11	1,941,000	24.0	155.0	9.6					249.6	15.4	159.8	9.9
12	1,975,000	24.0	155.0	9.4					251.7	15.3	174.4	10.6
13	1,913,000	24.0	155.0	9.7					276.9	17.4	183.2	11.5
14	1,959,000	24.0	155.0	9.5					275.0	16.8	159.8	9.8
15	1,933,000	24.0	155.0	9.6					254.6	15.8	183.1	11.4
16	1,965,000	24.0	193.3	11.8					322.0	19.6	183.1	11.2
17	1,960,000	24.0	193.3	11.8					281.2	17.2	183.1	11.2
18	1,981,000	24.0	193.3	11.7					324.8	19.7	183.1	11.1
19	1,919,000	23.5	189.2	11.8					321.0	20.1	183.1	11.4
20	1,963,000	24.0	193.3	11.8					324.2	19.8	183.2	11.2
21	1,934,000	24.0	193.3	12.0					317.8	19.7	183.1	11.4
22	1,942,000	24.0	193.3	11.9					277.0	17.1	183.1	11.3
23	1,907,000	24.0	193.3	12.2					319.6	20.1	183.1	11.6
24	1,958,000	24.0	193.3	11.8					319.6	19.6	183.1	11.2
25	1,929,000	24.0	193.3	12.0					311.0	19.3	183.1	11.4
26	1,922,000	24.0	213.9	13.3					311.0	19.4	159.8	10.0
27	1,944,000	24.0	213.9	13.2					324.2	20.0	140.5	8.7
28	1,957,000	24.0	213.9	13.1					324.2	19.9	183.1	11.2
29	1,894,000	24.0	213.9	13.5					327.6	20.7	161.1	10.2
30												
31												
TOTAL	56,058,000		5109.5		0.0		0.0		8167.5		4933.9	
AVERAGE	1,933,034		176.2	10.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	281.6	17.5	170.1	10.6
MAX	1,981,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 02/2016

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.62	7.70	7.62	125	120	198	192	0.69	0.60	1.74	1.69	1.74	0.33	0.07
2	7.61	7.67	7.59	122	119	195	192	0.69	0.56	1.70	1.63	2.95	0.38	0.06
3	7.61	7.67	7.58	123	120	192	186	0.69	0.56	1.76	1.70	4.18	0.30	0.06
4	7.57	7.61	7.53	126	122	188	184	0.75	0.65	1.74	1.66	4.06	0.31	0.05
5	7.56	7.62	7.55	118	115	180	178	0.77	0.70	1.82	1.76	5.33	0.34	0.05
6	7.58	7.64	7.55	114	108	190	186	0.82	0.74	1.77	1.72	5.72	0.31	0.05
7	7.62	7.67	7.61	106	112	180	178	0.80	0.72	1.76	1.70	6.42	0.40	0.06
8	7.59	7.67	7.62	95	92	176	170	0.76	0.68	1.76	1.71	5.94	0.36	0.06
9	7.60	7.67	7.58	77	84	182	175	0.78	0.69	1.71	1.65	6.19	0.38	0.06
10	7.56	7.84	7.55	88	86	175	168	0.75	0.67	1.72	1.66	5.63	0.36	0.06
11	7.60	7.63	7.54	88	84	160	157	0.80	0.69	1.68	1.64	5.58	0.39	0.07
12	7.51	7.57	7.47	88	92	158	155	0.77	0.68	1.74	1.70	4.87	0.38	0.05
13	7.59	7.66	7.57	95	90	160	152	0.63	0.55	1.73	1.66	4.37	0.39	0.06
14	7.66	7.66	7.55	83	81	166	172	0.60	0.51	1.77	1.69	4.02	0.41	0.06
15	7.63	7.66	7.56	85	81	162	155	0.56	0.48	1.77	1.68	4.15	0.39	0.06
16	7.60	7.65	7.55	95	90	160	157	0.67	0.57	1.79	1.73	4.18	0.43	0.06
17	7.57	7.57	7.49	85	82	150	145	0.72	0.63	1.74	1.67	12.10	0.33	0.06
18	7.58	7.62	7.53	87	81	148	142	0.65	0.54	1.72	1.66	10.10	0.31	0.06
19	7.59	7.61	7.50	88	85	130	132	0.70	0.61	1.80	1.72	10.10	0.36	0.06
20	7.55	7.59	7.47	88	84	130	128	0.75	0.67	1.89	1.78	11.40	0.25	0.05
21	7.53	7.54	7.44	74	71	131	133	0.75	0.64	1.87	1.79	11.90	0.28	0.06
22	7.51	7.57	7.46	75	72	135	130	0.74	0.66	1.86	1.77	12.60	0.25	0.06
23	7.50	7.54	7.43	75	72	130	125	0.76	0.68	1.85	1.80	15.50	0.27	0.06
24	7.52	7.55	7.44	75	70	135	128	0.72	0.64	1.83	1.76	15.50	0.31	0.06
25	7.59	7.55	7.43	66	69	124	123	0.75	0.66	1.79	1.72	19.90	0.38	0.06
26	7.46	7.50	7.40	70	68	118	112	0.73	0.67	1.79	1.71	21.30	0.33	0.06
27	7.48	7.47	7.38	70	70	112	114	0.72	0.62	1.69	1.64	24.30	0.31	0.05
28	7.48	7.43	7.40	64	63	103	109	0.67	0.59	1.79	1.73	27.10	0.31	0.06
29	7.45	7.43	7.37	65	62	105	102	0.72	0.65	1.83	1.77	28.20	0.29	0.06
30														
31														
AVERAGE	7.6	7.6	7.5	90	88	154	151	0.72	0.63	1.77	1.71	10.18	0.34	0.06

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 02/2016

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	1.74		0.36	0.54						0.14	0.13	0.06	0.05		0.08
2	2.95		0.49	0.55						0.08	0.07	0.06	0.05		0.06
3	4.18		0.40	0.39						0.06	0.05	0.16	0.20		0.08
4	4.06		0.40	0.36						0.06	0.05	0.06	0.04		0.05
5	5.33		0.35	0.74						0.10	0.09	0.05	0.04		0.06
6	5.72		0.37	0.45						0.06	0.05	0.05	0.04		0.05
7	6.42		0.39	0.70						0.06	0.05	0.05	0.05		0.06
8	5.94		0.37	0.62						0.06	0.05	0.13	0.15		0.07
9	6.19		0.35	0.67						0.08	0.08	0.06	0.06		0.05
10	5.63		0.38	0.74						0.07	0.06	0.05	0.12		0.07
11	5.58		0.39	0.64						0.06	0.05	0.07	0.16		0.06
12	4.87		0.37	0.51						0.06	0.05	0.06	0.16		0.05
13	4.37		0.35	0.54						0.08	0.08	0.06	0.06		0.06
14	4.02		0.36	0.62						0.07	0.07	0.06	0.04		0.05
15	4.15		0.48	0.70						0.07	0.06	0.08	0.10		0.06
16	4.18		0.58	0.69						0.07	0.06	0.07	0.12		0.05
17	12.10		0.40	0.38						0.08	0.08	0.06	0.04		0.05
18	10.10		0.36	0.40						0.07	0.07	0.06	0.04		0.05
19	10.10		0.34	0.77						0.06	0.05	0.08	0.11		0.06
20	11.40		0.29	0.26						0.06	0.05	0.06	0.06		0.05
21	11.90		0.30	0.40						0.06	0.05	0.06	0.04		0.05
22	12.60		0.31	0.28						0.13	0.14	0.06	0.04		0.08
23	15.50		0.29	0.34						0.06	0.06	0.06	0.04		0.05
24	15.50		0.35	0.58						0.06	0.06	0.16	0.18		0.09
25	19.90		0.35	0.51						0.09	0.09	0.06	0.05		0.05
26	21.30		0.43	0.68						0.08	0.08	0.06	0.04		0.05
27	24.30		0.24	0.56						0.06	0.05	0.07	0.09		0.04
28	27.10		0.26	0.54						0.06	0.05	0.06	0.05		0.05
29	28.20		0.30	0.46						0.08	0.08	0.05	0.05		0.05
30															
31															
AVERAGE	10.2	#DIV/0!	0.4	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.07	0.07	0.08	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 02/2016

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F <sup>0</sup> /C <sup>0</sup>
1	0.23	0.95	0.03	0.01	0.03	0.01			1.55	0.1	9.2
2	0.12	0.78	0.02	0.04	0.04	0.02			1.60	0.5	10.0
3	0.03	1.02	0.01	0.06	0.03	0.01			1.60	0.5	9.8
4	0.25	0.88	0.05	0.01	0.03	0.01			1.60	0.1	9.4
5	0.28	0.94	0.10	0.03	0.05	0.02			1.70	0.0	9.0
6	0.19	0.78	0.07	0.04	0.05	0.03			1.65	0.0	8.7
7	0.14	0.75	0.10	0.00	0.05	0.02			1.60	0.0	9.3
8	0.18	0.30	0.10	0.03	0.06	0.02			1.60	0.0	8.8
9	0.24	0.73	0.09	0.04	0.05	0.01			1.55	0.1	8.7
10	0.27	0.92	0.15	0.02	0.05	0.02			1.55	0.0	8.7
11	0.22	0.81	0.11	0.03	0.05	0.02			1.55	0.0	8.1
12	0.25	0.89	0.13	0.02	0.04	0.02			1.50	0.0	8.8
13	0.15	0.77	0.11	0.03	0.04	0.00			1.45	0.0	8.5
14	0.23	0.74	0.10	0.01	0.04	0.02			1.65	0.0	8.0
15	0.27	0.84	0.07	0.01	0.03	0.01			1.70	0.3	8.3
16	0.30	0.87	0.11	0.06	0.04	0.01			1.55	1.7	8.0
17	0.00	0.77	0.13	0.07	0.06	0.01			1.60	0.0	8.2
18	0.18	0.81	0.11	0.02	0.06	0.02			1.55	0.0	10.2
19	0.17	0.81	0.18	0.03	0.05	0.02			1.50	0.0	9.2
20	0.09	0.79	0.20	0.05	0.06	0.01			1.70	0.0	8.2
21	0.09	0.83	0.15	0.05	0.06	0.01			1.70	0.0	8.0
22	0.00	0.66	0.17	0.06	0.07	0.03			1.70	1.4	8.4
23	0.09	0.84	0.17	0.02	0.06	0.01			1.65	0.0	8.1
24	0.09	0.97	0.17	0.05	0.08	0.01			1.60	0.2	8.5
25	0.06	0.69	0.34	0.02	0.10	0.01			1.65	0.2	8.5
26	0.00	0.81	0.27	0.01	0.10	0.02			1.55	0.0	8.7
27	0.00	0.66	0.26	0.00	0.10	0.01			1.55	0.0	8.6
28	0.00	0.76	0.37	0.06	0.10	0.01			1.60	0.0	8.0
29	0.00	0.28	0.33	0.03	0.11	0.01			1.65	0.1	8.7
30											
31											
AVERAGE	0.14	0.78	0.14	0.03	0.06	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	8.7
									1.45		
									Number of readings	29	5.28
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N) N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 02/2016  
 PAGE 6 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet) 160	FILT RUN HRS	AREA (square feet) 160	FILT RUN HRS	AREA (square feet) 160	FILT RUN HRS	AREA (square feet) 160	FILT RUN HRS	AREA (square feet)	FILT RUN HRS
1	0										
2	34,000					17,000	102.50	17,000	102.50		
3	0										
4	35,000	17,000	95.80	18,000	95.10						
5	0										
6	0										
7	36,000					18,000	119.20	18,000	119.20		
8	0										
9	34,000	17,000	115.20	17,000	115.20						
10	0										
11	34,000					17,000	90.70	17,000	90.70		
12	0										
13	34,000	17,000	94.50	17,000	94.50						
14	0										
15	36,000					18,000	94.80	18,000	94.80		
16	0										
17	34,000	16,000	95.10	18,000	95.10						
18	0										
19	36,000					18,000	95.10	18,000	95.10		
20	0										
21	36,000	18,000	99.30	18,000	98.50						
22	0										
23	36,000					18,000	98.30	18,000	98.30		
24	0										
25	34,000	17,000	91.00	17,000	91.00						
26	0										
27	33,000					16,000	91.20	17,000	91.20		
28	0										
29	30,000	15,000	95.60	15,000	95.60						
30	0										
31	0										
TOTAL	482,000	117,000	686.50	120,000	685.00	122,000	691.80	123,000	691.80	0	0.00
AVERAGE	15,548	16,714	98.071	17,143	97.857	17,429	98.829	17,571	98.829	#DIV/0!	#DIV/0!

COPY AS NEEDED



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID : A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 02/2016

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.08	0.07	0.07	0.06	0.06	0.06	0.084	
2	24.0	6	0.06	0.06	0.06	0.05	0.05	0.05	0.063	
3	24.0	6	0.08	0.05	0.05	0.05	0.05	0.05	0.079	
4	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.049	
5	24.0	6	0.06	0.05	0.05	0.05	0.05	0.05	0.063	
6	24.0	6	0.05	0.05	0.05	0.05	0.05	0.04	0.052	
7	24.0	6	0.04	0.06	0.06	0.05	0.05	0.05	0.055	
8	24.0	6	0.07	0.05	0.05	0.04	0.04	0.04	0.068	
9	24.0	6	0.04	0.04	0.05	0.04	0.05	0.05	0.053	
10	24.0	6	0.05	0.05	0.05	0.05	0.07	0.06	0.069	
11	24.0	6	0.06	0.06	0.06	0.05	0.06	0.05	0.064	
12	24.0	6	0.04	0.05	0.05	0.04	0.05	0.05	0.047	
13	24.0	6	0.05	0.05	0.04	0.05	0.05	0.06	0.056	
14	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.053	
15	24.0	6	0.04	0.04	0.05	0.04	0.04	0.06	0.057	
16	24.0	6	0.05	0.05	0.05	0.05	0.04	0.04	0.048	
17	24.0	6	0.04	0.04	0.04	0.05	0.04	0.05	0.050	
18	24.0	6	0.05	0.05	0.05	0.04	0.04	0.04	0.047	
19	23.5	6	0.04	0.04	0.04	0.04	0.05	0.06	0.055	
20	24.0	6	0.04	0.05	0.05	0.04	0.04	0.04	0.047	
21	24.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.047	
22	24.0	6	0.08	0.06	0.06	0.05	0.05	0.05	0.079	
23	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
24	24.0	6	0.09	0.06	0.05	0.05	0.05	0.05	0.085	
25	24.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.054	
26	24.0	6	0.05	0.05	0.04	0.04	0.04	0.04	0.050	
27	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.043	
28	24.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.045	
29	24.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.045	
30	0.0	0							0.000	
31	0.0	0							0.000	
<b>Total</b>	<b>695.5</b>	<b>174</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>174</b>	<b>0.085</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding --> 1 NTU 0 5 NTU 0

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Carl L. Abbey  
 Signature of Principal Executive Officer or Authorized Agent

03/04/2016  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

**02/2016**

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID	<u>A</u>	TOTAL WATER TREATED (gallons)	<u>56,058,000</u>
PLANT NAME	<u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,933,034</u>
AGENCY INTEREST	<u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,981,000</u>

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Was each filter monitored continuously? (Y/N)	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N)	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N)	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N)	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N)	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N)	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N)	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE	<u>0100</u>
Number of hours of plant operation	<u>695.5</u>
Were samples taken every 4 hours of plant operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of samples taken	<u>174</u>
Highest single turbidity reading	<u>0.09</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU	<u>0</u>
Number of samples exceeded 0.3 NTU	<u>0</u>
Number of samples exceeded 1 NTU	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU	<u>0</u>
Number of samples exceeded 5 NTU	<u>0</u>

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION	
APPLICABLE TO ALL PLANTS	
ANALYTE CODE	<u>0999</u>
Number of days of plant operation	<u>29</u>
Were samples taken each day of operation? (Y/N)	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded	<u>29</u>
Lowest single chlorine reading	<u>1.45</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N)	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L	<u>0</u>

CHLORINE DIOXIDE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1008</u>
Number of days of plant operation	<u>29</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorine dioxide reading	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L	<u>0</u>

CHLORITE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE	<u>1009</u>
Number of days of plant operation	<u>29</u>
Were samples taken each day of operation? (Y/N)	<input type="checkbox"/>
Number of samples taken	<u>0</u>
Highest single chlorite reading	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. O'Leary  
Signature of Principal Executive Officer or Authorized Agent

03/04/2016  
Date



RECEIVED  
 APR 08 2016  
 BY: \_\_\_\_\_

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH

Revised 01/04/07

MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy)

03/2016

Indicate one with "X"

- SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	04/05/2016	
SOURCE NAME:	Crum Reservoir Tug Fork	COUNTY:	Martin	
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Timothy D Reed / Elbert Osborne	1V-A / 11-A	24590 / 27800	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

**TREATMENT PLANTS COMPLETE:**

1. DESIGN CAPACITY (gpm):	1,667
2. TYPE OF FILTRATION USED:	Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	2.66
4. PERCENT BACKWASH WATER USED:	0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	#2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED:	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

04/05/2016  
 DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 03/2016

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			Del Paco		Polymer		Pre		Pre		Post	
			LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	1,965,000	24.0	224.2	13.7					327.6	20.0	165.7	10.1
2	1,913,000	24.0	224.2	14.1	2.5	0.2			311.0	19.5	169.2	10.6
3	1,941,000	24.0	224.2	13.9	4.2	0.3			311.0	19.2	169.2	10.5
4	1,926,000	24.0	224.2	14.0	4.2	0.3			311.0	19.4	169.2	10.5
5	1,937,000	24.0	224.2	13.9	4.2	0.3			311.0	19.3	169.2	10.5
6	1,903,000	24.0	224.2	14.1	4.2	0.3			315.0	19.8	169.2	10.7
7	1,946,000	24.0	224.2	13.8	4.2	0.3			327.6	20.2	169.2	10.4
8	1,917,000	24.0	224.2	14.0	4.2	0.3			327.6	20.5	169.2	10.6
9	1,941,000	24.0	224.2	13.9	4.2	0.3			327.6	20.2	169.2	10.5
10	1,907,000	24.0	224.2	14.1	4.2	0.3			330.2	20.8	169.2	10.6
11	1,925,000	24.0	224.2	14.0	4.2	0.3			311.0	19.4	159.8	10.0
12	1,930,000	24.0	224.2	13.9	4.2	0.3			319.8	19.9	156.6	9.7
13	1,947,000	24.0	224.2	13.8	4.2	0.3			315.4	19.4	169.2	10.4
14	1,791,000	24.0	224.2	15.0	4.2	0.3			330.4	22.1	163.5	10.9
15	1,970,000	24.0	210.9	12.8	4.2	0.3			330.4	20.1	163.5	10.0
16	1,934,000	24.0	192.2	11.9	4.2	0.3			330.4	20.5	169.2	10.5
17	1,982,000	24.0	192.2	11.6	4.2	0.3			343.6	20.8	169.2	10.2
18	1,947,000	24.0	192.2	11.8	4.2	0.3			335.6	20.7	169.2	10.4
19	1,975,000	24.0	192.2	11.7	4.2	0.3			328.6	19.9	177.3	10.8
20	1,969,000	24.0	192.2	11.7	4.2	0.3			333.0	20.3	169.2	10.3
21	1,741,000	21.0	168.2	11.6	3.7	0.3			294.2	20.3	160.2	11.0
22	1,899,000	24.0	192.2	12.1	4.2	0.3			335.6	21.2	183.1	11.6
23	1,901,000	24.0	192.2	12.1	4.2	0.3			338.6	21.4	183.1	11.5
24	1,868,000	24.0	192.2	12.3	4.2	0.3			335.8	21.6	183.1	11.8
25	1,865,000	24.0	192.2	12.4	4.2	0.3			333.0	21.4	183.1	11.8
26	1,929,000	24.0	192.2	11.9	4.2	0.3			333.0	20.7	183.2	11.4
27	1,893,000	24.0	192.2	12.2	4.2	0.3			322.1	20.4	183.2	11.6
28	1,913,000	24.0	192.2	12.0	4.2	0.3			327.6	20.5	183.1	11.5
29	1,891,000	24.0	192.2	12.2	4.2	0.3			335.6	21.3	183.1	11.6
30	1,915,000	24.0	192.2	12.0	4.2	0.3			338.6	21.2	183.1	11.5
31	1,885,000	24.0	192.2	12.2	4.2	0.3			333.0	21.2	183.1	11.6
TOTAL	59,366,000		6401.1		123.8		0.0		10104.9		5346.6	
AVERAGE	1,915,032		206.5	12.9	4.1	0.3	#DIV/0!	#DIV/0!	326.0	20.4	172.5	10.8
MAX	1,982,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2016

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.34	7.40	7.32	68	62	95	92	0.73	0.65	1.78	1.71	31.70	0.27	0.05
2	7.37	7.35	7.26	65	60	98	94	0.68	0.61	1.73	1.68	32.80	0.35	0.06
3	7.24	7.33	7.24	60	55	98	90	0.66	0.59	1.78	1.73	33.30	0.32	0.05
4	7.25	7.28	7.20	60	54	84	79	0.62	0.55	1.70	1.63	32.00	0.25	0.05
5	7.21	7.23	7.14	60	58	88	82	0.57	0.51	1.63	1.59	32.50	0.26	0.06
6	7.19	7.18	7.09	45	42	78	71	0.56	0.50	1.67	1.64	30.80	0.31	0.06
7	7.11	7.21	7.08	47	43	77	74	0.83	0.56	1.74	1.69	29.50	0.29	0.07
8	7.11	7.12	7.02	45	38	65	58	0.66	0.59	1.77	1.74	27.30	0.24	0.06
9	7.01	7.08	6.99	45	42	70	65	0.63	0.56	1.84	1.80	25.70	0.27	0.07
10	7.03	7.06	6.93	44	38	57	55	0.70	0.64	1.90	1.86	22.40	0.31	0.07
11	6.89	6.97	6.94	44	38	75	67	0.67	0.59	1.91	1.85	21.10	0.26	0.06
12	7.06	6.98	7.28	30	35	62	50	0.70	0.62	1.82	1.78	19.10	0.25	0.04
13	7.02	6.96	7.39	26	25	43	41	0.71	0.64	1.71	1.68	17.70	0.23	0.05
14	7.14	6.96	7.36	25	22	41	37	0.73	0.67	1.68	1.64	16.00	0.23	0.06
15	6.97	6.91	7.09	25	23	50	47	0.67	0.60	1.63	1.60	15.90	0.22	0.05
16	6.97	6.93	7.16	25	22	45	40	0.59	0.51	1.63	1.57	14.70	0.27	0.05
17	6.96	6.90	7.17	27	22	50	47	0.85	0.58	1.69	1.64	14.60	0.31	0.05
18	7.02	6.92	7.19	25	23	48	45	0.66	0.58	1.74	1.68	14.20	0.43	0.05
19	6.95	6.89	7.17	24	20	48	45	0.70	0.62	1.76	1.69	13.60	0.27	0.05
20	6.77	6.83	7.02	18	17	49	45	0.66	0.59	1.71	1.64	13.60	0.33	0.06
21	6.93	6.90	7.20	24	22	49	45	0.67	0.57	1.77	1.69	13.20	0.38	0.06
22	6.94	6.89	7.17	25	20	45	44	0.64	0.59	1.79	1.72	12.40	0.35	0.06
23	6.94	6.93	7.18	23	21	35	33	0.63	0.54	1.81	1.76	12.40	0.39	0.05
24	6.88	6.90	7.17	24	20	35	40	0.67	0.59	1.84	1.76	11.80	0.30	0.05
25	6.90	6.93	7.24	30	25	42	38	0.65	0.57	1.69	1.63	11.90	0.23	0.05
26	6.89	6.85	7.07	25	22	45	37	0.63	0.54	1.72	1.62	11.60	0.28	0.05
27	6.83	6.88	7.17	21	22	38	42	0.70	0.62	1.77	1.67	11.20	0.59	0.05
28	6.88	6.91	7.05	24	22	40	45	0.65	0.55	1.82	1.76	10.50	0.05	0.05
29	6.93	6.91	7.16	25	21	40	42	0.62	0.53	1.73	1.69	10.50	0.30	0.04
30	6.88	6.91	7.17	25	22	45	41	0.56	0.46	1.75	1.69	9.67	0.28	0.04
31	6.90	6.94	7.19	25	22	37	40	0.64	0.56	1.80	1.74	9.28	0.26	0.05
AVERAGE	7.0	7.0	7.2	35	32	57	54	0.65	0.58	1.75	1.70	18.80	0.29	0.05

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 03/2016

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
		1	31.70		0.27	0.61					0.07	0.07	0.05	0.04	
2	32.80		0.29	0.79					0.06	0.05	0.07	0.10		0.05	
3	33.30		0.24	0.89					0.06	0.05	0.06	0.05		0.06	
4	32.00		0.27	0.46					0.08	0.08	0.05	0.04		0.05	
5	32.50		0.24	0.45					0.07	0.07	0.05	0.04		0.05	
6	30.80		0.22	0.50					0.06	0.05	0.05	0.04		0.05	
7	29.50		0.22	0.63					0.05	0.05	0.11	0.21		0.10	
8	27.30		0.20	0.50					0.05	0.05	0.05	0.08		0.06	
9	25.70		0.23	0.58					0.10	0.10	0.05	0.09		0.06	
10	22.40		0.29	0.83					0.05	0.05	0.05	0.11		0.06	
11	21.10		0.22	0.60					0.05	0.04	0.13	0.19		0.06	
12	19.10		0.23	0.45					0.05	0.05	0.04	0.03		0.04	
13	17.70		0.20	0.44					0.05	0.04	0.04	0.02		0.04	
14	16.00		0.27	0.48					0.04	0.04	0.06	0.08		0.04	
15	15.90		0.21	0.63					0.04	0.04	0.04	0.03		0.03	
16	14.70		0.37	0.56					0.06	0.06	0.04	0.03		0.03	
17	14.60		0.25	0.66					0.05	0.04	0.04	0.02		0.03	
18	14.20		0.43	0.80					0.05	0.04	0.04	0.06		0.04	
19	13.60		0.29	0.50					0.04	0.04	0.04	0.09		0.03	
20	13.60		0.28	0.66					0.04	0.04	0.04	0.05		0.04	
21	13.20		0.34	0.90					0.06	0.06	0.04	0.07		0.05	
22	12.40		0.38	0.82					0.05	0.05	0.05	0.08		0.05	
23	12.40		0.48	0.87					0.06	0.07	0.06	0.06		0.06	
24	11.80		0.28	0.65					0.05	0.04	0.04	0.04		0.05	
25	11.90		0.26	0.44					0.06	0.06	0.04	0.04		0.05	
26	11.60		0.19	0.71					0.05	0.05	0.04	0.04		0.05	
27	11.20		0.26	0.59					0.05	0.04	0.05	0.05		0.05	
28	10.50		0.26	0.36					0.05	0.04	0.04	0.05		0.04	
29	10.50		0.21	0.83					0.06	0.05	0.04	0.03		0.05	
30	9.67		0.35	0.45					0.05	0.05	0.04	0.02		0.04	
31	9.26		0.34	0.46					0.04	0.04	0.06	0.08		0.05	
AVERAGE	18.8	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.05	0.05	0.05	0.06	#DIV/0!	0.05

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 03/2016

\*Please answer Y/N question below this chart.

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ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL			
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP				
1	0.00	0.86	0.37	0.04	0.11	0.01			1.55	0.0	8.7	
2	0.00	0.79	0.35	0.06	0.12	0.00			1.55	0.4	9.5	
3	0.00	0.90	0.42	0.02	0.11	0.01			1.65	0.0	8.7	
4	0.00	0.81	0.43	0.05	0.11	0.00			1.60	0.4	8.9	
5	0.00	0.78	0.35	0.01	0.12	0.01			1.55	0.0	8.9	
6	0.00	0.81	0.43	0.06	0.11	0.01			1.60	0.2	7.8	
7	0.00	0.84	0.38	0.05	0.10	0.01			1.60	0.0	9.4	
8	0.00	0.78	0.30	0.00	0.09	0.00			1.60	0.0	9.2	
9	0.00	0.75	0.48	0.01	0.09	0.01			1.65	0.0	9.2	
10	0.00	0.73	0.33	0.03	0.08	0.01			1.65	0.0	9.3	
11	0.00	0.87	0.35	0.05	0.09	0.00			1.64	0.2	9.4	
12	0.00	0.70	0.29	0.00	0.07	0.00			1.55	0.0	9.8	
13	0.00	0.83	0.32	0.02	0.07	0.01			1.55	0.2	9.7	
14	0.00	0.12	0.32	0.05	0.06	0.00			1.60	0.2	9.8	
15	0.01	0.80	0.23	0.03	0.06	0.00			1.55	0.1	10.0	
16	0.00	0.77	0.21	0.05	0.06	0.01			1.60	0.0	10.1	
17	0.00	0.75	0.29	0.05	0.09	0.00			1.55	0.0	10.3	
18	0.01	0.81	0.23	0.01	0.06	0.01			1.55	0.0	10.3	
19	0.00	0.71	0.24	0.03	0.05	0.01			1.60	0.0	10.2	
20	0.02	0.56	0.32	0.00	0.05	0.00			1.60	0.0	9.6	
21	0.00	0.56	0.23	0.01	0.05	0.00			1.55	0.0	10.1	
22	0.12	0.89	0.26	0.02	0.04	0.00			1.50	0.0	9.6	
23	0.03	0.62	0.24	0.02	0.04	0.00			1.55	0.0	10.1	
24	0.00	0.74	0.23	0.00	0.04	0.01			1.65	0.0	10.0	
25	0.03	0.69	0.22	0.04	0.04	0.00			1.60	0.2	10.1	
26	0.00	0.77	0.23	0.05	0.05	0.01			1.65	0.0	10.5	
27	0.00	0.59	0.31	0.01	0.05	0.00			1.28	0.0	10.7	
28	0.02	0.68	0.20	0.03	0.05	0.00			1.55	0.3	10.7	
29	0.07	0.72	0.21	0.04	0.04	0.00			1.55	0.0	10.6	
30	0.13	0.79	0.23	0.02	0.05	0.01			1.60	0.0	10.6	
31	0.08	0.57	0.20	0.01	0.05	0.00			1.50	0.0	10.7	
AVERAGE	0.02	0.73	0.30	0.03	0.07	0.00	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	9.8	
									1.28			
									Number of readings	31	2.09	
									For Free Chlorine, # less than 0.2 mg/L	0		
									For Chloramines, # less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N)

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 03/2016  
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DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION										
		No: 3		No: 4		No: 5		No: 6		No:		
		AREA (square feet) 160	AREA (square feet)	AREA (square feet)								
	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8	WASHWATER GALLONS	FILT RUN HR8
1	0											
2	31,000					15,000	91.60	16,000	91.60			
3	0											
4	30,000	15,000	94.70	15,000	94.70							
5	0											
6	32,000					16,000	102.50	16,000	102.60			
7	0											
8	32,000	16,000	99.70	16,000	99.70							
9	0											
10	34,000					17,000	95.00	17,000	95.10			
11	0											
12	32,000	15,000	91.10	17,000	91.10							
13	0											
14	31,000					16,000	86.40	15,000	86.40			
15	0											
16	30,000	15,000	86.40	15,000	86.40							
17	0											
18	30,000					15,000	90.60	15,000	90.60			
19	0											
20	0											
21	32,000	16,000	124.40	16,000	124.40							
22	31,000					16,000	100.50	15,000	100.50			
23	0											
24	0											
25	31,000	16,000	90.30	15,000	90.30							
26	0											
27	33,000					17,000	113.60	16,000	113.60			
28	0											
29	30,000	15,000	98.50	15,000	98.50							
30	0											
31	30,000					15,000	92.20	15,000	92.20			
TOTAL	469,000	108,000	685.10	109,000	685.10	127,000	772.40	125,000	772.60	0	0.00	
AVERAGE	15,129	15,429	97.871	15,571	97.871	15,875	96.550	15,625	96.575	#DIV/0!	#DIV/0!	

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 03/2016

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DAY	CHEMICALS ADDED			DISTRIBUTION SYSTEM OPERATION							
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS		TEST RESULTS							
				TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)							
				NORTH		SOUTH		EAST		WEST	
T	F	T	F	T	F	T	F				
1				1.31	1.25	1.24	1.21	1.46	1.42	1.28	1.27
2				1.21	1.16	1.24	1.22	1.43	1.37	1.12	1.11
3				1.38	1.32	1.32	1.28	1.39	1.35	1.49	1.46
4				1.50	1.47	1.26	1.25	1.46	1.40	1.47	1.43
5				1.25	1.22	0.89	0.88	1.28	1.27	1.25	1.21
6				1.33	1.25	1.29	1.24	1.48	1.43	1.40	1.38
7				1.39	1.31	1.01	0.91	1.37	1.25	1.43	1.38
8				1.53	1.47	1.33	1.26	1.47	1.45	1.42	1.42
9				1.49	1.46	1.44	1.39	1.49	1.45	1.48	1.46
10				1.41	1.36	1.53	1.48	1.46	1.39	1.41	1.39
11				1.64	1.58	1.12	1.04	1.57	1.51	1.44	1.39
12				1.56	1.49	1.22	1.17	1.15	1.13	1.49	1.40
13				1.31	1.29	1.50	1.41	1.43	1.35	1.50	1.42
14				1.41	1.32	1.46	1.43	1.49	1.48	1.38	1.32
15				1.32	1.23	1.30	1.28	1.41	1.33	1.45	1.39
16				1.18	1.14	1.12	1.07	1.10	1.03	1.11	0.97
17				1.28	1.21	1.28	1.19	1.07	0.91	1.02	0.91
18				1.20	1.15	1.31	1.24	1.55	1.53	1.34	1.30
19				1.32	1.27	1.51	1.43	1.55	1.45	1.38	1.27
20				1.69	1.60	1.45	1.36	1.57	1.49	1.52	1.46
21				1.41	1.35	1.44	1.39	1.32	1.19	1.51	1.40
22				1.47	1.41	1.27	1.15	1.37	1.29	1.48	1.44
23				1.58	1.47	1.44	1.32	1.21	1.11	1.49	1.40
24				1.32	1.24	1.39	1.28	1.39	1.26	1.44	1.41
25				1.49	1.41	1.42	1.31	1.34	1.22	1.50	1.41
26				1.30	1.19	0.78	0.72	1.69	1.59	1.29	1.24
27				1.34	1.27	1.22	1.11	1.18	1.10	0.71	0.66
28				1.72	1.63	1.51	1.47	1.62	1.47	1.53	1.45
29				1.41	1.35	1.29	1.20	1.30	1.16	1.23	1.04
30				1.49	1.40	1.24	1.10	1.29	1.24	1.31	1.19
31				1.50	1.43	1.55	1.49	1.52	1.47	1.30	1.24
AVERAGE	#DIV/0!	#DIV/0!	Average	1.41	1.35	1.30	1.23	1.40	1.33	1.36	1.30
TOTAL	0.0	0.0	Total Minimum	1.18		0.78		1.07		0.71	
			Free Minimum		1.14		0.72		0.91		0.66

Total # Chlorine Samples	31	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L	0	0	0	0	0	0	0	0	0
Number of Free Residuals	124	Minimum Monthly Free Residual	0.66						
Number of Total Residuals	124	Minimum Monthly Total Residual	0.71						
Total # Less than 0.2 mg/L	0								
Total # Less than 0.5 mg/L									
		Disinfectant Chloramines? (Y/N)		N					
		Number of days of operation?		31					

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

PWS ID : KY0800273  
 PLANT ID : A  
 Report Period (MM/YYYY): 03/2016

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required*	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.04	0.05	0.04	0.04	0.04	0.04	0.050	
2	24.0	6	0.04	0.04	0.04	0.05	0.04	0.05	0.048	
3	24.0	6	0.04	0.04	0.03	0.04	0.06	0.05	0.059	
4	24.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.048	
5	24.0	6	0.04	0.05	0.05	0.05	0.05	0.05	0.051	
6	24.0	6	0.05	0.05	0.04	0.04	0.04	0.05	0.049	
7	24.0	6	0.10	0.07	0.06	0.05	0.05	0.05	0.099	
8	24.0	6	0.04	0.05	0.05	0.05	0.05	0.06	0.055	
9	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.060	
10	24.0	6	0.05	0.05	0.05	0.06	0.06	0.06	0.060	
11	24.0	6	0.06	0.03	0.04	0.04	0.03	0.03	0.058	
12	24.0	6	0.03	0.03	0.03	0.03	0.04	0.04	0.040	
13	24.0	6	0.04	0.04	0.04	0.03	0.03	0.03	0.040	
14	24.0	6	0.03	0.03	0.03	0.03	0.04	0.03	0.040	
15	24.0	6	0.03	0.03	0.03	0.03	0.03	0.03	0.030	
16	24.0	6	0.03	0.03	0.03	0.03	0.03	0.03	0.033	
17	24.0	6	0.03	0.03	0.03	0.03	0.03	0.03	0.030	
18	24.0	6	0.03	0.03	0.03	0.03	0.03	0.04	0.037	
19	24.0	6	0.03	0.03	0.03	0.03	0.03	0.03	0.034	
20	24.0	6	0.04	0.04	0.04	0.04	0.04	0.03	0.039	
21	21.0	6	0.04	0.04	0.05	0.04	0.04	0.04	0.047	
22	24.0	6	0.05	0.05	0.05	0.04	0.05	0.04	0.054	
23	24.0	6	0.04	0.04	0.04	0.06	0.04	0.04	0.059	
24	24.0	6	0.05	0.05	0.04	0.04	0.04	0.04	0.046	
25	24.0	6	0.04	0.04	0.04	0.04	0.05	0.04	0.045	
26	24.0	6	0.04	0.05	0.05	0.04	0.04	0.04	0.046	
27	24.0	6	0.05	0.05	0.04	0.05	0.04	0.04	0.046	
28	24.0	6	0.04	0.04	0.04	0.03	0.04	0.04	0.039	
29	24.0	6	0.04	0.04	0.04	0.04	0.04	0.05	0.045	
30	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.043	
31	24.0	6	0.04	0.04	0.05	0.05	0.04	0.04	0.049	
<b>Total</b>	<b>741.0</b>	<b>186</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --						<b>186</b>	<b>0.099</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 0 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ---> 1 NTU 0 5 NTU 0

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

04/05/2016  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID KY0800273

MONITORING PERIOD (MMYYYY) 03/2016

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>59,366,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,915,032</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,982,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N) _____	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION		ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0100</u>		ANALYTE CODE <u>0999</u>	
Number of hours of plant operation _____	<u>741.0</u>	Number of days of plant operation _____	<u>31</u>
Were samples taken every 4 hours of plant operation? (Y/N) _____	<input checked="" type="checkbox"/> Y	Were samples taken each day of operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of samples taken _____	<u>188</u>	Number of lowest chlorine samples recorded _____	<u>31</u>
Highest single turbidity reading _____	<u>0.10</u>	Lowest single chlorine reading _____	<u>1.28</u>
For all filtration except slow sand filtration:		If less than required:	
Number of samples exceeded 0.1 NTU _____	<u>0</u>	Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
Number of samples exceeded 0.3 NTU _____	<u>0</u>	<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples exceeded 1 NTU _____	<u>0</u>	Number of samples under 0.2 mg/L _____	<u>0</u>
When filtration is slow sand filtration:		<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples exceeded 1 NTU _____		Number of samples under 0.5 mg/L _____	
Number of samples exceeded 5 NTU _____			

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE		CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>		ANALYTE CODE <u>1009</u>	
Number of days of plant operation _____	<u>31</u>	Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>	Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>	Number of samples taken _____	<u>0</u>
Highest single chlorine dioxide reading _____	<u>0.00</u>	Highest single chlorite reading _____	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	<u>0</u>	Number of chlorite samples exceeded 1 mg/L _____	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

04/25/2016  
Date



**RECEIVED**  
MAY 09 2016  
BY: \_\_\_\_\_

**KENTUCKY DIVISION OF WATER**  
**DRINKING WATER BRANCH**  
**MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS**

Revised 01/04/07

MONTH & YEAR (mm/yyyy) 04/2016      Indicate one with "X"  SURFACE WATER  
 GROUNDWATER  
 PURCHASE/DISTRIBUTE ONLY  
DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0800273</u>	PLANT ID: A	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS: <u>2</u>	
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>05/05/2016</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	<b>OPERATOR(S) RESPONSIBLE / IN-CHARGE</b>	<b>CLASS</b>	<b>CERTIFICATION NUMBER</b>	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartln</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Timothy D Reed / Elbert Osborne</u>	<u>1V-A / 11-A</u>	<u>24590 / 27800</u>	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

**TREATMENT PLANTS COMPLETE:**

1. DESIGN CAPACITY (gpm):	<u>1,667</u>
2. TYPE OF FILTRATION USED:	<u>Dual Media</u>
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	<u>2.66</u>
4. PERCENT BACKWASH WATER USED:	<u>0.7</u>
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	<u>#2 - 3/18/10 #3 - 9/2/09</u>
6. DATE SETTLING BASIN(S) LAST CLEANED:	_____

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

05/04/2016  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 04/2016

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			Del Pac		Polymer		Pre		Pre		Post	
			LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	1,938,000	24.0	192.2	11.9	4.2	0.3			333.0	20.6	183.1	11.3
2	1,955,000	24.0	192.2	11.8	4.2	0.3			333.6	20.5	183.2	11.2
3	1,874,000	24.0	192.2	12.3	4.2	0.3			366.0	23.4	183.1	11.7
4	1,936,000	24.0	192.2	11.9	4.2	0.3			338.6	21.0	183.1	11.3
5	1,906,000	24.0	183.0	11.5	4.2	0.3			338.6	21.3	183.1	11.5
6	1,925,000	24.0	164.7	10.3	4.2	0.3			338.6	21.1	183.1	11.4
7	1,798,000	22.5	154.4	10.3	3.9	0.3			309.2	20.6	171.7	11.5
8	1,915,000	24.0	164.7	10.3	4.2	0.3			333.0	20.9	183.2	11.5
9	1,924,000	24.0	164.7	10.3	4.2	0.3			333.6	20.8	183.2	11.4
10	1,933,000	24.0	164.7	10.2	4.2	0.3			335.8	20.8	183.1	11.4
11	1,812,000	24.0	164.7	10.9	4.2	0.3			325.6	21.5	183.1	12.1
12	1,940,000	24.0	164.7	10.2	4.2	0.3			338.6	20.9	183.1	11.3
13	1,919,000	24.0	164.7	10.3	4.2	0.3			354.6	22.2	183.1	11.4
14	1,936,000	24.0	164.7	10.2	4.2	0.3			360.0	22.3	165.2	10.2
15	1,940,000	24.0	164.7	10.2	4.2	0.3			365.2	22.6	165.7	10.2
16	1,937,000	24.0	164.7	10.2	4.2	0.3			360.1	22.3	159.8	9.9
17	1,875,000	24.0	164.7	10.5	4.2	0.3			365.2	23.4	159.8	10.2
18	1,928,000	24.0	164.7	10.2	4.2	0.3			365.2	22.7	174.9	10.9
19	1,915,000	24.0	164.7	10.3	4.2	0.3			337.0	21.1	159.8	10.0
20	1,925,000	24.0	164.7	10.3	4.2	0.3			311.8	19.4	159.8	10.0
21	1,901,000	24.0	128.2	8.1	4.2	0.3			305.2	19.3	159.8	10.1
22	1,976,000	24.0	109.8	6.7	4.2	0.3			282.4	17.1	159.8	9.7
23	1,903,000	24.0	109.8	6.9	4.2	0.3			272.6	17.2	163.1	10.3
24	1,941,000	24.0	109.8	6.8	4.2	0.3			305.8	18.9	168.6	10.4
25	1,915,000	24.0	109.8	6.9	4.2	0.3			323.4	20.2	169.0	10.6
26	1,951,000	24.0	109.8	6.7	4.2	0.3			323.4	19.9	168.6	10.4
27	1,934,000	24.0	109.8	6.8	4.2	0.3			335.4	20.8	169.1	10.5
28	1,929,000	24.0	109.8	6.8	4.2	0.3			358.6	22.3	183.1	11.4
29	1,854,000	23.0	105.3	6.8	4.0	0.3			382.2	24.7	173.0	11.2
30	1,871,000	24.0	109.8	7.0	4.2	0.3			350.6	22.5	169.2	10.8
31												
TOTAL	57,406,000		4524.0		125.5		0.0		10082.9		5197.5	
AVERAGE	1,913,533		150.8	9.5	4.2	0.3	#DIV/0!	#DIV/0!	336.1	21.1	173.3	10.9
MAX	1,976,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 04/2016

PAGE 3 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)														
DAY	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	6.93	6.93	7.17	25	22	37	35	0.70	0.63	1.81	1.75	9.04	0.24	0.04
2	6.97	6.96	7.23	25	22	37	36	0.67	0.59	1.70	1.64	8.40	0.21	0.04
3	6.90	6.93	7.24	24	27	46	48	0.60	0.51	1.88	1.81	7.90	0.27	0.04
4	6.91	6.99	7.22	27	25	50	48	0.60	0.50	1.66	1.61	7.01	0.25	0.05
5	6.87	6.95	7.11	25	23	37	36	0.63	0.56	1.62	1.60	6.61	0.29	0.05
6	7.02	7.06	7.32	30	28	55	50	0.61	0.54	1.73	1.68	6.45	0.34	0.05
7	7.06	7.07	7.24	27	26	50	47	0.56	0.46	1.65	1.59	6.05	0.27	0.05
8	7.13	7.13	7.26	30	32	53	50	0.62	0.51	1.70	1.63	5.60	0.28	0.05
9	7.19	7.21	7.27	50	46	65	60	0.59	0.51	1.68	1.62	5.13	0.33	0.05
10	7.20	7.22	7.15	41	40	61	60	0.57	0.49	1.74	1.70	4.60	0.28	0.05
11	7.37	7.42	7.38	45	47	78	75	0.55	0.46	1.72	1.67	3.98	0.27	0.05
12	7.44	7.52	7.40	60	58	88	87	0.63	0.52	1.79	1.73	3.30	0.23	0.05
13	7.52	7.55	7.46	70	65	88	86	0.69	0.60	1.76	1.70	3.08	0.23	0.06
14	7.59	7.60	7.48	75	68	96	94	0.72	0.62	1.77	1.70	2.83	0.24	0.05
15	7.59	7.62	7.52	68	66	110	107	0.71	0.62	1.78	1.72	2.63	0.28	0.06
16	7.58	7.61	7.49	70	67	100	98	0.75	0.66	1.78	1.71	2.42	0.21	0.07
17	7.60	7.60	7.48	71	70	110	116	0.71	0.61	1.82	1.76	2.19	0.19	0.06
18	7.61	7.63	7.51	75	73	115	110	0.68	0.58	1.75	1.69	1.97	0.26	0.06
19	7.64	7.68	7.56	78	76	117	115	0.90	0.80	1.88	1.81	1.97	0.27	0.06
20	7.64	7.70	7.56	78	76	118	115	0.85	0.73	1.81	1.74	1.87	0.27	0.07
21	7.65	7.70	7.58	83	80	122	120	0.81	0.69	1.82	1.73	1.77	0.23	0.07
22	7.65	7.70	7.56	80	76	116	114	0.74	0.62	1.82	1.71	1.69	0.23	0.06
23	7.67	7.69	7.58	80	78	118	115	0.68	0.56	1.74	1.66	1.71	0.20	0.06
24	7.59	7.65	7.52	79	77	127	125	0.63	0.52	1.71	1.62	1.73	0.23	0.06
25	7.61	7.68	7.56	80	78	125	122	0.72	0.59	1.75	1.66	1.68	0.23	0.06
26	7.61	7.66	7.55	84	80	135	132	0.65	0.54	1.72	1.64	1.67	0.23	0.06
27	7.61	7.66	7.55	85	80	125	121	0.69	0.59	1.75	1.65	1.75	0.27	0.06
28	7.59	7.67	7.55	88	85	125	121	0.72	0.61	1.77	1.68	1.69	0.22	0.06
29	7.57	7.67	7.53	83	81	125	120	0.78	0.65	1.83	1.73	1.71	0.24	0.06
30	7.57	7.65	7.53	82	80	123	120	0.68	0.56	1.68	1.57	1.75	0.22	0.06
31														
AVERAGE	7.4	7.4	7.4	61	58	92	89	0.68	0.58	1.75	1.68	3.67	0.25	0.06

**OPTIONAL INFORMATION--Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 04/2016

AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PAGE 4 OF 11

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	9.04		0.31	0.60						0.05	0.04	0.04	0.05		0.04
2	8.40		0.20	0.37						0.04	0.04	0.04	0.03		0.04
3	7.90		0.19	0.69						0.04	0.04	0.04	0.02		0.04
4	7.01		0.20	0.57						0.06	0.05	0.04	0.02		0.06
5	6.61		0.25	0.83						0.05	0.04	0.05	0.05		0.05
6	6.45		0.29	0.88						0.05	0.04	0.04	0.07		0.04
7	6.05		0.25	0.48						0.06	0.05	0.04	0.03		0.04
8	5.60		0.26	0.70						0.06	0.05	0.04	0.03		0.05
9	5.13		0.23	0.58						0.05	0.05	0.06	0.06		0.07
10	4.60		0.22	0.66						0.06	0.05	0.05	0.07		0.05
11	3.98		0.29	0.53						0.06	0.05	0.05	0.04		0.05
12	3.30		0.25	0.31						0.07	0.06	0.05	0.04		0.06
13	3.08		0.23	0.31						0.06	0.05	0.07	0.07		0.06
14	2.83		0.29	0.41						0.06	0.05	0.06	0.07		0.06
15	2.63		0.30	0.44						0.07	0.06	0.05	0.06		0.07
16	2.42		0.18	0.33						0.06	0.06	0.05	0.08		0.07
17	2.19		0.15	0.32						0.06	0.05	0.05	0.09		0.07
18	1.97		0.24	0.44						0.06	0.05	0.07	0.10		0.07
19	1.97		0.25	0.58						0.07	0.07	0.05	0.08		0.07
20	1.87		0.21	0.57						0.07	0.07	0.05	0.08		0.08
21	1.77		0.18	0.42						0.06	0.06	0.07	0.09		0.08
22	1.69		0.24	0.41						0.06	0.06	0.06	0.05		0.06
23	1.71		0.20	0.38						0.07	0.07	0.06	0.05		0.06
24	1.73		0.18	0.40						0.07	0.06	0.06	0.05		0.06
25	1.68		0.22	0.50						0.06	0.06	0.07	0.09		0.07
26	1.67		0.23	0.40						0.06	0.06	0.06	0.06		0.06
27	1.75		0.32	0.42						0.09	0.09	0.06	0.05		0.06
28	1.69		0.21	0.31						0.07	0.07	0.06	0.04		0.06
29	1.71		0.30	0.34						0.07	0.06	0.08	0.19		0.07
30	1.75		0.27	0.38						0.07	0.06	0.07	0.06		0.07
31															
AVERAGE	3.7	#DIV/0!	0.2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.06	0.05	0.06	#DIV/0!	0.06

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 04/2016

\*Please answer Y/N question below this chart.

PAGE 6 OF 11

ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)											
DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer	RAINFALL	WATER TEMP.
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP	FREE / TOTAL	INCHES	DEGREES F°/C°
1	0.06	0.69	0.22	0.00	0.05	0.01			1.55	0.1	11.2
2	0.05	0.65	0.21	0.05	0.05	0.00			1.50	0.0	11.4
3	0.14	0.74	0.30	0.00	0.05	0.00			1.50	0.0	10.6
4	0.10	0.69	0.19	0.03	0.04	0.00			1.60	0.0	11.6
5	0.16	0.69	0.21	0.02	0.04	0.00			1.60	0.0	11.5
6	0.10	0.71	0.19	0.02	0.05	0.00			1.60	0.0	11.4
7	0.12	0.68	0.17	0.05	0.06	0.01			1.50	0.1	11.7
8	0.18	0.72	0.21	0.02	0.04	0.02			1.60	0.1	12.1
9	0.20	0.75	0.16	0.00	0.05	0.00			1.45	0.1	12.1
10	0.12	0.65	0.18	0.04	0.04	0.01			1.55	0.0	11.9
11	0.11	0.83	0.16	0.00	0.04	0.01			1.60	0.0	12.2
12	0.22	0.83	0.13	0.00	0.04	0.00			1.60	0.1	13.0
13	0.16	0.73	0.16	0.02	0.04	0.01			1.60	0.0	13.2
14	0.20	0.70	0.15	0.04	0.04	0.02			1.55	0.0	13.2
15	0.27	0.76	0.16	0.06	0.05	0.01			1.50	0.0	13.6
16	0.21	0.81	0.15	0.02	0.04	0.01			1.55	0.0	14.0
17	0.19	0.69	0.10	0.04	0.04	0.02			1.60	0.0	13.9
18	0.22	0.80	0.14	0.03	0.04	0.02			1.60	0.0	14.2
19	0.22	0.77	0.11	0.02	0.03	0.01			1.50	0.0	14.7
20	0.25	0.78	0.13	0.00	0.04	0.01			1.60	0.0	15.1
21	0.16	0.74	0.13	0.03	0.04	0.02			1.50	0.0	15.2
22	0.16	0.66	0.12	0.03	0.04	0.01			1.50	0.0	15.5
23	0.20	0.87	0.11	0.02	0.04	0.02			1.50	0.3	15.5
24	0.15	0.78	0.13	0.07	0.04	0.01			1.50	0.0	15.4
25	0.19	0.75	0.12	0.02	0.03	0.01			1.55	0.0	15.6
26	0.19	0.86	0.13	0.03	0.04	0.01			1.55	0.0	15.8
27	0.25	1.00	0.11	0.04	0.03	0.01			1.50	0.8	16.3
28	0.29	0.83	0.11	0.02	0.03	0.01			1.50	0.4	16.7
29	0.18	0.80	0.12	0.02	0.04	0.01			1.50	0.2	16.8
30	0.23	0.82	0.11	0.04	0.03	0.03			1.45	0.0	17.0
31											
AVERAGE	0.18	0.76	0.15	0.03	0.04	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	13.7
									1.45		
									Number of readings	30	2.25
									For Free Chlorine, # less than 0.2 mg/L	0	
									For Chloramines, # less than 0.5 mg/L		

Disinfectant Chloramines? (Y/N)

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A

REPORT MONTH/YEAR: 04/2016

PAGE 6 OF 11

DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet)	180	AREA (square feet)	180						
	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	WASHWATER GALLONS	FILT RUN HRS	
1	0										
2	0										
3	33,000	16,000	123.40	17,000	123.40						
4	0										
5	32,000					16000.00	125.90	16,000	125.90		
6	0										
7	30,000	15,000	89.80	15,000	89.80						
8	0										
9	30,000					15,000	90.30	15,000	90.30		
10	0										
11	30,000	15,000	97.90	15,000	97.90						
12	0										
13	31,000					16,000	97.80	15,000	97.80		
14	0										
15	30,000	15,000	91.40	15,000	91.40						
16	0										
17	31,000					15,000	99.40	16,000	99.50		
18	0										
19	0										
20	0										
21	32,000					16,000	90.80	16,000	90.80		
22	0										
23	31,000	16,000	91.50	15,000	91.50						
24	0										
25	30,000					15,000	95.10	15,000	95.10		
26	0										
27	32,000	16,000	99.10	16,000	99.10						
28	0										
29	32,000					16,000	97.60	16,000	97.60		
30	0										
31	0										
<b>TOTAL</b>	404,000	93,000	593.10	93,000	593.10	109,000	696.90	109,000	697.00	0	0.00
<b>AVERAGE</b>	13,032	15,500	98.850	15,500	98.850	15,571	99.557	15,571	99.571	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 04/2016

PAGE 7 OF 11

DAY	CHEMICALS ADDED		DISTRIBUTION SYSTEM OPERATION								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TEST RESULTS								
			TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
T	F	T	F	T	F	T	F				
1			0.63	0.55	1.50	1.46	1.30	1.26	1.28	1.25	
2			1.51	1.43	1.60	1.54	1.62	1.51	1.50	1.42	
3			1.54	1.47	1.47	1.38	1.29	1.22	1.29	1.22	
4			1.31	1.24	0.49	0.40	1.26	1.24	1.16	1.14	
5			1.37	1.34	1.42	1.38	1.09	1.06	1.40	1.39	
6			1.43	1.37	1.41	1.39	1.52	1.44	1.36	1.32	
7			1.28	1.22	1.25	1.19	0.89	0.81	1.27	1.25	
8			1.28	1.25	1.41	1.38	1.27	1.16	1.11	1.02	
9			1.19	1.23	1.27	1.36	1.04	1.16	1.35	1.47	
10			1.19	1.10	1.39	1.31	1.25	1.17	1.39	1.33	
11			1.28	1.19	0.98	0.98	1.10	1.08	1.28	1.23	
12			1.43	1.40	1.51	1.36	0.44	0.38	1.34	1.31	
13			1.18	1.11	1.26	1.20	1.14	1.06	1.20	1.15	
14			1.29	1.26	1.16	1.16	1.39	1.33	1.35	1.31	
15			1.38	1.34	0.73	0.66	1.42	1.35	1.59	1.51	
16			1.36	1.22	1.22	1.14	1.20	1.10	1.09	1.04	
17			1.42	1.35	0.75	0.64	1.59	1.51	1.54	1.46	
18			0.34	0.29	1.40	1.35	1.00	0.92	1.51	1.43	
19			1.19	1.06	1.35	1.28	1.75	1.62	0.51	0.44	
20			1.11	1.01	0.54	0.44	1.29	1.22	1.26	1.15	
21			1.43	1.30	1.11	1.02	1.40	1.37	1.48	1.43	
22			1.23	1.13	1.15	1.10	1.15	1.08	0.99	0.91	
23			1.39	1.33	1.65	1.46	1.28	1.19	1.36	1.23	
24			1.26	1.15	1.17	1.06	1.46	1.35	1.36	1.26	
25			1.06	0.97	1.38	1.34	0.46	0.39	1.03	0.92	
26			0.75	0.67	1.49	1.41	1.05	0.91	1.20	1.10	
27			1.06	0.97	0.72	0.61	1.16	1.03	0.75	0.62	
28			1.07	0.95	0.84	0.52	1.04	1.00	1.41	1.32	
29			1.34	1.27	1.51	1.48	1.44	1.38	1.40	1.37	
30			1.34	1.22	0.88	0.76	1.21	1.16	1.27	1.19	
31											
AVERAGE	#DIV/0!	#DIV/0!	Average	1.22	1.15	1.19	1.12	1.22	1.15	1.27	1.21
TOTAL	0.0	0.0	Total Minimum	0.34		0.49		0.44		0.51	
			Free Minimum		0.29		0.40		0.38		0.44

Total # Chlorine Samples		30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L		1	0	1	0	2	0	0	0
Number of Free Residuals	120	Minimum Monthly Free Residual	0.29						
Number of Total Residuals	120	Minimum Monthly Total Residual	0.34						
Total # Less than 0.2 mg/L	0	Disinfectant Chloramines? (Y/N)	N						
Total # Less than 0.5 mg/L		Number of days of operation?	30						

**KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH**  
**WATER TREATMENT PLANT - MONTHLY OPERATING REPORT**

**TURBIDITY REPORT**

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273

PLANT ID : A

Report Period (MM/YYYY): 04/2016

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.043	
2	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.038	
3	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.039	
4	24.0	6	0.05	0.04	0.04	0.04	0.04	0.06	0.061	
5	24.0	6	0.04	0.05	0.05	0.05	0.05	0.05	0.050	
6	24.0	6	0.04	0.04	0.04	0.04	0.04	0.04	0.044	
7	22.5	6	0.04	0.04	0.04	0.04	0.04	0.04	0.043	
8	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.047	
9	24.0	6	0.05	0.05	0.05	0.07	0.05	0.05	0.074	
10	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
11	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.052	
12	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.059	
13	24.0	6	0.06	0.06	0.05	0.05	0.06	0.06	0.060	
14	24.0	6	0.06	0.06	0.05	0.05	0.05	0.05	0.056	
15	24.0	6	0.05	0.05	0.05	0.05	0.04	0.07	0.065	
16	24.0	6	0.07	0.07	0.07	0.05	0.05	0.06	0.069	
17	24.0	6	0.07	0.05	0.07	0.05	0.05	0.06	0.068	
18	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.072	
19	24.0	6	0.07	0.07	0.07	0.06	0.06	0.07	0.072	
20	24.0	6	0.08	0.08	0.08	0.06	0.06	0.07	0.080	
21	24.0	6	0.08	0.08	0.07	0.06	0.07	0.07	0.077	
22	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
23	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
24	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.063	
25	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.067	
26	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.064	
27	24.0	6	0.06	0.06	0.05	0.04	0.05	0.06	0.061	
28	24.0	6	0.06	0.05	0.05	0.04	0.04	0.06	0.063	
29	23.0	6	0.06	0.06	0.06	0.05	0.07	0.07	0.071	
30	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.067	
31	0.0	0							0.000	
Total	717.5	180	TOTAL # OF TURBIDITY SAMPLES TAKEN --						180	0.080

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 0 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding ----> 1 NTU \_\_\_\_\_ 5 NTU \_\_\_\_\_

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Carl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

05/04/2016  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID KY0800273

MONITORING PERIOD (MMYYYY) 04/2016

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>57,401,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,913,367</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,976,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N) _____	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Number of hours of plant operation _____	<u>717.5</u>
Were samples taken every 4 hours of plant operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of samples taken _____	<u>180</u>
Highest single turbidity reading _____	<u>0.08</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU _____	<u>0</u>
Number of samples exceeded 0.3 NTU _____	<u>0</u>
Number of samples exceeded 1 NTU _____	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU _____	
Number of samples exceeded 5 NTU _____	

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded _____	<u>30</u>
Lowest single chlorine reading _____	<u>1.45</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L _____	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L _____	

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorine dioxide reading _____	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	<u>0</u>

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorite reading _____	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L _____	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

Earl T. Alley  
Signature of Principal Executive Officer or Authorized Agent

05/04/2016  
Date



RECEIVED  
 JUN 09 2016  
 BY: \_\_\_\_\_

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

Revised 01/04/07

MONTH & YEAR (mm/yyyy)

05/2016

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	KY0800273	PLANT ID: A	PLANT NAME:	Martin County Water District
PWS NAME:	Martin County Water District	PLANT CLASS: 3	DIST. CLASS: 2	
AGENCY INTEREST (AI):	2987	DATE MAILED:	6/8/2016	
SOURCE NAME:	Crum Reservoir	COUNTY:	Martin	
	Tug Fork			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	Earl T Alley	1V-A	17562	
WTP SHIFT 2:	Michael Sartin	1V-A	21944	
WTP SHIFT 3:	Timothy D Reed / Elbert Osborne	1V-A / 11-A	24590 / 27800	
DISTRIBUTION:				

THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
 NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.

**TREATMENT PLANTS COMPLETE:**

1. DESIGN CAPACITY (gpm):	1,667
2. TYPE OF FILTRATION USED:	Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.):	2.66
4. PERCENT BACKWASH WATER USED:	0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED:	#2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED:	

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

06/08/2016  
 DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 05/2016

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			Del Pac		Polymer		Pre		Pre		Post	
			LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM	LBS	PPM
1	1,944,000	24.0	109.8	6.8	4.2	0.3			350.6	21.6	169.2	10.4
2	1,936,000	24.0	146.6	9.1	4.2	0.3			396.4	24.6	172.1	10.7
3	1,540,000	24.0	224.2	17.5	4.2	0.3			326.2	25.4	164.4	12.8
4	1,485,000	24.0	257.4	20.8	4.2	0.3			343.3	27.7	162.1	13.1
5	1,650,000	24.0	257.4	18.7	4.2	0.3			408.3	29.7	148.9	10.8
6	1,893,000	24.0	257.4	16.3	4.2	0.3			484.6	30.7	173.4	11.0
7	1,904,000	24.0	257.4	16.2	4.2	0.3			502.0	31.6	176.6	11.1
8	1,919,000	23.0	246.8	15.4	4.0	0.2			428.0	26.7	162.2	10.1
9	1,821,000	23.0	246.8	16.3	4.0	0.3			449.0	29.6	162.2	10.7
10	1,929,000	24.0	257.4	16.0	4.2	0.3			513.4	31.9	169.3	10.5
11	1,915,000	24.0	257.4	16.1	1.2	0.1			494.0	30.9	166.2	10.4
12	1,920,000	24.0	257.4	16.1					494.0	30.9	166.2	10.4
13	1,899,000	24.0	257.4	16.3					494.0	31.2	166.2	10.5
14	1,981,000	24.0	257.4	15.6					458.8	27.8	159.8	9.7
15	1,933,000	24.0	257.4	16.0					475.8	29.5	159.8	9.9
16	1,907,000	24.0	257.4	16.2					508.4	32.0	189.1	11.9
17	1,890,000	24.0	257.4	16.3					452.2	28.7	165.2	10.5
18	1,774,000	22.0	236.1	16.0					414.4	28.0	152.0	10.3
19	1,937,000	24.0	257.4	15.9					548.5	34.0	183.1	11.3
20	1,908,000	24.0	257.4	16.2	2.3	0.1			552.5	34.7	183.2	11.5
21	1,910,000	24.0	257.4	16.2	2.3	0.1			552.7	34.7	173.3	10.9
22	1,984,000	24.0	257.4	15.6	2.3	0.1			538.0	32.5	169.2	10.2
23	1,940,000	24.0	257.4	15.9	2.3	0.1			590.4	36.5	191.2	11.8
24	1,957,000	24.0	257.4	15.8	2.3	0.1			596.3	36.5	191.9	11.8
25	1,934,000	24.0	257.4	16.0	2.3	0.1			619.4	38.4	183.1	11.4
26	1,942,000	24.0	257.4	15.9	2.3	0.1			569.3	35.2	173.4	10.7
27	1,985,000	24.0	257.4	15.5	2.3	0.1			607.7	36.7	183.1	11.1
28	1,968,000	24.0	257.4	15.7	2.3	0.1			607.5	37.0	159.8	9.7
29	1,947,000	24.0	257.4	15.9	2.3	0.1			581.4	35.8	183.1	11.3
30	1,989,000	24.0	257.4	15.5	2.3	0.1			590.5	35.6	183.1	11.0
31	1,922,000	24.0	257.4	16.1	2.3	0.1			603.9	37.7	183.1	11.4
TOTAL	58,563,000		7645.3		70.4		0.0		15552.5		5325.5	
AVERAGE	1,889,129		246.6	15.7	3.1	0.2	#DIV/0!	#DIV/0!	501.7	31.7	171.8	10.9
MAX	1,989,000											



KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 05/2016

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)													
	pH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
								TOTAL	FREE	TOTAL	FREE			
1	7.60	7.60	7.48	79	83	125	126	0.58	0.47	1.68	1.58	2.01	0.31	0.06
2	7.49	7.58	7.48	78	75	120	118	0.61	0.50	1.73	1.65	20.20	0.39	0.07
3	7.48	7.51	7.42	78	75	120	118	0.60	0.49	1.77	1.70	26.60	0.37	0.09
4	7.40	7.44	7.39	78	75	115	112	0.60	0.48	1.80	1.70	26.90	0.43	0.07
5	7.42	7.42	7.37	78	75	112	108	0.81	0.68	1.90	1.80	27.60	0.64	0.06
6	7.38	7.40	7.31	72	70	98	97	0.73	0.61	1.79	1.69	27.80	0.49	0.08
7	7.36	7.37	7.27	65	65	88	85	0.81	0.70	1.86	1.76	23.00	0.57	0.06
8	7.29	7.29	7.19	55	61	91	85	0.81	0.68	1.78	1.65	20.50	0.36	0.06
9	7.20	7.24	7.14	52	55	98	94	0.74	0.62	1.82	1.70	16.40	0.32	0.06
10	7.08	7.12	7.05	53	50	85	91	0.81	0.71	1.88	1.76	14.10	0.23	0.06
11	7.06	7.13	7.06	48	46	77	80	0.77	0.67	1.79	1.71	12.20	0.29	0.06
12	7.07	7.11	7.12	50	45	78	75	0.73	0.59	1.65	1.59	11.10	0.38	0.06
13	7.06	7.14	7.22	45	49	70	68	0.84	0.75	1.74	1.68	10.30	0.30	0.06
14	7.05	7.14	7.19	50	53	70	68	0.82	0.72	1.65	1.59	9.71	0.46	0.05
15	7.00	7.11	7.17	42	46	75	72	0.68	0.57	1.64	1.56	8.80	0.42	0.05
16	7.01	7.12	7.20	46	50	80	78	0.74	0.63	1.67	1.58	8.40	0.59	0.07
17	7.00	7.08	7.13	48	52	75	70	0.73	0.62	1.67	1.60	8.40	0.54	0.06
18	7.10	7.17	7.24	50	54	72	75	0.65	0.56	1.67	1.60	7.97	0.32	0.05
19	7.26	7.35	7.37	64	62	98	95	0.57	0.47	1.78	1.67	6.65	0.36	0.05
20	7.28	7.32	7.24	67	60	95	92	0.66	0.53	1.82	1.74	6.03	0.34	0.05
21	7.22	7.33	7.23	73	71	100	95	0.68	0.59	1.75	1.66	5.78	0.30	0.06
22	7.25	7.32	7.24	58	65	91	93	0.57	0.44	1.71	1.62	5.53	0.27	0.05
23	7.22	7.28	7.22	63	66	97	95	0.61	0.49	1.76	1.69	5.32	0.31	0.06
24	7.20	7.28	7.20	63	58	98	95	0.61	0.49	1.81	1.69	5.04	0.31	0.06
25	7.25	7.28	7.19	58	56	90	88	0.64	0.51	1.82	1.73	5.15	0.30	0.05
26	7.16	7.29	7.20	60	57	96	99	1.04	0.92	1.90	1.76	5.00	1.11	0.06
27	7.21	7.23	7.14	60	56	95	92	0.68	0.55	1.85	1.78	5.21	0.32	0.05
28	7.11	7.20	7.10	60	63	92	94	0.73	0.61	1.84	1.73	5.07	0.27	0.06
29	7.12	7.16	7.07	56	57	92	96	0.63	0.49	1.62	1.55	5.12	0.25	0.05
30	7.05	7.17	7.07	60	58	96	93	0.63	0.51	1.78	1.68	4.98	0.31	0.06
31	7.05	7.14	7.06	63	60	95	94	0.72	0.60	1.91	1.81	5.00	0.29	0.06
AVERAGE	7.2	7.3	7.2	60	60	93	92	0.70	0.59	1.77	1.68	11.35	0.39	0.06

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID : KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 05/2016

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
1	2.01		0.57	0.64						0.07	0.07	0.06	0.05		0.07
2	20.20		0.44	0.45						0.11	0.12	0.07	0.09		0.09
3	26.60		0.53	0.72						0.09	0.09	0.07	0.11		0.10
4	26.90		0.25	1.32						0.07	0.07	0.09			0.08
5	27.60		0.29	1.10						0.07	0.06	0.08			0.07
6	27.80		0.27	0.98						0.07	0.06	0.09	0.50		0.10
7	23.00		0.48	1.27						0.09	0.09	0.08	0.06		0.07
8	20.50		0.24	1.08						0.07	0.06	0.06	0.04		0.06
9	16.40		0.19	0.90						0.07	0.06	0.05	0.04		0.06
10	14.10		0.19	0.45						0.06	0.05	0.07	0.08		0.06
11	12.20		0.35	0.72						0.08	0.08	0.05	0.04		0.06
12	11.10		0.20	0.71						0.06	0.06	0.05	0.03		0.05
13	10.30		0.33	0.80						0.06	0.06	0.07	0.10		0.06
14	9.71		0.21	1.81						0.05	0.05	0.05	0.03		0.05
15	8.80		0.20	1.20						0.05	0.05	0.05	0.03		0.05
16	8.40		0.56	1.90						0.08	0.08	0.05	0.03		0.06
17	8.40		0.55	1.18						0.06	0.06	0.07	0.08		0.07
18	7.97		0.24	0.96						0.06	0.05	0.05	0.03		0.06
19	6.65		0.23	0.83						0.08	0.08	0.05	0.03		0.07
20	6.03		0.26	0.72						0.07	0.07	0.05	0.04		0.07
21	5.78		0.30	0.40						0.07	0.06	0.06	0.06		0.07
22	5.53		0.26	0.34						0.06	0.06	0.06	0.04		0.06
23	5.32		0.26	0.54						0.08	0.08	0.05	0.06		0.07
24	5.04		0.26	0.52						0.07	0.07	0.05	0.04		0.07
25	5.15		0.28	0.43						0.06	0.05	0.05	0.04		0.06
26	5.00		4.51	0.53						0.06	0.06	0.08	0.09		0.07
27	5.21		0.36	0.46						0.08	0.06	0.05	0.04		0.07
28	5.07		0.26	0.38						0.07	0.06	0.05	0.04		0.07
29	5.12		0.25	0.34						0.06	0.06	0.05	0.04		0.06
30	4.98		0.25	0.87						0.06	0.06	0.09	0.09		0.08
31	5.00		0.25	0.48						0.06	0.06	0.06	0.04		0.06
AVERAGE	11.4	#DIV/0!	0.4	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.07	0.06	0.07	#DIV/0!	0.07

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 05/2016

\*Please answer Y/N question below this chart.

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DAY	FLUORIDE		IRON		MANGANESE				Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F°/C°
	RAW	TAP	RAW	TAP	RAW	TAP	RAW	TAP			
	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)										
1	0.23	0.93	0.11	0.04	0.03	0.00			1.50	2.3	16.8
2	0.01	0.88	0.20	0.04	0.09	0.01			1.50	0.4	16.8
3	0.00	0.86	0.34	0.03	0.11	0.01			1.50	0.6	17.1
4	0.00	0.48	0.30	0.06	0.11	0.02			1.50	0.1	17.0
5	0.00	0.62	0.35	0.02	0.11	0.01			1.50	0.3	16.9
6	0.00	0.52	0.37	0.02	0.11	0.01			1.57	0.0	17.2
7	0.00	0.74	0.34	0.00	0.11	0.02			1.50	0.0	17.0
8	0.00	0.69	0.41	0.01	0.08	0.01			1.50	0.1	17.1
9	0.00	0.81	0.43	0.02	0.08	0.00			1.60	0.0	17.2
10	0.03	0.75	0.23	0.00	0.06	0.01			1.60	0.0	17.1
11	0.04	0.74	0.25	0.03	0.05	0.00			1.50	1.1	17.2
12	0.13	0.72	0.23	0.05	0.08	0.01			1.50	0.1	17.6
13	0.09	0.78	0.24	0.03	0.08	0.01			1.60	0.1	17.5
14	0.09	0.57	0.22	0.03	0.09	0.02			1.60	0.0	17.3
15	0.04	0.69	0.25	0.02	0.08	0.02			1.60	0.0	16.8
16	0.11	0.79	0.19	0.02	0.08	0.01			1.50	0.0	17.1
17	0.11	0.78	0.25	0.04	0.09	0.01			1.50	0.1	17.3
18	0.11	0.70	0.22	0.04	0.10	0.01			1.40	0.1	17.1
19	0.11	0.81	0.17	0.03	0.09	0.01			1.55	0.2	17.2
20	0.03	0.72	0.19	0.04	0.09	0.02			1.57	0.0	17.2
21	0.07	0.82	0.17	0.00	0.08	0.01			1.60	0.7	17.9
22	0.00	0.64	0.16	0.01	0.08	0.04			1.50	0.3	17.1
23	0.11	0.76	0.14	0.02	0.10	0.01			1.50	0.0	17.3
24	0.11	0.72	0.12	0.02	0.09	0.01			1.55	0.0	17.4
25	0.09	0.68	0.16	0.04	0.10	0.01			1.65	0.0	17.7
26	0.08	0.76	0.13	0.04	0.12	0.02			1.60	0.0	17.8
27		0.70	0.15	0.07	0.14	0.01			1.65	0.2	17.8
28	0.06	0.72	0.19	0.00	0.10	0.01			1.50	0.0	18.0
29	0.10	0.85	0.18	0.00	0.20	0.02			1.50	0.0	17.7
30		0.74	0.10	0.00	0.12	0.01			1.60	0.0	17.8
31		0.79	0.18	0.03	0.12	0.01			1.60	0.0	17.9
AVERAGE	0.06	0.73	0.22	0.03	0.10	0.01	#DIV/0!	#DIV/0!	Monthly Minimum	Total Rainfall	17.3

	1.40
Number of readings	31
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

Disinfectant Chloramines? (Y/N)  N

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 05/2016  
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DAY	TOTAL WASH WATER GALLONS	FILTER OPERATION									
		No: 3		No: 4		No: 5		No: 6		No:	
		AREA (square feet) 180	FILT RUN HRS	AREA (square feet) 180	FILT RUN HRS	AREA (square feet) 180	FILT RUN HRS	AREA (square feet) 180	FILT RUN HRS	AREA (square feet)	FILT RUN HRS
1	34,000	17,000	98.60	17,000	97.50						
2	0										
3	0										
4	0										
5	30,000							30,000			
6	21,000					21,000	148.20				
7	30,000	15,000	135.50	15,000	135.50						
8	0										
9	34,000					17,000	77.30	17,000	91.00		
10	0										
11	30,000	15,000	97.60	15,000	97.60						
12	0										
13	31,000					15,000	88.00	16,000	88.00		
14	0										
15	30,000	15,000	99.60	15,000	99.60						
16	0										
17	31,000					15,000	94.60	16,000	94.60		
18	0										
19	30,000	15,000	88.20	15,000	88.20						
20	0										
21	30,000					15,000	92.50	15,000	92.50		
22	0										
23	30,000	15,000	95.00	15,000	95.00						
24	0										
25	30,000					15,000	103.50	15,000	103.50		
26	0										
27	30,000	15,000	95.20	15,000	95.20						
28	0										
29	30,000					15,000	94.90	15,000	94.90		
30	0										
31	30,000	15,000	99.30	15,000	99.30						
TOTAL	481,000	122,000	809.00	122,000	807.90	113,000	699.00	124,000	564.50	0	0.00
AVERAGE	15,516	15,250	101.125	15,250	100.988	16,143	99.857	17,714	94.083	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID : A

ALL WATER SYSTEMS

REPORT MONTH/YEAR: 05/2018

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DAY	CHEMICALS ADDED		DISTRIBUTION SYSTEM OPERATION								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TEST RESULTS								
			TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
T	F	T	F	T	F	T	F				
1			1.52	1.44	0.95	0.88	1.04	0.95	1.16	1.05	
2			0.90	0.81	0.46	0.38	1.07	0.97	1.08	0.99	
3			1.20	1.06	1.37	1.28	0.95	0.92	1.10	1.01	
4			1.19	1.11	1.11	1.02	1.20	1.13	1.39	1.33	
5			1.02	0.96	1.15	1.09	1.23	1.16	1.18	1.13	
6			1.22	1.11	1.29	1.23	1.15	1.06	1.39	1.31	
7			1.41	1.33	1.33	1.26	1.39	1.27	1.19	1.09	
8			1.12	0.97	1.27	1.16	1.08	0.99	1.53	1.40	
9			1.02	0.87	1.38	1.26	1.20	1.06	1.19	1.06	
10			1.24	1.23	1.49	1.42	1.28	1.22	1.12	1.09	
11			1.39	1.27	0.74	0.65	1.02	0.98	1.16	0.98	
12			1.00	0.91	1.07	0.99	1.08	1.06	1.09	0.99	
13			0.72	0.64	1.00	0.87	1.17	1.08	0.76	0.62	
14			1.11	1.03	0.58	0.47	1.31	1.25	1.37	1.29	
15			1.29	1.20	1.03	0.98	1.23	1.08	1.31	1.24	
16			0.49	0.37	1.16	1.05	0.95	0.81	0.35	0.29	
17			1.17	1.09	0.71	0.59	0.92	0.89	1.07	1.00	
18			0.62	0.52	0.62	0.58	1.07	0.99	1.23	1.20	
19			1.16	1.13	1.09	1.06	1.04	1.01	1.19	1.13	
20			1.21	1.11	1.06	0.99	1.02	0.93	1.28	1.26	
21			1.07	0.90	1.01	0.82	1.09	1.05	1.14	1.02	
22			1.12	1.06	1.44	1.36	1.09	1.01	1.25	1.14	
23			0.86	0.73	1.03	0.99	1.13	1.08	0.87	0.81	
24			1.34	1.22	1.19	1.12	1.32	1.24	1.32	1.27	
25			0.98	0.87	1.19	1.12	1.27	1.18	1.34	1.26	
26			0.88	0.79	1.29	1.14	1.19	1.12	0.87	0.72	
27			1.26	1.20	0.34	0.27	1.32	1.28	1.50	1.39	
28			1.19	1.08	1.16	1.05	1.34	1.23	1.59	1.49	
29			1.65	1.59	1.32	1.17	0.89	0.61	0.61	0.53	
30			1.10	1.01	1.13	1.02	1.16	1.05	1.36	1.23	
31			1.05	0.99	1.20	1.08	1.25	1.17	0.52	0.42	
AVERAGE	#DIV/0!	#DIV/0!	Average	1.11	1.02	1.07	0.98	1.14	1.06	1.15	1.06
TOTAL	0.0	0.0	Total Minimum	0.49		0.34		0.89		0.35	
			Free Minimum		0.37		0.27		0.61		0.29

Total # Chlorine Samples	31	31	31	31	31	31	31	31
# Less than 0.2 mg/L/0.5 mg/L	1	0	2	0	0	0	1	0
Number of Free Residuals	124	Minimum Monthly Free Residual	0.27					
Number of Total Residuals	124	Minimum Monthly Total Residual	0.34					
Total # Less than 0.2 mg/L	0	Disinfectant Chloramines? (Y/N)						
Total # Less than 0.5 mg/L		Number of days of operation?						

N  
31

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

**TURBIDITY REPORT**

PWS ID : KY0800273

PLANT ID : A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 05/2016

PAGE: 8 OF 11

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum	
1	24.0	6	0.06	0.06	0.06	0.07	0.05	0.06	0.065	
2	24.0	6	0.09	0.08	0.08	0.07	0.09	0.08	0.088	
3	24.0	6	0.09	0.10	0.08	0.06	0.06	0.07	0.099	
4	24.0	6	0.07	0.07	0.07	0.06	0.06	0.08	0.076	
5	24.0	6	0.07	0.06	0.06	0.06	0.06	0.05	0.067	
6	24.0	6	0.10	0.06	0.05	0.05	0.06	0.05	0.098	
7	24.0	6	0.05	0.06	0.06	0.06	0.07	0.06	0.073	
8	23.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.062	
9	23.0	6	0.06	0.06	0.05	0.06	0.05	0.05	0.058	
10	24.0	6	0.06	0.05	0.05	0.05	0.05	0.05	0.060	
11	24.0	6	0.05	0.05	0.05	0.05	0.05	0.06	0.061	
12	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
13	24.0	6	0.05	0.05	0.04	0.05	0.06	0.05	0.063	
14	24.0	6	0.05	0.05	0.05	0.05	0.05	0.05	0.051	
15	24.0	6	0.05	0.05	0.05	0.04	0.04	0.05	0.047	
16	24.0	6	0.06	0.05	0.04	0.05	0.05	0.05	0.057	
17	24.0	6	0.05	0.05	0.05	0.06	0.07	0.06	0.066	
18	22.0	6	0.06	0.05	0.06	0.05	0.05	0.05	0.056	
19	24.0	6	0.05	0.06	0.06	0.05	0.05	0.07	0.072	
20	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.065	
21	24.0	6	0.06	0.06	0.06	0.06	0.07	0.06	0.065	
22	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.064	
23	24.0	6	0.06	0.06	0.06	0.05	0.05	0.07	0.071	
24	24.0	6	0.07	0.06	0.06	0.06	0.05	0.06	0.066	
25	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.060	
26	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.071	
27	24.0	6	0.06	0.06	0.06	0.05	0.05	0.07	0.074	
28	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.068	
29	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.063	
30	24.0	6	0.08	0.07	0.06	0.06	0.06	0.06	0.077	
31	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.063	
<b>Total</b>	<b>740.0</b>	<b>186</b>	<b>TOTAL # OF TURBIDITY SAMPLES TAKEN --</b>						<b>186</b>	<b>0.099</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y

(Any type of filtration besides slow sand)

Number of samples exceeding ---> 0.1 NTU 0 0.3 NTU 0 1 NTU 0

For slow sand filtration, the number of samples exceeding ---> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.

Earl T. Alley  
 Signature of Principal Executive Officer or Authorized Agent

06/08/2016  
 Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID

KY0800273

MONITORING PERIOD (MMYYYY)

05/2016

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION APPLICABLE TO ALL PLANTS			
PLANT ID <u>A</u>	TOTAL WATER TREATED (gallons)	<u>58,563,000</u>	
PLANT NAME <u>Martin County Water District</u>	AVE. DAILY PRODUCTION (gallons)	<u>1,889,129</u>	
AGENCY INTEREST <u>2987</u>	MAXIMUM PUMPAGE (gallons per day)	<u>1,989,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Was each filter monitored continuously? (Y/N) _____	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>0100</u>	
Number of hours of plant operation _____	<u>740.0</u>
Were samples taken every 4 hours of plant operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of samples taken _____	<u>186</u>
Highest single turbidity reading _____	<u>0.10</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU _____	<u>0</u>
Number of samples exceeded 0.3 NTU _____	<u>0</u>
Number of samples exceeded 1 NTU _____	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU _____	_____
Number of samples exceeded 5 NTU _____	_____

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>0999</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded _____	<u>31</u>
Lowest single chlorine reading _____	<u>1.40</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
<u>Free Chlorine</u> (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L _____	<u>0</u>
<u>Total Chlorine</u> (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L _____	_____

CHLORINE DIOXIDE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1008</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorine dioxide reading _____	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	<u>0</u>

CHLORITE ENTRY POINT MONITORING APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>1009</u>	
Number of days of plant operation _____	<u>31</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorite reading _____	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L _____	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

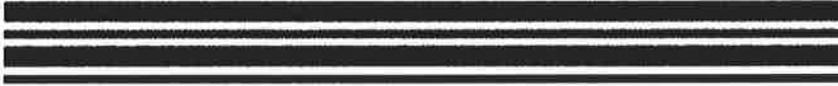
Evelyn T. Alby  
Signature of Principal Executive Officer or Authorized Agent

06/08/2016  
Date



**Return Document**

To: \_\_\_\_\_



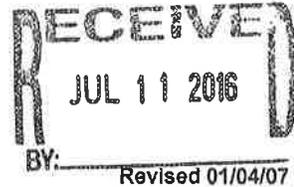
**Patch III - Next page starts new Batch**

Agency Interest	2987
Program Code:	03
Received Date:	6/9/2016
Incident Number:	
Document	ICMRSE
Functional Area	284
Activity ID:	CMN20160010
View Level:	2 - Public
Assign To: (TEMPO)	ogunsanyat
Document Title:	KY0800273 MOR 0516

Batch Name: 110

- Duplex
- Color Map
- Oversized Attachment
- Legal-sized Attachment
- Other

Received  
JUN 16 2016  
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KENTUCKY DIVISION OF WATER  
DRINKING WATER BRANCH  
MONTHLY OPERATION REPORT (MOR)--ALL WATER SYSTEMS

MONTH & YEAR (mm/yyyy) 06/2016

Indicate one with "X"

- SURFACE WATER
- GROUNDWATER
- PURCHASE/DISTRIBUTE ONLY

DEP Form 4012--Revised 07/2006

PWS ID :	<u>KY0600273</u>	PLANT ID: <u>A</u>	PLANT NAME:	<u>Martin County Water District</u>
PWS NAME:	<u>Martin County Water District</u>	PLANT CLASS: <u>3</u>	DIST. CLASS:	<u>2</u>
AGENCY INTEREST (AI):	<u>2987</u>	DATE MAILED:	<u>07/08/2016</u>	
SOURCE NAME:	<u>Crum Reservoir</u>	COUNTY:	<u>Martin</u>	
	<u>Tug Fork</u>			
	OPERATOR(S) RESPONSIBLE / IN-CHARGE	CLASS	CERTIFICATION NUMBER	
WTP SHIFT 1:	<u>Earl T Alley</u>	<u>1V-A</u>	<u>17562</u>	
WTP SHIFT 2:	<u>Michael Sartin</u>	<u>1V-A</u>	<u>21944</u>	
WTP SHIFT 3:	<u>Timothy D Reed / Elbert Osborne</u>	<u>1V-A / 11-A</u>	<u>24590 / 27800</u>	
DISTRIBUTION:				

**THIS REPORT MUST BE RECEIVED BY THE DIVISION OF WATER AND APPLICABLE FIELD OFFICE  
NO LATER THAN 10 DAYS AFTER THE END OF THE MONTH.**

**TREATMENT PLANTS COMPLETE:**

1. DESIGN CAPACITY (gpm): 1,667
2. TYPE OF FILTRATION USED: Dual Media
3. DESIGN FILTRATION RATE (gpm/sq. ft.): 2.66
4. PERCENT BACKWASH WATER USED: 0.8
5. DATE FLOCCULATION BASIN(S) LAST CLEANED: #2 - 3/18/10 #3 - 9/2/09
6. DATE SETTLING BASIN(S) LAST CLEANED: \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See KRS 224.99-010 and 401 KAR 8:020. (Penalties under this statute and regulation may include fines up to \$25,000 per violation or by imprisonment for not more than one year, or both).

Earl T. Alley  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

07/08/2016  
DATE

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KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 06/2016

PAGE 1 OF 11

APPLICABLE TO ALL PLANTS

DAY	RAW WATER TREATED GALLONS	HOURS PLANT OPERATED	COAGULANT		COAGULANT		pH ADJUSTMENT		DISINFECTANT		DISINFECTANT	
			LBS	PPM	LBS	PPM	Pre		Pre		Post	
							LBS	PPM	LBS	PPM	LBS	PPM
1	1,977,000	24.0	257.4	15.6	4.2	0.3			603.9	36.6	169.2	10.3
2	1,938,000	24.0	257.4	15.9	4.2	0.3			583.2	36.1	169.2	10.5
3	1,993,000	24.0	257.4	15.5	4.2	0.3			583.2	35.1	183.1	11.0
4	1,935,000	24.0	214.8	13.3	4.2	0.3			614.8	38.1	183.2	11.4
5	1,960,000	24.0	193.3	11.8	4.2	0.3			583.0	35.7	183.2	11.2
6	1,961,000	24.0	193.3	11.8	4.2	0.3			644.2	39.4	183.2	11.2
7	1,992,000	24.0	193.3	11.6	4.2	0.3			655.6	39.5	183.2	11.0
8	1,970,000	24.0	193.3	11.8	4.2	0.3			644.2	39.2	183.2	11.2
9	1,977,000	24.0	193.3	11.7	4.2	0.3			748.0	45.4	192.5	11.7
10	1,978,000	24.0	193.3	11.7	4.2	0.3			661.8	40.1	183.2	11.1
11	1,972,000	24.0	193.3	11.8	4.2	0.3			732.0	44.5	191.4	11.6
12	1,966,000	24.0	193.3	11.8	4.2	0.3			673.4	41.1	173.8	10.6
13	1,993,000	24.0	193.3	11.6	4.2	0.3			668.0	40.2	183.1	11.0
14	1,924,000	24.0	193.3	12.0	4.2	0.3			673.2	42.0	183.1	11.4
15	1,998,000	24.0	193.3	11.6	4.2	0.3			673.4	40.4	183.1	11.0
16	1,958,000	24.0	193.3	11.8	4.2	0.3			696.0	42.6	183.1	11.2
17	1,960,000	24.0	193.3	11.8	4.2	0.3			707.1	43.3	183.2	11.2
18	2,027,000	24.0	256.3	15.2	4.2	0.2			715.6	42.3	193.1	11.4
19	1,993,000	24.0	330.6	19.9	4.2	0.3			711.6	42.8	183.1	11.0
20	1,986,000	24.0	330.6	20.0	4.2	0.3			734.3	44.3	183.1	11.1
21	2,009,000	24.0	330.6	19.7	4.2	0.3			746.7	44.6	193.1	11.5
22	1,626,000	19.5	268.7	19.8	3.4	0.3			581.9	42.9	173.2	12.8
23	1,805,000	21.5	294.6	19.6	3.8	0.3			671.1	44.6	195.4	13.0
24	1,973,000	24.0	330.6	20.1	4.2	0.3			738.3	44.9	213.1	13.0
25	1,923,000	24.0	330.6	20.6	4.2	0.3			759.1	47.3	213.1	13.3
26	1,946,000	24.0	330.6	20.4	4.2	0.3			782.1	48.2	213.1	13.1
27	1,899,000	24.0	330.6	20.9	4.2	0.3			846.3	53.4	213.1	13.5
28	1,896,000	24.0	330.6	20.9	4.2	0.3			876.8	55.4	213.1	13.5
29	1,954,000	24.0	330.6	20.3	4.2	0.3			887.5	54.5	213.1	13.1
30	1,667,000	24.0	330.6	21.2	4.2	0.3			900.3	57.8	234.3	15.0
31												
TOTAL	58,356,000		7625.4		124.8		0.0		21096.6		5727.9	
AVERAGE	1,945,200		254.2	15.7	4.2	0.3	#DIV/0!	#DIV/0!	703.2	43.4	190.9	11.8
MAX	2,027,000											

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 08/2016

PAGE 2 OF 11

APPLICABLE TO ALL PLANTS

CHEMICALS ADDED														
DAY	DISINFECTANT		FLUORIDE		CARBON		pH ADJUSTMENT		KMnO <sub>4</sub>		CORROSION INHIBITOR		H2O2	
	LBS	PPM	LBS	PPM	LBS	PPM	Post		LBS	PPM	LBS	PPM	LBS	PPM
							LBS	PPM						
1	773.1	46.9	60.9	3.7	126.9	7.7								
2	752.4	46.6	60.9	3.8	126.9	7.9								
3	766.3	46.1	60.9	3.7	126.9	7.6								
4	798.0	49.4	60.9	3.8	126.9	7.9								
5	766.2	46.9	60.9	3.7	126.9	7.8								
6	827.4	50.6	60.9	3.7	126.9	7.8								
7	838.8	50.5	60.9	3.7	95.1	5.7	46.4	2.8						
8	827.4	50.4	60.9	3.7	79.3	4.8	69.5	4.2						
9	940.5	57.0	60.9	3.7	79.3	4.8	69.5	4.2						
10	845.0	51.2	60.9	3.7	79.3	4.8	69.5	4.2						
11	864.6	52.6	60.9	3.7	79.3	4.8	69.5	4.2						
12	847.2	51.7	60.9	3.7	79.3	4.8	69.5	4.2						
13	851.1	51.2	60.9	3.7	79.3	4.8	69.5	4.2						
14	858.3	53.4	60.9	3.8	79.3	4.9	69.5	4.3						
15	856.5	51.4	60.9	3.7	79.3	4.8	69.5	4.2						
16	879.1	53.8	60.9	3.7	79.3	4.9	69.5	4.3						
17	890.3	54.5	60.9	3.7	83.4	5.1	37.7	2.3						
18	908.7	53.8	60.9	3.6	83.4	4.9								
19	894.7	53.8	60.9	3.7	92.0	5.5								
20	917.4	55.4	60.9	3.7	92.0	5.6								
21	939.8	56.1	60.9	3.6	92.0	5.5								
22	755.1	55.7	49.5	3.7	74.7	5.5			22.6	1.7				
23	866.5	57.6	54.6	3.6	82.3	5.5			24.9	1.7				
24	951.4	57.8	60.9	3.7	92.0	5.6	69.5	4.2	27.9	1.7				
25	972.2	60.6	60.9	3.8	92.0	5.7	69.5	4.3	27.9	1.7				
26	995.2	61.3	60.9	3.8	92.0	5.7	69.5	4.3	27.9	1.7				
27	1059.4	66.9	60.9	3.8	92.0	5.8	69.5	4.4	27.9	1.8				
28	1089.9	68.9	60.9	3.9	92.0	5.8	69.5	4.4	32.9	2.1				
29	1100.8	67.5	60.9	3.7	92.0	5.8	69.5	4.3	32.9	2.0				
30	1134.6	72.9	60.9	3.9	118.3	7.6	69.5	4.5	42.7	2.7				
31														
TOTAL	26,765.7		1,809.3		2,840.3		1,196.2		267.6		0.0		0.0	
AVERAGE	892.2	55.1	60.3	3.7	94.7	5.8	66.5	4.1	29.7	1.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 06/2018

PAGE 3 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR PPM UNLESS OTHERWISE SPECIFIED)													
	PH			TOTAL ALKALINITY		TOTAL HARDNESS		CHLORINE RESIDUAL				TURBIDITY (NTU)		
	RAW	TOP OF FILTER	TAP	RAW	TAP	RAW	TAP	TOP OF FILTER		PLANT TAP		RAW	SETTLED WATER	PLANT TAP
1	7.00	7.11	7.03	60	58	90	87	0.65	0.53	1.71	1.59	4.98	0.28	0.06
2	7.07	7.11	7.04	60	58	90	86	0.57	0.44	1.79	1.68	4.67	0.25	0.06
3	7.03	7.10	7.02	60	58	93	89	0.52	0.40	1.78	1.66	4.38	0.22	0.06
4	6.97	7.08	7.00	60	58	90	88	0.61	0.50	1.80	1.68	4.26	0.23	0.06
5	6.99	7.11	7.03	63	58	89	86	0.53	0.43	1.71	1.64	4.18	0.26	0.06
6	7.04	7.08	7.04	68	70	86	82	0.62	0.51	1.78	1.70	3.83	0.31	0.06
7	7.02	7.13	7.12	65	70	85	88	0.61	0.51	1.79	1.71	3.95	0.34	0.06
8	7.02	7.14	7.20	60	65	85	88	0.54	0.44	1.80	1.67	3.85	0.34	0.05
9	7.02	7.08	7.15	65	64	87	90	0.59	0.48	1.80	1.71	3.88	0.37	0.05
10	7.01	7.13	7.12	70	68	86	88	0.62	0.52	1.82	1.75	4.07	0.36	0.05
11	7.00	7.11	7.20	70	68	88	90	0.67	0.56	1.85	1.74	4.05	0.35	0.06
12	7.00	7.10	7.22	56	65	85	82	0.75	0.64	1.87	1.75	4.20	0.33	0.05
13	6.96	7.10	7.21	58	56	90	89	0.64	0.50	1.78	1.69	3.58	0.28	0.06
14	6.99	7.09	7.14	62	61	93	89	0.62	0.45	1.85	1.74	3.79	0.29	0.05
15	7.03	7.12	7.24	63	62	90	87	0.62	0.48	1.86	1.78	3.72	0.36	0.06
16	7.02	7.13	7.25	65	60	92	90	0.57	0.39	1.88	1.76	4.15	0.32	0.06
17	7.02	7.12	7.13	65	63	90	88	0.68	0.55	1.85	1.72	4.06	0.40	0.06
18	7.05	7.14	7.09	78	70	97	100	0.67	0.53	1.82	1.72	4.09	0.36	0.06
19	7.01	7.09	7.00	65	63	96	92	0.57	0.44	1.77	1.65	4.10	0.33	0.06
20	7.01	7.11	7.06	64	60	95	92	0.54	0.35	1.84	1.75	4.44	0.41	0.06
21	7.02	7.13	7.07	68	65	93	88	0.61	0.48	1.83	1.72	4.55	0.34	0.07
22	7.03	7.14	7.09	70	65	95	91	0.41	0.29	1.85	1.75	4.42	0.34	0.07
23	7.05	7.15	7.07	72	70	99	95	0.52	0.37	1.86	1.69	4.34	0.26	0.06
24	7.04	7.11	7.12	73	70	98	97	0.55	0.41	1.91	1.75	4.66	0.26	0.06
25	7.03	7.13	7.24	70	73	99	95	0.45	0.30	1.90	1.77	50.00	0.32	0.07
26	7.05	7.11	7.21	68	71	96	106	0.38	0.26	1.85	1.72	58.60	0.32	0.07
27	7.06	7.11	7.22	75	72	99	97	0.48	0.34	1.95	1.80	66.90	0.45	0.09
28	7.02	7.11	7.22	75	70	99	94	0.53	0.39	1.97	1.80	61.90	0.36	0.08
29	7.01	7.12	7.21	64	65	92	85	0.56	0.43	1.96	1.85	57.00	0.46	0.08
30	7.00	7.09	7.20	70	68	88	88	0.58	0.44	1.95	1.80	48.40	0.66	0.07
31														
AVERAGE	7.0	7.1	7.1	66	65	92	90	0.58	0.45	1.84	1.72	14.77	0.34	0.06

**OPTIONAL INFORMATION - Surface Water Plants Only**

KENTUCKY DIVISION OF WATER  
 DRINKING WATER BRANCH  
 WATER TREATMENT PLANT MONTHLY OPERATION REPORT  
 AREA-WIDE OPTIMIZATION PROGRAM TURBIDITY DATA  
 COPY PAGE AS NEEDED

PWS ID: KY0800273  
 PLANT ID: A  
 AGENCY INTEREST: 2987  
 REPORT MONTH/YEAR: 06/2016

ANALYTICAL RESULTS (NTU)															
DAY	RAW DAILY MAXIMUM	SEDIMENTATION BASIN EFFLUENT DAILY MAXIMUM						INDIVIDUAL FILTER EFFLUENT DAILY MAXIMUM							CFE DAILY MAXIMUM
		#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6	#7	
		1	4.98		0.27	0.41						0.09	0.09	0.05	
2	4.67		0.27	0.44						0.07	0.07	0.05	0.04		0.07
3	4.38		0.22	0.30						0.06	0.06	0.08	0.07		0.08
4	4.26		0.29	0.35						0.08	0.08	0.06	0.04		0.07
5	4.18		0.23	0.36						0.07	0.07	0.05	0.04		0.07
6	3.83		0.27	0.45						0.06	0.06	0.07	0.06		0.07
7	3.95		0.30	0.54						0.06	0.06	0.06	0.05		0.07
8	3.85		0.24	0.56						0.08	0.08	0.06	0.04		0.07
9	3.88		0.30	0.60						0.07	0.07	0.05	0.04		0.07
10	4.07		0.28	0.63						0.06	0.06	0.07	0.06		0.07
11	4.05		0.25	0.53						0.06	0.06	0.06	0.04		0.07
12	4.20		0.30	0.49						0.07	0.07	0.06	0.04		0.06
13	3.58		0.25	0.45						0.10	0.09	0.05	0.03		0.08
14	3.79		0.24	0.41						0.06	0.06	0.05	0.03		0.06
15	3.72		0.32	0.79						0.06	0.06	0.07	0.07		0.07
16	4.15		0.28	0.55						0.06	0.06	0.06	0.04		0.06
17	4.06		0.33	0.77						0.09	0.09	0.05	0.04		0.08
18	4.09		0.25	0.74						0.06	0.06	0.07	0.06		0.07
19	4.10		0.24	0.60						0.06	0.06	0.06	0.05		0.07
20	4.44		0.36	0.93						0.09	0.09	0.06	0.04		0.08
21	4.55		0.28	0.52						0.08	0.08	0.06	0.04		0.07
22	4.42		0.32	0.73						0.07	0.07	0.06	0.05		0.07
23	4.34		0.31	0.35						0.06	0.07	0.08	0.06		0.09
24	4.66		0.40	0.40						0.07	0.06	0.06	0.05		0.07
25	50.00		0.35	0.54						0.11	0.11	0.06	0.05		0.10
26	58.60		0.26	0.56						0.08	0.08	0.06	0.05		0.08
27	66.90		0.30	0.77						0.09	0.09	0.10	0.10		0.11
28	61.90		0.40	0.80						0.12	0.11	0.08	0.06		0.10
29	57.00		0.31	0.94						0.11	0.12	0.07	0.06		0.11
30	48.40		0.33	1.72						0.09	0.09	0.07	0.05		0.09
31															
AVERAGE	14.8	#DIV/0!	0.3	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.08	0.08	0.06	0.05	#DIV/0!	0.08

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWSID: KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS

REPORT MONTH/YEAR: 06/2016

\*Please answer Y/N question below this chart.

PAGE 5 OF 11

DAY	ANALYTICAL RESULTS (mg/L OR ppm UNLESS OTHERWISE SPECIFIED)								Lowest Daily Chlorine Residual Plant Tap On-Line Chlorine Analyzer FREE / TOTAL	RAINFALL INCHES	WATER TEMP. DEGREES F <sup>0</sup> /C <sup>0</sup>
	FLUORIDE		IRON		MANGANESE		RAW	TAP			
	RAW	TAP	RAW	TAP	RAW	TAP					
1		0.81	0.15	0.01	0.12	0.01			1.50	0.0	18.0
2		0.69	0.19	0.02	0.13	0.02			1.55	0.0	18.3
3		0.90	0.16	0.03	0.13	0.01			1.55	0.7	18.2
4		0.69	0.16	0.01	0.13	0.01			1.50	0.0	18.2
5		0.62	0.18	0.01	0.15	0.01			1.50	0.4	18.5
6		0.67	0.16	0.00	0.16	0.00			1.45	0.5	18.6
7		0.64	0.15	0.00	0.18	0.00			1.55	0.0	18.4
8		0.68	0.15	0.00	0.17	0.00			1.55	0.0	18.5
9		0.84	0.15	0.00	0.18	0.01			1.60	0.0	18.5
10	0.09	0.78	0.16	0.00	0.19	0.01			1.60	0.0	18.6
11	0.06	0.72	0.15	0.00	0.21	0.01			1.60	0.0	18.9
12	0.13	0.67	0.16	0.03	0.22	0.01			1.55	0.0	19.0
13	0.11	0.81	0.13	0.03	0.23	0.01			1.60	0.6	19.2
14	0.09	0.66	0.18	0.02	0.23	0.01			1.60	0.0	19.4
15	0.10	0.75	0.17	0.03	0.23	0.01			1.50	0.0	19.5
16	0.11	0.71	0.19	0.01	0.24	0.01			1.60	1.5	19.7
17	0.09	0.91	0.19	0.01	0.29	0.01			1.55	0.0	20.0
18	0.13	0.68	0.18	0.03	0.31	0.00			1.60	0.0	20.1
19	0.22	0.95	0.20	0.00	0.25	0.01			1.50	0.0	20.3
20	0.09	0.76	18.00	0.04	0.26	0.02			1.55	0.0	20.6
21	0.05	0.79	0.20	0.79	0.31	0.02			1.55	0.0	20.8
22	0.00	0.62	0.21	0.02	0.29	0.02			1.55	0.3	21.0
23	0.08	0.71	0.21	0.02	0.37	0.02			1.45	0.2	21.0
24	0.07	0.76	0.22	0.01	0.48	0.01			1.50	2.3	20.9
25	0.00	0.85	0.70	0.03	0.51	0.01			1.55	0.0	21.1
26	0.00	0.71	0.89	0.10	0.46	0.01			1.45	0.0	21.5
27	0.00	0.82	0.84	0.02	0.45	0.01			1.50	0.0	21.7
28	0.00	0.75	0.85	0.02	0.43	0.02			1.60	0.9	21.9
29	0.00	0.77	1.01	0.03	0.39	0.02			1.60	0.0	22.0
30	0.00	0.85	0.75	0.02	0.36	0.01			1.55	0.0	22.1
31											
AVERAGE	0.07	0.75	0.90	0.04	0.27	0.01	#DIV/0!	#DIV/0!	Monthly Minimum 1.45	Total Rainfall 7.27	19.8
									30		
									0		

Disinfectant Chloramines? (Y/N)

Number of readings	30
For Free Chlorine, # less than 0.2 mg/L	0
For Chloramines, # less than 0.5 mg/L	

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

APPLICABLE TO ALL PLANTS WITH FILTRATION

PWS ID : KY0800273  
 PLANT ID: A  
 REPORT MONTH/YEAR: 08/2016

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DAY	TOTAL WASH WATER GALLONS	No: <u>3</u>		No: <u>4</u>		No: <u>5</u>		No: <u>6</u>		No: <u>7</u>	
		AREA (square feet)	160								
		WASHWATER GALLONS	FILT RUN HRS								
1	0										
2	30,000					15,000	94.60	15,000	94.70		
3	0										
4	33,000	17,000	91.20	16,000	91.20						
5	0										
6	30,000					15,000	91.30	15,000	91.30		
7	0										
8	30,000	15,000	95.20	15,000	95.20						
9	0										
10	30,000					15,000	95.20	15,000	95.20		
11	0										
12	30,000	15,000	99.30	15,000	99.30						
13	0										
14	29,000					14,000	99.00	15,000	99.10		
15	0										
16	32,000	16,000	94.90	32,000	94.90						
17	0										
18	32,000					15,000	91.20	17,000	91.20		
19	0										
20	30,000	15,000	91.30	15,000	91.30						
21	0										
22	34,000					17,000	94.80	17,000	94.90		
23	0										
24	34,000	17,000	97.10	17,000	92.80						
25	0										
26	36,000					18,000	92.80	18,000	92.60		
27	0										
28	30,000	15,000	87.10	15,000	87.10						
29	0										
30	21,000					10,000	95.30	11,000	95.80		
31	0										
TOTAL	461,000	110,000	856.10	125,000	651.80	119,000	754.20	123,000	754.80	0	0.00
AVERAGE	14,871	15,714	93.729	17,857	93.114	14,875	94.275	15,375	94.350	#DIV/0!	#DIV/0!

COPY AS NEEDED

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

PWS ID : KY0800273

PLANT ID: A

REPORT MONTH/YEAR: 06/2016

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ALL WATER SYSTEMS

DAY	CHEMICALS ADDED		TEST RESULTS								
	CHLORINE BOOSTER LBS	CHLORINE BOOSTER LBS	TOTAL (T) AND FREE (F) CHLORINE RESIDUAL (ppm)								
			NORTH		SOUTH		EAST		WEST		
			T	F	T	F	T	F	T	F	
1			1.11	0.97	0.28	0.24	0.46	0.34	1.19	1.06	
2			0.97	0.82	1.02	0.94	1.20	1.12	1.01	0.88	
3			1.01	0.93	1.20	1.10	1.09	1.00	1.04	0.90	
4			1.14	1.02	0.86	0.75	1.19	1.04	1.09	1.02	
5			0.37	0.29	1.28	1.19	1.17	1.07	0.89	0.81	
6			0.97	0.89	0.34	0.26	0.95	0.82	0.94	0.81	
7			1.20	1.14	0.88	0.79	1.38	1.33	0.92	0.87	
8			0.93	0.84	1.12	1.01	1.29	1.18	0.80	0.54	
9			0.92	0.79	1.12	1.01	1.14	1.00	1.27	1.22	
10			1.16	1.08	1.20	1.10	1.09	1.03	1.29	1.17	
11			1.34	1.21	0.89	0.85	1.53	1.48	1.49	1.37	
12			1.30	1.25	0.42	0.31	0.86	0.70	1.23	1.18	
13			1.10	1.02	1.39	1.29	1.18	1.05	1.06	1.00	
14			0.87	0.72	0.34	0.27	0.74	0.66	1.06	0.96	
15			0.83	0.70	1.22	1.06	1.46	1.38	0.38	0.32	
16			0.93	0.87	1.34	1.20	1.14	0.98	1.32	1.28	
17			0.81	0.77	1.12	1.00	1.13	0.99	0.84	0.73	
18			0.71	0.65	0.53	0.49	1.36	1.30	1.42	1.31	
19			1.25	1.18	1.18	1.02	1.19	1.08	1.02	0.92	
20			0.77	0.69	1.14	0.94	1.06	0.99	0.81	0.73	
21			1.01	0.88	0.80	0.73	0.90	0.79	0.30	0.27	
22			0.92	0.76	0.53	0.44	0.84	0.67	0.51	0.41	
23			0.83	0.87	0.92	0.80	1.03	0.91	1.19	1.03	
24			1.23	1.11	0.30	0.24	1.18	0.98	1.01	0.89	
25			1.35	1.26	1.08	0.90	1.14	1.08	1.26	1.22	
26			0.97	0.84	0.31	0.22	1.17	0.99	1.16	0.98	
27			0.69	0.52	0.83	0.71	0.57	0.46	0.68	0.57	
28			0.99	0.87	1.05	0.88	0.60	0.44	1.34	1.22	
29			1.19	1.09	0.43	0.31	0.69	0.56	0.58	0.50	
30			0.34	0.30	1.07	0.88	1.20	1.05	0.80	0.43	
31											
AVERAGE	#DIV/0!	#DIV/0!	Average	0.97	0.86	0.87	0.76	1.08	0.95	0.98	0.89
TOTAL	0.0	0.0	Total Minimum	0.34		0.28		0.46		0.30	
			Free Minimum		0.29		0.22		0.34		0.27

Total # Chlorine Samples	30	30	30	30	30	30	30	30	30
# Less than 0.2 mg/L/0.5 mg/L	2	0	7	0	1	0	2	0	0

Number of Free Residuals	120	Minimum Monthly Free Residual	0.22
Number of Total Residuals	120	Minimum Monthly Total Residual	0.28
Total # Less than 0.2 mg/L	0		
Total # Less than 0.5 mg/L			

Disinfectant Chloramines? (Y/N) N  
 Number of days of operation? 30

KENTUCKY DIVISION OF WATER - DRINKING WATER BRANCH  
 WATER TREATMENT PLANT - MONTHLY OPERATING REPORT

**TURBIDITY REPORT**

PWS ID : KY0800273  
 PLANT ID: A

APPLICABLE TO ALL PLANTS WITH FILTRATION

Report Period (MM/YYYY): 06/2016

PAGE: **8 OF 11**

PWS Name: Martin County Water District

DAY	Hours Plant Operated	# of Turbidity Samples Required	Mid - 4 am	4 am - 8 am	8 am - Noon	Noon - 4 pm	4 pm - 8 pm	8 pm - Mid	Daily Maximum
1	24.0	6	0.08	0.07	0.07	0.06	0.06	0.07	0.078
2	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.066
3	24.0	6	0.08	0.07	0.06	0.06	0.06	0.06	0.075
4	24.0	6	0.06	0.06	0.06	0.06	0.07	0.07	0.073
5	24.0	6	0.07	0.07	0.07	0.07	0.06	0.06	0.069
6	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.070
7	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.066
8	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.074
9	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.069
10	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.069
11	24.0	6	0.07	0.06	0.06	0.06	0.06	0.06	0.065
12	24.0	6	0.06	0.06	0.06	0.05	0.06	0.06	0.063
13	24.0	6	0.08	0.07	0.06	0.06	0.06	0.06	0.078
14	24.0	6	0.06	0.06	0.06	0.05	0.05	0.06	0.061
15	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.071
16	24.0	6	0.06	0.06	0.06	0.06	0.06	0.06	0.063
17	24.0	6	0.08	0.07	0.07	0.06	0.06	0.06	0.078
18	24.0	6	0.06	0.06	0.06	0.06	0.06	0.07	0.072
19	24.0	6	0.07	0.07	0.06	0.06	0.06	0.06	0.068
20	24.0	6	0.07	0.06	0.06	0.06	0.06	0.08	0.078
21	24.0	6	0.07	0.07	0.07	0.06	0.07	0.07	0.074
22	19.5	5	0.07	0.07	0.07	0.07	0.06	0.06	0.067
23	21.5	6	0.07	0.06	0.07	0.06	0.06	0.09	0.086
24	24.0	6	0.06	0.06	0.07	0.06	0.06	0.07	0.070
25	24.0	6	0.10	0.09	0.09	0.07	0.07	0.07	0.096
26	24.0	6	0.08	0.08	0.08	0.08	0.08	0.08	0.083
27	24.0	6	0.11	0.10	0.10	0.10	0.09	0.09	0.105
28	24.0	6	0.09	0.09	0.09	0.08	0.10	0.09	0.101
29	24.0	6	0.09	0.09	0.09	0.11	0.08	0.08	0.106
30	24.0	6	0.08	0.08	0.08	0.09	0.08	0.08	0.085
31	0.0	0							0.000
<b>Total</b>	<b>713.0</b>	<b>179</b>	TOTAL # OF TURBIDITY SAMPLES TAKEN --					<b>180</b>	<b>0.106</b>

ARE YOU USING EITHER CONVENTIONAL or DIRECT FILTRATION? (Y/N) Y  
 (Any type of filtration besides slow sand)

Number of samples exceeding ----> 0.1 NTU 5 0.3 NTU 0 1 NTU 0  
 For slow sand filtration, the number of samples exceeding ----> 1 NTU          5 NTU         

\*NOTE: The "Number of Turbidity Samples Required" is the number of hours the plant operated divided by 4 rounded up to the next whole number.

I certify that the above turbidity readings were taken every 4 hours during plant operation and in the time frames noted above.  
Earl T. Alley 07/08/2016  
 Signature of Principal Executive Officer or Authorized Agent Date



**KENTUCKY DIVISION OF WATER / DRINKING WATER BRANCH  
MONTHLY OPERATING REPORT (MOR) PLANT SUMMARY FORM**

PWS ID           KY0800273          

MONITORING PERIOD (MMYYYY)           06/2016          

**NOTE: COMPLETE ALL APPLICABLE FIELDS!!! NOT ALL OF THE FIELDS ARE PRE-POPULATED FOR YOU!!!**

PLANT INFORMATION			
APPLICABLE TO ALL PLANTS			
PLANT ID <u>  A  </u>	TOTAL WATER TREATED (gallons)	<u>58,356,000</u>	
PLANT NAME <u>  Martin County Water District  </u>	AVE. DAILY PRODUCTION (gallons)	<u>1,945,200</u>	
AGENCY INTEREST <u>  2987  </u>	MAXIMUM PUMPAGE (gallons per day)	<u>2,027,000</u>	

INDIVIDUAL FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>  0100  </u>	
Was each filter monitored continuously? (Y/N) _____	<input checked="" type="checkbox"/> Y
Were measurements recorded every 15 minutes? (Y/N) _____	<input checked="" type="checkbox"/> Y
Was there a failure of the continuous monitoring equipment? (Y/N) _____	<input type="checkbox"/> N
If Yes, (1) were individual filter effluent turbidity grab samples collected every four hours of operation? (Y/N) _____	<input type="checkbox"/>
(2) was the continuously monitoring equipment repaired within 5 working days? (Y/N) _____	<input type="checkbox"/>
Was individual filter level greater than 1.0 NTU in two consecutive measurements? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 0.5 NTU in two consecutive measurements after on line for more than four hours? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 1.0 NTU in two consecutive measurements in three consecutive months? (Y/N) _____	<input type="checkbox"/> N
Was individual filter level greater than 2.0 NTU in two consecutive measurements in two consecutive months? (Y/N) _____	<input type="checkbox"/> N
<b>If any of the last 4 boxes are YES, fill out the Individual Filter Turbidity Sheet and submit with the MOR</b>	

COMBINED FILTER EFFLUENT TURBIDITY	
APPLICABLE TO ALL PLANTS WITH FILTRATION	
ANALYTE CODE <u>  0100  </u>	
Number of hours of plant operation _____	<u>713.0</u>
Were samples taken every 4 hours of plant operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of samples taken _____	<u>179</u>
Highest single turbidity reading _____	<u>0.11</u>
For all filtration except slow sand filtration:	
Number of samples exceeded 0.1 NTU _____	<u>5</u>
Number of samples exceeded 0.3 NTU _____	<u>0</u>
Number of samples exceeded 1 NTU _____	<u>0</u>
When filtration is slow sand filtration:	
Number of samples exceeded 1 NTU _____	
Number of samples exceeded 5 NTU _____	

ENTRY POINT RESIDUAL DISINFECTANT CONCENTRATION	
APPLICABLE TO ALL PLANTS	
ANALYTE CODE <u>  0999  </u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input checked="" type="checkbox"/> Y
Number of lowest chlorine samples recorded _____	<u>30</u>
Lowest single chlorine reading _____	<u>1.45</u>
If less than required:	
Was residual restored within 4 hours of plant operation? (Y/N) _____	<input type="checkbox"/>
Free Chlorine (for all disinfectants except chloramine):	
Number of samples under 0.2 mg/L _____	<u>0</u>
Total Chlorine (when disinfectant is Chloramine):	
Number of samples under 0.5 mg/L _____	

CHLORINE DIOXIDE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>  1008  </u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorine dioxide reading _____	<u>0.00</u>
Number of chlorine dioxide samples exceeded 0.8 mg/L _____	<u>0</u>

CHLORITE ENTRY POINT MONITORING	
APPLICABLE TO PLANTS UTILIZING CHLORINE DIOXIDE	
ANALYTE CODE <u>  1009  </u>	
Number of days of plant operation _____	<u>30</u>
Were samples taken each day of operation? (Y/N) _____	<input type="checkbox"/>
Number of samples taken _____	<u>0</u>
Highest single chlorite reading _____	<u>0.00</u>
Number of chlorite samples exceeded 1 mg/L _____	<u>0</u>

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Violations of 401 KAR Chapter 8 are subject to severe penalties prescribed in KRS 224.99-010, up to \$25,000 fine per day per violation and in some cases a violation may subject the violator to prison.

East T. Alley  
Signature of Principal Executive Officer or Authorized Agent

07/08/2016  
Date



Received  
JUL 13 2016  
File Room

Return Document  
To:



**Patch III - Next page starts new Batch**

Agency Interest	2987
Program Code:	03
Received Date:	7/11/2016
Incident Number:	
Document	ICMRSE
Functional Area	284
Activity ID:	CMN20160010
View Level:	2 - Public
Assign To: (TEMPO)	ogunsanyat
Document Title:	KY0800273 MOR 0616

Batch Name: 032003174

- Duplex
- Color Map
- Oversized Attachment
- Legal-sized Attachment
- Other

\_\_\_\_\_

## Kentucky Division of Water Operational Evaluation Reporting Form

**RECEIVED**  
DEC 23 2015  
PWSID: KY 0800273  
BY: \_\_\_\_\_

Facility Name: Martin County Water District

The Stage 2 Operational Evaluation Level (OEL) process is used to "predict" TTHM and HAA5 results for the next compliance period. It provides a water system with a process for evaluating their entire system to identify ways to reduce future TTHM and HAA5 levels and avoid non-compliance.

- Once 3 quarters of Stage 2 DBP data is available and every quarter from that time on, Page 1 of this form is to be used to determine if one or more of the compliance monitoring sites have exceeded the Operational Evaluation Levels (OEL) for TTHM and/or HAA5. Use additional pages as needed.
- If the calculated OEL for any site exceeds the MCL, you shall complete Page 2 and submit it to the State no later than 90 days following the end of the quarter. This report includes an examination of system treatment and distribution practices, including storage tank operations, excess storage capacity, distribution system flushing, changes in sources or source water quality, and treatment changes or problems that may contribute to TTHM and HAA5 formation and what steps could be considered to minimize future exceedances.
- Unless the State has issued a written approval limiting the scope of the operational evaluation, Page 2 should be entirely completed.

Date of OEL Report: 12/11/15

Date of written approval for limited evaluation (if applicable): \_\_\_\_\_

Site ID	Analyte	Results from 1st Qtr. 2015 (Two Quarters Ago)	Results from 2nd Qtr. 2015 (Previous Quarter)	Results from 3rd Qtr. 2015 (Current Quarter)	Operation Evaluation Level (OEL)	Check if Column D Exceeds 0.080 mg/L for TTHMs or 0.060 mg/L for HAA5—If so, complete Page 2 and submit to DOW
		A	B	C	D= (A+B+(2*C))/4	
SM8	TTHM	0.039	0.049	0.121	0.083	<input checked="" type="checkbox"/>
	HAA5	0.099	0.057	0.056	0.067	<input type="checkbox"/>
SM7	TTHM	0.036	0.064	0.144	0.097	<input checked="" type="checkbox"/>
	HAA5	0.128	0.062	0.066	0.081	<input type="checkbox"/>
118	TTHM	0.030	0.119	0.107	0.091	<input checked="" type="checkbox"/>
	HAA5	0.098	0.030	0.037	0.051	<input type="checkbox"/>
119	TTHM	0.044	0.054	0.109	0.079	<input type="checkbox"/>
	HAA5	0.078	0.056	0.057	0.062	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>

2

Sample Collection and Handling

Were all TTHM and HAAS samples collected and handled using proper SOPs? Yes  No   
Who collected the samples? PWS  Contract Lab   
Did sample collection and handling factors contribute to exceedance? Yes  No   
Other/Explain: \_\_\_\_\_

Source Quality

Did source water quality factors contribute to exceedance? Yes  No   
(check all that apply)  
 Point or non-point source contamination  Storage time longer than normal  Heavy Rainfall or snowmelt  
 New source placed on-line  Algae bloom in source water  Lake or reservoir turnover  
 Stream flow rates/reservoir level higher than normal  Stream flow rates/reservoir level lower than normal  Long term drought  
Other/Explain: \_\_\_\_\_

Treatment Change/Problems

Did water treatment factors contribute to exceedance? Yes  No   
(check all that apply)  
 Problem with clearwell operation  Increased filter effluent turbidity  Filters operated beyond capacity  
 Abnormal influent turbidity  Coagulation/sedimentation problems  Excessive filter run-time  
 Abnormal influent temperature  Abnormal flow rates/short-circuiting  TOC removal problems  
 Pre-disinfectant added/changed  Sludge blanket/carryover problems  Abnormal pH/Alkalinity  
 Disinfectant feed higher than normal  
Other/Explain: \_\_\_\_\_

Distribution System

Did distribution system factors contribute to exceedance? Yes  No   
(check all that apply)  
 Flushing (routine or compliant)  Fires or hydraulic disturbance  Valves operated in vicinity  
 Disinfectant residual lower than normal  High volume customer usage  Breaks or line replacements  
 Disinfectant residual higher than normal  Water temperature higher than normal  Booster chlorination  
 Water quality at Master Meter exceeds MCL  Low volume customer usage (contributing to high water age)  
Other/Explain: \_\_\_\_\_

Storage Tank Operations

Did water storage operations/factors contribute to exceedance? Yes  No   
(check all that apply)  
 Tank removed from service  Tank upstream from sample site  Excessive storage capacity  
 Tank cleaned/maintenance  Operated "last in -first out"  Excessive ambient temperature  
 Excessive tank draw-down  Improper level fluctuations  Disinfectant residual low in tank  
Other/Explain: \_\_\_\_\_

Additional Comments

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Completed By: Earl T Alley Plant Manager Earl T. Alley  
(Printed Name) (Title) (Signature)

Phone: 606-298-7439 ext 5 E-mail: etalley47@bellsouth.net Date: 12/17/15

RECEIVED  
OCT 05 2015

Division of Water Revised Total Coliform Rule Public Water System Information Form

PWSID: KY 0800273  
 Name: Martin County Water District  
 Address: 387 East Main Street, Suite 140  
 City/State/Zip: Loez, Ky 41224  
 County: Martin  
 Contact Person: John Mills  
 Phone Number: 606-298-3885  
 Email: j.mills@bellsouth.net

Population Calculation & Minimum Number of Required Samples  
 Total # of all meters (enter the all meters for water system) → 3551  
 Standard Calculation X 2.69  
 Population → = 9552  
 Minimum Number of Samples → # 10  
 Reference Total Coliform Frequency Chart on back for Min # of Samples

Questions: If the answer is Yes to any question in this section, please continue to the next section to complete the appropriate information.	Yes	No
Will Public Water System use an alternate population method allowed by the regulation instead of standard calculation?		NO
Will Public Water System take more than the required minimum total coliform samples?		NO
Will Public System have alternate repeat sample site plan?	Yes	

Population Number 9552 Source Standard Calculation Minimum Number of Samples \_\_\_\_\_  
 The additional samples that will be taken plus the minimum required samples is the total number used for compliance. Total number of samples \_\_\_\_\_  
 PWS must attach/include alternative repeat sampling SOP and/or proposed alternative repeat sample site plan with this form.

Signature Earl T. Alley Date 10/6/15

Return completed form and supporting information and documents before September 30th 2015 to:  
 Division of Water  
 Compliance Technical Assistance Branch  
 200 Fair Oaks Lane 4th ATTN: Rodney Ripberger/RTCR  
 Frankfort, KY 40601

ceb



**TOTAL COLIFORM MONITORING FREQUENCY FOR PUBLIC WATER SYSTEMS SERVING MORE THAN 1,000 PEOPLE**

Population Served	Minimum Number of Samples Per Month	Population Served	Minimum Number of Samples Per Month
0 to 1000	1	70,001 to 83,000	80
1,001 to 2,500	2	83,001 to 96,000	90
2,501 to 3,300	3	96,001 to 130,000	100
3,301 to 4,100	4	130,001 to 220,000	120
4,101 to 4,900	5	220,001 to 320,000	150
4,901 to 5,800	6	320,001 to 450,000	180
5,801 to 6,700	7	450,001 to 600,000	210
6,701 to 7,600	8	600,001 to 780,000	240
7,601 to 8,500	9	780,001 to 970,000	270
8,501 to 12,900	10	970,001 to 1,230,000	300
12,901 to 17,200	15	1,230,001 to 1,520,000	330
17,201 to 21,500	20	1,520,001 to 1,850,000	360
21,501 to 25,000	25	1,850,001 to 2,270,000	390
25,001 to 33,000	30	2,270,001 to 3,020,000	420
33,001 to 41,000	40	3,020,001 to 3,960,000	450
41,001 to 50,000	50	3,960,001 or more	480
50,001 to 59,000	60		
59,001 to 70,000	70		

*Handwritten notes:*  
 2015-2016 Monitoring Frequency for Public Water Systems  
 11/10/16  
 11/10/16





# Standard Operating Procedure Guidance for

## Selection of Alternate Repeat Monitoring RTCR Sites

Insert Water System Name

Insert Public Water System ID Number (PWSID)

*Martin County Water District KY0800273*

*Earl T. Alley Plant Manager 10/01/15*  
Prepared By: Insert Name/Title Date

*John T. Mills / General Manager 10/01/15*  
Approved By: Insert Name/Title Date

*[Signature]*  
Approved By: Insert Name/Title Date

Effective Date: *January 1, 2016*

## 5.2 Repeat Sample Determination

- a. Samples must be collected within 24 hours of learning of a Total Coliform positive (TC+) routine sample result. At least three repeat samples must be collected and analyzed for Total Coliform.
  - One repeat sample must be collected from the same tap as the original sample.
  - One repeat sample must be collected upstream according to Section 5.3.
  - One repeat sample must be collected downstream according to Section 5.3.
- b. Systems must collect all repeat samples the same day.
- c. DOW may allow systems with a single service to collect the required set of repeat samples over a three day period or collect a larger volume in one or more sample containers as long as the volume collected is at least 300 ml.
- d. If a repeat sample is TC+, the sample must be analyzed for the presence of E. coli (EC).
- e. If any repeat TC+ sample is also EC+, then the EC+ sample result must be reported to DOW by the end of the day that the PWS is notified.
- f. If one or more repeat samples are positive, the PWS must continue to collect additional sets of repeat samples, at the same three sites, until all samples in a set are coliform absent or an assessment has been triggered and DOW has been notified.
- g. A routine sample, within the five service connections of the initial routine sample, that was collected after an initial routine sample, but before the system learns of the initial routine sample being TC+, may be counted as a repeat sample instead of a routine sample.

## 5.3 Determining Repeat Sample Collection Upstream and Downstream

### Step 1: Sites Within Five Service Connections

Locations must be representative of the distribution system and within 5 service connections of the original TC positive sample. If these locations are not available, proceed to Step 2.

### Step 2: Sites Outside Five Service Connections

The PWS must select an alternative repeat monitoring location that better represents the location of the contamination into the distribution system. In the area of the original TC+, use the following list to determine the locations that are expected to better identify pathways of contamination in the distribution system. This procedure is outlined below.

- a. Allocate sample locations along the same path of water flow through the system at active locations.
- b. Locate sampling points near hospitals, hospices, schools, day cares, and acute care facilities.
- c. Allocate sampling locations to each major land use area.
- d. Allocate sampling locations to account for presence of dead ends.
- e. Allocate sampling locations to each major service area or pressure zone.
- f. Allocate sampling locations to each major area of different pipe material and/or oldest area of the system.
- g. Allocate sampling locations throughout service areas according to the population distribution.

## **1. Background**

The Revised Total Coliform Rule (RTCR) 40 CFR Subpart Y (141.851 through 141.861) sets forth the requirements for Total Coliform and E. coli monitoring for all Public Water Systems. The RTCR purpose is to increase public health protection through the reduction of potential pathways of entry for fecal contamination into distribution systems.

Public Water Systems (PWS) must develop a written sample site plan that includes all the sample locations, including routine and repeat monitoring locations required to comply with the requirements set by the RTCR. The written sample site plan is subject to review and revision by the Kentucky Division of Water (DOW). However, PWS have two (2) options to comply with the repeat monitoring locations in accordance 40 C.F.R. 141.853(a)((5)(i).

- (1) Add fixed locations for the repeat samples on the sample site map; or
- (2) Submit a Standard Operating Procedure (SOP) for selecting alternate repeat monitoring locations for approval. PWSs can choose to use this approved SOP Guidance rather than develop their own.

## **2. Purpose**

The purpose of this document is to set the guidelines for sample site determination of repeat sample locations required by the RTCR.

## **3. Scope**

This procedure applies to all community and non-community water systems under the RTCR.

## **4. Responsibilities**

Public Water Systems are responsible for determining adequate sample locations that will be representative of the area of origin of the initial positive total coliform sample. It is also the responsibility of the PWS to follow the specifications within this Standard Operating Procedure for determination of repeat sample locations.

## **5. Procedure**

If a State PWS follows the requirements set forth in this DOW SOP for the selection of repeat sample locations, the repeat sample locations are not required to be fixed locations on the sample site plan. The system can focus on the extent of the contamination in the distribution system by determining locations specific to the situation.

### **5.1 Routine Sampling Requirements**

Total coliform samples locations for routine sample must be collected at sites which are representative of the water quality throughout the distribution system according to the system's sample site plan. The number of sampling locations required and the selection of these locations is not in the scope of this SOP but is covered in 40 CFR 141.853.

- h. Locate sampling points near and away from system storage facilities.
- i. Locate sample points in both high and low demand areas.

**6. Compliance Determination**

All routine and repeat samples are used in the determination of compliance for the month.

**7. Training**

Personnel who are responsible for the collection of the repeat samples should have training prior to the collection of the samples.

**8. Records**

Chain of Custody sheets, water quality field data, and RTCR results should be documented and maintained in the records of the PWS. RTCR Results must be submitted to DOW within 10 days following the end of the month. When reporting repeat samples (RP) on the State Reports each of the RP samples must reference the laboratory sample number of the original positive routine sample. When reporting a set of RP samples, the RP sample taken from the original total coliform positive site must be reported with the same sampling point identified on the original positive routine sample. The pre-defined generic sampling points **RPU** and **RPD** should be used to identify the upstream and downstream repeat sampling points respectively.

RECEIVED  
OCT 05 2015

Division of Water Revised Total Coliform Rule Public Water System Information Form

PWSID: KY 0800273  
 Name: Martin County Water District  
 Address: 387 East Main Street, Suite 140  
 City/State/Zip: Inez Ky 41224  
 County: Martin  
 Contact Person: John Mills  
 Phone Number: 606-298-3885  
 Email: jmills@bellsouth.net

Population Calculation & Minimum Number of Required Samples  
 Total # of all meters (enter the all meters for water system) → 3551  
 Standard Calculation X 2.69 = 9552  
 Population →  
 Minimum Number of Samples → 10  
 Reference Total Coliform Frequency Chart on back for Min # of Samples

Questions: If the answer is Yes to any question in this section, please continue to the next section to complete the appropriate information.	Yes	No
Will Public Water System use an alternate population method allowed by the regulation instead of standard calculation?		NO
Will Public Water System take more than the required minimum total coliform samples?		NO
Will Public Water System have alternate repeat sample site plan?	YES	

Population Number 9552 Source Standard Calculation Minimum Number of Samples \_\_\_\_\_  
 The additional samples that will be taken plus the minimum required samples is the total number used for compliance. Total number of samples \_\_\_\_\_  
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Signature Earl T. Alley Date 10/6/15

Return completed form and supporting information and documents before September 30th 2015 to:  
 Division of Water  
 Compliance Technical Assistance Branch  
 200 Fair Oaks Lane 4th ATTN: Rodney Ripberger/RTCR  
 Frankfort, KY 40601



66b

**TOTAL COLIFORM MONITORING FREQUENCY FOR PUBLIC WATER SYSTEMS SERVING MORE THAN 1,000 PEOPLE**

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4,901 to 5,800	6	320,001 to 450,000	180
5,801 to 6,700	7	450,001 to 600,000	210
6,701 to 7,600	8	600,001 to 780,000	240
7,601 to 8,500	9	780,001 to 970,000	270
8,501 to 12,900	10	970,001 to 1,230,000	300
12,901 to 17,200	15	1,230,001 to 1,520,000	330
17,201 to 21,500	20	1,520,001 to 1,850,000	360
21,501 to 25,000	25	1,850,001 to 2,270,000	390
25,001 to 33,000	30	2,270,001 to 3,020,000	420
33,001 to 41,000	40	3,020,001 to 3,960,000	450
41,001 to 50,000	50	3,960,001 or more	480
50,001 to 59,000	60		
59,001 to 70,000	70		

220,000 to 240,000 100 to 120  
 1,230,001 to 1,520,000 15  
 1,850,001 to 2,270,000 25  
 2,270,001 to 3,020,000 30  
 3,020,001 to 3,960,000 40  
 3,960,001 or more 50





# Standard Operating Procedure Guidance for

## Selection of Alternate Repeat Monitoring RTCR Sites

Insert Water System Name

Insert Public Water System ID Number (PWSID)

*Martin County Water District KY0800273*

*Earl T. Alley Plant Manager 10/01/15*  
Prepared By: Insert Name/Title Date

*John T. Mills / General manager 10/01/15*  
Approved By: Insert Name/Title Date

*[Signature]*  
Approved By: Insert Name/Title Date

Effective Date: *January 1, 2016*

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- g. Allocate sampling locations throughout service areas according to the population distribution.

## **1. Background**

The Revised Total Coliform Rule (RTCR) 40 CFR Subpart Y (141.851 through 141.861) sets forth the requirements for Total Coliform and E. coli monitoring for all Public Water Systems. The RTCR purpose is to increase public health protection through the reduction of potential pathways of entry for fecal contamination into distribution systems.

Public Water Systems (PWS) must develop a written sample site plan that includes all the sample locations, including routine and repeat monitoring locations required to comply with the requirements set by the RTCR. The written sample site plan is subject to review and revision by the Kentucky Division of Water (DOW). However, PWS have two (2) options to comply with the repeat monitoring locations in accordance 40 C.F.R. 141.853(a)((5)(i).

- (1) Add fixed locations for the repeat samples on the sample site map; or
- (2) Submit a Standard Operating Procedure (SOP) for selecting alternate repeat monitoring locations for approval. PWSs can choose to use this approved SOP Guidance rather than develop their own.

## **2. Purpose**

The purpose of this document is to set the guidelines for sample site determination of repeat sample locations required by the RTCR.

## **3. Scope**

This procedure applies to all community and non-community water systems under the RTCR.

## **4. Responsibilities**

Public Water Systems are responsible for determining adequate sample locations that will be representative of the area of origin of the initial positive total coliform sample. It is also the responsibility of the PWS to follow the specifications within this Standard Operating Procedure for determination of repeat sample locations.

## **5. Procedure**

If a State PWS follows the requirements set forth in this DOW SOP for the selection of repeat sample locations, the repeat sample locations are not required to be fixed locations on the sample site plan. The system can focus on the extent of the contamination in the distribution system by determining locations specific to the situation.

### **5.1 Routine Sampling Requirements**

Total coliform samples locations for routine sample must be collected at sites which are representative of the water quality throughout the distribution system according to the system's sample site plan. The number of sampling locations required and the selection of these locations is not in the scope of this SOP but is covered in 40 CFR 141.853.

- h. Locate sampling points near and away from system storage facilities.
- i. Locate sample points in both high and low demand areas.

**6. Compliance Determination**

All routine and repeat samples are used in the determination of compliance for the month.

**7. Training**

Personnel who are responsible for the collection of the repeat samples should have training prior to the collection of the samples.

**8. Records**

Chain of Custody sheets, water quality field data, and RTCR results should be documented and maintained in the records of the PWS. RTCR Results must be submitted to DOW within 10 days following the end of the month. When reporting repeat samples (RP) on the State Reports each of the RP samples must reference the laboratory sample number of the original positive routine sample. When reporting a set of RP samples, the RP sample taken from the original total coliform positive site must be reported with the same sampling point identified on the original positive routine sample. The pre-defined generic sampling points RPU and RPD should be used to identify the upstream and downstream repeat sampling points respectively.

**Kentucky Division of Water  
Operational Evaluation Reporting Form**

**RECEIVED**  
MAR 09 2016  
PWSID: KY 0300273  
BY: \_\_\_\_\_

Facility Name: Martin County Water District

The Stage 2 Operational Evaluation Level (OEL) process is used to "predict" TTHM and HAA5 results for the next compliance period. It provides a water system with a process for evaluating their entire system to identify ways to reduce future TTHM and HAA5 levels and avoid non-compliance.

- Once 3 quarters of Stage 2 DBP data is available and every quarter from that time on, Page 1 of this form is to be used to determine if one or more of the compliance monitoring sites have exceeded the Operational Evaluation Levels (OEL) for TTHM and/or HAA5. Use additional pages as needed.
- If the calculated OEL for any site exceeds the MCL, you shall complete Page 2 and submit it to the State no later than 90 days following the end of the quarter. This report includes an examination of system treatment and distribution practices, including storage tank operations, excess storage capacity, distribution system flushing, changes in sources or source water quality, and treatment changes or problems that may contribute to TTHM and HAA5 formation and what steps could be considered to minimize future exceedances.
- Unless the State has issued a written approval limiting the scope of the operational evaluation, Page 2 should be entirely completed.

Date of OEL Report: 03/03/16

Date of written approval for limited evaluation (if applicable): \_\_\_\_\_

Site ID	Analyte	Results from 2nd Qtr. 2015 (Two Quarters Ago)	Results from 3rd Qtr. 2015 (Previous Quarter)	Results from 4th Qtr. 2015 (Current Quarter)	Operation Evaluation Level (OEL)	Check if Column D Exceeds 0.080 mg/L for TTHMs or 0.060 mg/L for HAA5—If so, complete Page 2 and submit to DOW
		A	B	C	D= (A+B+(2*C))/4	
SM8	TTHM	0.049	0.121	0.098	0.092	<input checked="" type="checkbox"/>
	HAA5	0.057	0.056	0.058	0.057	<input type="checkbox"/>
SM7	TTHM	0.064	0.144	0.101	0.103	<input checked="" type="checkbox"/>
	HAA5	0.062	0.066	0.038	0.051	<input type="checkbox"/>
118	TTHM	0.119	0.107	0.145	0.129	<input checked="" type="checkbox"/>
	HAA5	0.030	0.037	0.045	0.039	<input type="checkbox"/>
119	TTHM	0.054	0.109	0.082	0.082	<input checked="" type="checkbox"/>
	HAA5	0.056	0.057	0.052	0.054	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>
	TTHM				0.000	<input type="checkbox"/>
	HAA5				0.000	<input type="checkbox"/>



**Sample Collection and Handling**

Were all TTHM and HAA5 samples collected and handled using proper SOPs? Yes  No

Who collected the samples? PWS  Contract Lab

Did sample collection and handling factors contribute to exceedance? Yes  No

Other/Explain: \_\_\_\_\_

**Source Quality**

Did source water quality factors contribute to exceedance? Yes  No

(check all that apply)

- Point or non-point source contamination
- New source placed on-line
- Stream flow rates/reservoir level higher than normal
- Storage time longer than normal
- Algae bloom in source water
- Stream flow rates/reservoir level lower than normal
- Heavy Rainfall or snowmelt
- Lake or reservoir turnover
- Long term drought

Other/Explain: \_\_\_\_\_

**Treatment Change/Problems**

Did water treatment factors contribute to exceedance? Yes  No

(check all that apply)

- Problem with clearwell operation
- Abnormal influent turbidity
- Abnormal Influent temperature
- Pre-disinfectant added/changed
- Disinfectant feed higher than normal
- Increased filter effluent turbidity
- Coagulation/sedimentation problems
- Abnormal flow rates/short-circuiting
- Sludge blanket/carryover problems
- Filters operated beyond capacity
- Excessive filter run-time
- TOC removal problems
- Abnormal pH/Alkalinity

Other/Explain: *filter #6 needs repair work and new media.*

**Distribution System**

Did distribution system factors contribute to exceedance? Yes  No

(check all that apply)

- Flushing (routine or compliant)
- Disinfectant residual lower than normal
- Disinfectant residual higher than normal
- Water quality at Master Meter exceeds MCL
- Fires or hydraulic disturbance
- High volume customer usage
- Water temperature higher than normal
- Low volume customer usage (contributing to high water age)
- Valves operated in vicinity
- Breaks or line replacements
- Booster chlorination

Other/Explain: \_\_\_\_\_

**Storage Tank Operations**

Did water storage operations/factors contribute to exceedance? Yes  No

(check all that apply)

- Tank removed from service
- Tank cleaned/maintenance
- Excessive tank draw-down
- Tank upstream from sample site
- Operated "last in - first out"
- Improper level fluctuations
- Excessive storage capacity
- Excessive ambient temperature
- Disinfectant residual low in tank

Other/Explain: \_\_\_\_\_

**Additional Comments**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Completed By: Earl T Alley  
(Printed Name)

Plant Manager  
(Title)

*Earl T. Alley*  
(Signature)

Phone: 606-298-7439 ext 5

E-mail: etalley47@bellsouth.net

Date: 3/4/16

**RECEIVED**  
MAY 26 2016

**IDSE Report for Standard Monitoring** Page 8 of 10

**V. PEAK HISTORICAL MONTH AND STAGE 2 DBPR COMPLIANCE MONITORING SCHEDULE**

A. Peak Historical Month\* August KY0800273

B. Is Your Peak Historical Month the Same as in Your IDSE Standard Monitoring Plan?

Yes  No

If no, explain how you selected your new peak historical month (attach additional sheets if needed)

C. Proposed Stage 2 DBPR Compliance Monitoring Schedule\*

Stage 2 Compliance Monitoring Site ID	Projected Sampling Date (date or week) <sup>1</sup>			
	period 1	period 2	period 3	period 4
SM7	2 / 2016 4th week	5 / 2016 4th week	8 / 2016 4th week	11 / 2016 4th week
SM8	2 / 2016 4th week	5 / 2016 4th week	8 / 2016 4th week	11 / 2016 4th week

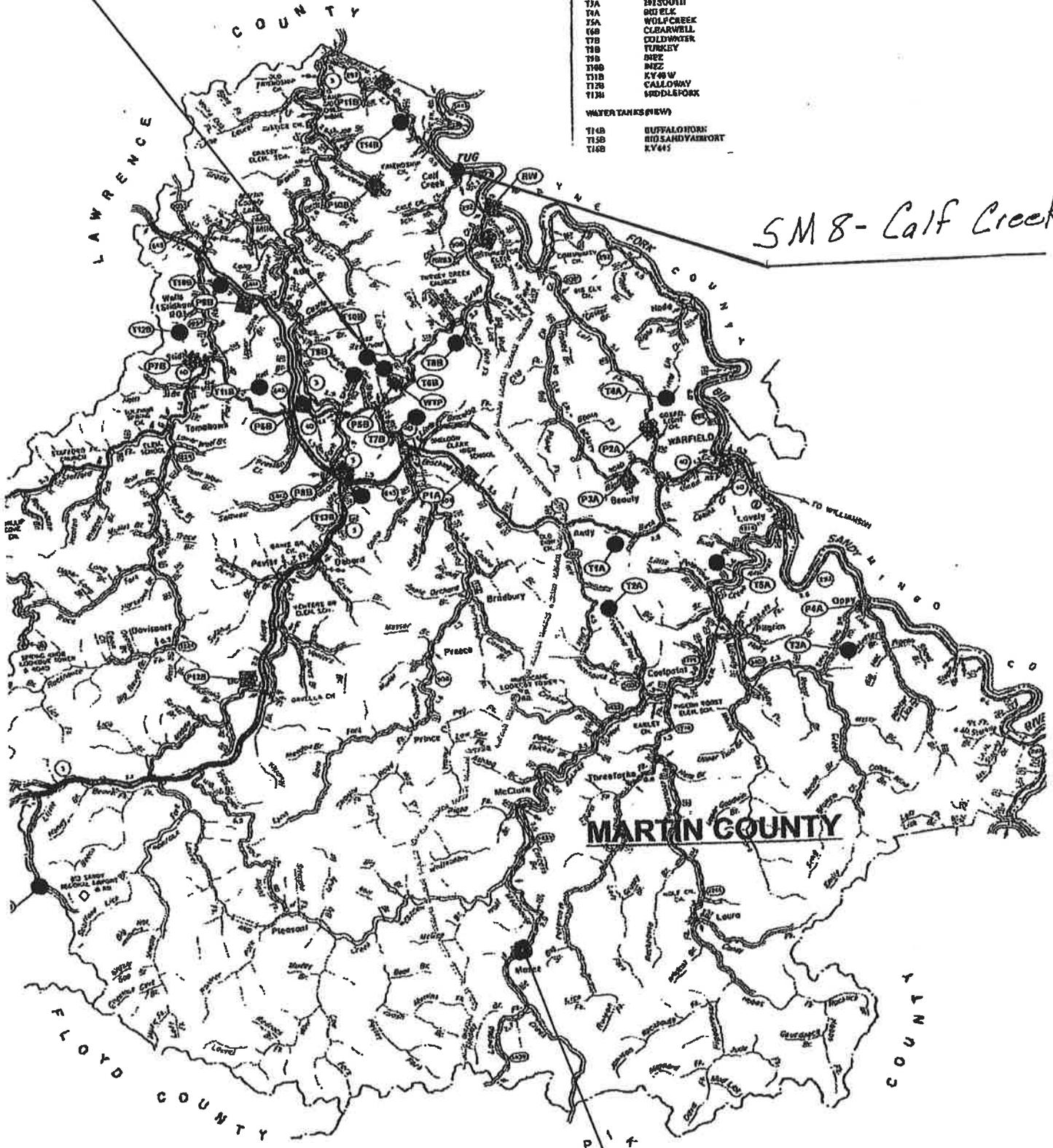
<sup>1</sup> period = monitoring period. Complete for the number of monitoring periods from Section II.C.

Attach additional copies of this sheet if you need more room.

Water Plant

Martin County Water  
Stage 2 Sites

- |      |                   |
|------|-------------------|
| T1A  | BUCK CREEK        |
| T2A  | LITTLE ROCKCASTLE |
| T3A  | BRISTOL           |
| T4A  | DOG ELK           |
| T5A  | WOLF CREEK        |
| T6A  | CLEARWELL         |
| T7B  | COLDWATER         |
| T8B  | TURKEY            |
| T9B  | BEEZ              |
| T10B | BEEZ              |
| T11B | KV 48 W           |
| T12B | CALLOWAY          |
| T13B | WIDDLEFORK        |
| T14B | WIDDLEFORK        |
| T15B | WIDDLEFORK        |
| T16B | WIDDLEFORK        |



SM 8 - Calf Creek

SM 7 - Meat House

# MARTIN COUNTY UTILITY BOARD

387 East Main Street Suite 140  
INEZ, KY 41224

606-298-3885 OFFICE

606-298-4913 Fax

May 20, 2016

Kentucky Division of Water  
ATTN: Kellee Husband, Stage 2 DBP Rule  
Compliance & Technical Assistance Section  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

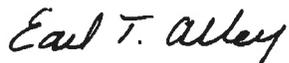
RE: IDSE Change  
PWSID: KY0800273

Dear Mr. Chitti,

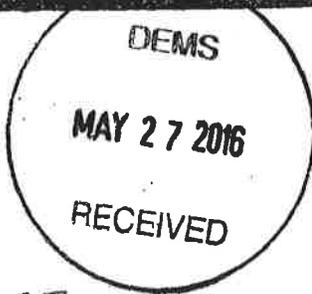
In accordance with 401 KAR 8:510 and 40 CFR 141.621 Martin County Water District respectfully requests that their monitoring requirement be reduced to 2 samples per quarter. The change is being requested because Martin County's population has fallen below 10,000 customers. Please find a revised page 8 for the IDSE, enclosed page 8.

Your approval and processing of these documents is greatly appreciated. We are scheduled to collect our routine samples next week. If you have any questions, please contact me at

Sincerely,



Earl T Alley, Chief Treatment Operator  
Martin County Water District



**Patch III – Next page starts new Batch**

Agency Interest Number:	2987
Program Code:	03
Received Date:	5/20/16
Document Description:	ICMRSE
Functional Area Code:	287

Batch Name: 8	Operator	
Prepared:	Operator	
Scanned:	Operator	Rescan Required:
Quality Check:	Operator	
Rescanned:	Operator	
Indexed:	Operator	
DePrep:	Operator	

- Duplex (2-sided)
- Color pages
- 11 x 17 pages
- 8 1/2 x 14 (legal)
- Other \_\_\_\_\_

<b>NAME:</b>	Martin Co. Water District
<b>COUNTY:</b>	Martin
<b>PWSID:</b>	KY0800273
<b>AI:</b>	2987
<b>Rated Design Capacity (gpm):</b>	1,667
<b>Rated Design Filtration Rate (gpm/ft<sup>2</sup>):</b>	2.66
<b>Number of Filters:</b>	4
<b>Area per Filter (ft<sup>2</sup>):</b>	313
<b>Total Area of Filters (ft<sup>2</sup>):</b>	1,251
<b>Source:</b>	Curtis Crum Reservoir & Tug River
<b>Allowable Draw (gpd):</b>	2,000,000

**Notes:** Currently none of the cells are locked. You can safely delete data without messing up the formatting, by hitting delete, backspace, or...selecting the cells, right clicking, and then choosing 'Clear Contents'. You can paste data straight in from another source, but, don't cut & paste cells or otherwise move them around in the data entry area. It messes up the cell references on later sheets when Excel tries to do calculations. The tabs that are colored light blue are the only worksheets you will need to enter information into. Data you enter will be automatically transferred to the other worksheets for calculation. (Formulas for calculations have been prefilled into the other worksheets.) Headings for rows/columns where you need to enter data are colored light grey, the others are white. Comments are listed on cells giving instructions and directions for where to find needed data. Although this workbook is designed to be as automatic as possible, you will still need some knowledge of Excel.

Year	Month	Number of Days Operated per Month	Total Production (gal)	Average Daily Production (gpd)	Peak Production (gpd)	Peak Day	Length of Plant Operation on Peak Day (hr)	Average Length of Plant Operation per Day (hr)
2013	February	28	53,998,000	1,928,500	1,989,000	7	24.0	23.7
2013	March	31	59,361,000	1,914,871	2,000,000	23	24.0	23.2
2013	April	30	56,784,000	1,892,800	2,012,000	19	24.0	23.0
2013	May	31	59,506,000	1,919,548	1,982,000	1	24.0	23.6
2013	June	30	57,449,000	1,914,967	1,967,000	5	24.0	23.6
2013	July	31	57,272,000	1,847,487	1,907,000	1	24.0	23.9
2013	August	31	57,960,000	1,869,677	1,947,000	31	24.0	23.6
2013	September	30	56,480,000	1,882,667	1,977,000	10	24.0	23.5
2013	October	31	55,864,000	1,802,065	1,887,000	5	24.0	23.4
2013	November	30	54,378,000	1,812,600	1,984,000	30	24.0	22.6
2013	December	31	59,649,000	1,924,161	1,976,000	10	24.0	23.8
2014	January	31	61,153,000	1,972,677	2,052,000	18	24.0	23.9

**ENERGY AND ENVIRONMENT CABINET  
KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
Routine Surface Inspection**

Site/Permit ID: 0800273		Division: <b>Water</b>		Regional Office: Hazard	
Site Name: MARTIN CO. WATER DISTRICT.			Program: <b>Drinking Water</b>		
Site Address: HC69 Box 875					
City: INEZ		State: KY	Zip: 41224	County: Martin	
Inspection Type: Routine Surface		Purpose: Comprehensive		AI #: 2987	
Inspection Date: 9/23/13		Time: Start 9.45 AM End 10.55 AM			
Latitude: 37 52 20.3		Longitude: 82 31 09.8			
Coordinate Collection Method: G40-Handheld receiver				Revision Code: 112108	
<b>Drinking Water Data</b>					
Plant Name: MARTIN CO. WATER DISTRICT		Contact Name: Justin Blackburn			
Phone No.: 606-298-3885		Fax No:		Email Address:	

**I. Administrative Requirements**

Comments:

**I. Compliance Status** - Not Evaluated

**II. Operator Certification/Accreditation Requirements**

**Operator in Charge or on duty.**

Operator Name	Plant Certification #	Distribution Certification #
<b>Tom Alley</b>	<b>0716</b>	
<b>Mike Sartin</b>		<b>09709</b>

Comments:

**II. Compliance Status** - Not Evaluated

**III. Record Keeping Requirements**

Comments:

**III. Compliance Status** - No violations observed

## IV. Reporting Requirements

Comments:

IV. Compliance Status - No violations observed

### V. Operation & Maintenance/Performance Requirements

Plant Type:  C  N  P Service Connections: 3100 Population Served: 10,246

Average Production MGD: 1.6 Max. Production MGD: 1.9 Design Capacity MGD: 2.0

Source: Tug Fork and Reservoir

**RATING CODES:** S1=No Violations Observed; S2=No Violations Obs-but impending viol trends obs; U1=Out of Compliance-No action taken; U2= Out of Comp-LOW non-recurrent Adm. or O & M; U3= Out of Compliance-NOV; NA = Not Applicable; NE = Not Evaluated. (Add additional comments if U1-U3.)

	RATING	Equipment / Inspection Data	<input type="checkbox"/> <b>Checking block means item is present:</b> # Of Levels    # Pumps2 Max pump. 1440
<b>CHEMICAL &amp; PHYSICAL TREATMENT</b>	S1	a) Intakes, pumps, piping <input checked="" type="checkbox"/>	
		b) Aeration <input type="checkbox"/>	
	S1	c) Rapid mix <input checked="" type="checkbox"/>	Type: Mechanical paddle If other:
	S1	d) Flocculation <input checked="" type="checkbox"/>	# of Stages1 # of Trains2 Variable Speedyes
	S1	e) Sedimentation <input checked="" type="checkbox"/>	Type: Up flow # of trains:2
	S1	f) Chemical feed coagulation	Polyaluminum Cl/SO4
		g) Carbon Feed: <input type="checkbox"/>	Feed Site1:            Feed Site 2:
	S1	h) Filters & controls	Dual Media Filter to Waste <input checked="" type="checkbox"/>
	S1	i) Filters / size sq.ft each./ rate	# 4 Size245 Filtration Rate:2
	S1	j) Automatic analyzers:	Chlorine: <input checked="" type="checkbox"/> Turbidity: <input checked="" type="checkbox"/> Each filter: <input checked="" type="checkbox"/> pH: <input type="checkbox"/>
	S1	k) Chemical storage:	Dry on pallets? <input type="checkbox"/> Chemical containment: <input checked="" type="checkbox"/>
	S1	l) Clearwell / screened vents	Size:100,000 Baffling: <input type="checkbox"/> Locked <input checked="" type="checkbox"/> Screened <input checked="" type="checkbox"/>
	S1	m) Pumps # and size in gpm	High Service2 @ 1400 Backwash 1 @ 2600
	<b>SITE DATA</b>	S1	n) Site Data: Sewer Plant
S1		o) Site Data: Speedway	Cl. Free:1.40 Total:            pH:            :
		p) Site Data:	Cl. Free:            Total:            pH:            :
		q) Site Data:	Cl. Free:            Total:            pH:            :
<b>DISINFECTION</b>	S1	r) Disinfection Pre: <input checked="" type="checkbox"/> Post: <input type="checkbox"/>	Pre Type: Chlorine gas Post type:
	S1	s) Automatic chlorinator <input checked="" type="checkbox"/>	Automatic changeover <input checked="" type="checkbox"/> Proper Fan <input checked="" type="checkbox"/>
	S1	t) Separate room & ventilation	Crash Bar <input checked="" type="checkbox"/> Alarm <input checked="" type="checkbox"/>
	S1	u) Safety equipment	SCBA <input checked="" type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Detector <input type="checkbox"/>
<b>LABORATORY &amp; RECORDS</b>	S1	v) Laboratory equipment	Adequate Space <input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Lighting : <input checked="" type="checkbox"/>
	S1	(1) Turbidimeter <input checked="" type="checkbox"/>	Type: hach Last calibrated: daily
	S1	(2) Adequate reagent supply	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	S1	(3) Chlorine Test Kit <input checked="" type="checkbox"/>	Type: lamotte DPD reagent up-to-date: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	S1	w) Monthly operating reports	<input checked="" type="checkbox"/> Daily Record Sheet <input type="checkbox"/> Agreement: <input type="checkbox"/>
	S1	x) Housekeeping	
<b>DISTRIBUTION</b>	S1	y) Master meter ; Recorder	Raw: <input type="checkbox"/> Finished: <input checked="" type="checkbox"/> ; Raw: <input type="checkbox"/> Finished: <input checked="" type="checkbox"/>
		z) Blowoffs / hydrants; flushing	Flushing Schedule: <input type="checkbox"/> Blowoffs on deadends: <input type="checkbox"/>
	S1	aa) Water storage:	# of Tanks 16 Total Storage: 3 million
		bb) Booster pumps / chlorinators	Booster pumps: <input type="checkbox"/> Booster chlorinators: <input type="checkbox"/>
<b>PLANT ON SITE OBSERVATION</b>	S1	cc) Plant Data:	Cl free: 1.66 total:            pH:            :
	S1	dd) Turbidity	Raw:            Settled:            Combined Filter:0.07
		ee) Bacteriological monitoring	Samples per mo.            Records: <input type="checkbox"/>
	S1	ff) No cross-connections observed	None observed: <input checked="" type="checkbox"/> Observed: <input type="checkbox"/> Program: <input type="checkbox"/>
		gg) Wastewater discharge	KPDES Is sizing adequate? <input type="checkbox"/> Yes <input type="checkbox"/> No

Comments:

V. Compliance Status - No violations observed

**VI. Discharge/Emission Compliance**

Comments:

VI. Compliance Status - No violations observed

**VII. Monitoring/Analyses Evaluation**

Comments:

VII. Compliance Status - No violations observed

**VIII. Environmental /Health Impact**

Work Site Hazard Assessment :  ATTACHED  REVIEWED

Comments:

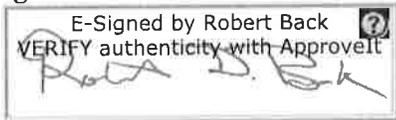
VIII. Compliance Status – No violations observed

**IX. Documentation**

- Samples taken by DEP
- Samples taken by outside source
- Instrument readings taken by DEP regional office
- Photographs obtained by DEP
- Copies of records obtained by DEP
- Other documentation

<b>Inspector:</b> Robert D. Back	<b>Title:</b> Environmental Inspector III	<b>Date:</b> 09/23/13
----------------------------------	---	-----------------------

**Signature:**



**Overall Compliance Status**

No violations observed

<input type="checkbox"/>	No violations observed, but impending violation trends observed
<input type="checkbox"/>	Out of Compliance- No action taken
<input type="checkbox"/>	Out of Compliance LOW non-recurrent administrative or O & M
<input type="checkbox"/>	Out of Compliance - NOV

Comments:

Delivery Method: Regular Mail	Cert. Mail #:
-------------------------------	---------------



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Division of Water  
233 Birch St  
Hazard, KY 417012115  
www.kentucky.gov

September 26, 2013

Martin Co Water District  
14 Flat Hollow  
Inez, Kentucky 41224

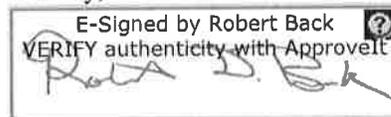
RE: Martin Co Water District -- 2987  
Permit No.: KY0800273  
Martin County, Kentucky  
Activity ID: CIN20130002

Dear Martin Co Water Dist:

Attached for your information and records is a copy of the DW Comp-Surface performed at Martin Co Water District on September 23, 2013.

If you have any questions or comments concerning this inspection, please contact the Hazard Regional Office at: (606) 435-6022.

Sincerely,



Robert Back  
Environmental Inspector  
Hazard Regional Office  
Division of Water

RB  
Enclosure:

**ENERGY AND ENVIRONMENT CABINET  
KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
Routine Surface Inspection**

Site/Permit ID: 0800273		Division: <b>Water</b>		Regional Office: Hazard	
Site Name: MARTIN CO. WATER DISTRICT.			Program: <b>Drinking Water</b>		
Site Address: HC69 Box 875					
City: INEZ		State: KY	Zip: 41224	County: Martin	
Inspection Type: Routine Surface			Purpose: Comprehensive		AI #: 2987
Inspection Date: 12/18/13			Time: Start 9.00 AM End 9.45 AM		
Latitude: 37 52 20.3			Longitude: 82 31 09.8		
Coordinate Collection Method: G40-Handheld receiver				Revision Code: 112108	
<b>Drinking Water Data</b>					
Plant Name: MARTIN CO. WATER DISTRICT		Contact Name: Tom Alley			
Phone No.: 606-298-3885		Fax No:		Email Address:	

**I. Administrative Requirements**

Comments:

**I. Compliance Status - Not Evaluated**

**II. Operator Certification/Accreditation Requirements**

**Operator in Charge or on duty.**

Operator Name	Plant Certification #	Distribution Certification #
<b>Tom Alley</b>	<b>0716</b>	
<b>Mike Sartin</b>		<b>09709</b>

Comments:

**II. Compliance Status - Not Evaluated**

**III. Record Keeping Requirements**

Comments:

**III. Compliance Status - No violations observed**

**IV. Reporting Requirements**

Comments:

**IV. Compliance Status - No violations observed**

<b>V. Operation &amp; Maintenance/Performance Requirements</b>
Plant Type: <input checked="" type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> P Service Connections:3100 Population Served:10,246
Average Production MGD: 1.6 Max. Production MGD: 1.9 Design Capacity MGD: 2.0
Source:Tug Fork and Reservoir

**RATING CODES:** S1=No Violations Observed; S2=No Violations Obs-but impending viol trends obs; U1=Out of Compliance-No action taken; U2= Out of Comp-LOW non-recurrent Adm. or O & M; U3= Out of Compliance-NOV; NA = Not Applicable; NE = Not Evaluated. (Add additional comments if U1-U3.)

	RATING	Equipment / Inspection Data	<input type="checkbox"/> Checking block means item is present:
<b>CHEMICAL &amp; PHYSICAL TREATMENT</b>	S1	a) Intakes, pumps, piping <input checked="" type="checkbox"/>	# Of Levels # Pumps2 Max pump.1440
		b) Aeration <input type="checkbox"/>	
	S1	c) Rapid mix <input checked="" type="checkbox"/>	Type: Mechanical paddle If other:
	S1	d) Flocculation <input checked="" type="checkbox"/>	# of Stages1 # of Trains2 Variable Speedyes
	S1	e) Sedimentation <input checked="" type="checkbox"/>	Type: Up flow # of trains:2
	S1	f) Chemical feed coagulation	Polyaluminum Cl/SO4
		g) Carbon Feed: <input type="checkbox"/>	Feed Site1: Feed Site 2:
	S1	h) Filters & controls	Dual Media Filter to Waste <input checked="" type="checkbox"/>
	S1	i) Filters / size sq.ft each./ rate	# 4 Size245 Filtration Rate:2
	S1	j) Automatic analyzers:	Chlorine: <input checked="" type="checkbox"/> Turbidity: <input checked="" type="checkbox"/> Each filter: <input checked="" type="checkbox"/> pH: <input type="checkbox"/>
	S1	k) Chemical storage:	Dry on pallets? <input type="checkbox"/> Chemical containment: <input checked="" type="checkbox"/>
	S1	l) Clearwell / screened vents	Size:100,000 Baffling: <input type="checkbox"/> Locked <input checked="" type="checkbox"/> Screened <input checked="" type="checkbox"/>
	S1	m) Pumps # and size in gpm	High Service2 @ 1400 Backwash 1 @ 2600
	<b>SITE DATA</b>	S1	n) Site Data: Sewer Plant
S1		o) Site Data: Speedway	Cl. Free:1.51 Total: pH:
		p) Site Data:	Cl. Free: Total: pH:
		q) Site Data:	Cl. Free: Total: pH:
<b>DISINFECTION</b>	S1	r) Disinfection Pre: <input checked="" type="checkbox"/> Post: <input type="checkbox"/>	Pre Type: Chlorine gas Post type:
	S1	s) Automatic chlorinator <input checked="" type="checkbox"/>	Automatic changeover <input checked="" type="checkbox"/> Proper Fan <input checked="" type="checkbox"/>
	S1	t) Separate room & ventilation	Crash Bar <input checked="" type="checkbox"/> Alarm <input checked="" type="checkbox"/>
	S1	u) Safety equipment	SCBA <input checked="" type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Detector <input type="checkbox"/>
<b>LABORATORY &amp; RECORDS</b>	S1	v) Laboratory equipment	Adequate Space <input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Lighting : <input checked="" type="checkbox"/>
	S1	(1) Turbidimeter <input checked="" type="checkbox"/>	Type: hach Last calibrated: daily
	S1	(2) Adequate reagent supply	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	S1	(3) Chlorine Test Kit <input checked="" type="checkbox"/>	Type: lamotte DPD reagent up-to-date: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	S1	w) Monthly operating reports	<input checked="" type="checkbox"/> Daily Record Sheet <input type="checkbox"/> Agreement: <input type="checkbox"/>
<b>DISTRIBUTION</b>	S1	x) Housekeeping	
	S1	y) Master meter ; Recorder	Raw: <input type="checkbox"/> Finished: <input checked="" type="checkbox"/> ; Raw: <input type="checkbox"/> Finished: <input checked="" type="checkbox"/>
		z) Blowoffs / hydrants; flushing	Flushing Schedule: <input type="checkbox"/> Blowoffs on deadends: <input type="checkbox"/>
	S1	aa) Water storage:	# of Tanks 16 Total Storage: 3 million
	bb) Booster pumps / chlorinators	Booster pumps: <input type="checkbox"/> Booster chlorinators: <input type="checkbox"/>	
<b>PLANT ON SITE OBSERVATION</b>	S1	cc) Plant Data:	Cl free: 1.69 total: pH:
	S1	dd) Turbidity	Raw: Settled: Combined Filter:0.06
		ee) Bacteriological monitoring	Samples per mo. Records: <input type="checkbox"/>
	S1	ff) No cross-connections observed	None observed: <input checked="" type="checkbox"/> Observed: <input type="checkbox"/> Program: <input type="checkbox"/>
		gg) Wastewater discharge	KPDES Is sizing adequate? <input type="checkbox"/> Yes <input type="checkbox"/> NO

Comments:

V. Compliance Status - No violations observed

**VI. Discharge/Emission Compliance**

Comments:

VI. Compliance Status - No violations observed

**VII. Monitoring/Analyses Evaluation**

Comments:

VII. Compliance Status - No violations observed

**VIII. Environmental /Health Impact**

Work Site Hazard Assessment :  ATTACHED  REVIEWED

Comments:

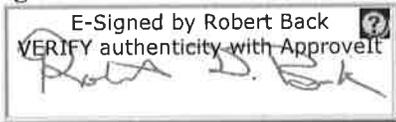
VIII. Compliance Status – No violations observed

**IX. Documentation**

- Samples taken by DEP
- Samples taken by outside source
- Instrument readings taken by DEP regional office
- Photographs obtained by DEP
- Copies of records obtained by DEP
- Other documentation

<b>Inspector:</b> Robert D. Back	<b>Title:</b> Environmental Inspector III	<b>Date:</b> 12/23/13
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**Signature:**



**Overall Compliance Status**

No violations observed

<input type="checkbox"/>	No violations observed, but impending violation trends observed
<input type="checkbox"/>	Out of Compliance- No action taken
<input type="checkbox"/>	Out of Compliance LOW non-recurrent administrative or O & M
<input type="checkbox"/>	Out of Compliance - NOV

**Comments:**

Delivery Method: Regular Mail	Cert. Mail #:
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## PUMP STATION INDEX

NO.	NAME	GPM	ELEV.
P1A	KY 40 E	670	660
P2A	BIG ELK	240	720
P3A	BONE HOLLOW	40	690
P4A	KY 292 SOUTH	130	680
P5B	TURKEY	90	-
P6B	KY 40 W	420	630
P7B	CALLOWAY	90	650
P8B	MIDDLE FORK	245	650
P9B	KY 645	90	680
P10B	PETER CAVE	130	700
P11B	BUFFALO HORN	60	800
P12B	DAVELLA ROAD	350	700
P13A	CASSELL BRANCH	30	640
P14A	BIG LICK BRANCH	30	680
P15B	MEATHOUSE BRANCH	25	800

**Neal, Russell (EEC)**

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**From:** etalley47 [etalley47@bellsouth.net]  
**Sent:** Friday, September 05, 2014 10:00 AM  
**To:** Neal, Russell (EEC)  
**Subject:** Sanitary Survey Reply

Dear Mr. Neal,

In reply to Martin County Waters 2014 Sanitary Survey in which the activated carbon feed system was not operational. As of June 17, 2014, CI Thornburgh Co. out of Huntington West Virginia set up a liquid activated carbon feed system called Thorn Sorb. We are pleased to advise you that this situation has been addressed and resolved.

Sincerely,  
Earl T Alley  
Water Plant Manager



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

ENERGY AND ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
200 FAIR OAKS LANE, 4TH FLOOR  
FRANKFORT KENTUCKY 40601  
[www.kentucky.gov](http://www.kentucky.gov)

May 23, 2014

John Mills  
Martin Co Water District  
387 E Main St Ste 140  
Inez, KY 41224

RE: AI: 2987  
PWSID: KY0800273  
Drinking Water Sanitary Survey

Dear Mr. Mills:

The Division of Water conducted a Drinking Water Sanitary Survey (attached) of Martin Co Water District on April 7 and 29, 2014. A Capacity Development assessment was done as part of the survey.

**Non Significant (written response within 90 days must address deficiencies as resolved or provide a corrective action plan; August 21, 2014)**

- The activated carbon feed system was not operational at the time of the inspection. The feeder is in place but not functioning.

**The Division Recommends:**

- Acquiring a certified technician to test backflow prevention devices.
- Performing an annual review to determine if rates fully cover the expense of water treatment and distribution.
- Reducing water loss to at least the industry standard of 15%.
- Updating the Emergency Response Plan.
- Maintaining copies of the Operation and Maintenance (O&M) Manual in locations other than the water treatment plant office.

All deficiency responses should be sent to the attention of Russell Neal, Compliance and Technical Assistance Branch, Division of Water, 200 Fair Oaks Lane, 4<sup>th</sup> Floor, Frankfort, KY 40601 (phone 502-564-3410, extension 4969).

Assistance with the "Managerial and Financial Assessment" section of the sanitary survey for Martin Co Water District can be obtained by contacting Byron Bland at 502-564-3410 extension 4840.

If you have any questions regarding the "Technical Inspection" portion, contact Robert Back in the Hazard Regional Office at 606-435-6022.

Sincerely,

A handwritten signature in black ink, appearing to read "Russell Neal". The signature is written in a cursive style with a large initial "R" and "N".

Russell Neal  
Sanitary Survey Coordinator  
Division of Water

C: Hazard Regional Office

KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER

**Drinking Water Sanitary Survey**

Managerial and Financial Assessment of Surface Water & Ground Water Systems

PWS ID: KY0800273

Agency Interest Number: 2987

AI Name: Martin County Water District

County: Martin

Regional Office: Hazard

Capacity Development Inspection Date(s): April 9, 2014

SYSTEM CONTACT INFORMATION					
Full Name: John Mills			Title: General Manager		
Phone Number: 606-298-3885		FAX Number: 606-298-4913		E-Mail Address: jmills@bellsouth.net	
Mailing Address: 387 East main St. Suite 140			City: Inez		State: KY
Physical Address of Office: 387 East Main St. Suite 140					Zip Code: KY
WATER TREATMENT PLANT INFORMATION					
Plant Contact Person: Tom Alley			Title: Operator		Phone Number: 606-298-7439
Physical Street Address: 14 Flat Hollow				City: Inez	
Plant Type: C (community)		Plant Class: III (500,000-3,000,000 gpd)		Plant Capacity: 2.4 MGD 1,667 GPM	
DISTRIBUTION SYSTEM INFORMATION					
Distribution Contact Person: John Mills			Title: General Manager		Phone Number: 606-289-3885
Distribution Class: IID-Pop. 1500-15,000			System Service Connections (meters): 3651		
System Population Served Calculated: 10,843			System Population Served Reported:		
Meters Served Outside Your System: 0			Consecutive Systems Population Served Calculated: 0		
WATER PURCHASED, SOLD, & EMERGENCY CONNECTIONS					
WATER PURCHASED FROM: <input type="checkbox"/> Not Applicable			Number of Master Meters	Amount Monthly (average)	Amount Available by Contract (monthly)
SYSTEM NAME	PWS ID #	AI #			
Kermit, WV	WV3303003		1	0	Unlimited
Mountain Water District	KY0980575	3672	1	0	6,000,000
Prestonsburg Utility Comm	KY0360358	1298	1	Emergency	Unlimited
WATER SOLD TO: <input checked="" type="checkbox"/> Not Applicable			Number of Master Meters	Amount Monthly (average)	Amount Available by Contract (monthly)
SYSTEM NAME	PWS ID #	AI #			
<b>COMMENTS:</b>					

**I. OPERATOR COMPLIANCE**

Are operators cross-trained (by shift, by plant, with distribution, with maintenance, etc)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Do you have contingency plans for replacing retiring system personnel?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Who provides training/technical assistance for license renewal? (✓ all that apply): <input type="checkbox"/> AWWA <input type="checkbox"/> DCA <input checked="" type="checkbox"/> DOW <input checked="" type="checkbox"/> KRWA <input type="checkbox"/> KWWOA <input type="checkbox"/> RCAP <input type="checkbox"/> Other _____			
What type of training is typically obtained? (✓ all that apply): <input checked="" type="checkbox"/> REGULATIONS <input checked="" type="checkbox"/> SAFETY <input type="checkbox"/> UMI <input checked="" type="checkbox"/> WATER QUALITY			
Does the system pay for registration, lodging and meals?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system allow operators to attend training on company time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
	<u>Water Treatment Plant</u>	<u>Distribution System</u>	
Length of each shift:	<u>12</u> hours	<u>8</u> hours	
Number of operators per shift:	<u>1</u>	<u>2</u>	
How are weekends covered?	<u>Set Shift</u>	<u>On-call</u>	
How are holidays covered?	<u>Set Shift</u>	<u>On-call</u>	
Do operators leave the water plant property while the plant is producing water?			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
How long are the operators typically away from the plant? _____			
What duties are they performing when they are away from the plant? _____			
<b>OPERATOR CERTIFICATION</b>			
LICENSEE NAME	LICENSEE AI #	LICENSE ID	LICENSE TYPE
Earl T. Alley	27500	2414	DW Distribution IID
	27500	17562	DW Treatment IVA
Michael Sartin	32746	17540	DW Distribution IID
	32746	13623	DW Treatment IIIA
Jerry L. Belcher	50886	13637	DW Treatment IIIA
John T. Mills	111291	21442	DW Distribution ID
Is the system staffed with appropriately certified operators? (Verify certification with DCA.)			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<b>COMMENTS:</b>			

## II. MONITORING, REPORTING & DATA VERIFICATION

*(Part A must be completed for all water systems. Part B must be completed for groundwater systems only.)*

<b>PART A</b> <i>(Complete for all water systems.)</i>		
REPORTING ITEM – Information gathered from DWW	RETENTION TIME	
<i>Bacteriological – 10 per month (See DWW)</i>	5 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Chlorine/Chloramines – Free chlorine monthly with BACTs, daily for MORs, residual chlorine monthly</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>C-T Profiling Data</i>	See if doing/min 1 year	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Individual Filter Turbidity Data (Other than MOR)</i>	3 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>MORs – Monthly (Turbidity Analysis)</i>	1 Year	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Lead &amp; Copper – 30 every 3 years (June to September)</i>	12 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Nitrate – Annually</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Nitrite – 1 sample in the 1<sup>st</sup> 3 years of the 9 year compliance cycle</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Secondary/Corrosivity – Annually</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Sodium – annually; can be with SECs</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>IOCs (Inorganic Chemicals) – Annually</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>SOCs (Synthetic Organic Compounds) – &gt;3300, 2 quarterly samples in 12 consecutive months in 3 years.</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>VOCs (Volatile Organic Chemicals) – Annually</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>TOCs (Total Organic Carbon) – Monthly, Raw TOC/Alkalinity &amp; CFE TOC</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>TTHMs &amp; HAA's 4 per quarter (see DWW)</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Asbestos – 1 sample in the 1<sup>st</sup> 3 years of the 9 year compliance cycle (SOC) *Check for Waiver (only purchasers can have waiver)*</i>	Begin 2011/2013	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>RADs (Radionuclides) – Every 6 years</i>	See if conducting	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>LT2 Cryptosporidium and E.coli Plan – 3 years after bin classification (see rule - first one is April 2009)</i>	3 Years	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>LT2 Source Water Monitoring Avoidance</i>	3 Years	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>LT2 Toolbox Treatment Monitoring Results</i>	3 Years	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>Stage 2 IDSE Sampling Plan or 40/30 Certification</i>	10 years	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>Stage 2 IDSE Report</i>	10 years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Bromate (Only used on systems treating with Ozone)</i>	10 Years	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>Chlorine Dioxide</i>	10 Years	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>Chlorite (Only used on systems treating with Chlorine Dioxide)</i>	10 Years	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>Dioxin – w/SOCs if required *Check for Waiver*</i>	10 Years	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>Data Summaries (if actual data not retained)</i>	12 Years	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>NOVs (Notices of Violation)</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>Sanitary Surveys (every 3 years)</i>	10 Years	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<i>CCR (Consumer Confidence Report) – Annually by July 1 (by April 1 to consecutive systems)</i>	Current one on file	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

Does the system maintain a current sampling plan for BacTs?	Date updated 2008	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system maintain a current sampling plan for LCR?	Date updated 2008	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system maintain a current sampling plan for DBPs?	Date updated 2009	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have an up-to-date map of distribution assets? (Map shall show a minimum of all line sizes, cutoff valves, fire hydrants, flush hydrants, tanks, booster pumps, chlorination stations, connections to emergency or alternative sources, wholesale customer master meters, & the type of piping material in the distribution system and its location.)	Date updated 2009	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

<b>PART B</b> (Complete for groundwater systems only.) <input checked="" type="checkbox"/> Not Applicable				
GWR Corrective Action	10 years	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
GWR Public Notices	3 years	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
GWR Fecal-positive invalidation	5 years	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
GWR State-specified minimum disinfectant residual (letter from CTAB)	10 years	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
GWR Lowest daily disinfectant residual level (submitted with MOR)	5 years	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
What method is used to record this? (i.e. SCADA, chart recorders, download to CD)				
GWR Date and duration of time less than minimum daily disinfectant residual level	5 years	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
GWR Records of state-specific compliance requirements for membrane filtration and alternative treatment	5 years	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

Does the system maintain compliance records as required? (answer for both Parts A & B)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
<b>COMMENTS:</b> The monitoring and reporting documents were well organized and available for review.			

**III. MANAGEMENT & OPERATIONS**

What professional organizations does the water system belong to? <u>KRWA, League of Cities</u>				
Is the system subject to Public Service Commission regulations?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Does the system attend Water Management Council meetings of the Area Development District?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Does the system have a governing entity? If not, explain: _____	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
What is the name of the system's CHAIRMAN? <u>Bill Harvey</u>				
What is his or her mailing address? <u>384 East Main Street, Inez, KY 41224</u>				
How often does the governing body meet? <u>Monthly</u>				
Do operators attend these meetings?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Is the governing entity provided with documented information regarding technical, managerial, and financial operations of the water system? (Inspect)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Is the governing entity familiar with water treatment?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Does the system offer continuing education opportunities for members of the governing entity?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	

Does the governing entity visit the water plant? How often? <u>Monthly</u>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have regular staff meetings? How often? <u>Morning meetings</u> Who is involved? <u>Operators</u>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have a documented strategic plan (mission statement, goals and objectives)? (Inspect)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have a defined organizational structure?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have a documented description of each job classification with minimum position qualifications? (Inspect)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have documented policies and procedures governing human resource management (such as an employee handbook)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system periodically review its insurance coverage is in place for liability, property, automobiles, directors, and officers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have a documented policy for delegation of authority such as signing agreements, contracts, resolutions, easements, etc.?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have a documented procurement policy for purchasing supplies?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have professional services available under a current contract, retainer, or other similar arrangement for engineering, accounting, and legal counsel?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have an asset management program?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have a documented preventive maintenance program?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have a capital improvement plan? (Inspect) How many years does the plan cover? _____	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
<b>Does the system have a documented policy governing water main extensions? (Inspect)</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Are chemicals inventoried? If so, how? <u>Day tanks, weights, volumes each day</u>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Are distribution materials inventoried? If so, how? <u>Monthly inventory count</u>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Is there a bid process for chemicals, pipe, or large item purchases?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have rules and regulations governing the provision of service? (Inspect)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system make available in a public place the rules, rates, and regulations? (Inspect)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system provide 24-hour service response for customers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system notify customers prior to performing scheduled maintenance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system log customer complaints and track resolution?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system provide any educational activities to the public? Who is responsible for providing this? _____ What types of educational activities are done? _____	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
<b>Does the system have sufficient O &amp; M manuals? (Inspect)</b> (O & M manuals shall include: a detailed design of the plant, daily operating procedures, a schedule of testing requirements designating who is responsible for the tests, and safety procedures for operation of the facility – including storage and inventory requirements for materials and supplies.) How are the operators made aware of O & M procedures? <u>Manuals are kept at the treatment plant office and are available for operators to use when needed.</u>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

<b>Has the system received any NOV's for MCLs in the last 3 years?</b> If yes, answer the following:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
If more than one NOV, were any for the same contaminant?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Was a public notice issued when required?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
What remedial measures did the system take to prevent future occurrences of these violations? <u>None</u>			
<b>Does the system maintain a log of all breaks or ruptures per 401 KAR 8:150, Section 4? (Inspect)</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
<b>Is the system operating at or above 85% of its Rated Design Capacity or using at or above 85% of water available through purchase contracts?</b> (see COW)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Plant is currently operating at <u>80.0%</u> (gpm) and <u>78.8%</u> (gpd) of its Rated Design Capacity.			
<b>If system's average daily demand (including volume of water specified through contracts) exceeds 85% of total available capacity (including both plant capacity and water available through purchase contracts), does system have a plan for obtaining additional capacity, including cost and timeframes to address the needed additional capacity?</b>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
If applicable, describe plan for obtaining additional capacity: _____			
<b>COMMENTS:</b>			

**IV. FINANCIAL**

<b>Does the system prepare an annual operating budget?</b> (Provide summary)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
<b>Does the system prepare an annual capital budget?</b> (Inspect)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Who prepares the budget? <u>CPA and Governing Board</u>			
Do the operators have input into the budget?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Are training and license funds built into the budget?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
<b>Does the governing entity review and approve the budget?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
<b>Does the system prepare regular monthly reports to show variances between budgeted and actual revenue and expenses?</b> (Inspect)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system maintain its financial records utilizing the Kentucky Uniform System of Accounting or a comparable system? (Inspect)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
<b>Are financial statements audited by a CPA as required?</b> (Inspect) (Water districts, special districts – i.e. regional water commissions and cities have specific requirements.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
If audit is completed, does the governing entity receive and review the audit report?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system employ a method for depreciation of system assets?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Is the system operating at a retained earnings surplus? (Retained earnings is the net income that is available at the end of the year and available for transfer.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Is the current debt-to-equity ratio below 1.0? (The debt-to equity ratio for any given year is computed by dividing total liabilities by total equity.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Does the water system meet a debt coverage ratio needed for bond ordinances, loan agreements, and bond requirements? A typical value is 1.2. (Debt coverage ratio is computed by dividing cash available for debt service (net income with annual interest, depreciation, amortization, and other non-cash items added back) by debt service requirements for the year.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the water system revenue go to meet other expenses (i.e. electric, sewer or garbage)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Is there a documented policy for delinquent accounts? What is it? <u>Customers get 3 months and monthly late notices before being disconnected</u>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
For accounts payable, has the system kept payments less than 45 days past due over the last 12	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

months?			
Does the system write-off bad debt annually?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
Where does the system typically go for financial assistance? <u>Coal Severance</u>			
Does the system have any long-term debts?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
Is the system current on all debt service payments (if applicable)?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
Is the system meeting reserve account requirements (if applicable)?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
Is there an approved* rate structure in place? (Provide copy of rate sheet.) (*Approved by governing entity/PSC as applicable.)		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
What are the dates of the system's last 2 rate increases? <u>2009 &amp; 2001</u>			
Does the system perform a review annually to determine if the rates fully cover the expenses?		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
Are long-term needs built into rate increases?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
Do rates promote conservation in time of drought?		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
<b>COST OF WATER PRODUCED, PURCHASED AND SOLD</b>			
Does the system calculate the cost to produce water?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
Producers	How much does it cost your system to produce 1,000 gallons of water?	<u>\$2.89</u>	N/A <input type="checkbox"/>
Purchasers	What is the highest wholesale price you pay per 1,000 gallons of water?	<u>\$1.72</u>	N/A <input type="checkbox"/>
	What is the lowest wholesale price you pay per 1,000 gallons of water?	<u>\$1.72</u>	N/A <input type="checkbox"/>
Sellers	What is your highest wholesale price which you charge per 1,000 gallons of water?	\$ _____	N/A <input type="checkbox"/>
	What is your lowest wholesale price which you charge per 1,000 gallons of water?	\$ _____	N/A <input type="checkbox"/>
<b>WATER LOSS</b>			
Does the system track water loss on a monthly basis?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
Report water loss for the past year as a percentage of total water produced/purchased in gallons and as a dollar value (use \$1.50 as an example if cost to produce water is unknown).		<u>58%</u> <u>400,115,320</u> gallons <u>\$1,156,333</u>	
If water loss is above 15%, does the system have a plan to address this?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
If yes, describe plan to address water loss: <u>The system installed master meters to track water flows, there is still significant issues with water theft, fire department use and with water lines being unmapped.</u>			
<b>COMMENTS:</b> The system has a depreciation account that is considered to be the capital budget. A 58% water loss equals 400,115,320 gallons of water. The utility spends \$1,156,333 to produce water that is never sold.			

**V. SECURITY**

Does the system have a documented safety policy?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system provide regular safety training to its employees?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Is the utility a member of the Local Emergency Planning Committee?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Does the system have an updated Emergency Response Plan that is reviewed annually? (Inspect)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Does the emergency response plan include a plan for responding to water shortages and loss of service?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Is the Emergency Response Plan exercised?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>

How is the Emergency Response Plan communicated to all employees? <u>The employees know of it.</u>		
Are there safeguards on water plant operations when operators may be doing work outside on the plant grounds? What types of safeguards? <u>auto shut offs</u>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
Does the plant ever disable the telemetry/SCADA system and run on manual? Has the system developed procedures for securing computer/SCADA usage?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
Are backup copies of O & M manuals maintained in a location other than the water plant?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
Are backup copies of O & M manuals maintained in a location other than the water plant?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
Is the raw water, treatment, distribution, and purchased water source equipped with emergency standby power generation or is there a secondary source of power? (e.g. contracts in place with suppliers for emergency generators or dual electrical feed)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
Are backup emergency generators exercised regularly?	Yes <input type="checkbox"/>	No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Is other backup equipment exercised regularly?	Yes <input type="checkbox"/>	No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Have arrangements been made with outside contractors, other utilities, etc. to provide needed emergency equipment?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
If the system has an inactive water plant, is the plant exercised to maintain preparedness for emergencies? How often? _____ How is the plant disinfected prior to bringing it back on line? _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Is equipment shared with the wastewater plant? If so, how is the equipment disinfected prior to use at the water plant? _____	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
<b>COMMENTS:</b>		

DOCUMENTATION (✓ all that apply)
<input type="checkbox"/> Photographs obtained by DEP <input checked="" type="checkbox"/> Copies of records obtained by DEP <input type="checkbox"/> Other documentation

OVERALL COMPLIANCE STATUS			
<input checked="" type="checkbox"/> No Violations Observed <input type="checkbox"/> No Violations Observed – Advisory Action Taken (impending trends) <input type="checkbox"/> Out of Compliance – Verbal Notice Given (non-recurrent deficiency noted or violation corrected at time of inspection)			
<table border="1" style="width: 100%;"> <tr> <td style="width: 33%;">CDPM: BJ Bland</td> <td style="width: 33%;">Title: Environmental Technologist III</td> <td style="width: 33%;">Date: May 6, 2014</td> </tr> </table>	CDPM: BJ Bland	Title: Environmental Technologist III	Date: May 6, 2014
CDPM: BJ Bland	Title: Environmental Technologist III	Date: May 6, 2014	

# Drinking Water Sanitary Survey

## TECHNICAL INSPECTION OF SURFACE WATER PLANT AND DISTRIBUTION SYSTEM OPERATIONS

**PWS ID: KY0800273**

**Agency Interest Number: 2987**

**AI Name: Martin County Water District**

**County: Martin**

**WTP Latitude: 37° 52' 19.53" WTP Longitude: 82° 31' 10.99"**

**CTAB Inspection Date(s): 4/25/14 4/29/14**

TREATMENT PROCESS SUMMARY	
Primary Source: Curtis Crum Reservoir	Maximum Pumping Rate: 1400 GPM
Secondary Source: Tug Fork of the Big Sandy River	Filter Design Rate (gpm/ft <sup>2</sup> ): 2.66
Pre-sedimentation Size:	Aeration: 1)N/A 2) N/A
Sedimentation (Primary): Solids Contact Sedimentation 2: 1) N/A 2) N/A	Filter (Primary): High Rate/Mixed (Sand/Garnite/Anthracite) Filter 2 (if 2 different filter types): 1) N/A 2) N/A
Total Clear Well Size (gallons): 100,000	Total Distribution Storage Capacity (gallons): 4,032,000
Does each component of the WTP meet 10 State Standards or has each been approved by the Division of Water? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<b>COMMENTS:</b>	

CHEMICALS SUMMARY	
Pre-Disinfection/Treatment: 1) Chlorine Liquid 2) N/A Post-Disinfection: 1) Chlorine Liquid 2) N/A	Primary Coagulant: Polyaluminum Chlorides/Sulfates Secondary Coagulant (Name): Polymer
Filter Aid Name: Super Floc	Corrosion Control: pH Adjustment/Caustic
Taste and Odor: N/A	Softening: N/A
Iron and Manganese Removal: Hydrogen Peroxide	Fluoride Supplement: Hydrofluosilicic Acid
<b>COMMENTS:</b>	

PLANT SCHEMATIC (OPTIONAL)	
<i>Include a plant schematic indicating the following details. Place an "X" in the box to indicate this item is included on the schematic.</i>	
<input type="checkbox"/> Source water type/location	<input type="checkbox"/> Major unit processes (including baffling factors and volumes)
<input type="checkbox"/> Flow measurement locations	<input type="checkbox"/> Chemical injection locations
<input type="checkbox"/> Piping Flexibility (including # of raw and finished water mains)	<input type="checkbox"/> Waste handling

**I. SOURCE**

SOURCE				
SOURCE NAME	WATER WITHDRAWAL NUMBER	PERMITTED AMOUNT (MGD)	IS CAPACITY ADEQUATE?	ARE THERE WATER QUALITY ISSUES?
Curtis Crum Reservoir	0683	2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Tug Fork	1060	2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Upstream land uses (✓ all that apply): <input checked="" type="checkbox"/> Farmland <input type="checkbox"/> Industry <input checked="" type="checkbox"/> Logging <input checked="" type="checkbox"/> Mining <input checked="" type="checkbox"/> Oil and Gas <input type="checkbox"/> Recreation <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Other _____				
Upstream discharges within 5 miles (✓ all that apply): <input type="checkbox"/> Farmland <input type="checkbox"/> Industry <input checked="" type="checkbox"/> Logging <input checked="" type="checkbox"/> Mining <input type="checkbox"/> Oil and Gas <input type="checkbox"/> Recreation <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Water/Wastewater Discharge <input type="checkbox"/> Other _____				
Is there a source water protection plan in place? (Call ADD if no one at plant knows.)				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Are there any sources of Cryptosporidium in the watershed?				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe the sources: <u>Sewage</u>				
Is the system drought-vulnerable? (Has the system ever been on water conservation or dealt with a dwindling water source during warm weather?)				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<i>Does the system perform both source and finished water quality monitoring as required?</i>				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
What type of water quality monitoring is done on the source water (✓ all that apply): <input checked="" type="checkbox"/> Alkalinity <input type="checkbox"/> BacTs <input checked="" type="checkbox"/> Hardness <input checked="" type="checkbox"/> Iron <input checked="" type="checkbox"/> Manganese <input checked="" type="checkbox"/> pH <input checked="" type="checkbox"/> Temperature <input checked="" type="checkbox"/> Turbidity <input type="checkbox"/> None				
If multiple sources are available, is the one in use the "best" in terms of both water quality and quantity?				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Are there any factors that have limited the capacity of raw water source(s) within the last 10 years?				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>If the capacity of a raw source has been limited within the past 10 years, have the contributing factors already been successfully addressed? If not, explain: _____</b>				Yes <input type="checkbox"/> No <input type="checkbox"/>
Are there any unaddressed factors that have reduced the quality of raw water source(s) in the last 10 years?				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>If the quality of the raw water source(s) has been reduced within the past 10 years, have the contributing factors already been successfully addressed? If not, explain: _____</b>				Yes <input type="checkbox"/> No <input type="checkbox"/>
Are there any unaddressed factors that have limited the water available for purchase from contracted source(s) in the last 10 years?				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>If water available for purchase through contracted source(s) has been limited within the past 10 years, have the contributing factors already been successfully addressed? If not, explain: _____</b>				Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>COMMENTS:</b>				

INTAKE STRUCTURE							
LOCATION			TYPE	# of INLETS	SCREEN GRID SIZE	IS FLOODING A PROBLEM?	IS SILT BUILD-UP A PROBLEM?
ROAD/AREA	LATITUDE	LONGITUDE					
HW 292 Tug Fork			Fixed	1	0.375	YES	NO
Route 908 Reservoir Rd			Fixed	3	0.375	NO	NO

Number of raw water mains: 2 which are: PUMPED  or GRAVITY FED

Is raw water flow measured? Yes  No   
 If yes, when was the meter last calibrated? 2013

List any chemicals fed at the source: \_\_\_\_\_

If source is a reservoir, is it aerated? Yes  No

List depths of intake levels (normal pool): 2'

Screens are: STATIONARY  or MECHANICAL

Is screen clogging a problem? Yes  No   
 How are screens cleaned? \_\_\_\_\_

Are Zebra mussels a problem? Yes  No   
 If yes, list actions taken: \_\_\_\_\_

How often are the submerged portions of the intake inspected? As needed

When was the date of the last inspection? 2013

**COMMENTS:**

**II. TREATMENT/PUMPS**

**PRE-SEDIMENTATION**  
N/A

CAPACITY (gallons)	FLEXIBILITY TO BYPASS	CHEMICAL FEED CAPABILITY	LIST CHEMICALS FED
	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	

Are treatment chemicals fed at the inlet to the pre-sedimentation basin? Yes  No   
 If so, is the chemical fed: ALL THE TIME  or INTERMITTENTLY ?

Is algae growth a problem? Yes  No

How often are the pre-sedimentation basin(s) cleaned? \_\_\_\_\_

**COMMENTS:**

**AERATION**  
N/A

TYPE	CAPACITY (gallons)	REASON FOR AERATION

**COMMENTS:**

**RAPID MIX**  
Inspected

TYPE	NUMBER	VOLUME (gallons)	PHYSICAL CONDITION
Mechanical Mixer	1	471	Good

List chemicals in the order they are fed at the rapid mix: <u>Delpac, polymer, H2O2</u>			
Is adequate mixing of chemicals taking place?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Are there flow splits after the rapid mix?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If so, is the flow distribution even?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>COMMENTS:</b>			

FLOCCULATION BASINS				
Inspected				
TYPE	# of TRAINS / STAGES	VARIABLE SPEED DRIVE	VOLUME (gallons)	PHYSICAL CONDITION
Horizontal Paddle	2 / Single	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	161,200	Good
	/	Yes <input type="checkbox"/> No <input type="checkbox"/>		
List any chemicals fed in the flocculation process: <u>Chlorine Liquid</u>				
What is the size and appearance of the floc? Size: <u>OK</u> & Appearance: <u>OK</u>				
How often are flocculation basins cleaned? <u>As needed</u>				
Are the flocculation speeds tapered (decreased) through the flocculation stages?			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Are there flow splits after flocculation?			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is flow distribution even?			Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>COMMENTS:</b>				

SEDIMENTATION BASINS					
Inspected					
TYPE	TRAINS / STAGES	VOLUME (gallons)	SQ. FT. AREA PER BASIN	% WITH TUBE SETTLERS	PHYSICAL CONDITION
Solids Contact/Sludge Blanket	2 / 1	161,200	1257	100	Good
	/				
List any chemicals fed in the sedimentation process: _____					
What is the sedimentation turbidity goal? <u>0.5</u>					
Where is this sample taken? <u>top of reactor</u>					
What is the overflow rate of the basins? <u>2.8 gpm/ft<sup>2</sup></u>					
If system has an Actiflo process, what is the rise rate? _____					
How often are the basins cleaned? <u>As needed</u>					
How often is sludge removed from the basins? <u>Daily</u>					
Sludge removal is: MECHANICAL <input checked="" type="checkbox"/> or MANUAL <input type="checkbox"/>					
What was the sludge depth at the time of this inspection? <u>9'</u>					
What was the settled water turbidity at the time of this inspection? <u>0.47</u>					
Is there evidence of short-circuiting (flow or density currents)?				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is baffling present in the basins?				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If yes, describe the baffling: _____					

If multiple sedimentation basins, describe the piping from the basins to the filters: Common pipe then gravity fed to filters

Is there evidence of floc carryover to the filters? Yes  No

**COMMENTS:**

**FILTERS**  
**Total Number of Filters: 4**  
*Plant flow rate divided by total square footage of filters in service at the time of inspection.*

TYPE	MEDIA TYPE	FILTER RATE (at insp.)	FILTER CONTROL	SURFACE WASH TYPE	FILTER TO WASTE	FILTER AREA	PHYSICAL CONDITION
Conventional	Mixed Media	2.66 gpm/ft <sup>2</sup>	Rate of Flow		Yes	312.8	Good
		gpm/ft <sup>2</sup>					

List any chemicals fed in the filtration process: \_\_\_\_\_

What is the filtered water turbidity goal? less than 0.1

Does this apply to the combined filter effluent? Yes  No

To individual filter effluents? Yes  No

What criteria are used for filter backwash? Run time, Turbidity, Head loss

What is the backwash rate in gallons per minute? 3565

Is filter backwash rate ramped up and down? Yes  No

Is backwash flow rate measured? Yes  No

Are filters ever bumped? Yes  No

Is air scouring used? Yes  No

What was the combined filter effluent turbidity at time of inspection? 0.051

Are individual filters monitored for turbidity? Yes  No

Are the IFE turbidimeters calibrated per the manufacturer's instructions? (inspect documentation) Yes  No

Is this turbidity continuously recorded? Yes  No

Can this data be retrieved in usable form from storage (tape or CDs)? Yes  No

Is filter to waste (rewash) present? Yes  No

Is it used? Yes  No

Can turbidity be measured while filtering to waste? Yes  No

Are flows adjusted on remaining in-service filters during a backwash? Yes  No

**COMMENTS:**

**MEMBRANE FILTRATION**  
 N/A

What type of membrane filtration is used? N/A

The membrane filtration process is PRESSURE  or VACUUM  driven.

What is the designed membrane flux (flow per unit of membrane area)? \_\_\_\_\_

Are pre-filters used ahead of the membranes? Yes  No

Describe the direct integrity testing procedure. \_\_\_\_\_

Describe how membrane breaks are isolated and repaired. \_\_\_\_\_

How are the membranes "backwashed"? \_\_\_\_\_

What type of chemical cleaning is used? \_\_\_\_\_

How is this waste handled? \_\_\_\_\_

Have there been any operational or maintenance issues with the membranes? Yes  No

If yes, explain: \_\_\_\_\_

**COMMENTS:**

**RESIDUALS HANDLING**

What percent of plant production is used for in-plant processes (backwash, chemical feed, sanitary)? 1%

How are spent backwash water and other liquid residuals handled? Holding Pond then discharged KPDES

If applicable, is the spent backwash holding tank/lagoon volume adequate? Yes  No

Does the plant discharge water from this tank/lagoon back to a body of water? Yes  No

Does the plant have a KPDES discharge permit? If so, what is the permit number? KYG640104 Yes  No

Is the discharge meeting permit requirements? Yes  No

Is the discharge point upstream of the intake? Yes  No

If yes, how far upstream is the discharge point from the intake? \_\_\_\_\_

Is spent backwash water recycled? Yes  No

If yes, is the spent backwash water recycled as a: "SLUG"  or as a CONSTANT FLOW ?

What percent of the flow is recycled? \_\_\_\_\_%

Are chemical feed rates adjusted during recycling? Yes  No

Are raw water flows adjusted during recycling? Yes  No

Are all recordkeeping requirements of the *Filter Backwash Rule* being followed? Yes  No

How are solid residuals handled? Hauled to approved site

**COMMENTS:**

CHEMICAL FEED EQUIPMENT				
CHEMICAL NAME	PURPOSE	FEEDER TYPE	FEED POINT	NUMBER & CONDITION
Polymer	Coagulation	Metering Pump	Quick/Flash Mix	2 Good
Polyaluminum Cl/SO4	Coagulation	Metering Pump	Quick/Flash Mix	2 Good
Hydrofluosilicic Acid	Coagulation	Metering Pump	Clearwell	1 Good
Powdered Activated Carbon	Taste Odor	Volumetric	Quick/Flash Mix	1 Not in Operation

How are chemical feeders calibrated? <u>Drawdown</u>		
How often are chemical feeders calibrated? <u>Any time chemical change is made.</u>		
Are chemical dosages calculated?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
How often are dosages calculated? <u>Daily</u>		
Are chemicals NSF or United Laboratories certified and approved by DOW prior to use?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Do the bulk liquid feed systems have day tanks?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are there at least two feeders provided for essential processes (such as coagulation and disinfection)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are spare parts available?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is there enough storage for at least a 30-day supply of chemicals used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are there containment areas around the chemicals in case of spills or leaks?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are in-plant water supplies protected from backflow (cross connections)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Does a certified tester test backflow prevention devices?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If yes: What is the testing frequency? _____ Last Tested: _____		
<b>COMMENTS:</b> Carbon feed system is not operational. System is looking at installing a liquid carbon feed system.		

<b>GAS CHLORINE SAFETY</b>		
N/A		
Is the chlorine room enclosed and separate from other operating areas?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there a working exhaust fan in the chlorine room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Does it provide one complete air change per minute?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Does it exhaust from floor level?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is intake air near the ceiling?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there an external audible and visual alarm?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are switches located outside the chlorine room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are chlorine tanks secured?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are the scales operational?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is automatic switchover of chlorine cylinders provided?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there a shatterproof viewing window in chlorine room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there a crash bar on the door of the chlorine room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Does the door open out and to the exterior of the building?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there a SCBA unit meeting NIOSH standards outside the chlorine room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are personnel trained to use the SCBA?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is the "buddy system" practiced when changing or moving chlorine cylinders?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is leak detection provided?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is ammonia available for chlorine leak detection?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there a chlorine tank repair kit?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are personnel trained and certified to use the kits?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>COMMENTS:</b>		

<b>CHLORINE DIOXIDE SAFETY</b>		
N/A		
<i>Many materials will catch fire and burn violently when in contact with chlorite.</i>		
Is sodium chlorite stored in a separate room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is sodium chlorite stored away from organic material?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>COMMENTS:</b>		

<b>GAS (ANHYDROUS) AMMONIA SAFETY</b>		
N/A		
Is the ammonia room enclosed and separate from other operating areas?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there a working exhaust fan in the ammonia room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If there is a working exhaust fan, does it provide one complete air change per minute?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Does the exhaust fan exhaust from ceiling level?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is intake air near the floor?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are switches located outside the ammonia room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are ammonia tanks secured?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there a shatterproof viewing window in ammonia room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there a crash bar on the door of the ammonia room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Does the ammonia room door open out and to the exterior of the building?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is there a SCBA unit meeting NIOSH standards outside the ammonia room?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are personnel trained to use the SCBA?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is leak detection provided?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If leak detection is provided, is there an external audible and visual alarm?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
How are ammonia leaks detected? _____		
<b>COMMENTS:</b>		

<b>DISINFECTION</b>			
TYPE	APPLICATION POINT	REDUNDANCY AVAILABLE	FEEDER TYPE
Chlorine Liquid	Quick/Flash Mix	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Metering Pump
Chlorine Liquid	Pre-Clearwell	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Metering Pump
		Yes <input type="checkbox"/> No <input type="checkbox"/>	
What is the means used to measure disinfectant chemical usage? _____			
How is the disinfectant residual monitored? <u>cl17, lab meter</u>			
Is there an on-line, recording chlorine analyzer on the plant tap (for systems serving >3,300)?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Are C-Ts calculated daily?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>COMMENTS:</b>			

<b>CLEARWELLS</b>			
VOLUME (gallons)	BAFFLING TYPE	DISINFECTANT RESIDUAL	
		TOTAL	FREE

100,000	none	1.86	1.75
500,000 x2			

List chemicals in the order in which they are fed into the clearwell: Flouride

If multiple clearwells, are they:

IN SERIES (one following the other) or  PARALLEL (side by side and not connected)

Are hatches secured? Yes  No

Are vents screened? Yes  No

How often are clear wells cleaned? Never

**COMMENTS:**

**WATER PLANT PUMPS**  
(Low service/raw water, high service/finished water and backwash)

FLOW STREAM	LOCATION	NUMBER OF PUMPS	CAPACITY (gpm)	PUMP TYPE	FLOW CONTROL METHOD
Finished Water	Pipe Gallery	2	1400	Vertical Turbine	Automatic
Backwash Water	Gravity or High service	2	3567	Vertical Turbine	Automatic

Are documented maintenance and pumping records maintained for all distribution pumping stations? (minimum of pump run times, pump testing, maintenance log) Yes  No

Do all pumping facilities have the ability to meet demand with one pump out of service during peak demand? Yes  No

**COMMENTS:**

**WATER PLANT ON-LINE INSTRUMENTATION**

TYPE	FLOW STREAM (Location)	MANUFACTURER	LAST CALIBRATION DATE
Chlorine	Clearwell	Hach cl17	4/15/14
Turbidity	Individual Filter Effluent	Hach 1720d	3/7/14
Turbidity	Combined Filter Effluent	Hach 1720d	3/7/14

**COMMENTS:**

LABORATORY (PLANT)			
PARAMETERS TESTED	FREQUENCY	EQUIPMENT USED	CALIBRATION METHOD
Chlorine	4 hours	Lamotte	standards
Turbidity	4 hours	Hach	standards
pH	4 hours	Hach	Buffers
MN, FE, FI	1 day	Hach	
Is laboratory space and lighting adequate?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Are analyses conducted according to approved EPA methods?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Does the lab have SOPs for sample collection, analysis, and reporting?			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Are daily log sheets used to record day-to-day operations, testing, etc?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If daily log sheets are used, are they: ELECTRONIC (on the computer) <input type="checkbox"/> or HAND-WRITTEN <input checked="" type="checkbox"/>			
<b>COMMENTS:</b>			

IN-PLANT SAMPLING (for example, top and bottom of filters)				
SITE	CHLORINE		pH	TURBIDITY
	FREE	TOTAL		
Raw			6.68	17.1
Top Filter 2	0.61	0.67	6.66	0.28
Top Filter 3	0.58	0.64	6.67	0.34
Bottom filter 3				0.54
Bottom filter 4				0.053
Bottom filter 5				0.053
Bottom filter 6				0.055
Tap	1.73	1.85	7.11	0.047
<b>COMMENTS:</b>				

**III. DISTRIBUTION SYSTEM/FINISHED WATER STORAGE**

DISTRIBUTION SYSTEM	
Does the system have standard specifications for design and construction of the distribution system?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Does the system prohibit new connections where pressure on the discharge side of the meter will be <30 psi?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the system able to meet minimum pressure requirements of DOW and/or other regulating authority?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Does the system have a documented leak detection program?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Does the distribution system have a sufficient number of valves to isolate portions of the system (for leak detection, maintenance, etc.)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If there are separate distribution system areas, are they interconnected with each other?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If they are not interconnected, how many separate areas are there? _____		
What prevents these systems from being interconnected? _____		
How many pressure zones are there? <u>13</u>		
What is the range of distribution pressures? <u>40-280</u>		
Do any distribution areas require reduced pressure valves?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
What piping materials are included in the distribution system? <u>PVC, PE, AC, DI</u>		
Does the system have a program for flushing water mains?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Describe the process for sterilizing new mains/main breaks: <u>Disinfect, flush, sample</u>		
What types of on-line instrumentation are located at booster or pump stations and tanks? <u>Telemetry</u>		
Does the system have a documented program for exercising distribution system valves?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Does the system have a documented program for regular testing of water meters including raw water, distributed and customer?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is there a water meter replacement program?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are there main break/emergency notification procedures?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Does the system have a documented procedure for issuing a boil water advisory and a consumer advisory? The procedure shall identify when (how soon after the occurrence) and how the system shall notify the affected health department, to whom that notification shall be made both during and after normal business hours, and procedures for issuing the advisory to the public. The public notification shall include instructions for the public (including how to properly boil water) and an explanation of steps being taken to correct the problem.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Describe how the decision is made to issue a Boil Water Advisory: <u>Loss of pressure or chlorine</u>		
Does the system have a cross-connection control program?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If yes, is the cross-connection control program documented in writing?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If the cross-connection control program is not documented in writing, describe the process for finding and eliminating cross connections: _____		
Does a certified tester test the backflow prevention devices on a regular basis?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Has a calibrated hydraulic model been developed for the system?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>COMMENTS:</b>		

DISTRIBUTION STORAGE FACILITIES									
Inspected									
LOCATION			VOLUME (gallons)	TANK TYPE	OVERFLOW		LAST CLEANED/INSPECTED	TELEMETRY	% TURNOVER (Per Day)
ROAD/AREA	LATITUDE	LONGITUDE			SCREEN/FLAPPER	>10' FROM TANK			


Are all storage tanks professionally inspected at least every 5 years (including interior, coating systems, & piping)? How often are tanks: INSPECTED 5 yrs and CLEANED as needed?

Are all storage tanks and water plants equipped with hatches, covers, screens, vandal guards and locks and all tank sites fenced for security? Yes  No

Are all hatches, screens, and overflows on the storage tanks checked at least monthly? Yes  No

Is there corrosion protection in the tanks? Yes  No

**COMMENTS:** Tank list attached in separate document.

DISTRIBUTION BOOSTER PUMPS AND/OR BOOSTER DISINFECTION FACILITIES						
Inspected						
LOCATION			PUMP or DISINFECTION	NUMBER & CAPACITY OF PUMPS (gpm)	DISINFECTION TYPE	AUXILIARY POWER
ROAD/AREA	LATITUDE	LONGITUDE				
				@		
				@		
				@		
				@		
				@		
				@		
				@		
				@		
				@		
				@		

DISTRIBUTION SAMPLING					
(a minimum of N, S, E, W)					
SITE	CHLORINE		pH	TURBIDITY	OTHER
	FREE	TOTAL			
Speedway	1.69	1.80			
Sewer Plant	1.57	1.66			
HW 3 Subway	1.74	1.89			
Fire Dept	1.61	1.73			


Is the system maintaining the required chlorine (0.2 mg/l) / chloramine (0.5 mg/l) residuals in the distribution system? Yes  No

COMMENTS: Tank list attached in separate document.

**MAINTENANCE**

Is plant housekeeping adequate? Yes  No

Is distribution storage housekeeping adequate? Yes  No

Are adequate supplies of spare parts kept on hand? Yes  No

Are needed tools available? Yes  No

If not, is preventive maintenance performed? Yes  No

Is a lock-out/tag-out system used for electrical repairs? Yes  No

What is the general condition of operating equipment? Good

COMMENTS:

**DOCUMENTATION**  
(✓ all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Samples taken by DEP                        | <input type="checkbox"/> Photographs obtained by DEP       |
| <input type="checkbox"/> Samples taken by outside source             | <input type="checkbox"/> Copies of records obtained by DEP |
| <input checked="" type="checkbox"/> Instrument readings taken by DEP | <input type="checkbox"/> Other documentation               |

**OVERALL TECHNICAL COMPLIANCE STATUS**

- No Violations Observed
- No Violations Observed - Advisory Action Taken (Impending trends)
- Out of Compliance – Verbal notice given (Non-recurrent deficiency noted or violation corrected at time of inspection.)

INSPECTOR: Robert Back	TITLE: Environmental Inspector III	DATE: 4/29/14
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## TANK INDEX

NO.	NAME	SIZE (1000)	OVERFLOW ELEV.
T1A	BUCK CREEK	150	991
T2A	LITTLE ROCKCASTLE	150	1080
T3A	292 SOUTH	100	1113
T4A	BIG ELK	100	1080
T5A	WOLF CREEK	100	819
T6B	CLEARWELL	(2) 500	894
T7B	COLDWATER	150	853
T8B	TURKEY	50	983
T9B	INEZ	500	860
T10B	INEZ	150	860
T11B	KY 40 W	200	1171
T12B	CALLOWAY	100	1164
T13B	MIDDLE FORK	260	942
T14B	BUFFALO HORN	50	950
T15B	BIG SANDY AIRPORT	1040	1360
T16B	KY 645	67	1026

**ENERGY AND ENVIRONMENT CABINET  
KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
Routine Surface Inspection**

Site/Permit ID: 0800273		Division: <b>Water</b>		Regional Office: Hazard	
Site Name: MARTIN CO. WATER DISTRICT.			Program: <b>Drinking Water</b>		
Site Address: HC69 Box 875					
City: INEZ		State: KY	Zip: 41224	County: Martin	
Inspection Type: Routine Surface			Purpose: Comprehensive		AI #: 2987
Inspection Date: 9/15/15			Time: Start 9.05 AM End 9.30 AM		
Latitude: 37 52 20.3			Longitude: 82 31 09.8		
Coordinate Collection Method: G40-Handheld receiver				Revision Code: 112108	
<b>Drinking Water Data</b>					
Plant Name: MARTIN CO. WATER DISTRICT		Contact Name: Tom Alley			
Phone No.: 606-298-3885		Fax No:		Email Address:	

**I. Administrative Requirements**

**Comments:**

**I. Compliance Status - Not Evaluated**

**II. Operator Certification/Accreditation Requirements**

**Operator in Charge or on duty.**

Operator Name	Plant Certification #	Distribution Certification #
<b>Tom Alley</b>	<b>0716</b>	
<b>Mike Sartin</b>		<b>09709</b>

**Comments:**

**II. Compliance Status - Not Evaluated**

**III. Record Keeping Requirements**

**Comments:**

**III. Compliance Status - No violations observed**

**IV. Reporting Requirements**

Comments:

IV. Compliance Status - No violations observed

<b>V. Operation &amp; Maintenance/Performance Requirements</b>	
Plant Type: <input checked="" type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/> P	Service Connections:3100 Population Served:10,246
Average Production MGD: 1.6 Max. Production MGD: 1.9 Design Capacity MGD: 2.0	
Source:Tug Fork and Reservoir	

**RATING CODES:** S1=No Violations Observed; S2=No Violations Obs-but impending viol trends obs; U1=Out of Compliance-No action taken; U2= Out of Comp-LOW non-recurrent Adm. or O & M; U3= Out of Compliance-NOV; NA = Not Applicable; NE = Not Evaluated. (Add additional comments if U1-U3.)

	RATING	Equipment / Inspection Data	<input type="checkbox"/> Checking block means item is present:
<b>CHEMICAL &amp; PHYSICAL TREATMENT</b>	S1	a) Intakes, pumps, piping <input checked="" type="checkbox"/>	# Of Levels # Pumps2 Max pump.1440
		b) Aeration <input type="checkbox"/>	
	S1	c) Rapid mix <input checked="" type="checkbox"/>	Type: Mechanical paddle If other:
	S1	d) Flocculation <input checked="" type="checkbox"/>	# of Stages1 # of Trains2 Variable Speedyes
	S1	e) Sedimentation <input checked="" type="checkbox"/>	Type: Up flow # of trains:2
	S1	f) Chemical feed coagulation	Polyaluminum Cl/SO4
		g) Carbon Feed: <input type="checkbox"/>	Feed Site1: Feed Site 2:
	S1	h) Filters & controls	Dual Media Filter to Waste <input checked="" type="checkbox"/>
	S1	i) Filters / size sq.ft each./ rate	# 4 Size245 Filtration Rate:2
	S1	j) Automatic analyzers:	Chlorine: <input checked="" type="checkbox"/> Turbidity: <input checked="" type="checkbox"/> Each filter: <input checked="" type="checkbox"/> pH: <input type="checkbox"/>
	S1	k) Chemical storage:	Dry on pallets? <input type="checkbox"/> Chemical containment: <input checked="" type="checkbox"/>
	S1	l) Clearwell / screened vents	Size:100,000 Baffling: <input type="checkbox"/> Locked <input checked="" type="checkbox"/> Screened <input checked="" type="checkbox"/>
	<b>SITE DATA</b>	S1	m) Pumps # and size in gpm
S1		n) Site Data: Sewer Plant	Cl. Free:1.21 Total: pH: :
S1		o) Site Data: Speedway	Cl. Free:1.37 Total: pH:
		p) Site Data:	Cl. Free: Total: pH:
<b>DISINFECTION</b>		q) Site Data:	Cl. Free: Total: pH:
	S1	r) Disinfection Pre: <input checked="" type="checkbox"/> Post: <input type="checkbox"/>	Pre Type: Chlorine gas Post type:
	S1	s) Automatic chlorinator <input checked="" type="checkbox"/>	Automatic changeover <input checked="" type="checkbox"/> Proper Fan <input checked="" type="checkbox"/>
	S1	t) Separate room & ventilation	Crash Bar <input checked="" type="checkbox"/> Alarm <input checked="" type="checkbox"/>
<b>LABORATORY &amp; RECORDS</b>	S1	u) Safety equipment	SCBA <input checked="" type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Detector <input type="checkbox"/>
	S1	v) Laboratory equipment	Adequate Space <input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Lighting : <input checked="" type="checkbox"/>
	S1	(1) Turbidimeter <input checked="" type="checkbox"/>	Type: hach Last calibrated: daily
	S1	(2) Adequate reagent supply	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	S1	(3) Chlorine Test Kit <input checked="" type="checkbox"/>	Type: lamotte DPD reagent up-to-date: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	S1	w) Monthly operating reports	<input checked="" type="checkbox"/> Daily Record Sheet <input type="checkbox"/> Agreement: <input type="checkbox"/>
<b>DISTRIBUTION</b>	S1	x) Housekeeping	
	S1	y) Master meter ; Recorder	Raw: <input type="checkbox"/> Finished: <input checked="" type="checkbox"/> ; Raw: <input type="checkbox"/> Finished: <input checked="" type="checkbox"/>
		z) Blowoffs / hydrants; flushing	Flushing Schedule: <input type="checkbox"/> Blowoffs on deadends: <input type="checkbox"/>
	S1	aa) Water storage:	# of Tanks 16 Total Storage: 3 million
<b>PLANT ON SITE OBSERVATION</b>		bb) Booster pumps / chlorinators	Booster pumps: <input type="checkbox"/> Booster chlorinators: <input type="checkbox"/>
	S1	cc) Plant Data:	Cl free: 1.74 total: pH:
	S1	dd) Turbidity	Raw: Settled: Combined Filter:0.09
		ee) Bacteriological monitoring	Samples per mo. Records: <input type="checkbox"/>
	S1	ff) No cross-connections observed	None observed: <input checked="" type="checkbox"/> Observed: <input type="checkbox"/> Program: <input type="checkbox"/>
		gg) Wastewater discharge	KPDES Is sizing adequate? <input type="checkbox"/> Yes <input type="checkbox"/> NO

Comments:

V. Compliance Status - No violations observed

**VI. Discharge/Emission Compliance**

Comments:

VI. Compliance Status - No violations observed

**VII. Monitoring/Analyses Evaluation**

Comments:

VII. Compliance Status - No violations observed

**VIII. Environmental /Health Impact**

Work Site Hazard Assessment :  ATTACHED  REVIEWED

Comments:

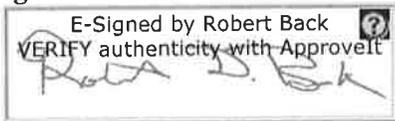
VIII. Compliance Status – No violations observed

**IX. Documentation**

- Samples taken by DEP
- Samples taken by outside source
- Instrument readings taken by DEP regional office
- Photographs obtained by DEP
- Copies of records obtained by DEP
- Other documentation

**Inspector:** Robert D. Back      **Title:** Environmental Inspector III      **Date:** 09/15/15

**Signature:**



**Overall Compliance Status**  
 No violations observed

<input type="checkbox"/>	No violations observed, but impending violation trends observed
<input type="checkbox"/>	Out of Compliance- No action taken
<input type="checkbox"/>	Out of Compliance LOW non-recurrent administrative or O & M
<input type="checkbox"/>	Out of Compliance - NOV

Comments:

Delivery Method: Regular Mail	Cert. Mail #:
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STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Division of Water  
233 Birch St  
Hazard, KY 417012115  
www.kentucky.gov

September 21, 2015

Martin Co Water District  
14 Flat Hollow  
Inez, Kentucky 41224

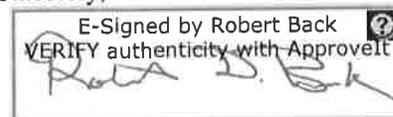
RE: Martin Co Water District -- 2987  
Permit No.: KY0800273  
Martin County, Kentucky  
Activity ID: CIN20150002

Dear Martin Co Water Dist:

Attached for your information and records is a copy of the DW Comp-Surface performed at Martin Co Water District on September 15, 2015.

If you have any questions or comments concerning this inspection, please contact the Hazard Regional Office at: (606) 435-6022.

Sincerely,



Robert Back  
Environmental Inspector  
Hazard Regional Office  
Division of Water

RB  
Enclosure:



Steven L. Beshear  
Governor

Leonard K. Peters  
Secretary  
Energy and Environment Cabinet

Commonwealth of Kentucky  
**Public Service Commission**  
211 Sower Blvd.  
P.O. Box 615  
Frankfort, Kentucky 40602-0615  
Telephone: (502) 564-3940  
Fax: (502) 564-3460  
psc.ky.gov

David L. Armstrong  
Chairman

James W. Gardner  
Vice Chairman

Daniel E. Logsdon Jr.  
Commissioner

October 9, 2015

Mr. William Harvey  
Martin County Water District  
387 East Main Street, Suite 140  
Inez, KY 41224

Re: Periodic Water Inspection  
Martin County Water District water system  
Martin County, KY

Dear Mr. Harvey:

Public Service Commission staff performed a periodic inspection of the Martin County Water District water system on December 10, 2014, reviewing utility operations and management practices pursuant to Commission regulations. The report of this inspection is enclosed with this letter.

Based on the inspector's observations, the following deficiencies were identified:

1. Martin County Water District was not conducting pressure recordings through its system as required in 807 KAR 5:066 Section 5(2). This regulation requires that a pressure gauge be maintained for a minimum of one week per month in continuous service at some representative point on the utility's mains.
2. The tariff for Martin County Water District does not address penalties for fire departments not reporting their unmetered water usage to the District as required in 807 KAR 5:095 Section 9. This regulation requires fire departments to report their water use quarterly, and that the penalty for not submitting these reports shall be stated in the tariff.
3. Martin County Water District failed to obtain Certificates of Public Convenience and necessity on construction projects that extended the area where water service is available to customers in 2013. This is a violation of KRS 278.020 which requires a Certificate of Public Convenience and Necessity before beginning construction on water line projects.

The following deficiency was noted on the previous inspection on April 11, 2012. This deficiency from the previous inspection has not been addressed. It will need to be addressed with this inspection.

Periodic Water Inspection  
Martin County Water District water facilities  
October 9, 2015  
Page 2 of 2

4. Unaccounted for water loss is over 60%, above the 15% recoverable water loss that is permitted to be recovered in rates as required in 807 KAR 5:066 Section 6(3).

For the four deficiencies listed above, you will need to inform PSC Staff how you will remedy these deficiencies. You will need to address each deficiency in a letter providing the following information for each deficiency:

- Why the deficiency occurred
- What is being done to correct the deficiency
- What action is being taken to prevent this deficiency from occurring again

The letter addressing the District's actions regarding the deficiencies needs to be returned by November 23, 2015.

These deficiencies were not addressed with the April 11, 2012 inspection. They appear to have been corrected in the December 10, 2014 inspection, but shall continue to be monitored by the Martin County Water District.

5. Martin County Water District needs to test all of its meters every ten years. While 600 meters were tested in 2014, it appears that this number is a catch up spurt. A regular, planned meter testing program needs to be established.
6. Employees need to be trained in accepted methods of artificial respiration. This needs to be a routine process for new employees and for necessary refresher training.

If you have any questions regarding this inspection, feel free to contact me at 502-782-2614 or via email at [Mark.Rasche@ky.gov](mailto:Mark.Rasche@ky.gov).

Sincerely,



Mark Rasche, P.E., Manager  
Water and Sewer Branch  
Division of Engineering

Enclosures

Copy: Mr. John Mills  
Martin County Water District  
387 East Main Street, Suite 140  
Inez, KY 41224

**COMMONWEALTH OF KENTUCKY  
PUBLIC SERVICE COMMISSION  
UTILITY INSPECTION REPORT**  
Report Date: December 12, 2014  
Report Number: MartinCountyWD121014

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**BRIEF**

**Inspector:** Jason Pennell  
**Inspection Date:** December 10, 2014  
**Type of Inspection:** Periodic Regulatory Compliance Inspection  
**Type of Facility:** Treatment and Distribution  
**Name of Utility:** Martin County Water District  
**Location of Facility:** 387 East Main Street Suite 140  
Inez, KY 41224  
**Purpose of Inspection:** Periodic inspection of utility facilities operation and maintenance practices to verify compliance with PSC regulations.  
**Applicable Regulations:** KRS Chapter 278 and 807 KAR Chapter 5

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**INSPECTION**

**Description of Utility:** Distribution system  
**Number of Customers:** 3,700  
**Area of Operation:** Martin County  
**Supply Source:** Martin County Water District Water Treatment Plant  
**Distribution Description:** Average daily consumption of approximately 1,884,997 gallons; 300 miles of distribution line; total storage capacity of approximately 2,617,000  
**Workforce Summary:** 13 Employees  
**Utility Reps. in Inspection:** Joe Hammond, Consultant, John Mills, Superintendent, and Tom Alley, Water Plant Operator  
**Date of Last Inspection:** April 11, 2012  
**DTR from Last Inspection:** 5  
**DTRs not Cleared:**

**COMMONWEALTH OF KENTUCKY  
PUBLIC SERVICE COMMISSION  
UTILITY INSPECTION REPORT**  
Report Date: December 12, 2014  
Report Number: MartinCountyWD121014

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**FINDINGS**

Utility did not produce pressure charts that showed a continuous 24 hour pressure recording for one week per month. 807 KAR 5:066, Section 5(2).

Martin County Water District has not filed with the Commission a copy of its water purchase contracts where the utility purchases water from Mountain Water District and Kermit, WV as required by 807 KAR 5:013, Section 13.

Utility does not have a tariff in place requiring fire departments, who withdraw water from its water distribution system for fire protection or training purposes, to report usage or a penalty for failure to submit the reports 807 KAR 5:095, Section 9(1)(2).

---

**ADDITIONAL INSPECTOR COMMENTS**

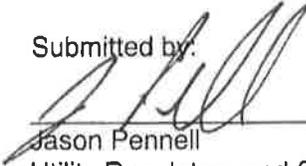
Water loss for 2012 was 60.87 percent and water loss for 2013 was 60.86 percent.

During the inspection visit, the utility was made aware of the regulatory change to 807 KAR 5:006, Section 26 Section (3) which requires the addition of the date, time of inspection, and the person conducting the inspection onto inspection logs/forms of facilities. Commission Staff will verify this on the next inspection visit.

The utility stated that they have added two meters to its system to help monitor leaks. The utility is also working with Kentucky Rural Water to help identify leaks.

In 2013 the utility replaced 3 miles of distribution main and the service connections on the main. The project was financed with Coal Severance money.

Submitted by:



---

Jason Pennell

Utility Regulatory and Safety Investigator III

**Division of Engineering  
Water and Sewer Branch  
Water Utility Inspection**

---

**General Information**

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**TREATMENT FACILITY**

---

**1. Source Water:**

Reservoir lake supplied by pumping from the Tug River

---

**2. Plant Capacity:**

2.3 million gallons per day

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**3. Avg. Amount Produced:**

1,884,997

---

**4. Plant Constructed**

1969

---

**5. Plant Expansion (if any):**

In 1987 clarifier # 2 was added and in 2000 clarifier # 3 was added.

---

---

**DISTRIBUTION FACILITY**

---

**6. Source Water:**

The utilities water treatment plant, but the utility has the ability to purchase water from Kermit, WV and Mountain Water District in an emergency situation.

---

**7. Area of Operation**

Martin County

---

**8. Miles of Water Line**

300 miles of 14"-1"

---

**9. Avg. Amount Purchased:**

Does not purchase water from another utility

---

**10. Yearly Avg. Loss:**

2013-60.86%

2012-60.87%

---

**11. Does the utility's unaccounted-for water loss exceed fifteen percent (15%) of total water produced and purchased in accordance with 807 KAR 5:066, Section 6(3)?**

Yes

---

**12. How does the utility control its water loss in the system?**

Leak detection, the utility has 16 master meters they use to help with leak detection. The utility is also starting to work with Kentucky Rural Water to help with locating leaks.

---

**13. Does the utility have a proactive water loss prevention/leak detection program in place?**

Yes

---

14. Does the utility have a tariff in place to require water users, for the purpose of fighting fires or training firefighters to any city, county, urban-county, charter county, fire protection district, or volunteer fire protection district, to maintain estimates of the amount of water used for fire protection and training, and to report this water usage to the utility on a regular basis per KRS 278.170(3)?

Yes, but no fine

---

15. Is the utility limited by contract to purchase a minimum amount of water per month? If so, List the minimum amount:

No

---

16. Is the utility limited by contract to a maximum amount of water per month? If so, what is the maximum amount allowed:

No

---

17. Does the utility wholesale water to other utilities? If so, what utilities:

No

---

---

---

**NUMBER OF CUSTOMERS**

---

18. List the number of customers last billing period:

3,700

---

19. List the number of requests for service (meter connections) received by the utility:

2013-467

---

---

**LAST INSPECTION FOLLOW-UP**

---

**20. Date of last PSC inspection and number of deficiencies noted in the last report:**

April 11, 2012, 5 deficiencies (Unaccounted for water loss, fire department tariff, insufficient meter testing, not providing safety training, not providing instruction for its employees in accepted methods of artificial respiration).

---

**21. Did the utility respond to the deficiencies noted in the last inspection report?**

Could not find a response from the Utility

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---

**OFFICE INFORMATION**

---

**22. Does the utility display its rates and conditions for service or a sign stating they are available for review in accordance with KRS 278.160(1)**

Yes

---

**23. Does the utility provide in its place of business a suitable area available to the public for inspection of its tariffs, rules and regulations, and statutes in accordance with 807 KAR 5:011Sec.12?**

Yes

---

**24. Does the utility have any special contracts in accordance with 807 KAR 5:011 Sec.13?**

Yes

---

**25. Has the utility filed these contracts with the Commission?**

No

---

26. Is the utility posting and maintaining regular business hours and providing employees to assist their customers in accordance with 807 KAR 5:006 Sec. 13(1)?

Yes

---

27. Is a telephone number published in all areas served (if service area extends to other counties) to permit customers to contact the utility in accordance with 807 KAR 5:006 Sec. 14(1)?

Yes

---

28. Does the utility have at least one employee designated to resolve disputes, answer questions, and negotiate partial payment plans in accordance with 807 KAR 5:006 Sec.14 (1)(a):

Yes

---

29. How many employees does the utility have?

13- 4 water treatment operators, 6 distribution operators, and 3 office employees

---

30. How many days a week is the office open in accordance with 807 KAR 5:006 Sec. 14(1) (b)?

5

---

31. As a minimum for utilities under \$250,000 gross annual operating revenue, are the customers of the utility provided with a designated representative available during utility's established working hours at least one day a week for (7) hours to answer questions they may have?

N/A

---

32. If the utility finds a customer's usage unduly high, are they notifying the customer in writing during or immediately after they do an investigation in accordance with 807 KAR 5:006 Sec. 11(4)(a)?

Yes

---

- 33. Does utility have on file at its principal office an updated water distribution system map in accordance with 807 KAR 5:006 Sec.23?**

Yes

---

- 34. Has utility filed a copy of such map upon request with the Commission?**

Not requested

---

- 35. Are all records required by PSC regulations kept in the office of the utility and available to staff of the PSC upon reasonable notice at all reasonable hours per 807 KAR 5:006 Sec. 24?**

Yes

---

- 36. Does the utility have an Operation and Maintenance Manual per DOW's regulation 401 KAR 8:020 Section 2(13) and PSC regulation 807 KAR 5:066 Section 3(1)?**

Yes

---

- 37. Does this manual contain a proactive meter testing/replacement (change out) plan?**

Yes

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- 38. Does this manual contain a proactive leak detection/water loss prevention plan?**

Yes

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- 39. Does this manual contain a proactive asset management/replacement plan?**

No

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---

**CONSTRUCTION**

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**40. What was the last calendar year the utility performed any construction?**

2013

---

**41. How was the project financed?**

Coal Severance

---

**42. The construction project consists of:**

**Length of water line:** 3 miles of water line and the service lines

**Number of pump stations:**

**Number of water storage facilities**

---

**43. Additional construction:**

N/A

---

**44. Did the utility receive Commission approval for this project in accordance with KRS 278.020 or KRS 278.023?**

No

---

**45. If yes, were as-built plans and a certified statement submitted to the Commission within 60 days of substantial project completion?**

No

---

**46. If not, was a written opinion by Commission staff regarding ordinary course of business (807 KAR 5:001 Sec.9) received by utility?**

No

---

**47. Proposed construction projects:**

None

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48. Will the utility be applying for a Certificate of Public Convenience and Necessity (CPCN)? If not, explain.

N/A

---

49. Will the utility be requesting Commission staff opinion to see if proposed construction is within ordinary course of business per 807 KAR 5:001, Sec. 9

No

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#### METER TESTING INFORMATION

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50. Does the utility make quarterly reports on forms prescribed by the Commission, of meter tests, number of customers and amount of refunds in accordance with 807 KAR 5:006 Sec. 4(4)?

Yes

---

51. Does the utility test its own meters?

Yes up to a 1" meter

---

52. Are utility employees certified by the Commission to do their own meter testing in accordance with 807 KAR 5:006 Sec. 17(4)?

Yes

---

53. How do you ensure utility meter testing staff are trained and updated on the latest procedures?

Public Service Commission

---

**54. How does the utility ensure that meter testing equipment remain in a condition to deliver reliable testing results?**

Public Service Commission

---

**55. Does the utility have an outside agency perform its meter testing per KAR 5:006 Sec. 16(2)? If yes, provide outside agency name:**

CI Thornburg on meters over 1"

---

**56. Has the Commission been notified?**

Yes

---

**57. Is the utility storing any or all of its meter test and historical data in a computer storage and retrieval system in accordance with 807 KAR 5:006 Sec. 18(4)?**

Yes

---

**58. Has the utility notified the Commission of this?**

Yes

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**59. Does the utility keep a backup of this information? If so how often is this information backed up?**

Yes, daily

---

**60. Does the utility have installed at each source of supply, a suitable measuring device (master meter) per 807 KAR 5:066 Sec. 6(1)?**

Yes

---

**61. Who is responsible for the testing of the master meters?**

Martin County Water District

---

**62. Is meter testing responsibility explicitly specified in water purchase contract?**

Yes

---

63. Identify master meter, location, size and date last tested.

	<u>Master Meter Size (location)</u>	<u>Date Last Tested</u>
1	Kermit, WV 2"	Not in use
2	Mountain Water District 2"	Not in use

---

64. Is the utility testing all water meters periodically in accordance with the 807 KAR 5:066 Sec. 17(1)?

Yes

---

65. What test period is the utility on for meters 1" and smaller?

10 years

---

66. In the past year, how many meters 1" and smaller has the utility tested?

600 for 2014

---

67. How many 1" and smaller meters have been in service for 10 years without being tested?

None

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### SAFETY PROGRAM

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68. Has the utility adopted and executed a safety program in accordance with 807 KAR 5:006 Sec. 25?

Yes

---

69. Does the utility have on site a safety manual with written guidelines for safe working practices and procedures to be followed by utility employees in accordance with 807 KAR 5:006 Sec. 25(1)?

Yes

---

70. **How does the utility instruct its employees in safe methods of performing their work per 807 KAR 5:006, Section 25(2)?**

Safety Meetings

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71. **Are regularly scheduled safety meetings held? (Give schedule and last meeting date)**

Yes, November 2014

---

72. **Do certain employees receive instruction in accepted methods of artificial respiration in accordance with 807 KAR 5:006 Sec.25 (3)?**

Yes

---

73. **Are all vehicles equipped with First Aid Kits?**

Yes

---

74. **Are all vehicles equipped with Fire Extinguishers?**

Yes

---

75. **Are safety lights used on all vehicles?**

Yes

---

76. **Identify the person responsible for the Utility's Safety Program?**

Albert Osborne

---

77. **Did the utility experience any work related accidents of its employees within the last 12 months?**

No

---

78. **Was there a record kept of these accidents?**

N/A

---

**79. Was the accident(s) reported to the Public Service Commission in accordance with 807 KAR 5:006 Sec. 27?**

N/A

---

**80. Do all employees have identification that will identify them as an employee of the utility in accordance with 807 KAR 5:006 Sec. 20?**

Yes

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**INSPECTION PROCEDURES**

---

**81. Does the utility inspect all its facilities per 807 KAR 5:006 Sec. 26(6)(a), (b), and (c)?**

Yes

---

**82. Identify utility inspection personnel:**

John Mills

---

**83. Has the utility adopted a written inspection procedure to assure safe and adequate operation of its facilities per 807 KAR 5:006 Sec. 26(1)?**

Yes

---

**84. Has the utility conducted a vulnerability study for terrorist and other intentional acts in accordance with the Safe Drinking Water Act Title XIV Sec. 1433?**

Yes

---

**85. Is a written inspection record kept on the following per 807 KAR 5:006 Sec. 26(3)?**

**Wells and/or raw water pumps:** Yes  
**Treatment Plants:** Yes

**Valves:** Yes-on work orders  
**Pump Stations:** Yes  
**Blow-Off Valves:** Yes-on work orders  
**Water Storage Facilities:** Yes  
**Vehicles & Construction Equipment:** Yes  
**Buildings:** Yes

---

86. **Has the utility filed a copy of its inspection procedure with the Commission in accordance with 807 KAR 5:006 Sec. 26(1)?**

Yes

---

87. **Do the inspection records identify the inspections made, deficiencies found and action taken to correct the deficiencies in accordance with 807 KAR 5:006 Sec. 26(3)?**

Yes

---

88. **Is the utility allowed access to all utility's equipment located on a customer's property during reasonable hours for operation and maintenance in accordance with 807 KAR 5:006 Sec. 20?**

Yes

---

89. **Does the utility inspect all service lines between the water meter and the place of consumption in accordance with 807 KAR 5:066 Sec. 9(3)?  
If not, does the utility substitute its inspection for the inspection by an appropriate state health or local plumbing inspector?**

Health Department

---

90. **Is proof of this inspection presented to the utility?**

Yes

---

---

**METER READING**

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**91. How often are the utility's meters read?**

Monthly

---

**92. Who reads the utilities meters?**

The utility reads all but approximately 2,000 meters. The meters that are not read are read by a contractor.

---

**93. Is the utility keeping a record of all meter reading information per 807 KAR 5:006 Sec. 7(5)?**

Yes

---

**94. Is the meter registration the same units as used for billing per 807 KAR 5:006 Sec. 7(4)?**

Yes

---

**95. Does the utility verify customer-read-meters at least once in a calendar year per 807 KAR 5:006 Sec. 6(5)? Has the utility included the form of bill to be used in its tariffed rules per 807 KAR 5:006 Sec. 6(5)?**

N/A

---

**96. Does the utility charge any flat rates for unmetered service per 807 KAR 5:006, Sec. 7(2)?**

No

---

**97. Does your utility provide free or reduced rate service to any person or entity per KRS 278.170? If yes, who?**

No

---

**98. Do you have a PSC approved tariff setting those conditions?**

N/A

---

---

**CUSTOMER COMPLAINTS**

---

**99. Is the utility keeping a record of all customer complaints in accordance with 807 KAR 5:006 Sec. 10?**

Yes

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**100. Does this record show the following in accordance with 807 KAR 5:006 Sec.10?**

- Name of complainant:**
- Address of complainant:**
- Date and nature of complaint:**
- Adjustment or disposition:**

Yes

---

**101. Are complaint records kept for two (2) years from the date of resolution?**

Yes

---

**102. Does the utility provide the complainant an oral or written notice of their right to file a complaint with the Commission including Commission's address and phone number for all complaints that are not resolved per 807 KAR 5:006 Sec. 10?**

Yes

---

---

**CUSTOMER SERVICE INFORMATION**

---

**103. Does the utility provide a schedule of rates for water service applicable to the service being rendered to the customer per 807 KAR 5:066 Sec. 2(2)?**

Yes

---

104. Does the utility provide information to customers on the method of reading meters per 807 KAR 5:066 Sec. 2(3)?

Yes

---

105. Does the utility have a statement of the past meter reading of a customer for a period of two years per 807 KAR 5:066 Sec. 2(4)?

Yes

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**WATER QUALITY/RECORDS**

---

106. Does the utility provide to any customer, upon request, a description in writing of chemical constituents and bacteriological standards of the treated water (such as the Consumer Confidence Reports "CCR" required by the Natural Resources Cabinet) per 807KAR 5:066 Sec. 2(1)?

Yes

---

107. Has the utility been in compliance with the water quality requirements of the Division of Water within the last twelve months per 807 KAR 5:066 Sec. 3(1)?

No

---

108. If not, how many violations did the utility receive, and what were they?

One for combined turbidity above the limit.

---

109. Is the utility under an Agreed Order with the Division of Water?

No

---

110. If yes, what are the issues?

N/A

---

111. Does DOW have utility on tap-on ban or a line extension ban?

No

---

112. Did the utility have any public notifications required by Division of Water regulations such as boil water advisories, notices, CCR, etc. that need to be reported to the Commission per 807 KAR 5:066Sec. 3(4)(b)?

No

---

113. Is the PSC notified of these public notifications?

Yes

---

114. Is a cross-connection prevention program available?

Yes

---

115. Has the utility made a physical connection between its distribution system and that of any other water supply in the past year per 807 KAR 5:066 Sec .3(3)(b)? If yes, what system?

No

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116. Was the Commission notified prior to such connections?

N/A

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117. Is there a contract between systems?

N/A

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---

**CONTINUITY OF SERVICE**

---

118. Does the utility keep a record of all interruptions per 807 KAR 5:066 Sec. 4(5)?

On work orders

---

**119. Does this record contain the following information:**

**Date of interruption:  
Cause of interruption:  
Time of interruption:  
Duration of interruption:  
Remedy and steps taken to prevent recurrence:**

Yes

---

**120. Does the utility notify all customers and fire officials, if applicable, affected by a scheduled interruption per 807 KAR 5:066 Sec. 4(2)?**

Yes

---

**121. If yes, does this information state time and anticipated duration?**

Yes

---

**122. Does utility notify fire protection officials, if applicable during emergency interruptions per 807 KAR 5:006 Sec. 4(1)?**

Yes

---

**123. Does the utility have available dual/standby pumps capable of providing the maximum daily pumping demand of system for use when any pump is out of service pursuant to 807 KAR 5:066, Sec. 4 (3)?**

Yes

---

**124. Will one pump meet the maximum dally pumping demand for its affected customers?**

Yes

---

**125. Do both pumps need be operated simultaneously to meet maximum daily demand?**

No

---

**126. Are both pumps operational at this time?**

Yes

---

**127. How does utility ensure that both pumps are operational?**

Inspection of pumps and alternate when the pumps are operating

---

**128. How does utility operate/control its pump stations?**

SCADA

---

**129. If utility does not have dual pumps, are standby pumps available to meet the maximum daily demand?**

N/A

---

**130. Identify those locations of pumping stations in your system where standby pumps are not available, if any.**

N/A

---

**131. Does the utility keep a record of all water flushed from hydrants?**

No

---

**132. Are all dead ends provided with a flushing device per 807 KAR 5:066 Sec. 8(2)? If no, how many need a flushing device?**

Yes

---

**133. Are all dead ends flushed at least annually per 807 KAR 5:066 Sec. 8(2)?**

Yes

---

**134. Are all flush hydrants properly sized in accordance with 807 KAR 5:066 Sec. 8(2)?**

Yes

---

**135. Does the utility keep a maintenance record on flush valves?**

On work orders

---

**136. Who is in charge of the flushing program?**

Raymond Jude

---

**137. Does the utility keep a record of its valves in its distribution system?**

Yes

---

**138. Does the utility have a periodic exercise program for its valves?**

Yes

---

**139. Does the utility mark the location of its valves?**

Yes

---

**140. Who is in charge of the valve program?**

Raymond Jude

---

**141. Does the utility provide fire hydrants for fire protection?**

No

---

142. Do the local fire officials provide the utility with records of water used for fire protection?

Rarely

---

143. Are fire hydrants constructed after 1992 certified as having adequate and reliable fire flows by a professional engineer with a Kentucky registration per 807 KAR 5:066 Sec. 10(2)(b)?

N/A

---

144. Who is responsible for maintenance of fire hydrants?

N/A

---

145. Does fire protection adversely affect utility customers' service quality during use? If yes, how:

N/A

---

---

#### WATER PRESSURE

---

146. Does the utility own at least one recording pressure gauge per 807 KAR 5:066 Sec. 5(2)?

Yes

---

147. Number of pressure recorders owned by the utility?

1

---

148. Number of pressure recorders in working order by the utility?

1

---

149. Is the utility maintaining a recording pressure gauge in its distribution system at least one week per month per 807 KAR 5:066 Sec. 5(2)?

No

---

**150. Number of pressure charts over the last twelve months?**

0

---

**151. Do pressure charts show the date and time of beginning and ending of the test and the location at which the test was made per 807 KAR 5:066 Sec. 5(3)?**

N/A

---

**152. Are pressure survey records maintained at the utility's principal office per 807 KAR 5:066 Sec. 5(3)?**

N/A

---

**153. Does the pressure at any customer's service pipe anywhere in system area fall below (30) psig or exceed (150) psig per 807 KAR 5:066 Sec. 5(1)?**

Utility stated it does not

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---

**WATER SHORTAGE RESPONSE PLAN**

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**154. Has the utility filed a Water Shortage Response Plan with the Natural Resources Cabinet?**

Yes

---

**155. Has the utility filed a copy of this plan with the Public Service Commission per 807 KAR 5:066 Sec. 17?**

Yes

---

---

**WATER STORAGE FACILITIES**

---

**156. Provide tank location, storage capacity, last inspection and maintenance performed on all storage facilities:**

	<u>Tank and Location</u>	<u>Storage and Capacity Gallons</u>	<u>Last Inspection/ Maintenance</u>
1	Bucks Creek	500,000	10/20/14
2	Little Rockcastle	150,000	10/25/14
3	292 South	100,000	10/25/14
4	Big Elk	100,000	11/2/14
5	Clear Well Tanks (2)	(2) 500,000	11/20/14
6	Turkey	50,000	11/6/14
7	Marcus Wells	200,000	10/28/14
8	Calloway	100,000	11/1/14
9	Otto Brown	260,000	12/7/14
10	Buffalo Horn	50,000	10/31/14
11	Big Sandy Airport	1,040,000	11/2/14
12	KY 645	67,000	12/1/14

---

**157. Total Storage Capacity**

2,617,000

---

**158. Average Daily Consumption**

2013 annual report 1,884,997 gallons per day

---

**159. Will more storage facilities be proposed and when will this be done?**

No

160. If total storage capacity is less than average daily consumption, will a deviation from 807 KAR 5:066 Sec. 4(4) be requested and when will this be done?

N/A

**PUMPING FACILITIES**

161. Provide pump location, number of Pumps/GPM, last inspection and maintenance performed on all pumping facilities:

	<u>Pump Location</u>	<u>No. of Pumps</u> <u>GPM</u>	<u>Last Inspection/</u> <u>Maintenance</u>
1	KY 40 East	2/500	12/20/13
2	Big Elk	2/240	12/20/13
3	Bone Hollow	2/30	12/15/13
4	KY 292	2/130	12/29/13
5	Turkey	2/90	12/12/13
6	KY 40	2/420	12/20/13
7	Calloway	2/90	12/10/13
8	Otto Brown	2/245	11/2/14
9	KY 645	2/90	11/2/14
10	Peter Cave	2/30	11/2/14
11	Buffalo Horn	2/60	12/15/13
12	Davella	2/350	12/10/13
13	Cassell Branch	2/30	12/15/13
14	Big Lick Branch	2/30	12/15/13

---

15	Meathouse	2/25	12/15/13
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**Field Review: (System - Storage Tanks - Pump Stations)**

**Facilities Reviewed:**

---

**1.**  
**Tank:** Clearwell #1  
**Capacity:** 250,000  
**Condition:** No visible issues

---

**2.**  
**Tank:** Clearwell #2  
**Capacity:** 250,000  
**Condition:** No visible issues

---

**3.**  
**Pump Station:** 40 West  
**Condition:** No visible issues

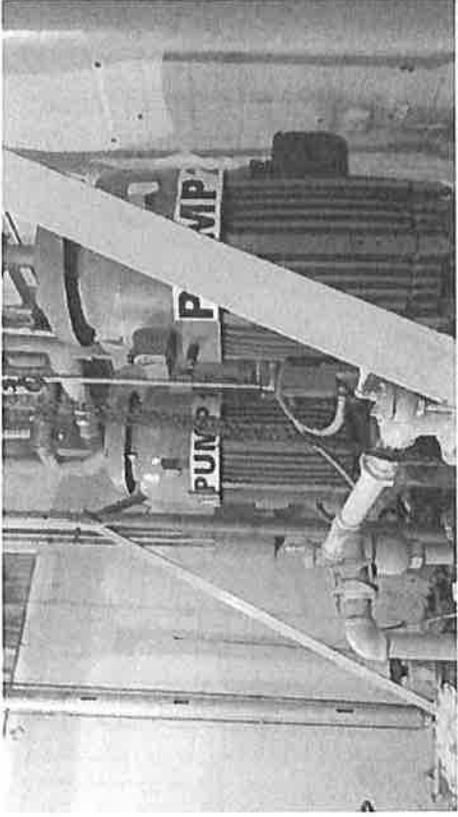
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**Martin County Water District**

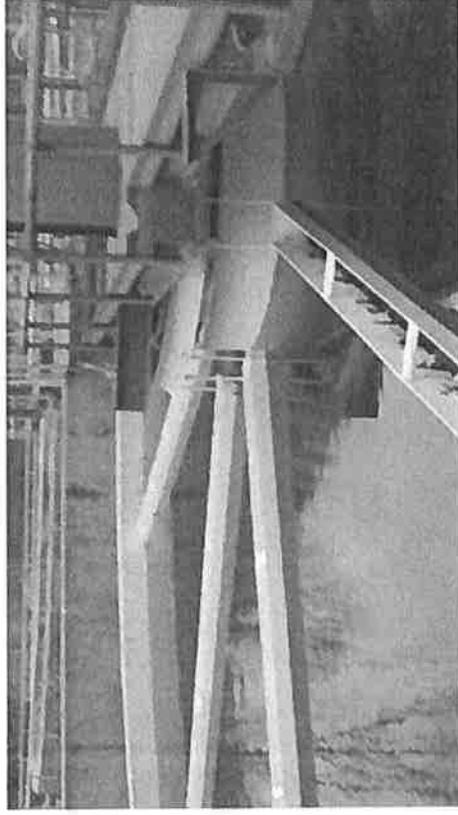
**December 10, 2014**



**Meter Test Bench**



**Water Plant Pumps**



**Clarifier #2 at Water Treatment Plant**



**Clarifiers at Water Treatment Plant**

**ENERGY AND ENVIRONMENT CABINET  
KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
Routine Surface Inspection**

Site/Permit ID: 0800273		Division: <b>Water</b>		Regional Office: Hazard	
Site Name: MARTIN CO. WATER DISTRICT.			Program: <b>Drinking Water</b>		
Site Address: HC69 Box 875					
City: INEZ		State: KY	Zip: 41224	County: Martin	
Inspection Type: Routine Surface			Purpose: Comprehensive		AI #: 2987
Inspection Date: 2/22/16			Time: Start 9.55 AM End 1.10 PM		
Latitude: 37 52 20.3			Longitude: 82 31 09.8		
Coordinate Collection Method: G40-Handheld receiver				Revision Code: 112108	
<b>Drinking Water Data</b>					
Plant Name: MARTIN CO. WATER DISTRICT		Contact Name: Tom Alley			
Phone No.: 606-298-3885		Fax No:		Email Address:	

**I. Administrative Requirements**

Comments:

I. Compliance Status - Not Evaluated

**II. Operator Certification/Accreditation Requirements**

**Operator in Charge or on duty.**

Operator Name	Plant Certification #	Distribution Certification #
<b>Tom Alley</b>	<b>17562</b>	
<b>Mike Sartin</b>	<b>21944</b>	
<b>Tim Reed/ Elbert Osborne</b>	<b>24590</b>	<b>27800</b>

Comments:

II. Compliance Status - Not Evaluated

**III. Record Keeping Requirements**

Comments:

III. Compliance Status - No violations observed

## IV. Reporting Requirements

Comments:

IV. Compliance Status - No violations observed

### V. Operation & Maintenance/Performance Requirements

Plant Type:  C  N  P Service Connections:3500 Population Served:10,500

Average Production MGD: 1.8 Max. Production MGD: 1.96 Design Capacity MGD: 2.0

Source:Tug Fork and Reservoir

**RATING CODES:** S1=No Violations Observed; S2=No Violations Obs-but impending viol trends obs; U1=Out of Compliance-No action taken; U2= Out of Comp-LOW non-recurrent Adm. or O & M; U3= Out of Compliance-NOV; NA = Not Applicable; NE = Not Evaluated. (Add additional comments if U1-U3.)

	RATING	Equipment / Inspection Data	<input type="checkbox"/> Checking block means item is present:
<b>CHEMICAL &amp; PHYSICAL TREATMENT</b>	S1	a) Intakes, pumps, piping <input checked="" type="checkbox"/>	# Of Levels # Pumps2 Max pump.1440
		b) Aeration <input type="checkbox"/>	
	S1	c) Rapid mix <input checked="" type="checkbox"/>	Type: Mechanical paddle If other:
	S1	d) Flocculation <input checked="" type="checkbox"/>	# of Stages1 # of Trains2 Variable Speedyes
	S1	e) Sedimentation <input checked="" type="checkbox"/>	Type: Up flow # of trains:2
	S1	f) Chemical feed coagulation	Polyaluminum Cl/SO4
	S1	g) Carbon Feed: <input checked="" type="checkbox"/>	Feed Site1: rapid mix Feed Site 2:
	S1	h) Filters & controls	Dual Media Filter to Waste <input checked="" type="checkbox"/>
	S1	i) Filters / size sq.ft each./ rate	# 4 Size312 Filtration Rate:2
	S1	j) Automatic analyzers:	Chlorine: <input checked="" type="checkbox"/> Turbidity: <input checked="" type="checkbox"/> Each filter: <input checked="" type="checkbox"/> pH: <input type="checkbox"/>
	S1	k) Chemical storage:	Dry on pallets? <input type="checkbox"/> Chemical containment: <input checked="" type="checkbox"/>
	S1	l) Clearwell / screened vents	Size:100,000 Baffling: <input type="checkbox"/> Locked <input checked="" type="checkbox"/> Screened <input checked="" type="checkbox"/>
	S1	m) Pumps # and size in gpm	High Service2 @ 1400 Backwash 1 @ 2600
	<b>SITE DATA</b>	S1	n) Site Data: Warfield Church
S1		o) Site Data: Little Fork Hode Rd	Cl. Free:1.29 Total: pH:
S1		p) Site Data: Route 3	Cl. Free:1.20 Total: pH:
S1		q) Site Data: Inez	Cl. Free:1.33 Total: pH:
<b>DISINFECTION</b>	S1	r) Disinfection Pre: <input checked="" type="checkbox"/> Post: <input checked="" type="checkbox"/>	Pre Type: Post type:
		s) Automatic chlorinator <input type="checkbox"/>	Automatic changeover <input type="checkbox"/> Proper Fan <input type="checkbox"/>
		t) Separate room & ventilation	Crash Bar <input type="checkbox"/> Alarm <input type="checkbox"/>
		u) Safety equipment	SCBA <input type="checkbox"/> Ammonia <input type="checkbox"/> Detector <input type="checkbox"/>
<b>LABORATORY &amp; RECORDS</b>	S1	v) Laboratory equipment	Adequate Space <input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Lighting : <input checked="" type="checkbox"/>
	S1	(1) Turbidimeter <input checked="" type="checkbox"/>	Type: hach Last calibrated: daily
	S1	(2) Adequate reagent supply	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	S1	(3) Chlorine Test Kit <input checked="" type="checkbox"/>	Type: lamotte DPD reagent up-to-date: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	S1	w) Monthly operating reports	<input checked="" type="checkbox"/> Daily Record Sheet <input type="checkbox"/> Agreement: <input type="checkbox"/>
	S1	x) Housekeeping	good
<b>DISTRIBUTION</b>	S1	y) Master meter ; Recorder	Raw: <input type="checkbox"/> Finished: <input checked="" type="checkbox"/> ; Raw: <input type="checkbox"/> Finished: <input checked="" type="checkbox"/>
	S2	z) Blowoffs / hydrants; flushing	Flushing Schedule: <input checked="" type="checkbox"/> Blowoffs on deadends: <input checked="" type="checkbox"/>
	S1	aa) Water storage:	# of Tanks 16 Total Storage: 4.47 million
	S1	bb) Booster pumps / chlorinators	Booster pumps: <input checked="" type="checkbox"/> Booster chlorinators: <input type="checkbox"/>
<b>PLANT ON SITE OBSERVATION</b>	S1	cc) Plant Data:	Cl free: 1.46 total: 1.55 pH: 7.14
	S1	dd) Turbidity	Raw: Settled: Combined Filter:0.06
	S1	ee) Bacteriological monitoring	Samples per mo. Records: <input checked="" type="checkbox"/>
	S1	ff) No cross-connections observed	None observed: <input checked="" type="checkbox"/> Observed: <input type="checkbox"/> Program: <input type="checkbox"/>
	S1	gg) Wastewater discharge	KPDES Is sizing adequate? <input type="checkbox"/> Yes <input type="checkbox"/> NO

**Comments:** Wolf creek, Coldwater, Inez 1&2 tanks are not in service. The system does not use these tanks at this time. The System has switched from gas chlorine to liquid bleach disinfectant. The system is using a Thornsorb activated carbon system. The water treatment plant has a 100,000 gallon clearwell at the plant and two 500,000 gallon clearwell tanks on the hill above the plant.

The system needs to perform a complete system flush however approximately 50% water loss and low storage due to distribution leaks in the Warfield area make it difficult. Failure to properly flush the system will make meeting future DBP limits a difficult task.

**V. Compliance Status** - No violations obs-but impending viol trends obs

**VI. Discharge/Emission Compliance**

**Comments:**

**VI. Compliance Status** - No violations observed

**VII. Monitoring/Analyses Evaluation**

**Comments:** The system has multiple violations for disinfection by-products from the 2015 year. The Division of Enforcement is addressing these violations.

**VII. Compliance Status** - Out of Compliance- No action taken

**VIII. Environmental /Health Impact**

Work Site Hazard Assessment :  ATTACHED  REVIEWED

**Comments:**

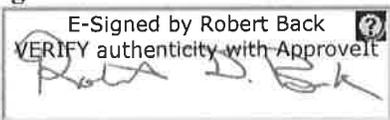
**VIII. Compliance Status** – No violations observed

**IX. Documentation**

- Samples taken by DEP
- Samples taken by outside source
- Instrument readings taken by DEP regional office
- Photographs obtained by DEP
- Copies of records obtained by DEP
- Other documentation

<b>Inspector:</b> Robert D. Back	<b>Title:</b> Environmental Inspector III	<b>Date:</b> 2/22/16
----------------------------------	---	----------------------

**Signature:**



**Overall Compliance Status**

- No violations observed**
- No violations observed, but impending violation trends observed**
- Out of Compliance- No action taken**
- Out of Compliance LOW non-recurrent administrative or O & M**
- Out of Compliance - NOV**

**Comments: The system is currently dealing with the Division of Enforcement concerning DBP violations from the 2015 year.**

Delivery Method: Regular Mail

Cert. Mail #:



MATTHEW G. BEVIN  
GOVERNOR

CHARLES G. SNAVELY  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Division of Water  
233 Birch St  
Hazard, KY 417012115  
www.kentucky.gov

March 14, 2016

Martin Co Water District  
14 Flat Hollow  
Inez, Kentucky 41224

RE: Martin Co Water District -- 2987  
Permit No.: KY0800273  
Martin County, Kentucky  
Activity ID: CIN20160002

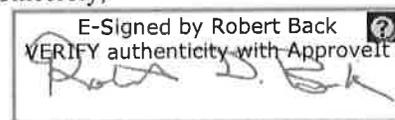
Dear Martin Co Water Dist:

Attached for your information and records is a copy of the DW Comp-Surface performed at Martin Co Water District on February 22, 2016.

The system should continue efforts to leak detect the distribution system and repair any issues as they are found. Measure should be taken to perform a full system flush twice per year while flushing dead ends as often as needed.

If you have any questions or comments concerning this inspection, please contact the Hazard Regional Office at: (606) 435-6022.

Sincerely,



Robert Back  
Environmental Inspector  
Hazard Regional Office  
Division of Water

RB  
Enclosure:

Energy and Environment Cabinet  
Department for Environmental Protection  
Division of Water  
Drinking Water Inspection Report

**AI ID:** 2987      **AI Type:** WATER-Public Water System (2213)  
**AI Name:** Martin Co Water District  
**AI Address:** 14 Flat Hollow  
**City:** Inez, **State:** Kentucky **Zip:** 41224  
**County:** Martin **Regional Office:** Hazard Regional Office  
**Latitude:** 37.878887 **Longitude:** -82.51889  
**Site Contact:** John Mills  
**Title:** Manager  
**Inspection Type:** Incident Investigation **Activity #:** CIV20160001  
**Incident IDs:** 2391174  
**Inspection Start Date:** March 17, 2016 **Time:** 02:30 PM **End Date:** March 17, 2016 **Time:** 02:55 PM  
**Lead DEP Investigator:** Robert Back  
**Persons Interviewed:** John Mills

**General Comments:** I spoke with Mr. Mills the manager of MCWSD about the complaint. He was sending a crew out to the site to check for a possible leak. He stated that he has chased many false reports of leaks in the area. He stated most of the ditches in the area flow all winter and any leaks are hard to find but assured me he would check for a leak at this location.

**Overall Compliance Status:** C

---

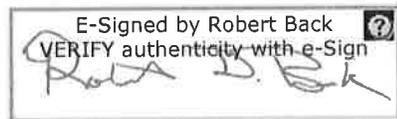
**Investigation Results**

---

**Documentation**

- |  |  |
|--|--|
| <input type="checkbox"/> Photos taken                        | <input type="checkbox"/> Record of visual determination of opacity |
| <input type="checkbox"/> Documents obtained from facility    | <input type="checkbox"/> <b>Samples taken by DEP</b>               |
| <input type="checkbox"/> Samples taken by outside source     | <input type="checkbox"/> Regional office instrument readings taken |
| <input type="checkbox"/> Request for Submission of Documents | <input type="checkbox"/> <b>Other documentation</b>                |

**Inspector:** Robert Back



**Date:** 7/20/16

**Received By:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Delivery Method:** US Mail



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov  
April 8, 2013

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

CERTIFIED MAIL:7012 1010 0002 5921 1446  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Eileen Burk at (502)564-3410 ext. 4842.

Sincerely,

A handwritten signature in cursive script that reads "Natalie P. Bruner".

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2013 - 9951146  
**Determination Date:** 04/01/2013  
**Compliance Period:** 02/01/2013 - 02/28/2013  
**Violation Type:** 36 MONITORING, RTN/RPT MAJOR (SWTR-FILTER) **Tier Level:** 3  
**Contaminant:** 0999 CHLORINE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:150, Sec 7(Large Systems with population of 10,000 or greater) or 401 KAR 8:150, Sec 8 (Small Systems with population of less than 10,000) CHLORINE The public water system failed to submit adequate sampling results to meet Chlorine summary requirements for the compliance period.

**Comments:** Failed to collect and report minimum daily chlorine residual samples at plant tap/distribution entry point (MOR p. 5) and throughout the distribution system (MOR p. 7) for February 2013.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Submit any overdue or unreported sampling analytical results, if available, for the compliance period.

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR is delivered to consumers by mail.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Eileen Burk at (502)564-3410 ext 4842.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601



Issued By:

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: April 8, 2013

How Delivered: Certified/Registered #7012 1010 0002 5921 1446

**PUBLIC NOTIFICATION (PN) CERTIFICATION**  
**SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE**

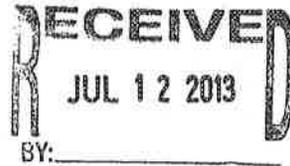
PWS: Martin County Water District

PWSID: KY0800273

Population: 10395

For Violations(s):

2013-9951145 (MOR)  
2013-9951146 (Chlorine)  
2013-9951147 (Turbidity)



That occurred on date(s):

2/1/2013 - 2/28/2013  
2/1/2013 - 2/28/2013  
2/1/2013 - 2/28/2013

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)  
Primary      Date: 7-2-13      Method: mailed (printed on water bill)  
Secondary    Date: 7-3-13      Method: posted throughout community
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: [Handwritten Signature] (General manager)

Date: 7-8-13

Address: 387 E Main St Suite 140 Inez, KY 41224

Phone: 606-298-3885

5

**Notice by Martin County Water District – System ID#: KY0800273**

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

*\*We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 2/1/2013 – 2/28/2013, we did not complete all monitoring or testing for chlorine and turbidity, and therefore cannot be sure of the quality of your drinking water during that time.\**

There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

By the 10<sup>th</sup> of each month we must submit a Monthly Operation Report (MOR) to the Division of Water. The MOR for February 2013 did not arrive by the required deadline and this caused three violations. One violation for not submitting the MOR by the required deadline, another for not submitting daily chlorine results, and another for failing to submit the daily turbidity readings. (The chlorine results and turbidity readings are contained within the MOR.) We have modified our procedures to assure that the MOR arrives by the required deadline.

For more information, please contact John Mills at (606) 298-3885 or 387 E Main St. Suite 140, Inez, KY 41224

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date 7-3-13 Name of Facility Martin County Health Dept  
Dempsey Housing  
Riverside Apartments  
Quail Hollow Apartments 1 & 2  
Martin County Library, Inez  
Martin County Library, Lovely  
S Keez Ward Manor Apartments

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature:  Date: 7-8-13

Martin County Water District  
387 East Main St., Suite 140  
Inez, KY 41224 (606) 298-3885

BILL DATE  
ACCOUNT

7/20/2013

PRESORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

Return Service Requested

Bring Entire Card When Paying  
In Person

LOCATION 2737 N Wolf Crk

Service	Meter #	Prior Date	Prior Read	Read Date	Cur Read	Usage	Amount
---------	---------	------------	------------	-----------	----------	-------	--------

Previous Due \$100.15 NET DUE NOW \$100.15

After Hours Emergency Number: (606) 298-7439



**Notice by Martin County Water District – System ID#: KY0800273**

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

*\*We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 2/1/2013 – 2/28/2013, we did not complete all monitoring or testing for chlorine and turbidity, and therefore cannot be sure of the quality of your drinking water during that time.\**

There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

By the 10<sup>th</sup> of each month we must submit a Monthly Operation Report (MOR) to the Division of Water. The MOR for February 2013 did not arrive by the required deadline and this caused three violations. One violation for not submitting the MOR by the required deadline, another for not submitting daily chlorine results, and another for failing to submit the daily turbidity readings. (The chlorine results and turbidity readings are contained within the MOR.) We have modified our procedures to assure that the MOR arrives by the required deadline.

For more information, please contact John Mills at (606) 296-3885 or 387 E Main St. Suite 140, Inez, KY 41224

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*



MARTIN CO. WATER DISTRICT

287 E. Main St. Suite 140  
INEZ, KY 41224-9406



Attn: PN  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4th Floor  
Frankfort, Ky. 40601

**RECEIVED**  
 APR 18 2013  
 BY: \_\_\_\_\_

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JOHN MILLS  
 MARTIN CO WATER DISTRICT #1  
 287 E MAIN ST. SUITE 140  
 INEZ, KY 41224

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery  
 Helen Proctor 4/12/13

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) 7012 1010 0002 5921 1446

PS Form 3811, February 2004 Domestic Return Receipt KY 0800273 102595-02-M-1540



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
[www.water.ky.gov](http://www.water.ky.gov)

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

May 14, 2013

CERTIFIED MAIL:7012 1010 0002 5921 0746  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at 502-564-3410 ext. 4986 or email [kellem.husband@ky.gov](mailto:kellem.husband@ky.gov).

Sincerely,

A handwritten signature in cursive script that reads "Natalie P. Bruner".

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT for ENVIRONMENTAL PROTECTION  
DIVISION of WATER**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2013 - 9951149  
**Determination Date:** 05/02/2013  
**Compliance Period:** 01/01/2013 - 03/31/2013  
**Violation Type:** 02 MCL, **AVERAGE Tier Level:** 2  
**PWS Facility:** 0800273DS001 DISTRIBUTION - MARTIN CO WATER DIST #1  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510, Section 1 TTHM The public water system exceeded the MCL (as an average of samples) for the specified contaminant in the compliance period 01/01/2013 - 03/31/2013. The reported result of .083 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**  
Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at 502-564-3410 ext. 4986.  
ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601  
(502) 564-3410

*Natalie P. Bruner*

Issued By:

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 14, 2013

How Delivered: Certified/Registered #7012 1010 0002 5921 0746

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

2. Article Number  
(Transfer from service label)

PS Form 3811, February 2004

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
**X** *Helen Proctor*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
5-17

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

7012 1010 0002 5921 0746

Domestic Return Receipt **KY 0800273**

102595-02-M-1540



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

May 14, 2013

CERTIFIED MAIL:7012 1010 0002 5921 0739  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at 502-564-3410 ext. 4986 or email [Kelleem.husband@ky.gov](mailto:Kelleem.husband@ky.gov).

Sincerely,

A handwritten signature in cursive script that reads "Natalie P. Bruner".

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT for ENVIRONMENTAL PROTECTION  
DIVISION of WATER**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2013 - 9951148  
**Determination Date:** 05/02/2013  
**Compliance Period:** 01/01/2013 - 03/31/2013  
**Violation Type:** 02 MCL, AVERAGE **Tier Level:** 2  
**PWS Facility:** 0800273DS001 DISTRIBUTION - MARTIN CO WATER DIST #1  
**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510, Section 1 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL (as an average of samples) for the specified contaminant in the compliance period 01/01/2013 - 03/31/2013. The reported result of .068 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at 502-564-3410 ext. 4986.  
ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601  
(502) 564-3410

*Natalie P. Bruner*

Issued By:

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 14, 2013

How Delivered: Certified/Registered #7012 1010 0002 5921 0739

**PUBLIC NOTIFICATION (PN) CERTIFICATION**

**SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE**

PWS: Martin County Water District

PWSID: KY0800273

Population: 10395

For Violations(s):

2013-9951148 (HAA)  
2013-9951149 (THM)

That occurred on date(s):

1/1/2013 - 3/31/2013  
1/1/2013 - 3/31/2013

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in **40 CFR 141.201 to 141.210**.

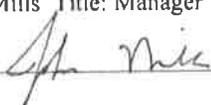
- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)
  - Primary      Date: 5/31/2013      Method: with water bill
  - Secondary    Date: 5/31/2013      Method: posted throughout community
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: \_\_\_\_\_



Date: 6/7/2013

Address: 387 E Main St Suite 140 Inez, KY 41224

## Martin County Water District Water Quality Report 2012

Water System ID: KY0800273  
 Manager: John Mills  
 606-298-3885

CCR Contact: Tom Alley  
 606-298-7439  
 etalley47@bellsouth.net

Mailing Address:  
 387 E Main St. Suite 140  
 Inez, KY 41224

Meeting location and time:  
 Water District Office  
 Fourth Monday at 4:00 PM

The majority of the water provided to Martin County Water District customers is treated by our water treatment facility. The source is Crum Reservoir and replenished from Tug River. Finished water was also purchased from Kermit, West Virginia whose source is the Tug River Fork, and Prestonsburg Utilities, which supplies some water to the Industrial Park. The source for Prestonsburg is the Levisa Fork of the Big Sandy River. All of these sources are surface water. Potential contaminant sources of concern include major roads, bridges and culverts. Other potential impacts include the coal industry, oil and gas industries, and straight pipes. Many of the potential contaminant sites are located along the Tug Fork of the Big Sandy in the counties of Mingo and Wayne in West Virginia. Each of the water systems has completed a Source Water Assessment Plan. The assessments are available for review at each of the respective water system offices and/or local public libraries. The assessment for Kermit can also be reviewed by contacting the West Virginia Bureau of Public Health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

### Information About Lead:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

### Some or all of these definitions may be found in this report:

- Maximum Contaminant Level (MCL)** - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG)** - the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL)** - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Residual Disinfectant Level Goal (MRDLG)** - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Below Detection Levels (BDL)** - laboratory analysis indicates that the contaminant is not present.
- Not Applicable (N/A)** - does not apply.
- Parts per million (ppm)** - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.
- Parts per billion (ppb)** - or micrograms per liter, (µg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- Parts per trillion (ppt)** - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.
- Parts per quadrillion (ppq)** - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.
- Picocuries per liter (pCi/L)** - a measure of the radioactivity in water.
- Millirems per year (mrem/yr)** - measure of radiation absorbed by the body.
- Million Fibers per Liter (MFL)** - a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- Nephelometric Turbidity Unit (NTU)** - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.
- Variances & Exemptions (V&E)** - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
- Action Level (AL)** - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.
- Treatment Technique (TT)** - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Unless otherwise noted, the report level is the highest level detected.

	Allowable Levels	Source	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity
Turbidity (NTU) TT * Representative samples of filtered water	No more than 1 NTU Less than 0.3 NTU in 95% monthly samples	M= K= P=	0.21 0.13 0.267	100	No	Soil runoff

**Regulated Contaminant Test Results**

Contaminant [code] (units)	MCL	MCLG	Source	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Total Coliform Bacteria # or % positive samples	1	0		1	N/A	Apr & May 2012	No	Naturally present in the environment
Alpha emitters [4000] (pCi/L)	15	0	M=	1.7	1.7 to 1.7	Jul-08	No	Erosion of natural deposits
Combined radium (pCi/L)	5	0	P=	0.7	0.7 to 0.7	Jul-11	No	Erosion of natural deposits
Barium [1010] (ppm)	2	2	K= P=	0.056 0.05	0.056 to 0.056 0.05 to 0.05	Apr-12	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	M=	0.030 (90 <sup>th</sup> percentile)	0 to 0.28	Aug-11	No	Corrosion of household plumbing systems
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	M=	3 (90 <sup>th</sup> percentile)	0 to 6	Aug-11	No	Corrosion of household plumbing systems
Nitrate [1040] (ppm)	10	10	M= K= P=	0.41 0.22 0.44	0.41 to 0.41 0.22 to 0.22 0.44 to 0.44	Oct-12 Jul-12	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Selenium [1045] (ppb)	50	50	K=	0.0016	0.0016 to 0.0016		No	Discharge from petroleum and metal refineries and mines; erosion of natural deposits
Total Organic Carbon (ppm) (report level=lowest avg. range of monthly ratios)	TT*	N/A	M= K= P=	1.73 1 0.96	1 to 5.11 to 0.79 to 1.28	N/A	No*	Naturally present in environment.
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.								
Chlorine (ppm)	MRDL = 4	MRDLG = 4	M=	1.31 (highest average)	0.39 to 1.72	N/A	No	Water additive used to control microbes.
HAA (ppb) (all sites) [Haloacetic acids] (average & range)	60	N/A	M= K= P=	60 44.1 58	16 to 112 5.6 to 94.5 3 to 51	N/A	No	Byproduct of drinking water disinfection
THM (ppb) (all sites) [total trihalomethanes] (average & range)	80	N/A	M= K= P=	80 66.9 73	21 to 152 22.9 to 123 19 to 69	N/A	No	Byproduct of drinking water disinfection

\* Prestonsburg has been granted a permanent waiver of the TOC compliance calculation but monthly samples continue to be tested.

Martin County Water District recently failed to comply with required testing procedures. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct the situation.

*\*We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 4/1/2012 through 6/30/2012, we did not complete all monitoring or testing for xylenes and during 7/1/2012 through 7/31/2012, we did not complete all monitoring or testing for chlorine and therefore cannot be sure of the quality of your drinking water during that time.\**

Xylene samples are collected and sent to and analyzed by a certified laboratory. We submitted a sample on 1/5/2012 and xylenes were not detected. However, the sample schedule provided by the Kentucky Division of Water indicated that the sample was required to be collected and submitted during the second quarter instead of the first quarter. We received a violation when we sampled during the wrong period.

Chlorine residuals are monitored daily at the water treatment plant and also in the distribution system. These test results are recorded on a Monthly Operation Report that must be submitted to the Division of Water by the 10<sup>th</sup> of each month. We received a monitoring violation when we failed to report the required number of distribution chlorine residual sample results for July 2012.

There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours. There are no health effects for failing to report sampling results during the proper time frame. We have reviewed our sampling and reporting procedures to help prevent similar incidents in the future.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224

*\*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.\**

## Water Quality – Consumer Confidence Report “Good Faith Effort”

System: Martin County Water District    PWSID: KY0800273

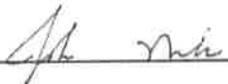
State and Federal regulations require that a community water system provide an annual report to its customers containing information on the quality of the water delivered by the system. The report must also include the risks from exposure to contaminants detected in the drinking water.

The water system must also make a good-faith effort to reach consumers who do not get water bills. A good-faith effort is to be tailored to the consumer who is served by the system but is not a bill-paying customer, such as a renter or worker.

Date	Name of Facility
05/31/13	Riverside Apartment
05/31/13	Dempsey Housing Authority
05/31/13	Martin County Library
05/31/13	Martin County Court House
05/31/13	Quail Hollow Apartments
05/31/13	Martin County Health Department
05/31/13	Skeez Ward Manor

I, the undersigned, confirm that a copy of the Consumer Confidence Report was prepared and distributed to the above listed facilities. Information contained in the report furnished to the facilities is identical to information provided to the billed consumers.

Printed Name: John Mills

Signature: \_\_\_\_\_  \_\_\_\_\_ Date: 6/7/2013

Martin County Water District  
387 East Main St., Suite 140  
Inez, KY 41224 (606) 298-3885

**BILL DATE** 6/20/2013  
**ACCOUNT** [REDACTED]

PRESCRIBED - -  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

Return Service Requested

**Bring Entire Card When Paying  
In Person**

**LOCATION** 4501 Buffalo Horn Rd

Service	Meter #	Prior Date	Prior Read	Read Date	Cur Read	Usage	Amount
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Previous Due \$142.90 **NET DUE NOW** \$142.90

After Hours Emergency Number: (606) 298-7439



**Notice by Martin County Water District - System ID#: KY0800273**

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 1/1/2013 through 3/31/2013 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected by our system for the last 12 months. The level of THM averaged at our system for 1/1/2013 to 3/31/2013 was 0.083 mg/L and HAA was 0.068 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant types/levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter.

For more information, please contact John Mills at (606) 298-3885 or 387 E. Main St., Suite 140, Inez, KY 41224.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

In 2012, Martin County Water District detected 13 contaminants in the drinking water and some of them were above the EPA accepted level for drinking water. Please go to [www.krwa.org/2012cer/martincounty.pdf](http://www.krwa.org/2012cer/martincounty.pdf) to view your 2012 annual water quality report and learn more about your drinking water. This report contains important information about the source and quality of your drinking water. To speak with someone about the report, please call (606) 298-3885. If you would like a paper copy of the 2012 Annual Water Quality Report mailed to your home please check the paper copy box and mail back with your payment or call (606) 298-7439. Mail a copy

Martin County Water District  
 387 East Main St., Suite 140  
 Inez, KY 41224 (606) 298-3885  
 Return Service Requested

**BILL DATE**  
**ACCOUNT**

6/20/2013  
 [Redacted]  
 Bring Entire Card When Paying  
 In Person

PRESCRIBED  
 FIRST-CLASS MAIL  
 U.S. POSTAGE PAID  
 PERMIT #2 INEZ, KY 41224

**LOCATION** 4501 Buffalo Horn Rd

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
---------	---------	------------	------------	-----------	-----------	-------	--------

Previous Due \$142.90 **NET DUE NOW** \$142.90

After Hours Emergency Number: (606) 298-7439



**Martin County**  
**Red Magic**  
**INEZ, KY 41224**



### Notice by Martin County Water District – System ID#: KY0800273

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 1/1/2013 through 3/31/2013 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected by our system for the last 12 months. The level of THM averaged at our system for 1/1/2013 to 3/31/2013 was 0.083 mg/L and HAA was 0.068 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

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This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant types/levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter.

For more information, please contact John Mills at (606) 298-3885 or 387 E Main St. Suite 140, Inez, KY 41224

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

In 2012, Martin County Water District detected 13 contaminants in the drinking water and none of them were above the EPA accepted level for drinking water. Please go to [www.krwa.org/2012ccr/martincounty.pdf](http://www.krwa.org/2012ccr/martincounty.pdf) to view your 2012 annual water quality report and learn more about your drinking water. This report contains important information about the source and quality of your drinking water. To speak with someone about the report, please call (606) 298-3885. If you would like a paper copy of the 2012 Annual Water Quality Report mailed to your home please check the paper copy box and mail back with your payment or call (606) 298-7439. Mail a copy

**COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JOHN MILLS  
 MARTIN CO WATER DISTRICT #1  
 287 E MAIN ST SUITE 140  
 INEZ, KY 41224

2. Article Number  
 (Transfer from service label)

7012 1010 0002 5921 0739

PS Form 3811, February 2004

Domestic Return Receipt **KY 0800273**

102585-02-M-1540

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Helen Proctor*  Agent  Addressee

B. Received by (Printed Name)

C. Date of Delivery

5-17

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

- Certified Mail  Express Mail
- Registered  Return Receipt for Merchandise
- Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

August 19, 2013

CERTIFIED MAIL:7012 1010 0002 5921 0999  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kellee.husband@ky.gov](mailto:kellee.husband@ky.gov).

Sincerely,

A handwritten signature in cursive script that reads "Natalie P. Bruner".

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2013 - 9951150  
**Determination Date:** 07/31/2013  
**Compliance Period:** 04/01/2013 - 06/30/2013  
**Violation Type:** 02 MCL, AVERAGE **Tier Level:** 2  
**PWS Facility:** 0800273DS001 DISTRIBUTION - MARTIN CO WATER DIST #1  
**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510, Section 1 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL (as an average of samples) for the specified contaminant in the compliance period 04/01/2013 - 06/30/2013. The reported result of .064 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**  
Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kellee.husband@ky.gov](mailto:kellee.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

*Natalie P. Bruner*

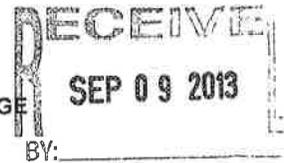
Issued By:

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: August 19, 2013

How Delivered: Certified/Registered #7012 1010 0002 5921 0999

**PUBLIC NOTIFICATION (PN) CERTIFICATION**  
SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE



PWS: Martin County Water District

PWSID: KY0800273

Population: 10395

For Violations(s):

2013-9951150 (HAA5)

That occurred on date(s):

4/1/2012 - 6/30/2012

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)  
Primary      Date: 9-4-13      Method: mailed (printed on water bill)  
Secondary    Date: 9-4-13      Method: posted throughout community
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: \_\_\_\_\_

Date: 9-5-13

Address: 387 E Main St Suite 140 Inez, KY 41224

Phone: 606-298-3885

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
	Dempsey Housing
	Martin County Library, Lovely
	Martin County Library, Inez
	Riverside Apartments
	Martin County Health Dept.
	Inez Post Office
	Skeez Ward Manor Apartments

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature:  Date: 9-5-13

Martin County Water District  
307 East Main St., Suite 140  
Inez, KY 41224

(606) 298-3885

BILL DATE

9/20/2013

ACCOUNT

Bring Entire Card When Paying  
In Person

PRESORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

Return Service Requested

LOCATION

RT	Rate	Acct	Rate	Acct	Rate	Acct	Rate
RT	Res. N/Tax Water		7/20/2013	550	8/20/2013	650	5900
	SC School Tax						\$1.45

Service Due

\$97.38

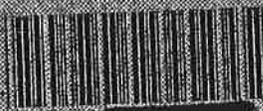
NET DUE NOW

\$146.38

PAID BY 10/20/2013

\$160.18

After Hours Emergency Number: (606) 298-7439



Drinking water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct the situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2013 through 7/30/2013 show that our system exceeds the ground water maximum contaminant level (MCL) for haloacetic acids (HAA). The standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected by our system for the last 12 months. The average HAA averaged at our system for 4/1/2013 to 7/30/2013 was 0.061 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If you are pregnant or you are a water is not order safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care provider about drinking this water.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

We are not an emergency. This had been an emergency, you would have been notified within 24 hours. We are working to minimize the formation of haloacetic acids while ensuring we maintain an adequate level of disinfection. We have taken additional steps to purge distribution lines, remove scale or pipe material, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter.

If more information, please contact John Mills at (606) 298-3885 or 307 E Main St., Suite 140, Inez, KY 41224.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

In 2012, Martin County Water District detected 13 contaminants in the drinking water and some of them were above the HPA accepted level for drinking water. Please visit [www.martincountyky.gov](http://www.martincountyky.gov) to view your 2012 annual water quality report and learn more about your drinking water. This report contains important information about the source and quality of your drinking water. To speak with someone about the report, please call (606) 298-3885. If you would like a paper copy of the 2012 Annual Water Quality Report mailed to your home please check the paper copy box and mail back with your payment or call (606) 298-3885. Mail a copy

**Notice by Martin County Water District - System ID#: KY000273**  
Your water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2013 through 6/30/2013 show that our system exceeds the standard, or maximum contaminant level (MCL) for haloacetic acids (HAA). The standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected by our system for the last 12 months. The level of HAA averaged at our system for 4/1/2013 to 6/30/2013 was 0.064 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours. We are working to minimize the formation of haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant types/levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are so monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter.

For more information, please contact John Mills at (606) 298-3885 or 387 E Main St. Suite 140, Inez, KY 41224

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**Notice by Martin County Water District - System ID#: KY000273**  
Your water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2013 through 6/30/2013 show that our system exceeds the standard, or maximum contaminant level (MCL) for haloacetic acids (HAA). The standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected by our system for the last 12 months. The level of HAA averaged at our system for 4/1/2013 to 6/30/2013 was 0.064 mg/L.

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For more information, please contact John Mills at (606) 298-3885 or 387 E Main St. Suite 140, Inez, KY 41224

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

In 2012, Martin County Water District detected 13 contaminants in the drinking water and none of them were above the EPA accepted level for drinking water. Please go to [www.krwa.org/2012ccr/martincounty.pdf](http://www.krwa.org/2012ccr/martincounty.pdf) to view your 2012 annual water quality report and learn more about your drinking water. This report contains important information about the source and quality of your drinking water. To speak with someone about the report, please call (606) 298-3885. If you would like a paper copy of the 2012 Annual Water Quality Report mailed to your home please check the paper copy box and mail back with your payment or call (606) 298-7439. Mail a copy

THM & HAA Stage 1  
DBPR Template 2-18

Insert water system name and ID# in header. Insert compliance period begin date, end date, and average level. Remove brackets.

Do not modify mandatory language!

Replace explanation language with your own to explain what happened, what is being done and date that compliance is anticipated.

Insert contact information.

No text below this point.

Copy and paste notice. Prior to paste make sure that the cursor is at the highest point in the text box.

No text below this point.



RECEIVED  
AUG 28 2013

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li>■ Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li>■ Print your name and address on the reverse so that we can return the card to you.</li><li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>	<p>A. Signature <input checked="" type="checkbox"/> Agent x Helen Proctor <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)</p> <p>C. Date of Delivery 8-23</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>
1. Article Addressed to:  JOHN MILLS MARTIN CO WATER DISTRICT #1 287 E MAIN ST SUITE 140 INEZ, KY 41224	3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
2. Article Number (transfer from service label) PS Form 3811, February 2004	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes 7012 1010 0002 5921 0999 Domestic Return Receipt KY 0800 273 102595-02-M-1540

DEMS  
SEP 18 2013  
RECEIVED



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
[www.water.ky.gov](http://www.water.ky.gov)  
March 19, 2014

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

CERTIFIED MAIL:7012 2920 0001 0742 5648  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Rodney Ripberger at (502)564-3410 ext. 4579 or email at [Rodney.ripberger@ky.gov](mailto:Rodney.ripberger@ky.gov).

Sincerely,

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2014 - 9951151  
**Determination Date:** 03/10/2014  
**Compliance Period:** 01/01/2014 - 01/31/2014  
**Violation Type:** 44 MONTHLY COMB FLTR EFFLUENT (IESWTR/LT1) **Tier Level:** 2  
**Contaminant:** 0300 IESWTR

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:150, Section 3 IESWTR The public water system failed to meet the treatment technique requirement for turbidity by exceeding 0.3 NTU in over 5% of the combined filter effluent samples collected in the compliance period 01/01/2014 - 01/31/2014.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Rodney Ripberger at (502)564-3410 ext 4579 or email at [Rodney.Ripberger@ky.gov](mailto:Rodney.Ripberger@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> floor  
Frankfort, KY 40601



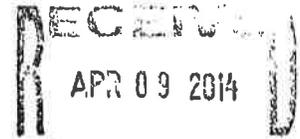
Issued By:

Natalie Bruner  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: March 19, 2014

How Delivered: Certified/Registered #7012 2920 0001 0742 5648

PUBLIC NOTIFICATION (PN) CERTIFICATION



PWS: Martin County Water District

PWSID: KY0800273

Population: 10395

For Violations(s):

2014-9951151 (turbidity)

That occurred on date(s):

1/1/2014 - 1/31/2014

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on: 3/26/2014
- 2. How notice was distributed (Include copy of each type of notice for each notification)
  - Primary      Date: 4/3/2014      Method: PN on water bills
  - Secondary    Date: 4/3/2014      Method: Posted throughout community
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)
  - N/A

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: *John Mills*

Date: 4/3/14

Address: 387 E Main St Inez, KY 41224

Phone: 606-298-7439

*6*

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
4/3/14	Martin County Court House
4/3/14	Martin County Public Libraries
4/3/14	Quail Hollow Apartments
4/3/14	Dempsey Housing
4/3/14	Martin County Health Dept.
4/3/14	Inez Post Office
4/3/14	Warfield Post Office

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

4/3/14

**Notice by Martin County Water District – System ID#: KY0800273**

Our water system recently violated a drinking water requirement. Although this was not an emergency, as our customers, you have a right to know what happened, what you should do, and what we did (are doing) to correct this situation.

We routinely monitor your water for turbidity (cloudiness). This tells us whether we are effectively filtering the water supply. Water samples for January 2014 showed that 5.4 percent of turbidity measurements were over 0.3 turbidity units – the standard is that no more than 5 percent of samples may exceed 0.3 turbidity units per month. The turbidity levels are relatively low. However, their persistence is a concern. Normal turbidity levels at our plant are 0.1 units. This is not an emergency. If it had been, you would have been notified within 24 hours.

- There is nothing you need to do. You do not need to boil your water or take other actions. We do not know of any contamination, and none of our testing has shown disease-causing organisms in the drinking water.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

*\*Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.\** These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

We made repairs to our equipment. We inspected and cleaned the filters. The problem is resolved. For more information, please contact John Mills at (606) 298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*\*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.\**

Martin County Water District  
387 East Main St., Suite 140  
Inez, KY 41224 (606) 298-3885

**BILL DATE** 4/20/2014  
**ACCOUNT** 7-00376

PRESORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

**Return Service Requested**

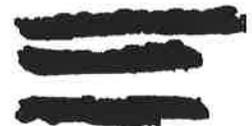
**Bring Entire Card When Paying  
In Person**

**LOCATION** 115 Sansom Dr

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
R1 Res. N/Tax Water	19629201	2/20/2014	241	3/20/2014	248	7000	\$60.00
SC School Tax							\$1.80

<b>Previous Due</b>	\$0.00	<b>NET DUE NOW</b>	\$61.80	<b>If Paid After 4/20/2014 Pay</b>	\$67.98
---------------------	--------	--------------------	---------	------------------------------------	---------

After Hours Emergency Number: (606) 298-7439



Notice by Martin County Water District – System ID#: KY0800273

Our water system recently violated a drinking water requirement. Although this was not an emergency, as our customers, you have a right to know what happened, what you should do, and what we did (are doing) to correct this situation. We routinely monitor your water for turbidity (cloudiness). This tells us whether we are effectively filtering the water supply. Water samples for January 2014 showed that 5.4 percent of turbidity measurements were over 0.3 turbidity units – the standard is that no more than 5 percent of samples may exceed 0.3 turbidity units per month. The turbidity levels are relatively low. However, their persistence is a concern. Normal turbidity levels at our plant are 0.1 units. This is not an emergency. If it had been, you would have been notified within 24 hours.

- There is nothing you need to do. You do not need to boil your water or take other actions. We do not know of any contamination, and none of our testing has shown disease-causing organisms in the drinking water.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

*\*Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.\* These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.*

We made repairs to our equipment. We inspected and cleaned the filters. The problem is resolved. For more information, please contact John Mills at (606) 298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*\*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.\**

OF THE RETURN ADDRESS, FOLD AT DOTTED LINE  
**CERTIFIED MAIL**



7012 1010 0001 2993 1955

U.S. POSTAGE  
PAID  
FRANKFORD, KY  
PERMIT NO. 14



\$7.19  
00100105-02



1009

40601

Martin County Utility Board  
387 E. Main St. Suite 140  
Inez, KY 41224  
(606)298-3885

*Handwritten initials/signature*

Attn: PN

Printing-Noter-Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4th Floor  
Frankfort, KY 40601



RECEIVED  
MAR 27 2014  
BY: \_\_\_\_\_

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"><li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li>■ Print your name and address on the reverse so that we can return the card to you.</li><li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>	A. Signature <input checked="" type="checkbox"/> Helen Prator <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
	1. Article Addressed to:  JOHN MILLS MARTIN CO WATER DISTRICT #1 287 E MAIN ST SUITE 140 INEZ, KY 41224	B. Received by (Printed Name)
	D. Is delivery address different from Item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No	
	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label)	7012 2920 0001 0742 5648	
PS Form 3811, February 2004	Domestic Return Receipt <u>BY 0800273</u> 102595-02-M-1540	

SCANNED  
MAR 28 2014  
QC



**ENERGY AND ENVIRONMENT CABINET**

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

November 20, 2014

CERTIFIED MAIL:7014 0150 0002 1561 1813  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951155  
**Determination Date:** 11/05/2014  
**Compliance Period:** 07/01/2014 - 09/30/2014  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTIN CO WATER DIST  
**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 07/01/2014 - 09/30/2014. The reported result of .081 mg/l exceeded the MCL of 0.060 mg/l.

**Comments:** Site SM8, SM7, 119, 118 exceeded MCL.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: November 20, 2014

How Delivered: Certified/Registered #7014 0150 0002 1561 1813



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

November 20, 2014

CERTIFIED MAIL: 7014 0150 0002 1561 1813  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951159  
**Determination Date:** 11/05/2014  
**Compliance Period:** 07/01/2014 - 09/30/2014  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 07/01/2014 - 09/30/2014. The reported result of .101 mg/l exceeded the MCL of 0.080 mg/l.

**Comments:** Site SM8, SM7, 119, 118 exceeded MCL.

**The remedial measure(s) and date(s) to be completed by are as follows:**  
Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: November 20, 2014

How Delivered: Certified/Registered #7014 0150 0002 1561 1813

**PUBLIC NOTIFICATION (PN) CERTIFICATION**

**SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE**

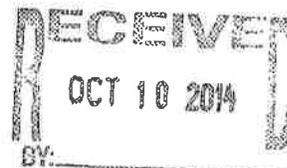
PWS: Martin County Water District

PWSID: KY0800273

Population: 10843

For Violations(s):

THM  
HAA



That occurred on date(s):

7/1/2014 through 9/30/2014

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in **40 CFR 141.201 to 141.210**.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)  
Primary      Date: 10/3/14      Method: Mailed to customers with water bill  
Secondary    Date: 10/7/14      Method: Posted throughout community
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: \_\_\_\_\_

Date: 10/7/14

Address: 387 E Main St Suite 140 Inez, KY 41224

Phone: 606-298-3885

6

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
10/7/14	Martin County Court House
10/7/14	Martin County Public Libraries
10/7/14	Quail Hollow Apartments
10/7/14	Dempsey Housing
10/7/14	Martin County Health Dept.
10/7/14	Inez Post Office
10/7/14	Warfield Post Office

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature: \_\_\_\_\_



Date: 10/7/14

## Notice by Martin County Water District – System ID#: KY0800273

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 7/1/2014 through 9/30/2014 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 7/1/2014 to 9/30/2014 was 0.101 mg/L and HAA was 0.081 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*



RECEIVED  
OCT 18 2014  
BY:



**MARTIN CO WATER DISTRICT NO 1**

Martin County Utility Board  
387 E Main St Suite 140  
Inez, KY 41224  
(606)298-3885

Attn: PN  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4th Floor  
Frankfort, KY 40601

Martin County Water District  
387 East Main St., Suite 140  
Inez, KY 41224 (606) 298-3885

**BILL DATE** 10/20/2014  
**ACCOUNT** [REDACTED]

PRESORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

**Return Service Requested**

**Bring Entire Card When Paying  
In Person**

**LOCATION** 523 Wickerfield Rd

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
R1 Res. N/Tax Water	70816399	8/20/2014	99	9/20/2014	101	2000	\$26.50
SC School Tax							\$0.80

Previous Due: \$0.00 **NET DUE NOW** \$27.30 If Paid After 10/20/2014 Pay \$30.03

After Hours Emergency Number: (606) 298-7439



[REDACTED]  
523 Whickerfield Rd  
INEZ, KY 41224

Notice by Martin County Water District – System ID#: KY0800273

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 7/1/2014 through 9/30/2014 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 7/1/2014 to 9/30/2014 was 0.101 mg/L and HAA was 0.081 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, are an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 806-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

RECEIVED  
DEC 01 2014

BY: \_\_\_\_\_

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li>■ Print your name and address on the reverse so that we can return the card to you.</li><li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee <i>x John Mills</i></p>
1. Article Addressed to:	<p>B. Received by (Printed Name) C. Date of Delivery <i>11-28</i></p>
<p>JOHN MILLS MARTIN CO WATER DISTRICT #1 287 E MAIN ST SUITE 140 INEZ, KY 41224</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>
2. Article Number (Transfer from service label)	<p>3. Service Type <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>
PS Form 3811, July 2013	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p> <p>7014 0150 0002 1561 1813 Domestic Return Receipt <i>KY 0800273</i></p>



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

November 20, 2014

CERTIFIED MAIL:7014 0150 0002 1561 2223  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee' Husband at 502-564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT for ENVIRONMENTAL PROTECTION  
DIVISION of WATER

NOTICE OF VIOLATION

To:  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

PWSID: KY0800273  
PWS Name: MARTIN CO WATER DISTRICT #1 AI ID: 2987  
County: MARTIN  
Violation Number: 2015 - 9951160  
Determination Date: 11/06/2014  
Compliance Period: 07/01/2014 - 09/30/2014  
Violation Type: 35 FAILURE SUBMIT OEL REPORT FOR HAA5 Tier Level: 3  
PWS Facility: IDSE9999 IDSE - MARTIN CO WATER DIST  
Contaminant: 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 Section 1(1) TOTAL HALOACETIC ACIDS (HAA5) The public water system failed to submit Operational Evaluation Levels (OEL's) report for compliance period 07/01/2014 - 09/30/2014.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee' Husband at (502) 564-3410 ext. 4986.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601  
(502) 564-3410 x 4959

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: November 20, 2014

How Delivered: Certified/Registered #7014 0150 0002 1561 2223



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

December 30, 2014

John Mills  
Martin County Water District #1  
287 E Main St Suite 140  
Inez, KY 41224

Re: **Rescission Letter**  
AI ID: 2987  
PWS Name: Martin Co Water District #1  
PWSID: KY0800273  
Violation #: 2015-9951160  
County: Martin

Dear Mr. Mills:

The Kentucky Department for Environmental Protection has rescinded the Notice of Violation issued to Martin County Water District #1. The Notice of Violation was issued for failure to Operational Evaluation Levels (OEL's) report for the compliance period 07/01/2014-09/31/2014 in accordance with 401KAR 8:510.

The Division of Water's Compliance & Technical Assistance Branch has determined that the public water system submitted OEL on time. Therefore, the violation has been rescinded.

If you have any questions, please contact Brian Chitti at (502) 564-3410, ext. 4988.

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Enclosure  
C: Drinking Water Program Files

RECEIVED  
DEC 01 2014  
BY: \_\_\_\_\_

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li>■ Print your name and address on the reverse so that we can return the card to you.</li><li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>	A. Signature X <u>John Mills</u> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee
1. Article Addressed to:	B. Received by (Printed Name) _____ C. Date of Delivery <u>11-28</u>
<p><b>JOHN MILLS</b> <b>MARTIN CO WATER DISTRICT #1</b> <b>287 E MAIN ST SUITE 140</b> <b>INEZ, KY 41224</b></p>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No
2. Article Number (Transfer from service label)	3. Service Type <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
PS Form 3811, July 2013	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes Domestic Return Receipt <u>KY 0800 273</u>



## ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

July 30, 2015

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951167  
**Determination Date:** 05/11/2015  
**Compliance Period:** 01/01/2015 - 03/31/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 01/01/2015 - 03/31/2015. The reported result of .104 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**  
Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water  
Date: July 30, 2015

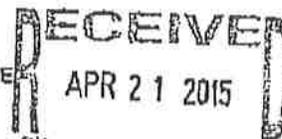
502-564-2741

01:31:30 p.m. 07-14-2015

2 / 2

### PUBLIC NOTIFICATION (PN) CERTIFICATION

SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE



PWS: Martin County Water District

PWSID: KY0800273

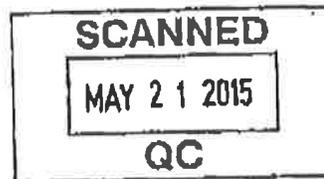
Population: 10843

For Violations(s):

THM 2015-9951162  
HAA 2015-9951161

That occurred on date(s):

10/1/2014 through 12/31/2014



I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)
  - Primary Date: 4-6-15 Method: Mailed to customers with water bill
  - Secondary Date: 4-6-15 Method: Posted throughout community
- 3. Copy sent to Consecutive Systems (Include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: [Handwritten Signature]

Date: 4/14/15

Address: 387 E Main St Suite 140 Inez, KY 41224

Phone: 606-298-3885

5



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

July 30, 2015

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **REVISED NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued this revised Notice of Violation for violations discovered at your facility. This notice replaces the notice dated May 29, 2015. Please review this revised Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**

MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273

**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987

**County:** MARTIN

**Violation Number:** 2015 - 9951164

**Determination Date:** 05/11/2015

**Compliance Period:** 01/01/2015 - 03/31/2015

**Violation Type:** 02 MCL, LRAA **Tier Level:** 2

**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST

**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 01/01/2015 - 03/31/2015. The reported result of .094 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: July 30, 2015



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

March 1, 2015

CERTIFIED MAIL: 7014 2120 0000 7298 1015  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at kelleem.husband@ky.gov.

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951161  
**Determination Date:** 02/05/2015  
**Compliance Period:** 10/01/2014 - 12/31/2014  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTIN CO WATER DIST  
**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 10/01/2014 - 12/31/2014. The reported result of .105 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

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Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: March 1, 2015

How Delivered: Certified/Registered #7014 2120 0000 7298 1015



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

March 1, 2015

CERTIFIED MAIL: 7014 2120 0000 7298.1015  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: NOTICE OF VIOLATION  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at kelleem.husband@ky.gov.

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY**  
**ENERGY & ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**  
**Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951162  
**Determination Date:** 02/05/2015  
**Compliance Period:** 10/01/2014 - 12/31/2014  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTIN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 10/01/2014 - 12/31/2014. The reported result of .096 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**  
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Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: March 1, 2015

How Delivered: Certified/Registered #7014 2120 0000 7298 1015



## Notice by Martin County Water District – System ID#: KY0800273

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 10/1/2014 through 12/31/2014 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 10/1/2014 to 12/31/2014 was 0.096 mg/L and HAA was 0.105 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
04/06/15	Martin County Court House
04/06/15	Martin Co. Public Libraries
04/06/15	Quail Hollow Apartments
04/06/15	Dempsey Housing
04/06/15	Martin County Health Dept.
04/06/15	Inez Post Office
04/06/15	Warfield Post Office
04/06/15	Blakemoore Estates

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

4/14/15

Martin County Water District  
387 East Main St., Suite 140  
Inez, KY 41224 (606) 298-3885

**BILL DATE** 4/20/2015  
**ACCOUNT** [REDACTED]  
Bring Entire Card When Paying  
In Person

PRESORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

Return Service Requested  
**LOCATION** 10297 Yellow Crk

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
---------	---------	------------	------------	-----------	-----------	-------	--------

Previous Due \$30.03 **NET DUE NOW** \$30.03

After Hours Emergency Number: (606) 298-7439

Pay your bill @ [www.mcub.org](http://www.mcub.org)



**Notice by Martin County Water District – System ID#: KY0800273**  
Your water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 10/1/2014 through 12/31/2014 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 10/1/2014 to 12/31/2014 was 0.096 mg/L and HAA was 0.105 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St, Suite 140, Inez, KY 41224.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

**MARTIN CO. WATER DISTRICT**

Martin County Utility Board  
387 E Main St Suite 140  
Ives, KY 41324  
(606)298-3885



7010 07A0 0002 1941 3825



1000

49501

Attn: PN  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4th Floor  
Frankfort, KY 40601

*CTAD*



RECEIVED  
 MAR 13 2013  
 BY: \_\_\_\_\_

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee <i>X H. Proctor</i>	C. Date of Delivery <i>3-9</i>
1. Article Addressed to:  <p>JOHN MILLS            MARTIN CO WATER DISTRICT #1            287 E MAIN ST SUITE 140            INEZ, KY 41224</p>	B. Received by (Printed Name)  D. Is delivery address different from Item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No  3. Service Type <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery  4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	

2. Article Number (Transfer from service label) **7014 2120 0000 7298 1015**

PS Form 3811, July 2013 Domestic Return Receipt **KY0800273**



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov  
April 29, 2015

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

CERTIFIED MAIL: 7014 2120 0000 7298 2210  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Linda Metts at (502)564-3410 ext. 4984 or email at linda.metts@ky.gov.

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water

NOTICE OF VIOLATION

To:  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

PWSID: KY0800273  
PWS Name: MARTIN CO WATER DISTRICT #1 AI ID: 2987  
County: MARTIN  
Violation Number: 2015 - 9951163  
Determination Date: 03/31/2015  
Compliance Period: 02/01/2015 - 02/28/2015  
Violation Type: 43 SINGLE COMB FLTR EFFLUENT (IESWTR/LT1) Tier Level: 2  
Contaminant: 0300 IESWTR

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:150, Section 3 IESWTR The public water system exceeded the MCL for turbidity by exceeding 1.0 NTU in a combined filter effluent sample collected in the compliance period 02/01/2015 - 02/28/2015.

**Comments:** Failed to maintain CFE turbidity level below 1 NTU on 23rd for February 2015, single highest turbidity reported as 1.195 NTU; also failed to maintain CFE turbidity level below 0.3 NTU in 95% of monthly measurements with 11 of 167 samples exceeding 0.3 NTU.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Linda Metts at (502)564-3410 ext 4984 or email at [linda.metts@ky.gov](mailto:linda.metts@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: April 29, 2015

How Delivered: Certified/Registered #7014 2120 0000 7298 2210

PUBLIC NOTIFICATION (PN) CERTIFICATION

RECEIVED  
JUN 22 2015  
BY: \_\_\_\_\_

PWS: Martin County Water District

PWSID: KY0800273

Population: 10843

For Violations(s):

2015-9951163

That occurred on date(s):

2/1/2015 - 2/28/2015

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)

Primary Date: 6-3-15 Method: Printed on water bills

Secondary Date: 6-4-15 Method: Posted in community

- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)  
N/A

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: \_\_\_\_\_

Date: 6-16-15

Address: 387 E Main St Suite 140 Inez, KY 41224

Phone: 606-298-3885

6

## Notice by Martin County Water District – System ID#: KY0800273

Our water system recently violated a drinking water requirement. Although this was not an emergency you have a right to know what happened.

We routinely monitor your water for turbidity (cloudiness). This tells us whether we are effectively filtering the water supply. On 2/23/2015 we had a turbidity result of 1.195 NTU. This was above the standard of 1.0 NTU. Water samples for February 2015 showed that 6.58 percent of turbidity measurements were over 0.3 turbidity units – the standard is that no more than 5 percent of samples may exceed 0.3 turbidity units per month. The turbidity levels are relatively low. However, their persistence is a concern. Normal turbidity levels at our plant are 0.12 units. This is not an emergency. If it had been, you would have been notified within 24 hours.

- There is nothing you need to do. You do not need to boil your water or take other actions. We do not know of any contamination, and none of our testing has shown disease-causing organisms in the drinking water.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

*\*Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.\** These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

High turbidity on top of the filters occurred when a rake motor failed and due to high demand we had to continue operations. The problem was resolved within three days. For more information, please contact John Mills at (606) 298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*\*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.\**

## Public Notification "Posting Sites"

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
6/4/15	Martin County Court House
6/4/15	Martin Co. Public Libraries
6/4/15	Quail Hollow Apartments
6/4/15	Dempsey Housing
6/4/15	Martin County Health Department
6/4/15	Inez Post Office
6/4/15	Warfield Post Office
6/4/15	Blakemoore Estates

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature:  Date: 6-16-15

Martin County Water District  
 387 East Main St., Suite 140  
 Inez, KY 41224 (606) 298-3885

**BILL DATE** 6/20/2015  
**ACCOUNT** ██████████  
 Bring Entire Card When Paying  
 In Person

PRESORTED  
 FIRST-CLASS MAIL  
 U.S. POSTAGE PAID  
 PERMIT #2 INEZ, KY 41224

Return Service Requested  
**LOCATION** 116 Sansom Dr

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
R1 Res. N/Tax Water	19829201	4/20/2015	351	5/20/2015	358	7000	\$60.00
SC School Tax							\$1.80

Previous Due \$0.00 **NET DUE NOW** \$61.80 If Paid After 6/20/2015 Pay \$67.98

After Hours Emergency Number: (606) 298-7439

Pay your bill @ [www.mcub.org](http://www.mcub.org)



████████████████████  
 116 Sansom Dr  
 INEZ KY 41224

**Notice by Martin County Water District - System ID# KY0800273**

Our water system recently violated a drinking water requirement. Although this was not an emergency you have a right to know what happened. We routinely monitor your water for turbidity (cloudiness). This tells us whether we are effectively filtering the water supply. On 2/23/2015 we had a turbidity result of 1.195 NTU. This was above the standard of 1.0 NTU. Water samples for February 2015 showed that 6.56 percent of turbidity measurements were over 0.3 turbidity units - the standard is that no more than 5 percent of samples may exceed 0.3 turbidity units per month. Turbidity levels are relatively low. However, their persistence is a concern. Normal turbidity levels at our plant are 0.12 units. This is not an emergency. If it had been, you would have been notified within 24 hours.

- There is nothing you need to do. You do not need to boil your water or take other actions. We do not know of any contamination, and none of our testing has shown disease-causing organisms in the drinking water.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

*"Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches." These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.*

High turbidity on top of the filters occurred when a rake motor failed and due to high demand we had to continue operations. The problem was solved within three days. For more information, please contact John Mills at (606) 298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*"Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail."*

2014 Martin County Water District annual water quality report is available. This report contains important information about your drinking water. Please go to <http://www.krwa.org/2014ccr/martincounty.pdf> to view your 2014 annual water quality report or to request a paper copy call (606) 298-3885.

**MARTIN CO. WATER DISTRICT**

Martin County Utility Board  
387 E Main St Suite 140  
Ipswich, KY 41224  
(606)298-3885



ATTN: PN  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4th Floor  
Frankfort, KY 40601







**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

May 29, 2015

CERTIFIED MAIL: 7012 3460 0002 3648 1553  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee' Husband at 502-564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT for ENVIRONMENTAL PROTECTION  
DIVISION of WATER

NOTICE OF VIOLATION

To:  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

PWSID: KY0800273  
PWS Name: MARTIN CO WATER DISTRICT #1 AI ID: 2987  
County: MARTIN  
Violation Number: 2015 - 9951168  
Determination Date: 05/11/2015  
Compliance Period: 01/01/2015 - 03/31/2015  
Violation Type: 35 FAILURE SUBMIT OEL REPORT FOR HAA5 Tier Level: 3  
PWS Facility: IDSE9999 IDSE - MARTN CO WATER DIST  
Contaminant: 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 Section 1(1) TOTAL HALOACETIC ACIDS (HAA5) The public water system failed to submit Operational Evaluation Levels (OEL's) report for compliance period 01/01/2015 - 03/31/2015.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee' Husband at (502) 564-3410 ext. 4986.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601  
(502) 564-3410 x 4959

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 29, 2015

How Delivered: Certified/Registered #7012 3460 0002 3648 1553



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

May 29, 2015

CERTIFIED MAIL: 7012 3460 0002 3648 1553  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: NOTICE OF VIOLATION  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

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Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT for ENVIRONMENTAL PROTECTION  
DIVISION of WATER

NOTICE OF VIOLATION

To:  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

PWSID: KY0800273  
PWS Name: MARTIN CO WATER DISTRICT #1 AI ID: 2987  
County: MARTIN  
Violation Number: 2015 - 9951169  
Determination Date: 05/11/2015  
Compliance Period: 01/01/2015 - 03/31/2015  
Violation Type: 35 FAILURE SUBMIT OEL REPORT FOR TTHM Tier Level: 3  
PWS Facility: IDSE9999 IDSE - MARTN CO WATER DIST  
Contaminant: 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 Section 1 (1) TTHM The public water system failed to submit Operational Evaluation Levels (OEL's) report for compliance period 01/01/2015 - 03/31/2015.

**The remedial measure(s) and date(s) to be completed by are as follows:**

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ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601  
(502) 564-3410 x 4959

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 29, 2015

How Delivered: Certified/Registered #7012 3460 0002 3648 1553



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

May 29, 2015

CERTIFIED MAIL: 7012 3460 0002 3648 1553  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: NOTICE OF VIOLATION  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

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Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT for ENVIRONMENTAL PROTECTION  
DIVISION of WATER

NOTICE OF VIOLATION

To:  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

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County: MARTIN  
Violation Number: 2015 - 9951169  
Determination Date: 05/11/2015  
Compliance Period: 01/01/2015 - 03/31/2015  
Violation Type: 35 FAILURE SUBMIT OEL REPORT FOR TTHM Tier Level: 3  
PWS Facility: IDSE9999 IDSE - MARTN CO WATER DIST  
Contaminant: 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non-Compliance:**

401 KAR 8:510 Section 1 (1) TTHM The public water system failed to submit Operational Evaluation Levels (OEL's) report for compliance period 01/01/2015 - 03/31/2015.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

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Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee' Husband at (502) 564-3410 ext. 4986.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601  
(502) 564-3410 x 4959

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 29, 2015

How Delivered: Certified/Registered #7012 3460 0002 3648 1553

RECEIVED  
 JUN 09 2015  
 BY: \_\_\_\_\_

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> Agent  <input type="checkbox"/> Addressee  <b>X H. Proctor</b></p> <p>B. Received by (Printed Name) _____ C. Date of Delivery <b>6-9</b></p>
<p>1. Article Addressed to:</p> <p><b>JOHN MILLS          MARTIN CO WATER DISTRICT #1          287 E MAIN ST SUITE 140          INEZ, KY 41224</b></p>	<p>D. Is delivery address different from Item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No          If YES, enter delivery address below:</p> <p>3. Service Type  <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>
<p>2. Article Number          (Transfer from service label)</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>7012 3460 0002 3648 1553</p> <p>PS Form 3811, July 2013 Domestic Return Receipt <b>KY0800273</b></p>	

SCANNED  
 JUN 09 2015  
 00



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

May 29, 2015

CERTIFIED MAIL: 7012 3460 0002 3647 7181  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB, Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951167  
**Determination Date:** 05/11/2015  
**Compliance Period:** 01/01/2015 - 03/31/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 01/01/2015 - 03/31/2015. The reported result of .118 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

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Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

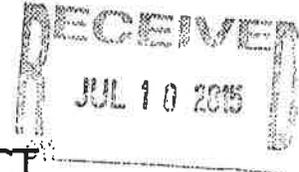
ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 29, 2015

How Delivered: Certified/Registered #7012 3460 0002 3647 7181



**MARTIN COUNTY WATER DISTRICT**

387 East Main Street Suite 140  
INEZ, KY 41224

606-298-3885 OFFICE

606-298-4913 Fax

July 6, 2015

Kentucky Division of Water  
ATTN: Brian Chitti, Supervisor  
Compliance & Technical Assistance Section  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

RE: Repeat PN Extension Request  
PWSID: KY0800273

Dear Mr. Chitti,

Martin County Water District received two repeat violations (2015-9951164 and 2015-9951167) for exceeding the MCL for trihalomethanes and haloacetic acids locational running annual average during the compliance period 01/01/2015 to 03/31/2015. In accordance with 401 KAR 8:070, Martin County Water District respectfully requests a different repeat notice frequency of six months because we are trying hard to return to compliance and are working with various technical assistance providers. Additionally, we are trying to verify the actual compliance MCL exceedance numbers prior to proceeding with the public notification process.

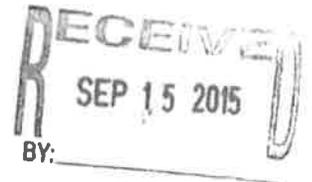
If you have any questions, please contact me at (606) 298-3885.

Sincerely,

John Mills  
General Manager



**PUBLIC NOTIFICATION (PN) CERTIFICATION**  
**SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE**



PWS: Martin County Water District #1

PWSID: KY0800273

Population: 10395

For Violations(s):

TTHM 2015-9951164 - 1<sup>st</sup> quarter 2015 repeat notice  
HAA5 2015-9951167 - 1<sup>st</sup> quarter 2015 repeat notice  
TTHM 2015-9951172 - 2<sup>nd</sup> quarter 2015 repeat notice  
HAA5 2015-9951171 - 2<sup>nd</sup> quarter 2015 repeat notice

That occurred on date(s):

01/01/2015 to 03/31/2015  
01/01/2015 to 03/31/2015  
04/01/2015 to 06/30/2015  
04/01/2015 to 06/30/2015

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)  
Primary      Date: 9-1-15      Method: water bills  
Secondary    Date: 9-2-15      Method: postings
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature:

Date: 9/8/15

Address: 287 E Main St, Suite 140 Inez KY 411224

Phone: 606-298-3885

5

## Notice by Martin County Water District – System ID#: KY0800273

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 6/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 4/1/2015 to 6/30/2015 was 0.088 mg/L and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

Marlin County Water District  
387 East Main St., Suite 140  
Inez, KY 41224 (606) 298-3885

**BILL DATE** 9/20/2015  
**ACCOUNT** 7-00751

PRESORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

Return Service Requested

Bring Entire Card When Paying  
In Person

**LOCATION** 4501 Buffalo Horn

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
R1 Res. N/Tax Water	28934581	7/20/2015	750	8/20/2015	751	1000	\$26.50
SC School Tax							\$0.80

Previous Due \$38.71 **NET DUE NOW** \$66.01 **Pay After 9/20/2015** \$68.74

After Hours Emergency Number: (606) 298-7439

Pay your bill @ [www.mcub.org](http://www.mcub.org)



U T F

P.O. Box 1515  
Inez Ky 41224

**Notice by Marlin County Water District - System No. 01000213**

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 6/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM ranged at one of our system's locations for 4/1/2015 to 6/30/2015 was 0.088 mg/L and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours. We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within a next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
9/2/15	Blakemoore Estates
9/2/15	Warfield Post Office
9/2/15	Inez Post Office
9/2/15	Martin Co. Health Dept.
9/2/15	Dempsey Housing
9/2/15	Quail Hollow Apartments
9/2/15	Martin Co. Public Libraries
9/2/15	Martin County Court House

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature:  Date: 9/8/15

**WIN CO. WATER DISTRICT**

artin County Utility Board  
307 E Main St Suite 140  
Inez, KY 41224  
(606)298-3885



REGISTERED MAIL



7015 0640 0006 7953 4076



U.S. POSTAGE  
PAID  
INZ KY  
SEP 09, 15  
#903011

**\$7.45**

1000

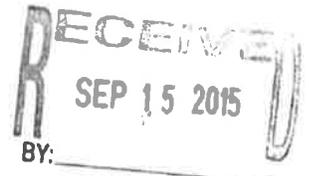
4001

00052014-02

Attn: PN  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

**PUBLIC NOTIFICATION (PN) CERTIFICATION**

**SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE**



PWS: Martin County Water District #1

PWSID: KY0800273

Population: 10395

For Violations(s):

TTHM 2015-9951164 - 1<sup>st</sup> quarter 2015 repeat notice  
HAA5 2015-9951167 - 1<sup>st</sup> quarter 2015 repeat notice  
TTHM 2015-9951172 - 2<sup>nd</sup> quarter 2015 repeat notice  
HAA5 2015-9951171 - 2<sup>nd</sup> quarter 2015 repeat notice

That occurred on date(s):

01/01/2015 to 03/31/2015  
01/01/2015 to 03/31/2015  
04/01/2015 to 06/30/2015  
04/01/2015 to 06/30/2015

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)  
Primary      Date: 9-1-15      Method: water bills  
Secondary    Date: 9-2-15      Method: postings
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: *John Mills*

Date: 9/8/15

Address: 287 E Main St, Suite 140 Inez KY 41124

Phone: 606-298-3885

5

**Notice by Martin County Water District – System ID#: KY0800273**

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 6/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 4/1/2015 to 6/30/2015 was 0.088 mg/L and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

Marlin County Water District  
 387 East Main St., Suite 140  
 Inez, KY 41224 (606) 298-3885

**BILL DATE** 9/20/2015  
**ACCOUNT** 7-00751

PRESORTED  
 FIRST-CLASS MAIL  
 U.S. POSTAGE PAID  
 PERMIT #2 INEZ, KY 41224

Return Service Requested

Bring Entire Card When Paying  
 In Person

**LOCATION** 4501 Buffalo Horn

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
R1 Res. N/Tax Water	29934591	7/20/2015	750	8/20/2015	751	1000	\$26.50
SC School Tax							\$0.00

Previous Due \$38.71 **NET DUE NOW** \$66.01 **Pay After 9/20/2015 Pay** \$68.74

After Hours Emergency Number: (606) 298-7439

Pay your bill @ [www.mcub.org](http://www.mcub.org)



P.O. Box 1515  
 Inez Ky 41224

U T F

Notice by Marlin County Water District - System ID: 01000001

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 8/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L, and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 4/1/2015 to 8/30/2015 was 0.088 mg/L, and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours. We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within a next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E. Main St. Suite 140, Inez, KY 41224.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

**Public Notification  
"Posting Sites"**

System: Martin County Water District    PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

<b>Date</b>	<b>Name of Facility</b>
9/2/15	Blakemoore Estates
9/2/15	Warfield Post Office
9/2/15	Inez Post Office
9/2/15	Martin Co. Health Dept.
9/2/15	Dempsey Housing
9/2/15	Quail Hollow Apartments
9/2/15	Martin Co. Public Libraries
9/2/15	Martin County Court House

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

9/8/15

**FIN CO. WATER DISTRICT**

artin County Utility Board  
307 E Main St Suite 140  
Iona, KY 41224  
(606)298-3885



7035 0640 0006 7953 4076



U.S. POSTAGE  
PAID  
BY  
41224  
SEP 05 15  
PREMIUM

**\$7.45**

1800

4061

00062814-02

Attn: PN  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601



## ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

July 30, 2015

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **REVISED NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued this revised Notice of Violation for violations discovered at your facility. This notice replaces the notice dated May 29, 2015. Please review this revised Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951164  
**Determination Date:** 05/11/2015  
**Compliance Period:** 01/01/2015 - 03/31/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 01/01/2015 - 03/31/2015. The reported result of .094 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**  
Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: July 30, 2015



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

May 29, 2015

CERTIFIED MAIL: 7012 3460 0002 3647 7181  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: NOTICE OF VIOLATION  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951164  
**Determination Date:** 05/11/2015  
**Compliance Period:** 01/01/2015 - 03/31/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1].  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 01/01/2015 - 03/31/2015. The reported result of .113 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**  
Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

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---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 29, 2015

How Delivered: Certified/Registered #7012 3460 0002 3647 7181

RECEIVED  
JUL 10 2015

## MARTIN COUNTY WATER DISTRICT

387 East Main Street Suite 140  
INEZ, KY 41224

606-298-3885 OFFICE

606-298-4913 Fax

July 6, 2015

Kentucky Division of Water  
ATTN: Brian Chitti, Supervisor  
Compliance & Technical Assistance Section  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

RE: Repeat PN Extension Request  
PWSID: KY0800273

Dear Mr. Chitti,

Martin County Water District received two repeat violations (2015-9951164 and 2015-9951167) for exceeding the MCL for trihalomethanes and haloacetic acids locational running annual average during the compliance period 01/01/2015 to 03/31/2015. In accordance with 401 KAR 8:070, Martin County Water District respectfully requests a different repeat notice frequency of six months because we are trying hard to return to compliance and are working with various technical assistance providers. Additionally, we are trying to verify the actual compliance MCL exceedance numbers prior to proceeding with the public notification process.

If you have any questions, please contact me at (606) 298-3885.

Sincerely,

John Mills  
General Manager



**MARTIN COUNTY UTILITY BOARD**

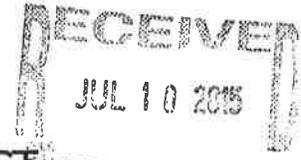
387 East Main Street, Suite 140  
Inez, Kentucky 41224



CHARLESTON WV 25301  
DEC 21 2015 PM 3:12

Kentucky Division of Water  
Attn: Brian Chitti, Supervisor  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4th Floor

40501 FFA005fort, KY, 40301



**MARTIN COUNTY WATER DISTRICT**

387 East Main Street Suite 140  
INEZ, KY 41224

606-298-3885 OFFICE

606-298-4913 Fax

July 6, 2015

Kentucky Division of Water  
ATTN: Brian Chitti, Supervisor  
Compliance & Technical Assistance Section  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

RE: Repeat PN Extension Request  
PWSID: KY0800273

Dear Mr. Chitti,

Martin County Water District received two repeat violations (2015-9951164 and 2015-9951167) for exceeding the MCL for trihalomethanes and haloacetic acids locational running annual average during the compliance period 01/01/2015 to 03/31/2015. In accordance with 401 KAR 8:070, Martin County Water District respectfully requests a different repeat notice frequency of six months because we are trying hard to return to compliance and are working with various technical assistance providers. Additionally, we are trying to verify the actual compliance MCL exceedance numbers prior to proceeding with the public notification process.

If you have any questions, please contact me at (606) 298-3885.

Sincerely,

John Mills  
General Manager



**MARTIN COUNTY UTILITY BOARD**

387 East Main Street, Suite 140  
Inez, Kentucky 41224

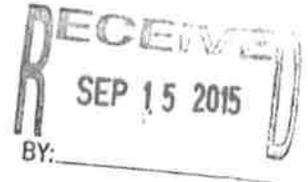


CHARLESTON WV 25303  
US MAIL PERMIT

Kentucky Division of Water  
Attn: Brian Chitti, Supervisor  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4th Floor

40601 Frankfort, KY 40601

**PUBLIC NOTIFICATION (PN) CERTIFICATION**  
**SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE**



PWS: Martin County Water District #1

PWSID: KY0800273

Population: 10395

For Violations(s):

TTHM 2015-9951164 - 1<sup>st</sup> quarter 2015 repeat notice  
HAA5 2015-9951167 - 1<sup>st</sup> quarter 2015 repeat notice  
TTHM 2015-9951172 - 2<sup>nd</sup> quarter 2015 repeat notice  
HAA5 2015-9951171 - 2<sup>nd</sup> quarter 2015 repeat notice

That occurred on date(s):

01/01/2015 to 03/31/2015  
01/01/2015 to 03/31/2015  
04/01/2015 to 06/30/2015  
04/01/2015 to 06/30/2015

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)  
Primary      Date: 9-1-15      Method: water bills  
Secondary    Date: 9-2-15      Method: postings
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: *John Mills*

Date: 9/8/15

Address: 287 E Main St, Suite 140 Inez KY 411224

Phone: 606-298-3885

**Notice by Martin County Water District – System ID#: KY0800273**

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 6/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 4/1/2015 to 6/30/2015 was 0.088 mg/L and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

Marlin County Water District  
387 East Main St., Suite 140  
Inez, KY 41224 (606) 298-3885

**BILL DATE** 9/20/2015  
**ACCOUNT** 7-00751

PRESORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

Return Service Requested

Bring Entire Card When Paying  
In Person

**LOCATION** 4501 Buffalo Horn

Service	Meter #	Prior Date	Prior Read	Read Date	Our Read	Usage	Amount
R1 Res N/Tax Water	29934591	7/20/2015	750	8/20/2015	751	1000	\$26.50
SC School Tax							\$0.00

Previous Due \$38.71 **NET DUE NOW** \$66.01 If Paid After 9/20/2015 Pay \$68.74

After Hours Emergency Number: (606) 298-7439

Pay your bill @ [www.mcub.org](http://www.mcub.org)



UTF

P.O. Box 1515

Inez Ky 41224

Notice by Marlin County Water District - System Use: 811000213  
Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 6/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.060 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM ranged at one of our system's locations for 4/1/2015 to 6/30/2015 was 0.088 mg/L and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours. We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within a next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
9/2/15	Blakemoore Estates
9/2/15	Warfield Post Office
9/2/15	Inez Post Office
9/2/15	Martin Co. Health Dept.
9/2/15	Dempsey Housing
9/2/15	Quail Hollow Apartments
9/2/15	Martin Co. Public Libraries
9/2/15	Martin County Court House

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

9/8/15

**FIN CO. WATER DISTRICT**

artin County Utility Board  
387 E Main St Suite 140  
Inez, KY 41224  
(606)298-3885



REGISTERED MAIL



7025 0640 0006 7953 4076



1800

48801

U.S. POSTAGE  
2011  
INDELL  
41224  
SEP 06, 15  
FRANKF

\$7.45

00002814-02

Attn: PN  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

RECEIVED  
JUN 09 2015

BY: \_\_\_\_\_

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 Agent  
 Addressee  
X A. Proctor

B. Received by (Printed Name) \_\_\_\_\_

C. Date of Delivery  
6-4

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number : 7012 3460 0002 3647 7181  
(Transfer from service label)

PS Form 3811, July 2013 Domestic Return Receipt KY0800273

SCANNED  
JUN 09 2015  
00



Steven L. Beshear  
Governor

**ENERGY AND ENVIRONMENT CABINET**

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

August 28, 2015

CERTIFIED MAIL: 7014 1820 0000 5796 8464  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

BAK

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951171  
**Determination Date:** 08/06/2015  
**Compliance Period:** 04/01/2015 - 06/30/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTIN CO WATER DIST  
**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 04/01/2015 - 06/30/2015. The reported result of .083 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

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If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: August 28, 2015

How Delivered: Certified/Registered #7014 1820 0000 5796 8464



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

August 28, 2015

CERTIFIED MAIL: 7014 1820 0000 5796 8464  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: NOTICE OF VIOLATION  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951172  
**Determination Date:** 08/06/2015  
**Compliance Period:** 04/01/2015 - 06/30/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 04/01/2015 - 06/30/2015. The reported result of .088 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**  
Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: August 28, 2015

How Delivered: Certified/Registered #7014 1820 0000 5796 8464

**PUBLIC NOTIFICATION (PN) CERTIFICATION**  
**SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE**

**RECEIVED**  
**SEP 15 2015**  
BY: \_\_\_\_\_

PWS: Martin County Water District #1

PWSID: KY0800273

Population: 10395

For Violations(s):

TTHM 2015-9951164 - 1<sup>st</sup> quarter 2015 repeat notice  
HAA5 2015-9951167 - 1<sup>st</sup> quarter 2015 repeat notice  
TTHM 2015-9951172 - 2<sup>nd</sup> quarter 2015 repeat notice  
HAA5 2015-9951171 - 2<sup>nd</sup> quarter 2015 repeat notice

That occurred on date(s):

01/01/2015 to 03/31/2015  
01/01/2015 to 03/31/2015  
04/01/2015 to 06/30/2015  
04/01/2015 to 06/30/2015

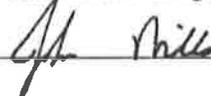
I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)  
Primary      Date: 9-1-15      Method: water bills  
Secondary    Date: 9-2-15      Method: postings
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: 

Date: 9/8/15

Address: 287 E Main St, Suite 140 Inez KY 411224

Phone: 606-298-3885

5

**Notice by Martin County Water District – System ID#: KY0800273**

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 6/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 4/1/2015 to 6/30/2015 was 0.088 mg/L and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

Martin County Water District  
 387 East Main St., Suite 140  
 Inez, KY 41224 (606) 298-3885

**BILL DATE** 9/20/2015  
**ACCOUNT** 7-00751

PRESORTED  
 FIRST-CLASS MAIL  
 U.S. POSTAGE PAID  
 PERMIT #2 INEZ, KY 41224

Return Service Requested

Bring Entire Card When Paying  
 In Person

**LOCATION** 4501 Buffalo Horn

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
R1 Res. N/Tax Water	29934591	7/20/2015	750	8/20/2015	751	1000	\$26.50
SC School Tax							\$0.00

Previous Due \$38.71 **NET DUE NOW** \$66.01 **Bill Paid After 9/20/2015 Pay** \$68.74

After Hours Emergency Number: (606) 298-7439

Pay your bill @ [www.mclub.org](http://www.mclub.org)



UTF

P.O. Box 1515  
 Inez Ky 41224

our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 6/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 4/1/2015 to 6/30/2015 was 0.088 mg/L and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over any years may have an increased risk of getting cancer.

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours. We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within a next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E. Main St. Suite 140, Inez, KY 41224

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
9/2/15	Blakemoore Estates
9/2/15	Warfield Post Office
9/2/15	Inez Post Office
9/2/15	Martin Co. Health Dept.
9/2/15	Dempsey Housing
9/2/15	Quail Hollow Apartments
9/2/15	Martin Co. Public Libraries
9/2/15	Martin County Court House

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature:  Date: 9/8/15

**FIN CO. WATER DISTRICT**

artin County Utility Board  
387 E Main St Suite 140  
Inez, KY 41224  
(606)298-3885



7025 0640 0006 7953 4076

REGISTERED MAIL



1000

40801

U.S. POSTAGE  
PAID  
INEZ, KY  
41224  
SEP 07, 15  
PM0001

**\$7.45**

00052814-02

Attn: PN  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

**RECEIVED**  
 SEP 08 2015  
 BY: \_\_\_\_\_

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature            X <i>Helen Procter</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (<i>Printed Name</i>)</p> <p>C. Date of Delivery            9-3</p>
<p>1. Article Addressed to:</p> <p>JOHN MILLS            MARTIN CO WATER DISTRICT #1            287 E MAIN ST SUITE 140            INEZ, KY 41224</p>	<p>D. Is delivery address different from Item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p> <p>3. Service Type  <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (<i>Extra Fee</i>) <input type="checkbox"/> Yes</p>

2. Article Number (Transfer from service label) **7014 1820 0000 5796 8464**

PS Form 3811, July 2013 Domestic Return Receipt **KY 0800273**



**ENERGY AND ENVIRONMENT CABINET**

**Matthew G. Bevin**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Charles G. Snively**  
Secretary

**R. Bruce Scott**  
Commissioner

December 11, 2015

CERTIFIED MAIL: 7015 0640 0005 6317 6221  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**

MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273

**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987

**County:** MARTIN

**Violation Number:** 2016 - 9951174

**Determination Date:** 11/09/2015

**Compliance Period:** 07/01/2015 - 09/30/2015

**Violation Type:** 02 MCL, LRAA **Tier Level:** 2

**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST

**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 07/01/2015 - 09/30/2015. The reported result of .081 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

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Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: December 11, 2015

How Delivered: Certified/Registered #7015 0640 0005 6317 6221

RECEIVED  
FEB 01 2016  
BY: \_\_\_\_\_

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li>■ Print your name and address on the reverse so that we can return the card to you.</li><li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>	<p>A. Signature X <i>C. Sanson</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____</p> <p>C. Date of Delivery <i>2-2-16</i></p>
1. Article Addressed to:  JOHN MILLS MARTIN CO WATER DISTRICT #1 287 E MAIN ST SUITE 140 INEZ, KY 41224	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
2. Article Number (Transfer from service label)	7015 0640 0005 6317 6221
PS Form 3811, July 2013	Domestic Return Receipt <i>KY0800273</i>



**ENERGY AND ENVIRONMENT CABINET**

**Matthew G Bevin**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Charles G Snavely**  
Secretary

**R. Bruce Scott**  
Commissioner

March 9, 2016

CERTIFIED MAIL: 7015 3430 0000 4915 0321  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

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Sincerely,

A handwritten signature in cursive script that reads "Brian M. Chitti".

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2016 - 9951175  
**Determination Date:** 02/10/2016  
**Compliance Period:** 10/01/2015 - 12/31/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 10/01/2015 - 12/31/2015. The reported result of .123 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: March 9, 2016

How Delivered: Certified/Registered #7015 3430 0000 4915 0321

**RECEIVED**  
 APR 27 2016  
 BY: \_\_\_\_\_

**SENDER: COMPLETE THIS SECTION**

- Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

JOHN MILLS  
 MARTIN CO WATER DISTRICT #1  
 9287 E MAIN ST SUITE 140  
 INEZ, KY 41224

2. Article Number  
 (Transfer from service label)

7015 3430 0000 4915 0321

PS Form 3811, July 2013

Domestic Return Receipt

KY 0800273

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Helen Proctor*  Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery  
 \_\_\_\_\_ 3-21

D. Is delivery address different from Item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes



Matthew G Bevin  
Governor

**ENERGY AND ENVIRONMENT CABINET**

Department for Environmental Protection  
300 Sower Boulevard  
Frankfort, Kentucky 40601  
www.water.ky.gov

Charles G Snively  
Secretary

R. Bruce Scott  
Commissioner

June 27, 2016

CERTIFIED MAIL: 7015 3430 0000 4915 3001  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

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Sincerely,

A handwritten signature in cursive script that reads "Sarah Gaddis".

Sarah Gaddis  
Drinking Water CTAB Acting Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**

MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273

**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987

**County:** MARTIN

**Violation Number:** 2016 - 9951176

**Determination Date:** 05/05/2016

**Compliance Period:** 01/01/2016 - 03/31/2016

**Violation Type:** 02 MCL, LRAA **Tier Level:** 2

**PWS Facility:** IDSE9999 IDSE - MARTIN CO WATER DIST

**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 01/01/2016 - 03/31/2016. The reported result of .062 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5).

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>.

If you have questions or need further information, write or call Kellee Husband at (502)782-6984 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
300 Sower Boulevard  
Frankfort, KY 40601



Issued By:

Sarah Gaddis  
Drinking Water CTAB Acting Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: June 27, 2016

How Delivered: Certified/Registered #7015 3430 0000 4915 3001



### Patch III – Next page starts new Batch

Agency Interest Number:	2987
Program Code:	03
Received Date:	01/27/10
Document Description	ICMRSE
Functional Area Code:	374

Batch Name: 68	Operator	
Prepared:	Operator	
Scanned:	Operator	Rescan Required:
Quality Check:	Operator	
Rescanned:	Operator	
Indexed:	Operator	
DePrep:	Operator	

- \_\_\_\_\_ Duplex (2-sided)
- \_\_\_\_\_ Color pages
- \_\_\_\_\_ 11 x 17 pages
- \_\_\_\_\_ 8 1/2 x 14 (legal)
- \_\_\_\_\_ Other \_\_\_\_\_

Received  
JUL 20 2016  
File Room



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

August 28, 2015

CERTIFIED MAIL: 7014 1820 0000 5796 8464  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at kelleem.husband@ky.gov.

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

BO AS

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951171  
**Determination Date:** 08/06/2015  
**Compliance Period:** 04/01/2015 - 06/30/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 04/01/2015 - 06/30/2015. The reported result of .083 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: August 28, 2015

How Delivered: Certified/Registered #7014 1820 0000 5796 8464



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

August 28, 2015

CERTIFIED MAIL: 7014 1820 0000 5796 8464  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at kelleem.husband@ky.gov.

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951172  
**Determination Date:** 08/06/2015  
**Compliance Period:** 04/01/2015 - 06/30/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 04/01/2015 - 06/30/2015. The reported result of .088 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

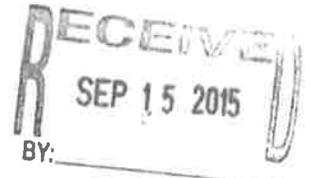
Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: August 28, 2015

How Delivered: Certified/Registered #7014 1820 0000 5796 8464

**PUBLIC NOTIFICATION (PN) CERTIFICATION**

SEE GENERAL INSTRUCTIONS AND MAILING ADDRESS ON NEXT PAGE



PWS: Martin County Water District #1

PWSID: KY0800273

Population: 10395

For Violations(s):

- TTHM 2015-9951164 - 1<sup>st</sup> quarter 2015 repeat notice
- HAA5 2015-9951167 - 1<sup>st</sup> quarter 2015 repeat notice
- TTHM 2015-9951172 - 2<sup>nd</sup> quarter 2015 repeat notice
- HAA5 2015-9951171 - 2<sup>nd</sup> quarter 2015 repeat notice

That occurred on date(s):

- 01/01/2015 to 03/31/2015
- 01/01/2015 to 03/31/2015
- 04/01/2015 to 06/30/2015
- 04/01/2015 to 06/30/2015

I, the undersigned, certify that public notice has been provided to our consumers in accordance with the delivery, content, and format requirements and deadlines of the Public Notification (PN) requirements in 40 CFR 141.201 to 141.210.

- 1. Consultation with DOW if required, on:
- 2. How notice was distributed (Include copy of each type of notice for each notification)
  - Primary Date: 9-1-15 Method: water bills
  - Secondary Date: 9-2-15 Method: postings
- 3. Copy sent to Consecutive Systems (include date, PWSID, and PWS name)

(Use additional sheets if necessary)

- 4. Content: All ten required elements are in the notice.
- 5. Other (attach description or explanation of additional methods used or use back of sheet).

Printed Name: John Mills Title: Manager

Signature: John Mills

Date: 9/8/15

Address: 287 E Main St, Suite 140 Inez KY 411224

Phone: 606-298-3885

5

**Notice by Martin County Water District – System ID#: KY0800273**

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 6/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 4/1/2015 to 6/30/2015 was 0.088 mg/L and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within the next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

Martin County Water District  
387 East Main St., Suite 140  
Inez, KY 41224 (606) 298-3885

**BILL DATE** 9/20/2015  
**ACCOUNT** 7-00751

PRESORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE PAID  
PERMIT #2 INEZ, KY 41224

Return Service Requested

Bring Entire Card When Paying  
In Person

**LOCATION** 4501 Buffalo Horn

Service	Meter #	Prior Date	Prior Read	Read Date	Cur. Read	Usage	Amount
R1 Res N/Tax Water	29934591	7/20/2015	750	8/20/2015	751	1000	\$26.50
SC School Tax							\$0.00

Previous Due \$38.71 **NET DUE NOW** \$66.01 **Pay After 9/20/2015 Pay** \$68.74

After Hours Emergency Number: (606) 298-7439

Pay your bill @ [www.mcub.org](http://www.mcub.org)



UTF  
P.O. Box 1515  
Inez Ky 41224

**NOTICE BY MARTIN COUNTY WATER DISTRICT - SYSTEM UNDER INVESTIGATION**

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results from 4/1/2015 through 6/30/2015 show that our system exceeds the standard, or maximum contaminant level (MCL), for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.050 mg/L. These are determined by averaging all samples collected at each sampling location for the last 12 months. The level of THM averaged at one of our system's locations for 4/1/2015 to 6/30/2015 was 0.058 mg/L and HAA was 0.077 mg/L.

- There is nothing you need to do. You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.
- If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours. We are working to minimize the formation of trihalomethanes and haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to change disinfectant levels, remove natural organic matter, and increased flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. We anticipate resolving the problem within a next quarter but the compliance calculation is based upon annual averages and it may be several quarters before compliance is achieved.

For more information, please contact John Mills at 606-298-3885 or 387 E Main St. Suite 140, Inez, KY 41224.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

**Public Notification  
"Posting Sites"**

System: Martin County Water District PWSID: KY0800273

State and Federal regulations require that a community water system provide a public notification when maximum contaminant levels (MCL) have been exceeded or when other monitoring and reporting violations have occurred. One of the requirements may be to post the notice throughout the community.

Date	Name of Facility
9/2/15	Blakemoore Estates
9/2/15	Warfield Post Office
9/2/15	Inez Post Office
9/2/15	Martin Co. Health Dept.
9/2/15	Dempsey Housing
9/2/15	Quail Hollow Apartments
9/2/15	Martin Co. Public Libraries
9/2/15	Martin County Court House

I, the undersigned, confirm that a copy of the Public Notification was prepared and distributed to the above listed facilities.

Printed Name: John Mills

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

9/8/15

**FIN CO. WATER DISTRICT**

artin County Utility Board  
387 E Main St Suite 140  
Inez, KY 41224  
(606)298-3885

**REGISTERED MAIL**



7015 0640 0006 7953 4076



U.S. POSTAGE  
PAID  
INEZ, KY  
41224  
SEP 05, 15  
PM00N1

**\$7.45**

1000 40001 00062014-02

Attn: PN  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
200 Fair Oaks Lane, 4th Floor  
Frankfort, KY 40601

**RECEIVED**  
 SEP 08 2015  
 BY: \_\_\_\_\_

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>■ Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature X <i>Helen Proctor</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to:  JOHN MILLS MARTIN CO WATER DISTRICT #1 287 E MAIN ST SUITE 140 INEZ, KY 41224	B. Received by (Printed Name)	C. Date of Delivery 9-3
2. Article Number (Transfer from service label)	D. Is delivery address different from Item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No	
PS Form 3811, July 2013	3. Service Type <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery	
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
	Domestic Return Receipt KY 0800273	

7014 1820 0000 5796 8464

Domestic Return Receipt KY 0800273



**ENERGY AND ENVIRONMENT CABINET**

**Matthew G. Bevin**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Charles G. Snively**  
Secretary

**R. Bruce Scott**  
Commissioner

December 11, 2015

CERTIFIED MAIL: 7015 0640 0005 6317 6221  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

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Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2016 - 9951174  
**Determination Date:** 11/09/2015  
**Compliance Period:** 07/01/2015 - 09/30/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 07/01/2015 - 09/30/2015. The reported result of .081 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: December 11, 2015

How Delivered: Certified/Registered #7015 0640 0005 6317 6221

RECEIVED  
FEB 01 2016  
BY: \_\_\_\_\_

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li>■ Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li>■ Print your name and address on the reverse so that we can return the card to you.</li><li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>	<p>A. Signature X <i>C. Sanson</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery <i>2-22</i></p>
<p>1. Article Addressed to:</p> <p><b>JOHN MILLS MARTIN CO WATER DISTRICT #1 287 E MAIN ST SUITE 140 INEZ, KY 41224</b></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p>7015 0640 0005 6317 6221</p>
<p>PS Form 3811, July 2013 Domestic Return Receipt <i>KY0800273</i></p>	



**ENERGY AND ENVIRONMENT CABINET**

**Matthew G Bevin**  
Governor

Department for Environmental Protection  
300 Sower Boulevard  
Frankfort, Kentucky 40601  
www.water.ky.gov

**Charles G Snively**  
Secretary

**R. Bruce Scott**  
Commissioner

June 27, 2016

CERTIFIED MAIL: 7015 3430 0000 4915 3001  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)782-6984 or email at kelleem.husband@ky.gov.

Sincerely,

A handwritten signature in cursive script that reads "Sarah Gaddis".

Sarah Gaddis  
Drinking Water CTAB Acting Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2016 - 9951177  
**Determination Date:** 05/05/2016  
**Compliance Period:** 01/01/2016 - 03/31/2016  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 01/01/2016 - 03/31/2016. The reported result of .104 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TTHM.

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

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---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>.

If you have questions or need further information, write or call Kellee Husband at (502)782-6984 or email at [kellee.husband@ky.gov](mailto:kellee.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
300 Sower Boulevard  
Frankfort, KY 40601

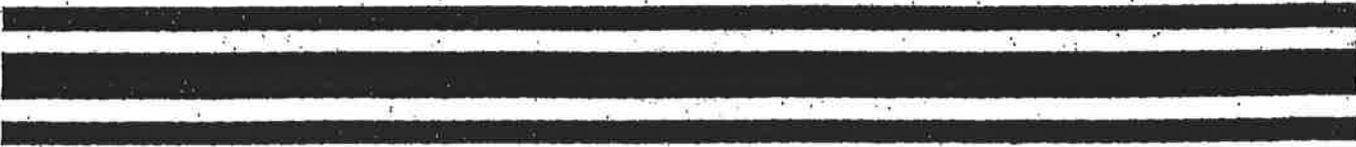


Issued By:

Sarah Gaddis  
Drinking Water CTAB Acting Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: June 27, 2016

How Delivered: Certified/Registered #7015 3430 0000 4915 3001



### Patch III – Next page starts new Batch

Agency Interest Number:	2987
Program Code:	03
Received Date:	0127110
Document Description	ICMRSE
Functional Area Code:	314

Batch Name: 69	Operator	
Prepared:	Operator	
Scanned:	Operator	Rescan Required:
Quality Check:	Operator	
Rescanned:	Operator	
Indexed:	Operator	
DePrep:	Operator	

- \_\_\_\_\_ Duplex (2-sided)
- \_\_\_\_\_ Color pages
- \_\_\_\_\_ 11 x 17 pages
- \_\_\_\_\_ 8 1/2 x 14 (legal)
- \_\_\_\_\_ Other \_\_\_\_\_

Received  
JUL 20 2016  
File Room



MATTHEW G. BEVIN  
GOVERNOR

CHARLES G. SNAVELY  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF ENFORCEMENT  
300 FAIR OAKS LANE  
FRANKFORT KENTUCKY 40601  
www.kentuckv.gov

January 25, 2016

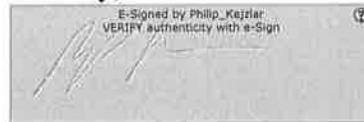
John Mills  
Martin Co. Water District  
387 East Main St Suite 140  
Inez, KY 41224

Re: AI Name Martin Co Water District  
AI No. 2987  
Case No. DOW-150292  
Activity No. ERF20150001  
Facility ID: KY0800273  
Martin County

Dear Mr. Mills:

Your case has been referred to the Division of Enforcement of the Department for Environmental Protection to bring your facility into compliance with Kentucky's environmental laws. We will review the documentation and other information regarding your facility and then contact you to schedule an administrative conference so that we can discuss resolution of any outstanding issues. I have been assigned as the enforcement specialist for your case and you may contact me at (502) 564-2150, ext. 3604 or [philip.kejzlar@ky.gov](mailto:philip.kejzlar@ky.gov).

Sincerely,



Philip Kejzlar,  
Environmental Enforcement Specialist IV  
Division of Enforcement



MATTHEW G. BEVIN  
GOVERNOR

CHARLES G. SNAVELY  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**

DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF ENFORCEMENT  
300 FAIR OAKS LANE  
FRANKFORT KENTUCKY 40601  
www.kentuckv.gov

February 10, 2016

CERTIFIED MAIL No. 7014 2120 0000 7298 4894  
Return Receipt Requested

John Mills  
Martin Co. Water District  
387 East Main St. STE 140  
Inez, KY 41224

Re: AI Name: Martin Co Water District  
AI No. 2987  
Case No. DOW-150292  
Activity No. ERF20150001  
Facility ID: KY0800273  
Martin County

Dear Mr. Mills:

An Administrative Conference between Martin Co Water District and the Division of Enforcement is scheduled for March 2, 2016, beginning at 10:00 A.M. Eastern Time. The meeting will be held at the Division of Enforcement, 300 Fair Oaks Lane, Frankfort, Kentucky 40601. The purpose of the Administrative Conference will be to discuss the violations that were cited.

Please find the enclosed map to assist you in locating the conference. When you arrive at 300 Fair Oaks Lane, enter the front of the building and ask for Philip Kejzlar. The receptionist will contact me and I will escort you to the conference room. Since the Administrative Conference is informal, legal representation is not required. If you feel a legal representative is needed, please contact me at least five (5) working days prior to the meeting.

If you are unable to resolve your case in the Division of Enforcement, it may be necessary to refer your case for formal legal action. Should you have any questions regarding this correspondence, please contact me at (502) 564- 2150 extension 3604.

Respectfully,

E-Signed by Philip\_Kejzlar  
VERIFY authenticity with e-Sign



Philip Kejzlar  
Environmental Enforcement Specialist IV  
Division of Enforcement

Enclosure



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

July 30, 2015

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **REVISED NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued this revised Notice of Violation for violations discovered at your facility. This notice replaces the notice dated May 29, 2015. Please review this revised Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951164  
**Determination Date:** 05/11/2015  
**Compliance Period:** 01/01/2015 - 03/31/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 01/01/2015 - 03/31/2015. The reported result of .094 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Notice of Violation.

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---

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---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: July 30, 2015



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
[www.water.ky.gov](http://www.water.ky.gov)

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

May 29, 2015

CERTIFIED MAIL: 7012 3460 0002 3647 7181.  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: NOTICE OF VIOLATION  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB, Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951167  
**Determination Date:** 05/11/2015  
**Compliance Period:** 01/01/2015 - 03/31/2015  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTIN CO WATER DIST  
**Contaminant:** 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 01/01/2015 - 03/31/2015. The reported result of .118 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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---

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---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 29, 2015

How Delivered: Certified/Registered #7012 3460 0002 3647 7181



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

March 1, 2015

CERTIFIED MAIL: 7014 2120 0000 7298 1015  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

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Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water

NOTICE OF VIOLATION

To:

MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

PWSID: KY0800273

PWS Name: MARTIN CO WATER DISTRICT #1 AI ID: 2987

County: MARTIN

Violation Number: 2015 - 9951161

Determination Date: 02/05/2015

Compliance Period: 10/01/2014 - 12/31/2014

Violation Type: 02 MCL, LRAA Tier Level: 2

PWS Facility: IDSE9999 IDSE - MARTIN CO WATER DIST

Contaminant: 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 10/01/2014 - 12/31/2014. The reported result of .105 mg/l exceeded the MCL of 0.060 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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---

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ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: March 1, 2015

How Delivered: Certified/Registered #7014 2120 0000 7298 1015



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

May 29, 2015

CERTIFIED MAIL: 7012 3460 0002 3648 1553  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: NOTICE OF VIOLATION  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee' Husband at 502-564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT for ENVIRONMENTAL PROTECTION  
DIVISION of WATER

NOTICE OF VIOLATION

To:  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

PWSID: KY0800273  
PWS Name: MARTIN CO WATER DISTRICT #1 AI ID: 2987  
County: MARTIN  
Violation Number: 2015 - 9951168  
Determination Date: 05/11/2015  
Compliance Period: 01/01/2015 - 03/31/2015  
Violation Type: 35 FAILURE SUBMIT OEL REPORT FOR HAA5 Tier Level: 3  
PWS Facility: IDSE9999 IDSE - MARTN CO WATER DIST  
Contaminant: 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 Section 1(1) TOTAL HALOACETIC ACIDS (HAA5) The public water system failed to submit Operational Evaluation Levels (OEL's) report for compliance period 01/01/2015 - 03/31/2015.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee' Husband at (502) 564-3410 ext. 4986.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601  
(502) 564-3410 x 4959

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 29, 2015

How Delivered: Certified/Registered #7012 3460 0002 3648 1553



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

May 29, 2015

CERTIFIED MAIL: 7012 3460 0002 3648 1553  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: NOTICE OF VIOLATION  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee' Husband at 502-564-3410 ext. 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT for ENVIRONMENTAL PROTECTION  
DIVISION of WATER

NOTICE OF VIOLATION

To:

MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273

**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987

**County:** MARTIN

**Violation Number:** 2015 - 9951169

**Determination Date:** 05/11/2015

**Compliance Period:** 01/01/2015 - 03/31/2015

**Violation Type:** 35 FAILURE SUBMIT OEL REPORT FOR TTHM **Tier Level:** 3

**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST

**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 Section 1 (1) TTHM The public water system failed to submit Operational Evaluation Levels (OEL's) report for compliance period 01/01/2015 - 03/31/2015.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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---

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---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee' Husband at (502) 564-3410 ext. 4986.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601  
(502) 564-3410 x 4959

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: May 29, 2015

How Delivered: Certified/Registered #7012 3460 0002 3648 1553



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

November 20, 2014

CERTIFIED MAIL: 7014 0150 0002 1561 1813  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)564-3410 ext. 4986 or email at kelleem.husband@ky.gov.

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951159  
**Determination Date:** 11/05/2014  
**Compliance Period:** 07/01/2014 - 09/30/2014  
**Violation Type:** 02 MCL, LRAA **Tier Level:** 2  
**PWS Facility:** IDSE9999 IDSE - MARTN CO WATER DIST  
**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 07/01/2014 - 09/30/2014. The reported result of .101 mg/l exceeded the MCL of 0.080 mg/l.

**Comments:** Site SM8, SM7, 119, 118 exceeded MCL.

**The remedial measure(s) and date(s) to be completed by are as follows:**  
Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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Submit proof of public notification and its certification within ten (10) days of executing public notification.

---

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---

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Kellee Husband at (502)564-3410 ext 4986 or email at [kelleem.husband@ky.gov](mailto:kelleem.husband@ky.gov).

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: November 20, 2014

How Delivered: Certified/Registered #7014 0150 0002 1561 1813



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

March 1, 2015

CERTIFIED MAIL: 7014 2120 0000 7298.1015  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

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Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

**To:**

MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273

**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987

**County:** MARTIN

**Violation Number:** 2015 - 9951162

**Determination Date:** 02/05/2015

**Compliance Period:** 10/01/2014 - 12/31/2014

**Violation Type:** 02 MCL, LRAA **Tier Level:** 2

**PWS Facility:** IDSE9999 IDSE - MARTIN CO WATER DIST

**Contaminant:** 2950 TTHM

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:510 TTHM The public water system exceeded the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 10/01/2014 - 12/31/2014. The reported result of .096 mg/l exceeded the MCL of 0.080 mg/l.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Begin or continue quarterly monitoring for TTHM

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance  
Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: March 1, 2015

How Delivered: Certified/Registered #7014 2120 0000 7298 1015



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov  
April 29, 2015

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

CERTIFIED MAIL: 7014 2120 0000 7298 2210  
RETURN RECEIPT REQUESTED

JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

Re: **NOTICE OF VIOLATION**  
AI ID: 2987  
PWSID: KY0800273  
PWS NAME: MARTIN CO WATER DISTRICT #1  
COUNTY: MARTIN

Dear Mr. Mills:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Linda Metts at (502)564-3410 ext. 4984 or email at [linda.metts@ky.gov](mailto:linda.metts@ky.gov).

Sincerely,

*Brian M. Chitti*

Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

C: Drinking Water Program files  
Enclosure

3

**COMMONWEALTH OF KENTUCKY  
ENERGY & ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water**

**NOTICE OF VIOLATION**

To:  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

**PWSID:** KY0800273  
**PWS Name:** MARTIN CO WATER DISTRICT #1 **AI ID:** 2987  
**County:** MARTIN  
**Violation Number:** 2015 - 9951163  
**Determination Date:** 03/31/2015  
**Compliance Period:** 02/01/2015 - 02/28/2015  
**Violation Type:** 43 SINGLE COMB FLTR EFFLUENT (IESWTR/LT1) **Tier Level:** 2  
**Contaminant:** 0300 IESWTR

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]  
This is to advise that you are in violation of the provision(s) cited below:

**Description of Non Compliance:**

401 KAR 8:150, Section 3 IESWTR The public water system exceeded the MCL for turbidity by exceeding 1.0 NTU in a combined filter effluent sample collected in the compliance period 02/01/2015 - 02/28/2015.

**Comments:** Failed to maintain CFE turbidity level below 1 NTU on 23rd for February 2015, single highest turbidity reported as 1.195 NTU; also failed to maintain CFE turbidity level below 0.3 NTU in 95% of monthly measurements with 11 of 167 samples exceeding 0.3 NTU.

**The remedial measure(s) and date(s) to be completed by are as follows:**

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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Division of Water, Department for Environmental Protection  
200 Fair Oaks Lane, 4<sup>th</sup> floor  
Frankfort, KY 40601

Issued By: *Brian M. Chitti*  
Brian Chitti  
Drinking Water CTAB Supervisor  
Compliance & Technical Assistance Branch  
Division of Water

Date: April 29, 2015

How Delivered: Certified/Registered #7014 2120 0000 7298 2210



# USPS Tracking®



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Tracking Number: 70142120000072984894

Updated Delivery Day: Tuesday, February 16, 2016

## Product & Tracking Information

Postal Product:

Features:  
Certified Mail™

DATE & TIME

STATUS OF ITEM

LOCATION

February 16, 2016 , 2:49 pm

Delivered

INEZ, KY 41224

Your item was delivered at 2:49 pm on February 16, 2016 in INEZ, KY 41224.

February 16, 2016 , 8:51 am

Out for Delivery

INEZ, KY 41224

February 16, 2016 , 8:41 am

Sorting Complete

INEZ, KY 41224

February 16, 2016 , 8:10 am

Arrived at Unit

INEZ, KY 41224

February 16, 2016 , 4:19 am

Departed USPS Facility

CHARLESTON, WV 25350

February 13, 2016 , 9:18 am

Arrived at USPS Facility

CHARLESTON, WV 25350

February 12, 2016 , 7:19 pm

Arrived at USPS Facility

LEXINGTON, KY 40511

## Available Actions

Text Updates

Email Updates

## Track Another Package

Tracking (or receipt) number

Track It

## Manage Incoming Packages

Track all your packages from a dashboard.  
No tracking numbers necessary.

Sign up for My USPS ›





**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
www.water.ky.gov

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

May 20, 2013

Martin County Water District No. 1  
Mr. John Mills  
287 E. Main Street, Suite 140  
Inez, Kentucky 41224

RE: KY0800273  
EKY DS D/DBP PBT 2013-2014

Dear Mr. Mills:

The Kentucky Compliance and Technical Assistance Branch (CTAB) would like to invite Martin County Water District No.1 (PWSID KY0800273) to participate in the Eastern Kentucky (EKY) Distribution System (DS) Disinfectants and Disinfection Byproducts (D/DBP) Performance Based Training (PBT); a multiple-system training initiative with the goal of transferring priority setting and problem solving skills to water plant personnel in order to optimize water treatment performance. PBT is a component of the Area-wide Optimization Program (AWOP) and is intended to assist systems in meeting compliance and optimization goals. The CTAB's Drinking Water Technical Assistance group will be coordinating the training.

The EKY DS D/DBP PBT will involve 2 participants from each utility for one day of training every 2-3 months over a period of 7 sessions. As each session builds upon the previous one, it is highly recommended that the same 2 operators attend all 6 sessions. It is requested that utility administrators attend the first and last sessions. The utilities will develop "action items" at each training session and work towards reaching set goals between sessions. Technical Assistance will work in a facilitative roll with utilities between sessions to keep the utilities on track.

The first training session will be held on **Wednesday, June 5, 2013** at the **Campton Elementary School** located at 166 Highway 2491, Campton, Kentucky 41301. A tentative agenda and directions to the meeting location are attached.

Please note your staff should bring the following items are to session 1:

- Field chlorine test kit and reagents

- Chlorine test kit verification supplies

Certification hours will be provided for all licensed operators. If you have any questions, I can be reached at 270/384-4734 or email: [crystal.davis@ky.gov](mailto:crystal.davis@ky.gov) .

Sincerely,

*Crystal Davis*

Crystal Davis, EKY DS D/DBP PBT Coordinator  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
KY Division of Water



Steven L. Beshear  
Governor

**ENERGY AND ENVIRONMENT CABINET**

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
[www.water.ky.gov](http://www.water.ky.gov)

Leonard K. Peters  
Secretary

**R. Bruce Scott**  
Commissioner

July 31, 2013

Mr. GARRETT DENNISTON  
CAMPTON WATER SYSTEM  
135 BACK ST  
CAMPTON, KY 41301

RE: KY1190061  
EKY DS DDBP PBT

Dear Dear Sir or Madam,

The Kentucky Drinking Water Compliance and Technical Assistance Branch (DWCTAB) would like to remind CAMPTON WATER SYSTEM (PWSID KY1190061 ) that Session 2 of the Disinfectants and Disinfection Byproducts (DDBP) Performance Based Training (PBT) will be held on Wednesday, August 14, 2013 at the Eastern Kentucky University-Manchester Campus, in Manchester, KY. A tentative agenda and directions to the meeting location are attached. Certification hours will be provided for all licensed operators. If you have any questions, I can be reached at 270-384-4734 or at [crystal.davis@ky.gov](mailto:crystal.davis@ky.gov).

Sincerely,

E-Signed by Davis, Crystal   
VERIFY authenticity with ApproveIt  
*Crystal Davis*

Crystal Davis, EKY DS DDBP PBT Coordinator  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
KY Division of Water



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
Fax: (502) 564-2741  
[www.water.ky.gov](http://www.water.ky.gov)

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

July 31, 2013

Mr. CARLOS COMBS  
HAZARD WATER DEPARTMENT  
PO BOX 420  
HAZARD, KY 41701

RE: KY0970184  
EKY DS DDBP PBT

Dear Dear Sir or Madam,

The Kentucky Drinking Water Compliance and Technical Assistance Branch (DWCTAB) would like to remind HAZARD WATER DEPARTMENT (PWSID KY0970184 ) that Session 2 of the Disinfectants and Disinfection Byproducts (DDBP) Performance Based Training (PBT) will be held on Wednesday, August 14, 2013 at the Eastern Kentucky University-Manchester Campus, in Manchester, KY. A tentative agenda and directions to the meeting location are attached. Certification hours will be provided for all licensed operators. If you have any questions, I can be reached at 270-384-4734 or at [crystal.davis@ky.gov](mailto:crystal.davis@ky.gov).

Sincerely,

E-Signed by Davis, Crystal   
VERIFY authenticity with ApproveIt  
*Crystal Davis*

Crystal Davis, EKY DS DDBP PBT Coordinator  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
KY Division of Water



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**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

July 31, 2013

Mr. REVA CAMPBELL  
KNOTT CO WATER & SEWER DISTRICT  
7777 Big Branch Road  
Vicco, KY 41773

RE: KY0600062  
EKY DS DDBP PBT

Dear Dear Sir or Madam,

The Kentucky Drinking Water Compliance and Technical Assistance Branch (DWCTAB) would like to remind KNOTT CO WATER & SEWER DISTRICT (PWSID KY0600062 ) that Session 2 of the Disinfectants and Disinfection Byproducts (DDBP) Performance Based Training (PBT) will be held on Wednesday, August 14, 2013 at the Eastern Kentucky University-Manchester Campus, in Manchester, KY. A tentative agenda and directions to the meeting location are attached. Certification hours will be provided for all licensed operators. If you have any questions, I can be reached at 270-384-4734 or at [crystal.davis@ky.gov](mailto:crystal.davis@ky.gov).

Sincerely,

E-Signed by Davis, Crystal  
VERIFY authenticity with ApproveIt  
*Crystal Davis*

Crystal Davis, EKY DS DDBP PBT Coordinator  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
KY Division of Water



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
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Frankfort, Kentucky 40601  
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**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

July 31, 2013

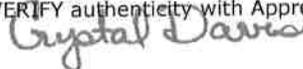
Mr. MIKE WHITE  
MANCHESTER WATER WORKS  
123 TOWN SQUARE  
MANCHESTER, KY 40962

RE: KY0260737  
EKY DS DDBP PBT

Dear Dear Sir or Madam,

The Kentucky Drinking Water Compliance and Technical Assistance Branch (DWCTAB) would like to remind MANCHESTER WATER WORKS (PWSID KY0260737 ) that Session 2 of the Disinfectants and Disinfection Byproducts (DDBP) Performance Based Training (PBT) will be held on Wednesday, August 14, 2013 at the Eastern Kentucky University-Manchester Campus, in Manchester, KY. A tentative agenda and directions to the meeting location are attached. Certification hours will be provided for all licensed operators. If you have any questions, I can be reached at 270-384-4734 or at [crystal.davis@ky.gov](mailto:crystal.davis@ky.gov).

Sincerely,

E-Signed by Davis, Crystal  
VERIFY authenticity with ApproveIt  


Crystal Davis, EKY DS DDBP PBT Coordinator  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
KY Division of Water



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
4<sup>th</sup> Floor  
Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
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[www.water.ky.gov](http://www.water.ky.gov)

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

July 31, 2013

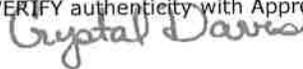
Mr. JOHN MILLS  
MARTIN CO WATER DISTRICT #1  
287 E MAIN ST SUITE 140  
INEZ, KY 41224

RE: KY0800273  
EKY DS DDBP PBT

Dear Dear Sir or Madam,

The Kentucky Drinking Water Compliance and Technical Assistance Branch (DWCTAB) would like to remind MARTIN CO WATER DISTRICT #1 (PWSID KY0800273 ) that Session 2 of the Disinfectants and Disinfection Byproducts (DDBP) Performance Based Training (PBT) will be held on Wednesday, August 14, 2013 at the Eastern Kentucky University-Manchester Campus, in Manchester, KY. A tentative agenda and directions to the meeting location are attached. Certification hours will be provided for all licensed operators. If you have any questions, I can be reached at 270-384-4734 or at [crystal.davis@ky.gov](mailto:crystal.davis@ky.gov).

Sincerely,

E-Signed by Davis, Crystal  
VERIFY authenticity with ApproveIt  


Crystal Davis, EKY DS DDBP PBT Coordinator  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
KY Division of Water



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane  
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Frankfort, Kentucky 40601  
Phone: (502) 564-3410  
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[www.water.ky.gov](http://www.water.ky.gov)

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

July 31, 2013

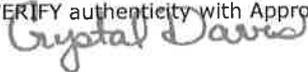
Mr. GRONDALL POTTER  
MOUNTAIN WATER DIST #1 MARROW BONE  
PO BOX 3157  
PIKEVILLE, KY 41502

RE: KY0980575  
EKY DS DDBP PBT

Dear Dear Sir or Madam,

The Kentucky Drinking Water Compliance and Technical Assistance Branch (DWCTAB) would like to remind MOUNTAIN WATER DIST #1 MARROW BONE (PWSID KY0980575 ) that Session 2 of the Disinfectants and Disinfection Byproducts (DDBP) Performance Based Training (PBT) will be held on Wednesday, August 14, 2013 at the Eastern Kentucky University-Manchester Campus, in Manchester, KY. A tentative agenda and directions to the meeting location are attached. Certification hours will be provided for all licensed operators. If you have any questions, I can be reached at 270-384-4734 or at [crystal.davis@ky.gov](mailto:crystal.davis@ky.gov).

Sincerely,

E-Signed by Davis, Crystal  
VERIFY authenticity with ApproveIt  


Crystal Davis, EKY DS DDBP PBT Coordinator  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
KY Division of Water



**ENERGY AND ENVIRONMENT CABINET**

**Steven L. Beshear**  
Governor

Department for Environmental Protection  
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**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

July 31, 2013

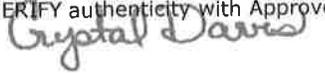
Mr. NORA BAUER  
SALYERSVILLE MUNICIPAL WATER  
401 COLLEGE ST  
SALYERSVILLE, KY 41465

RE: KY0770566  
EKY DS DDBP PBT

Dear Dear Sir or Madam,

The Kentucky Drinking Water Compliance and Technical Assistance Branch (DWCTAB) would like to remind SALYERSVILLE MUNICIPAL WATER (PWSID KY0770566 ) that Session 2 of the Disinfectants and Disinfection Byproducts (DDBP) Performance Based Training (PBT) will be held on Wednesday, August 14, 2013 at the Eastern Kentucky University-Manchester Campus, in Manchester, KY. A tentative agenda and directions to the meeting location are attached. Certification hours will be provided for all licensed operators. If you have any questions, I can be reached at 270-384-4734 or at [crystal.davis@ky.gov](mailto:crystal.davis@ky.gov).

Sincerely,

E-Signed by Davis, Crystal  
VERIFY authenticity with ApproveIt  


Crystal Davis, EKY DS DDBP PBT Coordinator  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
KY Division of Water



## ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
625 HOSPITAL DRIVE  
MADISONVILLE, KY 42431  
PHONE (270) 824-7529  
FAX (270) 824-7070  
[www.dep.ky.gov](http://www.dep.ky.gov)

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

October 2, 2013

Mr. John Mills  
Martin County Water District No. 1  
287 East Main Street, Suite 140  
Inez, Kentucky 41224

Re: KY0260737  
EKY DS D/DBP PBT

Dear Mr. Mills:

The Kentucky Drinking Water Compliance and Technical Assistance Branch (DWCTAB) would like to inform Manchester Water Works (PWSID KY0260737) that Session 3 of the Disinfectants and Disinfection Byproducts (DDBP) Performance Based Training (PBT) will be held on Wednesday, October 16, 2013 at the Knott County Water & Sewer District water treatment plant located at 7777 Big Branch Road (Hwy 1231), Vicco, KY 41773. A tentative agenda is attached. Certification hours will be provided for all licensed operators. If you have any questions, please contact me at 270-824-7529 or at [jackie.logsdon@ky.gov](mailto:jackie.logsdon@ky.gov).

Sincerely,

A handwritten signature in black ink that reads "Jackie Logsdon".

Jackie Logsdon  
Environmental Scientist II  
Kentucky Division of Water



## ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear  
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
625 HOSPITAL DRIVE  
MADISONVILLE, KY 42431  
PHONE (270) 824-7529  
FAX (270) 824-7070  
[www.dep.ky.gov](http://www.dep.ky.gov)

Leonard K. Peters  
Secretary

R. Bruce Scott  
Commissioner

October 8, 2014

Mr. John Mills  
Martin County Water District No. 1  
287 East Main Street, Suite 140  
Inez, Kentucky 41224

Re: EKY DS D/DBP PBT—Session 6

Dear Mr. Mills:

Kentucky Drinking Water Compliance and Technical Assistance (DWCTA) would like to inform Martin County Water District No.1 (PWSID KY0800273) that Session 6 of the Disinfectants and Disinfection Byproducts (D/DBP) Performance Based Training (PBT) will be held on Wednesday, October 15, 2014 in Room 109 of the ECU Manchester Campus located at 50 University Drive, Manchester, KY 40962. The agenda is attached. Please note; this will be the final session of this PBT series. We encourage utility managers and administrators attend this session. Certification hours will be provided for all licensed operators. If you have any questions, please contact me at 270-824-7529 or at [jackie.logsdon@ky.gov](mailto:jackie.logsdon@ky.gov).

Sincerely,

A handwritten signature in cursive script that reads "Jackie Logsdon".

Jackie Logsdon, EKY DS D/DBP PBT Coordinator  
Drinking Water Compliance & Technical Assistance  
Compliance & Technical Assistance Branch  
KY Division of Water

# Technical Assistance Report

- PHONE CALL
- ON-SITE VISIT
- OTHER (List)

PWS Name: **Martin County Water District #1**

PWS #: **KY0800273**

PWS Staff Involved: **Tom Alley, John Mills**

TA Staff: **Russell Neal, Linda Metts, Don Dekoster**

DATE: **06/26/2013**

TIME: **9:30 AM**

Reason for TA visit: **PBT facilitation and discuss peroxide use in treatment process**

Description of TA provided: **Met with Tom to discuss potential of adding peroxide in WTP process to assist in lowering DBPs at the plant. Looking in to adding peroxide at hydroteator. Assisted John with Stage II information and preparation of homework materials for PBT Session #2.**

Required follow-up: (as needed) **Continue facilitatin during course of PBT.**

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

- PHONE CALL
- ON-SITE VISIT
- OTHER (List)

PWS Name: Martin County Water District #1

TA Staff: Russell Neal, Linda Metts

DATE: 07/24/2013

PWS #: KY0800273

PWS Staff Involved: Tom Alley, John Mills

TIME: 10:00 AM

Reason for TA visit: EKY DS DBP PBT facilitation

Description of TA provided: Assisted John with distribution system spreadsheet for the PBT. MCWD was having difficulty entering and saving chlorine data in the spreadsheet. They installed Excel 2007 on their work computer and the spreadsheet for fine now. Also facilitated in completion of powerpoint presentation for the next PBT session.

Required follow-up: (as needed) Continue facilitation during course of PBT.

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

- PHONE CALL  
 ON-SITE VISIT  
 OTHER (List)

PWS Name: **Martin County Water District #1**

TA Staff: **Russell Neal**

DATE: **08/15/2013**

PWS #: **KY0800273**

PWS Staff Involved: **John Mills**

TIME: **9:40 AM**

Reason for TA visit: **EKY DS DBP PBT facilitation**

Description of TA provided: **Assisted in DBP sampling at WTP and all Stage II sites. Site SM5 was flush until minimum chlorine residual was obtained.**

Site	Time	FCI	TCI	Lat./Long
PT	9:40 AM	1.76	2.01	37.87242/-82.51952
008	10:05 AM	1.05	1.43	37.89695/-82.55648
SM5	12:10 AM	0		37.78749/-82.59943
SM7	2:10 PM	0.82	0.93	37.92336/-82.49518
SM8	1:10 PM	0.73	0.95	37.7052/-82.50197

Required follow-up: (as needed) **Continue facilitatin during course of PBT.**

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

PHONE CALL

ON-SITE VISIT

OTHER (List)

PWS Name: Martin County Water District #1

TA Staff: Russell Neal

DATE: 9/3/2013

PWS #: KY0800273

PWS Staff Involved: John Mills

TIME:

Reason for TA visit: EKY DS DBP PBT facilitation

Description of TA provided: Facilitated MCWD staff in approaching additional sampling sites with approach and determination of other testing sites. MCWD staff will be conducting additional FCI testing in the distribution system.

Required follow-up: (as needed) Continue facilitation during course of PBT.

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

PHONE CALL

ON-SITE VISIT

OTHER (List)

PWS Name: Martin County Water District #1

TA Staff: Russell Neal

DATE: 9/17/2013

PWS #: KY0800273

PWS Staff Involved: John Mills

TIME:

Reason for TA visit: EKY DS DBP PBT facilitation

Description of TA provided: Assessed initial CFT and FCI data from first round of FCI monitoring in the distribution system. System will monitor sites and additional time before PBT Session #3.

Required follow-up: (as needed) Continue facilitation during course of PBT.

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

PHONE CALL

ON-SITE VISIT

OTHER (List)

PWS Name: Martin County Water District #1

TA Staff: Russell Neal

DATE: 10/2/2013

PWS #: KY0800273

PWS Staff Involved: John Mills

TIME:

Reason for TA visit: EKY DS DBP PBT facilitation

Description of TA provided: Assisted in creating a amp of MCWD showing FCI sampling results. MCWD will use this in their presentation for PBT Session 3.

Required follow-up: (as needed) Continue facilitatin during course of PBT.

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

- PHONE CALL
- ON-SITE VISIT
- OTHER (List)

PWS Name: Martin Co Water District

PWS #: KY0800273

PWS Staff Involved: Shawn Rowe

TA Staff: Russell Neal, Lindsay Metts, Don DeKoster

DATE: 03/19/13

TIME: 1:00 PM

Reason for TA visit: PBT Interview

Description of TA provided: Interviewed water system regarding involvement in the 2013 DS DBP PBT. See PBT notes on the shared drive.

Required follow-up: (as needed) Contact system regarding involvement.

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

PHONE CALL

ON-SITE VISIT

OTHER (List)

PWS Name: Martin Co Water District

TA Staff: Russell Neal

DATE: 08152013

PWS #: KY0800273

PWS Staff Involved: DS Staff

TIME: 940 AM

Reason for TA visit: Assist with DBP sampling

Description of TA provided:

Required follow-up: (as needed)

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

- PHONE CALL
- ON-SITE VISIT
- OTHER (List)

PWS Name: **Martin County Water District #1**

TA Staff: **Russell Neal**

DATE: **3/21/2012**

PWS #: **KY0800273**

PWS Staff Involved: **Tom Alley, John Mills**

TIME: **11:00 AM**

Reason for TA visit: **Discuss DBP CPE participation**

Description of TA provided: **Discussed possible DBP CPE with Tom and John. Reviewed and recorded 2009 - 2011 plant tap DBP data. Discussed placing booster chlorinators at locations in the distribution system having difficulty maintaining residual. One on Route 3 toward Lawrence County, 1 on Route 1439 toward Pike County.**

Required follow-up: (as needed) **Contact John Mills regarding placement of boosters.**

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

- PHONE CALL
- ON-SITE VISIT
- OTHER (List)

PWS Name: Martin County Water District #1

PWS #: KY0800273

PWS Staff Involved: Tom Alley, John Mills

TA Staff: Russell Neal, Linda Metts, Don Dekoster

DATE: 06/26/2013

TIME: 9:30 AM

Reason for TA visit: PBT facilitation and discuss peroxide use in tretment process

Description of TA provided: Met with Tom to discuss potential of adding peroxide in WTP process to assist in lowering DBPs at the plant. Looking in to adding peroxide at hydroteator. Assisted John with Stage II information and preparation of homework materials for PBT Session #2.

Required follow-up: (as needed) Continue facilitatin during course of PBT.

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

- PHONE CALL
- ON-SITE VISIT
- OTHER (List)

PWS Name: **Martin County Water District #1**

TA Staff: **Russell Neal, Linda Metts**

DATE: **07/24/2013**

PWS #: **KY0800273**

PWS Staff Involved: **Tom Alley, John Mills**

TIME: **10:00 AM**

Reason for TA visit: **EKY DS DBP PBT facilitation**

Description of TA provided: **Assisted John with distribution system spreadsheet for the PBT. MCWD was having difficulty entering and saving chlorine data in the spreadsheet. They installed Excel 2007 on their work computer and the spreadsheet for fine now. Also facilitated in completion of powerpoint presentation for the next PBT session.**

Required follow-up: (as needed) **Continue facilitatin during course of PBT.**

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

- PHONE CALL
- ON-SITE VISIT
- OTHER (List)

PWS Name: **Martin County Water District #1**

TA Staff: **Russell Neal**

DATE: **08/15/2013**

PWS #: **KY0800273**

PWS Staff Involved: **John Mills**

TIME: **9:40 AM**

Reason for TA visit: **EKY DS DBP PBT facilitation**

Description of TA provided: **Assisted in DBP sampling at WTP and all Stage II sites. Site SM5 was flush until minimum chlorine residual was obtained.**

Site	Time	FCI	TCI	Lat./Long
PT	9:40 AM	1.76	2.01	37.87242/-82.51952
008	10:05 AM	1.05	1.43	37.89695/-82.55648
SM5	12:10 AM	0		37.78749/-82.59943
SM7	2:10 PM	0.82	0.93	37.92336/-82.49518
SM8	1:10 PM	0.73	0.95	37.7052/-82.50197

Required follow-up: (as needed) **Continue facilitatin during course of PBT.**

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

PHONE CALL

ON-SITE VISIT

OTHER (List)

PWS Name: Martin County Water District #1

TA Staff: Russell Neal

DATE: 9/3/2013

PWS #: KY0800273

PWS Staff Involved: John Mills

TIME:

Reason for TA visit: EKY DS DBP PBT facilitation

Description of TA provided: Facilitated MCWD staff in approaching additional sampling sites with approach and determination of other testing sites. MCWD staff will be conducting additional FCI testing in the distribution system.

Required follow-up: (as needed) Continue facilitation during course of PBT.

INFORMATION COPIES TO: (as needed)

# Technical Assistance Report

PHONE CALL

ON-SITE VISIT

OTHER (List)

PWS Name: **Marlin County Water District #1**

TA Staff: **Russell Neal**

DATE: **10/2/2013**

PWS #: **KY0800273**

PWS Staff Involved: **John Mills**

TIME:

Reason for TA visit: **EKY DS DBP PBT facilitation**

Description of TA provided: **Assisted in creating a amp of MCWD showing FCI sampling results. MCWD will use this in their presentation for PBT Session 3.**

Required follow-up: (as needed) **Continue facilitatin during course of PBT.**

INFORMATION COPIES TO: (as needed)

# 2015 Drinking Water Infrastructure Needs Survey And Assessment

OMB Control No.: 2040-0274  
Approval Expires: 06/30/2018  
Federal PWSID No.: KY0800273

U.S. Environmental Protection Agency  
Washington, DC 20460

\*KY0800273\*

Please verify or correct the following information:

	Check if Correct as Printed	Corrected Information <i>(Fill in only if preprinted information is missing or incorrect)</i>
Name of System (Community):	<input checked="" type="checkbox"/>	MARTIN CO WATER DISTRICT #1
Name of Contact:	<input checked="" type="checkbox"/>	MILLS, JOHN
Street Address:	<input checked="" type="checkbox"/>	287 E MAIN ST SUITE 140
City, State, and Zip:	<input checked="" type="checkbox"/>	INEZ, KY, 41224
Population Served (if wholesaler, include consecutive population as appropriate):	<input checked="" type="checkbox"/>	10,843
Number of Connections (not including consecutive systems):	<input checked="" type="checkbox"/>	3,500
Total System Design Capacity (in MGD):	<input type="checkbox"/>	2.40
Total Length of Pipe in System (in Feet):	<input type="checkbox"/>	1,264,980
Source Water Type (Ground, Surface/GWUDI, etc.):	Check All That Apply:	<input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface/GWUDI <input type="checkbox"/> Purchased Ground <input type="checkbox"/> Purchased Surface/GWUDI
Ownership Type:	Check All That Apply:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Investor-Owned or <input type="checkbox"/> Federal Government <input type="checkbox"/> Private Non-Profit
<p>Public reporting burden for this collection of information is estimated to average 5.53 hours per response. This estimate includes time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collected. Burden means the total time, effort, or financial resources expended by person(s) to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information; adjust the existing ways to comply with any previously applicable instructions; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB control numbers for EPA's regulations are listed in 40 CFR Part 9 and 48 CFR Chapter 15.</p> <p>Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, OPPI, Regulatory Information Division, U.S. Environmental Protection Agency (1804A), Ariel Rios Building, 1200 Pennsylvania Ave., NW, Washington, DC 20460; and Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17th Street, N.W., Washington, DC 20503.</p>		
<b>State Use Only</b>		<b>Telephone Number:</b> _____
<b>State Reviewer:</b> _____		

Information provided for this survey can be requested by the public. It is our experience that this information is rarely requested.

<b>Project Table</b>										Federal PWSID No.: KY0800273			
Project Number	Project Name	Type of Need	Reason for Need	<u>N</u> , <u>E</u> , <u>R</u> , <u>H</u> ( <u>N</u> ew <u>E</u> xpand <u>R</u> eplace <u>H</u> ab)	<u>C</u> or <u>F</u> ( <u>C</u> urrent <u>F</u> uture)	Regulation	Design Capacity (MG, MGD, or kW)	Diameter (inches)	Length (feet)	Number Needed	Cost Estimate	Cost Date (mm/yyyy)	Documentation
Ex. 1	Replace wells 5 and 8 at 0.5 MGD each	R1	A1	R	C	4A	0.5			2			6, 10
Ex. 2	Replace Deteriorated Transmission Main	X2	A1	R	C	4A		24	20,000		\$4,200,000	06/2015	1

## Source, Treatment, Storage, and Pumping Inventory

To ensure all potential source, treatment, and storage projects are considered, it may be helpful to complete some or all of this inventory table. However, completion of this table is not required.

- **Source Projects** are all projects related to collecting and pumping raw water. This includes wells, surface water intakes, springs, off-stream raw water storage, and pumps.
- **Treatment Projects** are all projects related to disinfection, filtration, or other treatment processes for ground or surface water sources, or for treatment applied in the distribution system.
- **Storage and Pumping Projects** are related to finished or treated water storage, and booster pump stations.

Source Water			New Infrastructure Needs
Inventory	Needing Replacement	Needing Rehabilitation	New Infrastructure Needs
Total Number and Capacity of Existing Wells or Springs: 0	Wells (pumps included) or Springs:	Wells (pumps included) or Springs:	Does your system have additional source water capacity needs to meet the needs of current users?  <input type="checkbox"/> Yes <input type="checkbox"/> No  If yes, how many additional sources are necessary?
Total Number and Capacity of Existing Surface Water Sources: 2	Existing Surface Water Intakes (excluding pumps):	Existing Surface Water Intakes (excluding pumps):	If yes, how many additional sources are necessary?
Total Number and Capacity of Existing Pumps (excluding booster pump stations):	Existing Groundwater Pumps (if wells not listed):	Existing Groundwater Pumps (if wells not listed):	
Existing Raw Surface Water Pumps:	Existing Raw Surface Water Pumps:	Existing Raw Surface Water Pumps:	
Treatment			
Inventory	Needing Replacement	Needing Expansion/Upgrading or Rehabilitation	New Infrastructure Needs
For the sources identified above, enter the number of locations where the following treatment is applied: Disinfection (including booster disinfection): 1	Disinfection:	Disinfection is applied:	Does your system have additional treatment needs for provisions of additional public health protection or for aesthetic concerns?  <input type="checkbox"/> Yes <input type="checkbox"/> No
Filtration: 1	Filtration:	Filtration:	If yes, how much additional treatment is necessary?
Chemical removal or addition: 1	Chemical treatment:	Chemical treatment:	
Storage and Pump Stations			
Inventory	Needing Replacement	Needing Rehabilitation	New Infrastructure Needs
Total Number and Capacity of Existing Storage Tanks: 13	Number of Existing Elevated or Ground-Level Storage Tanks:	Number of Existing Elevated or Ground-Level Storage Tanks:	Does your system have additional storage capacity and/or booster pumping needs to meet the needs of current users?  <input type="checkbox"/> Yes <input type="checkbox"/> No
Total Number and Capacity of Existing Booster Pump Stations: 15	Number of Existing Booster Pump Stations:	Number of Existing Booster Pump Stations:	If yes, how much additional finished water storage or booster pumping capacity is necessary?

## Transmission and Distribution Inventory

**Transmission and distribution projects** are the piping needs of a water system. Projects for valves, backflow prevention devices and assemblies, and meters that are not part of a transmission or distribution project listed in this table should be recorded in the table under the tab titled "Inventory Table 3".

On the table below, please provide an estimate of the total feet or miles of pipe in your system, if possible. Completion of this table is not required, but it may be helpful to ensure all potential transmission and distribution pipe projects are considered.

Total Pipe in System (Check feet or miles)		<=6 inch	8-12 inch	15-42 inch	>=48 inch	Total Pipe in System
		feet miles	feet miles	feet miles	feet miles	feet miles
Note: The total feet or miles of pipe in your system is required information if any pipe projects are submitted based solely on survey-generated documentation (documentation codes 10 or 11).		1,264,980	26062	3%		
On the table below, please provide an estimate of the total feet or miles of pipe in your system, if possible. Completion of this table is not required, but it may be helpful to ensure all potential transmission and distribution pipe projects are considered.						
<u>Plastic</u>	<input checked="" type="checkbox"/> feet 965573 <input type="checkbox"/> miles 76% % of total pipe	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input checked="" type="checkbox"/> feet 939511 <input type="checkbox"/> miles 97% %	<input type="checkbox"/> feet 26062 <input type="checkbox"/> miles 3% %	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles
Amount of PVC by pipe size						
% of this category/size pipe currently in poor condition or beyond useful life						
<u>Ductile Iron</u>	<input type="checkbox"/> feet <input type="checkbox"/> miles % of total pipe	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles
Amount of ductile iron by pipe size						
% of this category/size pipe currently in poor condition or beyond useful life						
<u>Cast Iron</u>	<input type="checkbox"/> feet <input type="checkbox"/> miles % of total pipe	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles
Amount of cast iron by pipe size						
% of this category/size pipe currently in poor condition or beyond useful life						
<u>Asbestos Cement</u>	<input checked="" type="checkbox"/> feet 53293 <input type="checkbox"/> miles 4% % of total pipe	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input checked="" type="checkbox"/> feet 53293 <input type="checkbox"/> miles 100% %	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles
Amount of asbestos cement by pipe size						
% of this category/size pipe currently in poor condition or beyond useful life						
<u>Other</u>	<input checked="" type="checkbox"/> feet 246114 <input type="checkbox"/> miles 19% % of total pipe	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input checked="" type="checkbox"/> feet 246114 <input type="checkbox"/> miles 100% %	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles	<input type="checkbox"/> feet <input type="checkbox"/> miles
Amount of other by pipe size						
% of other currently in poor condition or beyond useful life						

**Meters, Service Lines, Backflow Prevention Devices/Assemblies, Valves, etc.**

Projects for meters, service lines, backflow prevention devices and assemblies, valves, and other miscellaneous projects are recorded in this section to accommodate entries of multiple identical items on one line in the project table.

**Record only projects that are not a part of another project (e.g., water main replacement projects will already include valves and other appurtenances).** EPA requires documentation of all projects provided. Applicable types of documentation are presented in List 4 of the Lists of Codes. Use only existing documentation of cost. We do not expect you to develop new cost estimates.

To ensure all potential projects are considered, it may be helpful to complete some or all of this inventory table. However, completion of this table is not required.

Inventory	Needing Replacement	New Infrastructure Needs
Total Number of Existing Water Meters:  3500	Number of Water Meters:	Number of Water Meters:
Total Number of Existing Backflow Prevention Devices/Assemblies:	Number of Backflow Prevention Devices/Assemblies:	Number of Backflow Prevention Devices/Assemblies:
Total Number of Valves:	Number of Valves:	Number of Valves:
Total Number of Lead Service Lines:		

## Respondent Information

Please provide the following information in case we need to contact you for clarification or additional explanation of any of your responses.

Contact Person (Person who completed this questionnaire):

Signature:	_____	Telephone Number:	606-298-3885
Name (please print):	John Mills	Fax Number:	606-298-4913
Title:	General Manager	E-mail Address:	<u>j.mills@bellsouth.net</u>
Mailing Address:	387 E Main St, Ste 140	Best Time to Reach You:	_____
(Street Address)	Inez, KY 41224		
	_____		

If you have any questions, contact your state coordinator.

**CLOSING: Thank you for your help. Did you remember to?**

- Identify, by project number, available documentation for all needs and costs reported?
- Email the questionnaire and email or mail the documentation to your state?

Summary of Survey-Generated and Independent Documentation for Each Project				Federal PWSID No.:	KY0800273
Project Number	Project Name	Documentation Code(s)	State/System Survey-Generated Statement	Independent Document Name	Independent Documentation Page Number(s)



Steven L. Beshear  
Governor

Leonard K. Peters  
Secretary  
Energy and Environment Cabinet

Commonwealth of Kentucky  
**Public Service Commission**  
211 Sower Blvd.  
P.O. Box 615  
Frankfort, Kentucky 40602-0615  
Telephone: (502) 564-3940  
Fax: (502) 564-3460  
psc.ky.gov

David L. Armstrong  
Chairman

James W. Gardner  
Vice Chairman

June 7, 2012

Mr. John Mills, Manager  
Martin County Water District  
387 East Main Street, Suite 140  
Inez, KY 41224

Mr. Gregory Cornette, Chairperson  
Martin County Water District  
387 East Main Street, Suite 140  
Inez, KY 41224

#### PERIODIC REGULATORY COMPLIANCE WATER UTILITY INSPECTION

On April 11, 2012, Commission Staff Member Jimmy Adcock inspected the facilities and records of Martin County Water District. A copy of the report of this inspection is enclosed.

Based on Mr. Adcock's findings, I am noting five deficiencies as follows:

1. Unaccounted-for water loss in excess of 15 percent of total water produced and purchased contrary to good engineering practice requirement in 807 KAR 5:066, Section 7. This is a repeat deficiency.
2. The District has not updated its tariff to include an assessed penalty for the failure of fire departments to report quarterly its water usage quarterly. This is a repeat deficiency.
3. Insufficient meter testing contrary to 807 KAR 5:066, Section 16(1). This is repeat deficiency.
4. The District is not providing regular safety training to its employees as required in 807 KAR 5:006, Section 24(2).
5. The District does not provide instruction for its employees in accepted methods of artificial respiration as required in 807 KAR 5:006, Section 24(3).



John Mills  
Gregory Cornette  
June 7, 2012  
Page 2

The previous inspection was conducted on November 22, 2010. Three deficiencies were noted and the District's response was accepted on going forward basis with progress to be expected during the next inspection visit. As of this inspection visit, it appears those three deficiencies have not been completely addressed and are considered as repeat deficiencies as shown above.

Enclosed are five deficiency tracking reports. Please review and complete the three sections under the heading "Response" no later than July 31, 2012.

According to the District's annual report for 2010, unaccounted-for water loss equaled approximately 67.0 percent of the District's total water produced and purchased. Simply put, the District spent approximately \$224,500 to produce and purchase water that never reached the end-user and produced no revenue.

In any future rate case proceeding, Commission regulations will prohibit the District from recovery, through rates, of a significant portion of the expenses associated with unaccounted-for water. 807 KAR 5:066, Section 6(3) provides:

Except for purchased water rate adjustments for water districts and water associations, and rate adjustments pursuant to KRS 278.023(4), for rate making purposes a utility's unaccounted-for water loss shall not exceed fifteen (15) percent of total water produced and purchased, excluding water used by a utility in its own operations.

This regulation requires the Commission to disallow, for ratemaking purposes, any expenses associated with unaccounted-for water loss levels exceeding 15 percent of total water produced and purchased. For example, if the District applied for an adjustment of rates based upon its 2010 operations, 52 percent of its total costs of water produced and purchased, or \$174,239, would be excluded for ratemaking purposes and could not be recovered through its rates for water service.

Given the financial consequences of a high rate of unaccounted-for water, the District should undertake a more aggressive water loss prevention/leak detection program. The District should evaluate and possibly revise its current water loss plan and its corresponding practices if necessary. The District should submit a copy of its revised water loss prevention plan along with monthly written progress reports to the Commission of actions taken to reduce unaccounted-for water loss, (e.g., main replacements, master meter installation, meter testing, installation of telemetry equipment). It should also submit monthly water loss reports to the Commission. The form for these reports is found at the Commission's website at <http://psc.ky.gov/agencies/psc/forms/wateruse.xls> and can be submitted to the Commission by email to [pscwaternotice@ky.gov](mailto:pscwaternotice@ky.gov).

Further, Commission Staff recommends that the District evaluate and possibly revise its current meter testing program if necessary to achieve and maintain compliance with 807 KAR 5:066, Section 16(1). The District should submit a copy of this plan along with quarterly meter reports to update the PSC of its efforts in meter testing. The form for these reports is found at the Commission's website at <http://psc.ky.gov/agencies/psc/forms/WaterQuarterlyMeterReport07.xls> and can be submitted to the Commission by email to [pscwaternotice@ky.gov](mailto:pscwaternotice@ky.gov).

John Mills  
Gregory Cornette  
June 7, 2012  
Page 3

If you have any questions or wish further assistance, please contact me at (502) 564-3940, extension 409.



GEORGE W. WAKIM, P.E., MANAGER  
WATER & SEWER BRANCH, ENGINEERING DIVISION

Attachment: MartinCWD-041112 Inspection Report  
C: Ms. Julie Roney, DOW, EEC

**COMMONWEALTH OF KENTUCKY  
PUBLIC SERVICE COMMISSION  
UTILITY INSPECTION REPORT**

Report Date: 4/16/2012  
Report Number: MartinCWD-041112

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**BRIEF**

**Inspector:** Jim R. Adcock  
**Inspection Date:** April 11, 2012  
**Type of Inspection:** Periodic Regulatory Compliance Inspection  
**Type of Facility:** Distribution System with a Treatment Plant  
**Name of Utility:** Martin County Water District  
**Location of Facility:** 387 East Main Street, Suite 140, Inez, KY 41224  
Attention: John Mills, Superintendent  
**Purpose of Inspection:** Periodic inspection of utility facilities operation and maintenance practices to verify compliance with PSC regulations.  
**Applicable Regulations:** KRS Chapter 278 and 807 KAR Chapter 5

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**INSPECTION**

**Description of Utility:** Water Treatment Plant and Distribution System  
**Number of Customers:** 4,555  
**Area of Operation:** Martin County  
**Supply Source:** Reservoir for Tugg River  
**Distribution Description:** Average daily consumption of 1,962,252 gallons; 250 miles of distribution line (DI, PVC and AC); total storage capacity of 4,267,000 gallons.  
**Workforce Summary:** 15 employees  
**Utility Reps in Insp:** John Mills, Superintendent; and Joe Hammond, Consultant  
**Date of Last Inspection:** November 22, 2010  
**DTR from Last Insp:** 3  
**DTRs not Cleared:** 3

**Summary of items and facilities inspected:**

Records including, but not limited to, pressure charts; meter testing, reading and history; flushing; service interruptions; complaints; facilities inspections and procedures; operation and maintenance manual; facilities maintenance; safety guidelines; a copy of a water shortage response plan; and the service area map, etc.; water treatment plant; meter test bench and shop; clarifier (1,000,000 gal.); filter treatment influent valve; and plant pumps. During this periodic regulatory compliance inspection, it was not possible to review every record relating to all Commission requirements. Therefore, in some instances the results contained in this report are indicative of those items inspected and reviewed on a sample basis.

**COMMONWEALTH OF KENTUCKY  
PUBLIC SERVICE COMMISSION**

**UTILITY INSPECTION REPORT**

Report Date: 4/16/2012

Report Number: MartinCWD-041112

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**FINDINGS**

1. The utility's unaccounted-for water loss exceeds fifteen (15) percent of total water produced and purchased. Based on the 2010 annual report, the unaccounted-for water loss of 67.0 percent could be costing the utility approximately \$224,500.00 annually.
2. Martin County Water District has not updated its tariff to include an assessed penalty for the failure of fire departments to report quarterly its water usage as required by 807 KAR 5:095, Sec. 9(2) and KRS 278.170(3).
3. Martin County Water District has customer's one inch and smaller meters that have been in service for 10 years without being tested as required in 807 KAR 5:066, Sec. 16(1).
4. Martin County Water District is not providing regular safety training to its employees as required in 807 KAR 5:006, Sec. 24(2).
5. The utility does not provide for instruction of its employees in accepted methods of artificial respiration in accordance with 807 KAR 5:006, Sec. 24(3).

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**RECOMMENDATIONS**

Martin County Water District should submit monthly progress reports to update the Public Service Commission (PSC) of actions taken (such as line replacement, master meter installation, meter testing, telemetry, etc.) to reduce the unaccounted-for water loss coupled with completing and submitting monthly water loss calculation spreadsheets. The water loss calculation spreadsheet is located on the PSC website at <http://psc.ky.gov/agencies/psc/forms/wateruse.xls> and can be e-mailed to [pscwaternote@ky.gov](mailto:pscwaternote@ky.gov).

Martin County Water District should update its tariff to include an assessed penalty for the failure of fire departments to report quarterly its water usage as required by 807 KAR 5:095, Sec. 9(2) and KRS 278.170(3). It is recommended that the utility contact Brent Kirtley, Tariff Branch Manager, regarding the latest model tariff available and the procedure for filing.

Martin County Water District should prepare and submit a proactive meter testing/replacement plan. This plan should identify meters within the system, including their ages and steps with timetables, to test or replace those meters in an effort to maintain compliance with 807 KAR 5:066, Section 16(1) and to prevent this deficiency from recurring. In addition, the district should submit quarterly progress reports to update the PSC of their ongoing efforts in meter testing/replacement. This quarterly report can be located on the PSC website, <http://psc.ky.gov/> under the Forms bullet.

The district should provide regular safety training to its employees per 807 KAR 5:006, Sec. 24(2).

Employees at Martin County Water District should obtain their CPR training and file a copy of their certification with the PSC after completion.

**COMMONWEALTH OF KENTUCKY  
PUBLIC SERVICE COMMISSION**

**UTILITY INSPECTION REPORT**

Report Date: 4/16/2012

Report Number: MartinCWD-041112

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**ADDITIONAL INSPECTOR COMMENTS**

Water loss for 2009 was 56.36 percent; water loss for 2010 was 67.0 percent; water loss for 2011, according to Joe Hammond, Utility Consultant, was 62.0 percent. Martin County Water District has a written water loss prevention/leak detection program (see attachment#1).

Martin County Water District hired John Mills as Superintendent on February 1, 2011 after Joe Hammond retired.

The utility has been under a management audit ordered by PSC for several years.

Martin County Water District is hoping to start construction sometime this year on a project to purchase water from Paintsville Water. This will be a 1,000 gallon cistern for customers on Trace Fork Road and Spicy Ridge Road to haul water from this water hauling token station. Kentucky Engineering Group is working with the utility on this project that will be financed through Abandoned Mine Lands grant money.

A periodic regulatory compliance inspection will be conducted within a year.

Submitted by:



*Jim R. Adcock*

Jim R. Adcock

Utility Regulatory and Safety Investigator III

Report Number: MartinCWD-041112

Due Date:

DTR Number: 1

## Deficiency Tracking Report

### Deficiency Detail

Utility	Date of Investigation	Investigator
Martin County Water District	April 11, 2012	Jim R. Adcock

### Regulation

807 KAR 5:066 Sec. 7 The utility's facilities shall be ... operated so as to provide adequate and safe service to its customers...

### Deficiency:

The utility's unaccounted-for water loss exceeds fifteen (15) percent of total water produced and purchased. Based on the 2010 annual report, the unaccounted-for water loss of 67.0 percent could be costing the utility approximately \$224,500.00 annually.

If Repeat Deficiency, Date of Last DTR:

### Response (attach additional pages as necessary)

1) Explain why the deficiency occurred. Include information about what caused the deficiency and why it was not detected by the utility. (Attach extra pages as necessary)

2) Explain actions taken to correct the deficiency, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

3) Explain actions taken to prevent the deficiency from occurring again, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

Response Provided by: \_\_\_\_\_

Response Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Report Number: MartinCWD-041112

Due Date:

DTR Number: 2

## Deficiency Tracking Report

### Deficiency Detail

Utility	Date of Investigation	Investigator
Martin County Water District	April 11, 2012	Jim R. Adcock

### **Regulation**

807 KAR 5:095, Sec. 9(2) State in its tariff the penalty to be assessed for failure to submit the reports required by subsection (1) of this section.

### Deficiency:

Martin County Water District has not updated its tariff to include an assessed penalty for the failure of fire departments to report quarterly its water usage as required by 807 KAR 5:095, Sec. 9(2) and KRS 278.170(3).

If Repeat Deficiency, Date of Last DTR:

### **Response (attach additional pages as necessary)**

1) Explain why the deficiency occurred. Include information about what caused the deficiency and why it was not detected by the utility. (Attach extra pages as necessary)

2) Explain actions taken to correct the deficiency, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

3) Explain actions taken to prevent the deficiency from occurring again, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

Response Provided by: \_\_\_\_\_

Response Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Report Number: MartinCWD-041112

Due Date:

DTR Number: 3

## Deficiency Tracking Report

### Deficiency Detail

Utility	Date of Investigation	Investigator
Martin County Water District	April 11, 2012	Jim R. Adcock

### **Regulation**

807 KAR 5:066 Sec. 16(1) Each utility shall test periodically all water meters so that no meter will be in service without test for a period longer than specified ...

### **Deficiency:**

Martin County Water District has customer's one inch and smaller meters that have been in service for 10 years without being tested as required in 807 KAR 5:066, Sec. 16(1).

If Repeat Deficiency, Date of Last DTR:

### **Response (attach additional pages as necessary)**

1) Explain why the deficiency occurred. Include information about what caused the deficiency and why it was not detected by the utility. (Attach extra pages as necessary)

2) Explain actions taken to correct the deficiency, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

3) Explain actions taken to prevent the deficiency from occurring again, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

Response Provided by: \_\_\_\_\_

Response Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Report Number: MartinCWD-041112

Due Date:

DTR Number: 4

## Deficiency Tracking Report

### Deficiency Detail

Utility	Date of Investigation	Investigator
Martin County Water District	April 11, 2012	Jim R. Adcock

### **Regulation**

807 KAR 5:006, Sec. 24(2) Instruct employees in safe methods of performing their work.

### Deficiency:

Martin County Water District is not providing regular safety training to its employees as required in 807 KAR 5:006, Sec. 24(2).

If Repeat Deficiency, Date of Last DTR:

### **Response (attach additional pages as necessary)**

1) Explain why the deficiency occurred. Include information about what caused the deficiency and why it was not detected by the utility. (Attach extra pages as necessary)

2) Explain actions taken to correct the deficiency, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

3) Explain actions taken to prevent the deficiency from occurring again, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

Response Provided by: \_\_\_\_\_

Response Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Report Number: MartinCWD-041112

Due Date:

DTR Number: 5

## Deficiency Tracking Report

### Deficiency Detail

Utility	Date of Investigation	Investigator
Martin County Water District	April 11, 2012	Jim R. Adcock

### Regulation

807 KAR 5:006, Sec. 24(3) Instruct employees ...in accepted methods of artificial respiration.

### Deficiency:

The utility does not provide for instruction of its employees in accepted methods of artificial respiration in accordance with 807 KAR 5:006, Sec. 24(3).

If Repeat Deficiency, Date of Last DTR:

### Response (attach additional pages as necessary)

1) Explain why the deficiency occurred. Include information about what caused the deficiency and why it was not detected by the utility. (Attach extra pages as necessary)

2) Explain actions taken to correct the deficiency, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

3) Explain actions taken to prevent the deficiency from occurring again, including utility's responsible person, actions taken, and when it was (or will be) done. (Attach extra pages as necessary)

Response Provided by: \_\_\_\_\_

Response Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**Marcie Dials**

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**From:** Goodmann, Peter (EEC)  
**Sent:** Wednesday, August 10, 2016 3:23 PM  
**To:** Taylor, David M (EEC)  
**Subject:** FW: Martin Co. Water

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**From:** Goodmann, Peter (EEC)  
**Sent:** Tuesday, April 05, 2016 6:16 PM  
**To:** Goodmann, Peter (EEC)  
**Subject:** FW: Martin Co. Water

Peter T. Goodmann, Director  
Division of Water  
200 Fair Oaks Lane  
Frankfort, Kentucky 40601  
(502) 564-3410

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**From:** Slone, Victor [<mailto:victor.slone@martin.kyschools.us>]  
**Sent:** Thursday, March 31, 2016 2:21 PM  
**To:** Goodmann, Peter (EEC)  
**Subject:** Martin Co. Water

Mr. Goodmann,

I recently attended a meeting in the office of Senator Ray Jones concerning Martin Co. Water District. Martin Co. Water has several deficiencies that were discussed and prioritized so that compliance can eventually be achieved.

During the meeting yourself and Gary Larimore, from Ky Rural Water, brought into perspective that Martin Co. Water's deficiencies are not uncommon and are shared by other water districts throughout the state. Would you please explain and/or expand on this statement. I would like to provide this information to members of Martin Co. Fiscal Court, that were unable to attend.

Thank You  
Victor Slone  
Martin Co. Magistrate

**Marcie Dials**

---

**From:** Earl Alley [etalley47@gmail.com]  
**Sent:** Monday, August 08, 2016 11:43 AM  
**To:** Husband, Kellee M (EEC)  
**Subject:** LT2 Rule Monitoring Plan  
**Attachments:** Martin County Water District #1 LT2Monitoring Plan new 2016.docx

Kellee,

Here is the LT2 Plan including the map of Martin County Water's Plant.  
I hope it is ok.

Tom Alley  
Martin County Water

**Marcie Dials**

---

**From:** Husband, Kellee M (EEC)  
**Sent:** Friday, August 05, 2016 11:12 AM  
**To:** Earl Alley  
**Subject:** Martin County Water District #1 LT2Monitoring Plan new 2016 (2)  
**Attachments:** Martin County Water District #1 LT2Monitoring Plan new 2016 (2).docx

I made a correction to your facility ID also the map is missing from the monitoring plan.  
Make sure you revise and submit.

Everything else is good to go just need the map once we receive the map KYDOW can approve Martin Co WD 1  
source water monitoring plan.

Thanks

**Marcie Dials**

---

**From:** Earl Alley [etalley47@gmail.com]  
**Sent:** Friday, August 05, 2016 10:28 AM  
**To:** Husband, Kellee M (EEC)  
**Subject:** Martin County Water LT2 Rule Monitoring Plan  
**Attachments:** Martin County Water District #1 LT2Monitoring Plan new 2016.docx

Kellie ,

I will send out the hard copy.

Thanks,  
Earl T Alley  
Martin County Water

## Marcie Dials

**From:** Neal, Russell (EEC)  
**Sent:** Wednesday, August 10, 2016 5:17 PM  
**To:** Taylor, David M (EEC)  
**Cc:** Gaddis, Sarah (EEC)  
**Subject:** RE: Request concerning Martin Co Water District (AI# 2987)

I've uploaded sampling data from a special study performed at Martin County Water District on August 15, 2013. This data is from the site visit on this same date. I placed it on our shared drive but was forgot to upload it into TEMPO. The data is under the OTA20130003 gray bar. I've attached a screen shot:

AI ID: 2987 AI Name: Martin Co Water District County: Martin

2987: Martin Co Water District (WATER-Public Water System (2213)) 14 Flat Hollow, Inez, (Martin), KY 41224

Retrieve Activities

Category: Outreach Type: [ALL]  
 Program: Drinking Water Status: [ALL]  
 Class: Technical Assistance Year: [ ]

Activities | All Documents | Personal | Document Actions | Create New Document | Paging | Filter | Total Records

Document/Activities	Creation Date	Checked Out To
Drinking Water	OTA20130003	Performance Based Training
In Progress - 01/30/2014		
Work Activity Log	01/30/2014	
KY0800273 Martin Co WD EKY DS PBT 08262013.docx	01/30/2014	
KY0800273 Martin Co WD EKY DS PBT 07242013.docx	01/30/2014	
KY0800273 Martin Co WD EKY DS PBT 08152013.docx	01/30/2014	
KY0800273 Martin Co WD EKY DS PBT 08032013.docx	01/30/2014	
KY0800273 Martin Co WD EKY DS PBT 10022013.docx	01/30/2014	
A18-AK03180-NEAL.pdf	08/10/2016	
A18-AK03182-NEAL.pdf	08/10/2016	
A18-AK03184-NEAL.pdf	08/10/2016	
A18-AK03186-NEAL.pdf	08/10/2016	
A18-AK03188-NEAL.pdf	08/10/2016	
A18-AK03190-NEAL.pdf	08/10/2016	
A18-AK03179-NEAL.pdf	08/10/2016	
A18-AK03181-NEAL.pdf	08/10/2016	
A18-AK03183-NEAL.pdf	08/10/2016	
A18-AK03185-NEAL.pdf	08/10/2016	
A18-AK03187-NEAL.pdf	08/10/2016	
A18-AK03189-NEAL.pdf	08/10/2016	
Chlorine data 081513.xlsx	08/10/2016	
Drinking Water	OTA20130002	On-Site Technical Assistance
In Progress - 01/30/2014		

Russell Neal

8/25/2016

Environmental Scientist  
Kentucky Division of Water  
502-782-7026

---

**From:** Taylor, David M (EEC)  
**Sent:** Wednesday, August 10, 2016 2:51 PM  
**To:** EEC DEP DOW All  
**Cc:** Bruner, Brandon (EEC); Thorne, Robert (EEC); Quarles, Jackie (EEC)  
**Subject:** Request concerning Martin Co Water District (AI# 2987)

The attached request is asking for any and all communications between Martin Co W.D. and the KDOW (regional offices included) for the period of July 1, 2013 through present day. If you have any emails, memos or contact records that are not already in TEMPO, please email them to me as soon as possible. I have already queried everything from TEMPO, so anything that you plan to enter, I need to know about.

Thank you for your time and attention to this matter.

*Mike Taylor*

Public Records Management - Open Records Section  
Division of Environmental Program Support  
Department for Environmental Protection  
300 Sower Blvd – 1st Floor  
(502) 782-6461  
[DEP.KORA@ky.gov](mailto:DEP.KORA@ky.gov)

## Marcie Dials

---

**From:** Husband, Kellee M (EEC)  
**Sent:** Wednesday, August 10, 2016 3:37 PM  
**To:** Taylor, David M (EEC)  
**Cc:** Gaddis, Sarah (EEC)  
**Subject:** RE: Request concerning Martin Co Water District (AI# 2987)

Emails attached as well as an email below

Kellee M. Husband  
Environmental Scientist III  
300 Sower Blvd 3<sup>rd</sup> Floor  
Frankfort, KY 40601  
(502)782-6984

**From:** Earl Alley [mailto:etalley47@gmail.com]  
**Sent:** Friday, August 05, 2016 10:13 AM  
**To:** Husband, Kellee M (EEC)  
**Subject:** Martin County Water LT2 Rule Monitoring Plan

Kellee,

On our LT2 Rule Monitoring Plan will our Facility ID still be A or will it be different. Also do you want me to email the monitoring plan to you plus a hard copy sent by mail ?

Earl T Alley  
Martin County Water

**Marcie Dials**

---

**From:** Husband, Kellee M (EEC)  
**Sent:** Monday, August 08, 2016 12:24 PM  
**To:** Earl Alley  
**Subject:** RE: LT2 Rule Monitoring Plan

KYDOW has reviewed and approved Martin Co Source Water Monitoring Form.

Thanks

Kellee M. Husband  
Environmental Scientist III  
300 Sower Blvd 3<sup>rd</sup> Floor  
Frankfort, KY 40601  
(502)782-6984

**From:** Earl Alley [mailto:etalley47@gmail.com]  
**Sent:** Monday, August 08, 2016 11:43 AM  
**To:** Husband, Kellee M (EEC)  
**Subject:** LT2 Rule Monitoring Plan

Kellee,

Here is the LT2 Plan including the map of Martin County Water's Plant.  
I hope it is ok.

Tom Alley  
Martin County Water



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

ENERGY AND ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
200 FAIR OAKS LANE, 4TH FLOOR  
FRANKFORT, KENTUCKY 40601  
[www.kentucky.gov](http://www.kentucky.gov)

**CERTIFICATE OF INSPECTION  
FOR  
DAM AND APPURTENANT WORKS**

**Note:** The Division of Water does not intend this report to be taken as an assurance that no other problems exist at this site or that this dam is safe. The reports sole intent is to provide you a factual account of the conditions observed at the site during the inspection. If you have questions, write this office at the above listed address or call (502) 564-3410.

<b>ID of Dam:</b>	0106	<b>Hazard Class:</b>	HIGH
<b>Name of Dam:</b>	MARTIN CO. WATER DIST. 1 DAM	<b>Owner:</b>	Martin County Water District
<b>Agency Interest:</b>	2987		
<b>County:</b>	Martin	<b>Address:</b>	387 East Main Street STE 140
<b>Inspection Date:</b>	September 12, 2013	<b>City:</b>	Inez
		<b>State:</b>	KY
<b>Weather:</b>	Sunny, 85 degrees F	<b>Zip:</b>	41224
<b>Inspection Type:</b>	Dams		

**Persons Present at Inspection:** Glen Alexander, Andrew Brooks

<b>Height of Dam:</b>	66 feet	<b>Normal Pool Elevation (MSL):</b>	721.0'
<b>Latitude Dec Deg:</b>	37.878887	<b>Current Pool Elevation (MSL):</b>	~700.0'
<b>Longitude Dec Deg:</b>	-82.51889	<b>Emer. Spillway Elevation (MSL):</b>	722.0'
<b>Type of Dam:</b>	ZONED EARTHFILL DAM ABOUT 410' LONG WITH A TOP WIDTH OF 20 FEET. RIPRAP FROM ELEVATION 700 UP ON WET SIDE. NO BERMS. SIDE SLOPES ARE BOTH 3 1/2:1. TOD = 731.5'; Max. Area = 27.5 ac.; Max. Vol. = 800 ac. ft.		

**Upstream Slope of Dam:** The upstream slope has a tall grass and weed cover. Vehicle tracks were noted near the left end of the structure. The lower portion of the slope is bare below the normal pool line.

**Crest of Dam:** The crest has a tall grass cover. Some vehicle tracks were noted.

**Downstream Slope of Dam:** The downstream slope has a tall grass and weed cover.

**Toe Drains:** This structure does not have toe drains.

**CERTIFICATE OF INSPECTION  
FOR**

**KY ID: 0106**

**Principal Spillway:** 24 INCH PIPE LOCATED IN THE AREA OF THE EMERGENCY SPILLWAY, ELEVATION OF 720.0 MSL

**Principal Spillway Comment:** The principal spillway inlet and outlet are clear. A few tall weeds were noted around the inlet.

**Stilling Basin:** This structure does not have a stilling basin.

**Emergency Spillway:** OGEE WEIR WITH CREST AT 721.0. SIDE SLOPES VARY DEPENDING ON MATERIAL, SEE PLAN VIEW. WEIR LENGTH IS 110 FEET. BOTTOM WIDTH OF OUTLET CHANNEL VARIES. OUTLET SLOPE IS ABOUT 3.0 PERCENT.

**Emergency Spillway Comments:** The emergency spillway weir and concrete are in good condition. Two large rocks have fallen on the outlet apron. Some brush was noted in the outlet channel.

**Drawdown System:** The drawdown is integral with the water plant intake system. Its operational status is unknown.

**Location of Drawdown Valve:** Unknown

**Last Date of Operation:** Unknown

**Does Hazard Classification need to be Reevaluated?** This structure is currently classified high hazard. It does not need to be reclassified.

**Hydraulic Capacity:** This structure is hydraulically compliant. FBH = 28.2 inches

**Were Photographs Taken?** Yes

**General Comments and Recommendations:**

Overall, the structure is in fair condition. The entire structure must be mowed. The area around the principal spillway inlet must be cleared. The rocks in the emergency spillway outlet must be removed. The vehicle tracks on the upstream slope and crest must be reseeded. Vehicles must be kept off the dam. The emergency spillway outlet channel must be cleared of brush.

**Inspector:** Glen Alexander, EIT

**Reviewer:** Marilyn Thomas, PE, CFM

**Date:** 9/17/2013



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
200 FAIR OAKS LANE, 4TH FLOOR  
FRANKFORT, KENTUCKY 40601  
[www.kentucky.gov](http://www.kentucky.gov)

September 17, 2013

John Mills, Superintendent  
Martin County Water District  
387 East Main Street STE 140  
Inez KY 41224

RE: Scheduled Inspection  
ID of Dam: 0106  
MARTIN CNTY WATER DIST NO 1 DAM  
Martin County, KY  
Hazard Class: HIGH  
Agency Interest: 2987

Dear Mr. Mills:

The Division of Water is responsible for performing safety inspections of dams in Kentucky. Kentucky Revised Statutes Chapter 151 (KRS 151) and associated regulations establish minimum maintenance and design criteria for dams. KRS 151.125 gives the Division of Water authority to require any measures necessary to bring the dam into compliance with statutes and regulations.

As the owner you are required to maintain the dam to assure public safety. On September 12, 2013, personnel from the Energy and Environment Cabinet, Division of Water, inspected the above referenced structure. A copy of the inspection report is enclosed. Based on our visual inspection of the dam, the following deficiencies need to be corrected:

- Mow the entire structure.
- Remove the rocks from the emergency spillway.
- Clear the weeds and brush from the area around the principal spillway outlet and the emergency spillway channel.
- Reseed the vehicle tracks on the upstream slope and crest. Keep vehicles off of the structure.

If you have any questions concerning this matter, please contact Glen Alexander, E.I.T. at (502) 564-3410.

Sincerely,

**Marilyn Thomas, P.E., C.F.M.**  
Dam Safety and Floodplain Compliance Section  
Division of Water

ga  
Enclosure

Energy and Environment Cabinet  
Department for Environmental Protection  
Division of Water  
Wastewater Inspection Report

**AI ID:** 2987      **AI Type:** WATER-Public Water System (2213)  
**AI Name:** Martin Co Water District  
**AI Address:** 14 Flat Hollow  
**City:** Inez, **State:** Kentucky **Zip:** 41224  
**County:** Martin **Regional Office:** Hazard Regional Office  
**Latitude:** 37.878887 **Longitude:** -82.51889  
**Site Contact:** Mike Sartin  
**Title:** Operator      **Phone #:** 606-298-3885  
**Inspection Type:** WW CEI-DW Plt KYG64 **Activity #:** CIN20130003  
**Inspection Start Date:** September 23, 2013 **Time:** 09:45 AM **End Date:** September 23, 2013 **Time:** 10:30 AM  
**Site/Permit ID:** KYG640104  
**Lead DEP Investigator:** Robert Back

**General Comments:** On July 27, 2012 I conducted an Inspection on the backwash discharge from this facility. The water in the backwash lagoon was clear and not discharging at the time of the inspection. A 12 month DMR summary was conducted and revealed one TSS violation for the month of February 2013.

**Overall Compliance Status:** Out of Comp- Viol documented

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**Investigation Results**

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**SI:** AIOO2987

**SI Description:**

**Inspector Comment:**

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**Requirement:** Does the facility hold the proper KPDES permit for the filter backwash discharge(s) from their public or privately owned drinking water treatment plant? [401 KAR 5:055 Section 2]. [401 KAR 5:055 Section 2]

**Compliance Status:** C-No Violations observed

**Comment:** Yes KYG640104

---

**Requirement:** Does the permittee retain records of all monitoring information including: the date, exact place, and time of sampling or measurements; the name of the individual who performed the sampling or measurements; the dates and times analyses were performed; the name of the individual who performed the analyses; the analytical techniques or methods used; the results of the analyses; all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation; copies of all reports required by this permit; and records of all data used to complete the application for this permit, for the period required by the cabinet and at a minimum of at least three (3) years from the date of the sample, measurement, report, or application? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Has the permittee adequately developed a Best Management Practices Plan? [40 C.F.R. 122.41(a)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the BMP plan required by 401 KAR 5:065 Section 2(4) and Part IV Section A (5) of the facility's permit consistent with the general guidance contained in the publication entitled "NPDES Best Management Practices Guidance Document," to include the following baseline BMPs as a minimum:

- a. BMP Committee
  - b. Reporting of BMP Incidents
  - c. Risk Identification and Assessment
  - d. Employee Training
  - e. Inspections and Records
  - f. Preventative Maintenance
-

---

g. Good Housekeeping h. Materials Compatibility

i. Security j. Materials Inventory

If a BMP plan has not been developed, has the permittee demonstrated that the BMP requirements have been met by an existing plan? If all stormwater can not be diverted to a pit or sediment control structure, does the BMP plan address this runoff? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Has the permittee adequately implemented the BMP plan? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the facility required to prepare and implement a groundwater protection plan (GPP) as specified in regulation 401 KAR 5:037? If yes, does the facility have a GPP? [401 KAR 5:037 Section 3]. [401 KAR 5:037 Section 3]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the effluent in compliance with KPDES permit limitations? Do the Discharge Monitoring Reports indicate KPDES permit violations? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** D-Out of Compliance-Violations Documented

**Comment:** The facility has failed to comply with the effluent limitations contained in the permit. During the 12 month DMR review the facility exceeded TSS limits once in the month of February 2013.

---

**Requirement:** Are samples taken in compliance with the monitoring requirements and taken at the following location(s): nearest accessible point after final treatment, but prior to actual discharge or mixing with receiving waters? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Is the permittee reporting monitoring results to the cabinet at the intervals specified in the permit? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Is discharge being monitored, at the specified outfall(s)/monitoring point(s), for parameters specified in the facility's permit within the required timeframe? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

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**Requirement:** Are the monitoring results reported to the cabinet on a Discharge Monitoring Report (DMR)? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Did the facility notify the Division of Water by the most rapid means available whenever, by reason of emergency or accident, a spill or discharge occurs which results in pollution of the waters of the Commonwealth? [401 KAR 5:015 Section 2]. [401 KAR 5:015 Section 2]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the permittee in compliance for the reporting of spills, bypasses, and non-compliance according 401 KAR 5:065 Section 2(1). [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the facility being properly operated and maintained as specified in 401 KAR 5:065? This includes: (a) proper operation and maintenance of all facilities, systems of treatment and control, and related appurtenances which are installed or used by the permittee to achieve compliance with permit conditions;(b) proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures; (c) this provision also requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit;(d) is the cleaning frequency of lagoons adequate to ensure compliance with the facility permit? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

---

---

**Compliance Status:** C-No Violations observed

**Comment:**

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**Requirement:** Have pollutants entered the waters of the Commonwealth? [KRS 224.70-110], [KRS 224.70-110]

**Compliance Status:** C-No Violations observed

**Comment:**

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**Requirement:** Have surface waters been aesthetically or otherwise degraded? [401 KAR 10:031 Section 2], [401 KAR 10:031 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the permittee in compliance with all permit conditions? [401 KAR 5:065 Section 2(1)], [401 KAR 5:065 Section 2(1)]

**Compliance Status:** D-Out of Compliance-Violations Documented

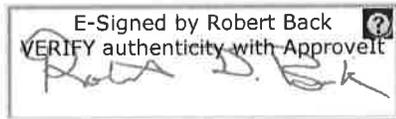
**Comment:** The facility has failed to comply with the terms of the permit. During the 12 month DMR review the facility exceeded TSS limits once in the month of February 2013.

---

**Documentation**

- |   |  |
|---|--|
| <input type="checkbox"/> <b>Photos taken</b>                        | <input type="checkbox"/> Record of visual determination of opacity |
| <input type="checkbox"/> <b>Documents obtained from facility</b>    | <input type="checkbox"/> <b>Samples taken by DEP</b>               |
| <input type="checkbox"/> <b>Samples taken by outside source</b>     | <input type="checkbox"/> Regional office instrument readings taken |
| <input type="checkbox"/> <b>Request for Submission of Documents</b> | <input checked="" type="checkbox"/> <b>Other documentation</b>     |

**Inspector:** Robert Back



**Date:** 09/26/13

**Delivery Method:** US Mail



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Division of Water  
233 Birch St  
Hazard, KY 417012115  
www.kentucky.gov

September 26, 2013

Martin Co Water District  
14 Flat Hollow  
Inez, Kentucky 41224

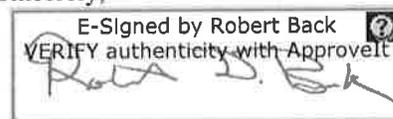
RE: Martin Co Water District -- 2987  
Permit No.: KYG640104  
Martin County, Kentucky  
Activity ID: CIN20130003

Dear Martin Co Water Dist:

Attached for your information and records is a copy of the WW CEI-DW Plt KYG64 performed at Martin Co Water District on September 23, 2013.

If you have any questions or comments concerning this inspection, please contact the Hazard Regional Office at: (606) 435-6022.

Sincerely,



Robert Back  
Environmental Inspector  
Hazard Regional Office  
Division of Water

RB  
Enclosure:

Energy and Environment Cabinet  
Department for Environmental Protection  
Division of Water  
Wastewater Inspection Report

**AI ID:** 2987      **AI Type:** WATER-Public Water System (2213)  
**AI Name:** Martin Co Water District  
**AI Address:** 14 Flat Hollow  
**City:** Inez, **State:** Kentucky **Zip:** 41224  
**County:** Martin **Regional Office:** Hazard Regional Office  
**Latitude:** 37.878887 **Longitude:** -82.51889  
**Site Contact:** Tom Alley  
**Title:** Operator **Phone #:** 606-298-3885  
**Inspection Type:** WW CEI-DW Plt KYG64 **Activity #:** CIN20140002  
**Inspection Start Date:** September 15, 2014 **Time:** 09:00 AM **End Date:** September 15, 2014 **Time:** 09:30 AM  
**Site/Permit ID:** KYG640104

**Lead DEP Investigator:** Robert Back  
**Persons Interviewed:** Tom Alley

**General Comments:** On September 15, 2014 I conducted an inspection on the backwash discharge from this facility. The water in the backwash lagoon was clear and not discharging at the time of the inspection. A 12 month DMR summary was conducted and no violations were found.  
**Overall Compliance Status:** No Violations Observed

---

**Investigation Results**

---

**SI:** AIOO2987

**SI Description:**

**Inspector Comment:**

---

**Requirement:** Does the facility hold the proper KPDES permit for the filter backwash discharge(s) from their public or privately owned drinking water treatment plant? [401 KAR 5:055 Section 2]. [401 KAR 5:055 Section 2]

**Compliance Status:** C-No Violations observed

**Comment:** Yes KYG640104

---

**Requirement:** Does the permittee retain records of all monitoring information including: the date, exact place, and time of sampling or measurements; the name of the individual who performed the sampling or measurements; the dates and times analyses were performed; the name of the individual who performed the analyses; the analytical techniques or methods used; the results of the analyses; all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation; copies of all reports required by this permit; and records of all data used to complete the application for this permit, for the period required by the cabinet and at a minimum of at least three (3) years from the date of the sample, measurement, report, or application? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Has the permittee adequately developed a Best Management Practices Plan? [40 C.F.R. 122.41(a)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the BMP plan required by 401 KAR 5:065 Section 2(4) and Part IV Section A (5) of the facility's permit consistent with the general guidance contained in the publication entitled "NPDES Best Management Practices Guidance Document," to include the following baseline BMPs as a minimum:

- a. BMP Committee
  - b. Reporting of BMP Incidents
-

- 
- c. Risk Identification and Assessment
  - d. Employee Training
  - e. Inspections and Records
  - f. Preventative Maintenance
  - g. Good Housekeeping
  - h. Materials Compatibility
  - i. Security
  - j. Materials Inventory

If a BMP plan has not been developed, has the permittee demonstrated that the BMP requirements have been met by an existing plan? If all stormwater can not be diverted to a pit or sediment control structure, does the BMP plan address this runoff? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Has the permittee adequately implemented the BMP plan? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the facility required to prepare and implement a groundwater protection plan (GPP) as specified in regulation 401 KAR 5:037? If yes, does the facility have a GPP? [401 KAR 5:037 Section 3]. [401 KAR 5:037 Section 3]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the effluent in compliance with KPDES permit limitations? Do the Discharge Monitoring Reports indicate KPDES permit violations? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Are samples taken in compliance with the monitoring requirements and taken at the following location(s): nearest accessible point after final treatment, but prior to actual discharge or mixing with receiving waters? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Is the permittee reporting monitoring results to the cabinet at the intervals specified in the permit? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Is discharge being monitored, at the specified outfall(s)/monitoring point(s), for parameters specified in the facility's permit within the required timeframe? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Are the monitoring results reported to the cabinet on a Discharge Monitoring Report (DMR)? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Did the facility notify the Division of Water by the most rapid means available whenever, by reason of emergency or accident, a spill or discharge occurs which results in pollution of the waters of the Commonwealth? [401 KAR 5:015 Section 2]. [401 KAR 5:015 Section 2]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the permittee in compliance for the reporting of spills, bypasses, and non-compliance according 401 KAR 5:065 Section 2(1). [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the facility being properly operated and maintained as specified in 401 KAR 5:065? This includes: (a) proper operation and maintenance of all facilities, systems of treatment and control, and related appurtenances which are installed or used by the permittee to achieve compliance with permit conditions; (b) proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures; (c) this provision also requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit; (d) is the cleaning frequency of lagoons adequate to ensure compliance with the facility permit? [401 KAR 5:065 Section 2(1)].

---

[401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Have pollutants entered the waters of the Commonwealth? [KRS 224.70-110]. [KRS 224.70-110]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Have surface waters been aesthetically or otherwise degraded? [401 KAR 10:031 Section 2]. [401 KAR 10:031 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the permittee in compliance with all permit conditions? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Documentation**

- Photos taken
- Documents obtained from facility
- Samples taken by outside source
- Request for Submission of Documents

- Record of visual determination of opacity
- Samples taken by DEP
- Regional office instrument readings taken
- Other documentation

**Inspector:** Robert Back



**Date:** 09/24/14

**Received By:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Delivery Method:** US Mail



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

ENERGY AND ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Division of Water  
233 Birch St  
Hazard, KY 417012115  
www.kentucky.gov

September 24, 2014

Martin Co Water District  
14 Flat Hollow  
Inez, Kentucky 41224

RE: Martin Co Water District -- 2987  
Permit No.: KYG640104  
Martin County, Kentucky  
Activity ID: CIN20140002

Dear Martin Co Water Dist:

Attached for your information and records is a copy of the WW CEI-DW Plt KYG64 performed at Martin Co Water District on September 15, 2014.

If you have any questions or comments concerning this inspection, please contact the Hazard Regional Office at: (606) 435-6022.

Sincerely,

Robert Back  
Environmental Inspector  
Hazard Regional Office  
Division of Water

RB  
Enclosure:

STEVEN L. BESHEAR  
GOVERNOR



LEONARD K. PETERS  
SECRETARY

ENERGY AND ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
200 FAIR OAKS LANE, 4TH FLOOR  
FRANKFORT, KENTUCKY 40601  
[www.kentucky.gov](http://www.kentucky.gov)

**ROUTINE INSPECTION REPORT FOR  
DAM AND APPURTENANT WORKS**

**Note:** The Division of Water does not intend this report to be taken as an assurance that no other problems exist at this site or that this dam is safe. The reports sole intent is to provide you a factual account of the conditions observed at the site during the inspection. If you have questions, write this office at the above listed address or call (502) 564-3410.

**Inspection Date:** May 6, 2015  
**Persons Present at Inspection:** Gary Wells, Ron Gruzesky, Batnyagmar Dashbold  
**Weather:** Sunny, 80 Deg

**ID of Dam:** 0106  
**Name of Dam:** MARTIN CO WATER DIST NO 1 DAM  
**Agency Interest:** 2987  
**County:** Martin  
**Latitude Dec Deg:** 37.878887  
**Longitude Dec Deg:** -82.51889

**Contact:** John Mills, Superintendent  
**Owner:** Martin County Water District  
**Address:** 387 E. Main Street, STE 140  
**City:** Inez  
**State:** KY  
**Zip:** 41224  
**Phone:** 606-298--3885

<b>Hazard</b>	HIGH
<b>Height of Dam (ft)</b>	66 feet
<b>Type of Dam</b>	ZONED EARTHFILL DAM ABOUT 410' LONG WITH A TOP WIDTH OF 20 FEET. RIPRAP FROM ELEVATION 700 UP ON WET SIDE. NO BERMS. SIDE SLOPES ARE BOTH 3 1/2:1.
<b>Top of Dam (ft MSL)</b>	731.5
<b>Max. Surface Area (ac)</b>	27.5
<b>Max. Volume (ac ft)</b>	800
<b>Required Overtop Storm (in)</b>	28.2
<b>Actual Overtop Storm (in)</b>	28.2
<b>Principal Spillway</b>	24 INCH PIPE LOCATED IN THE AREA OF THE EMERGENCY SPILLWAY, ELEVATION OF 722.0 MSL
<b>Normal Pool Elevation (ft MSL)</b>	722
<b>Current Pool Elevation (ft MSL)</b>	712
<b>Emergency Spillway</b>	OGEE WEIR WITH CREST AT 722.0. SIDE SLOPES VARY DEPENDING ON MATERIAL, SEE PLAN VIEW. WEIR LENGTH IS 110 FEET. BOTTOM WIDTH OF OUTLET CHANNEL VARIES. OUTLET SLOPE IS ABOUT 3.0 PERCENT.
<b>Emer. Spillway Elevation (ft MSL)</b>	722
<b>Location of Drawdown Valve</b>	At end of platform on top of concrete tower are three valves; one was open
<b>Last Date of Operation</b>	5-6-15 - Water is gravity fed to the water treatment plant.

**Routine Inspection Report**

**KY ID:** 0106

**Inspection Date:** May 6, 2015

**Upstream Slope of Dam:** The upstream slope has a tall grass and needs mowing. The lower portion of the slope is bare below the normal pool line.

**Crest of Dam:** The crest has a tall grass cover and needs mowing. Ruts from vehicle tracks were noted. There were no signs of embankment instability problems. No animal burrows, slides, slumps, or anomalies in the alignment were noted.

**Downstream Slope of Dam:** The downstream slope has a tall grass and needs mowing. Vehicle tracks were present on the slope. As owner of the dam it is your statutory responsibility to maintain the structure such that a visual inspection can easily be performed.

**Toe Drains:** This structure does not have toe drains.

**Principal Spillway Comment:** The principal spillway inlet is obstructed with debris. Tall weeds and leaves were noted around the inlet. The outlet is clear.

**Stilling Basin:** This structure does not have a stilling basin.

**Emergency Spillway Comments:** The emergency spillway weir and concrete are in good condition. Large rock boulders had fallen in the spillway. Some trees and brush were in the outlet channel and needs to be removed.

**Drawdown System:** Lake water is gravity fed into the water plant. There are no pumps. Three valves are found on the platform extending into the lake and may be for intakes at three different water levels. One of the valves was open.

**Does Hazard Classification need to be Reevaluated?** This structure is currently classified high hazard. It does not need to be reclassified. The lake is the only water supply for 3,500 customers in Martin County.

**Hydraulic Capacity:** This structure is hydraulically compliant. FBH = 28.2 inches and does meet the minimum criteria for a high hazard dam.

**General Comments and Recommendations:**

Overall, the structure is in fair condition. The entire structure must be mowed. The area around the principal spillway inlet must be cleared. The rocks in the emergency spillway outlet must be removed. The vehicle tracks on the upstream slope and crest must be reseeded. Vehicles must be kept off the dam. The emergency spillway outlet channel must be cleared of brush and trees.



**Inspector:**

Gary Wells

**Date:**

5-7-15

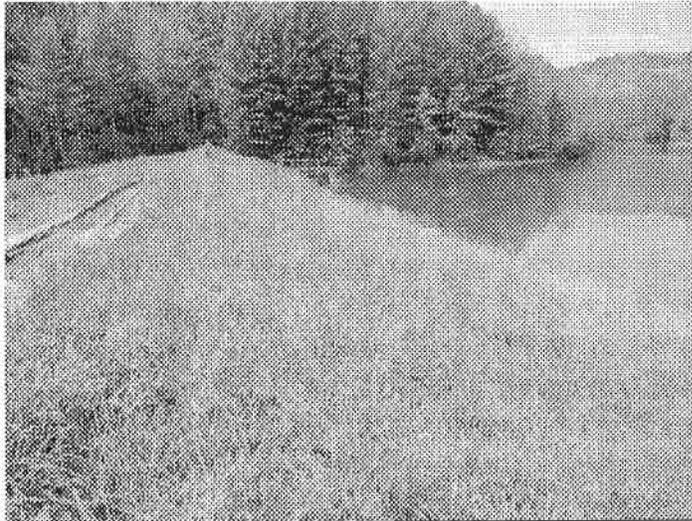
**Reviewer:**

Gary Wells, PE

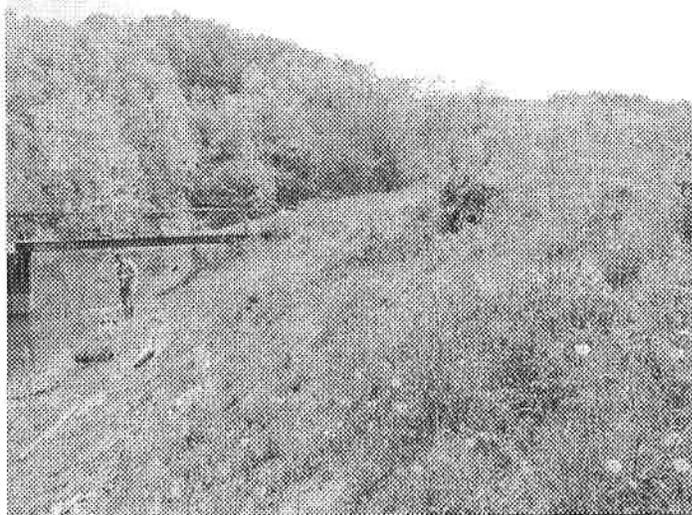
**Routine Inspection Report Photo Log**

**KY ID:** 0106

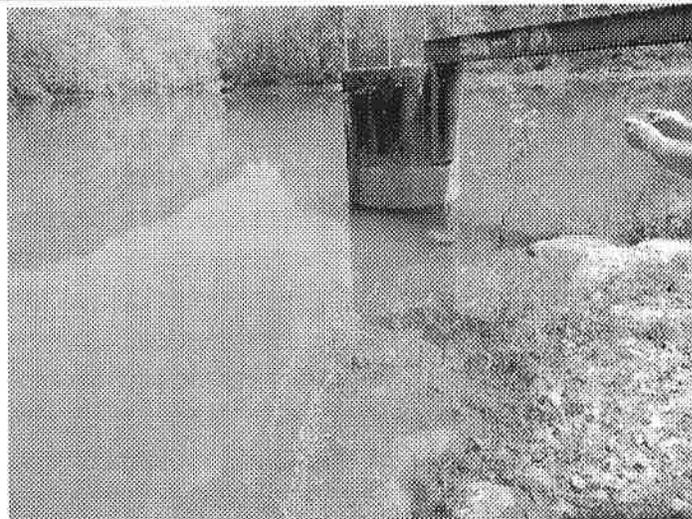
**Inspection Date:** May 6, 2015



Upstream



Upstream



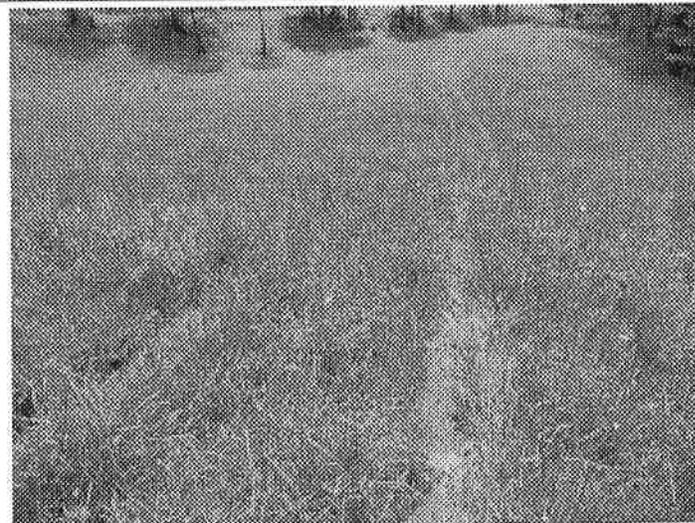
Water intake



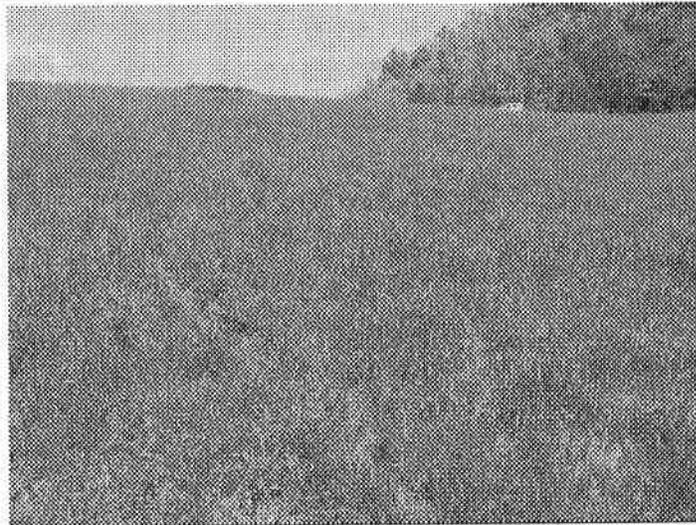
Crest



Crest



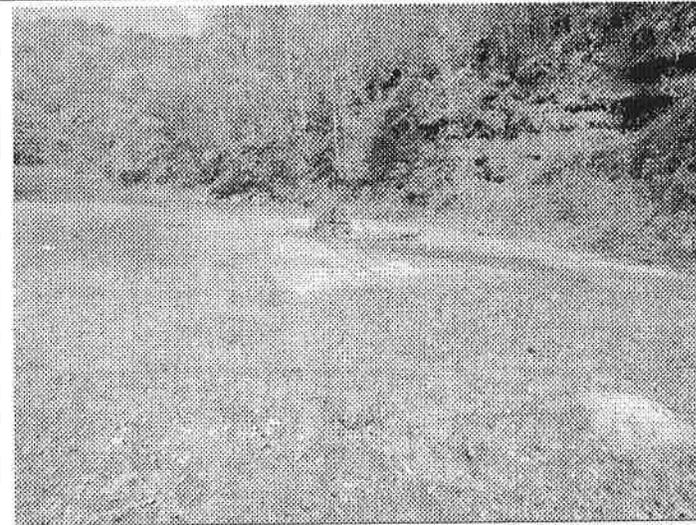
Vehicle tracks on downstream slope



Tire marks



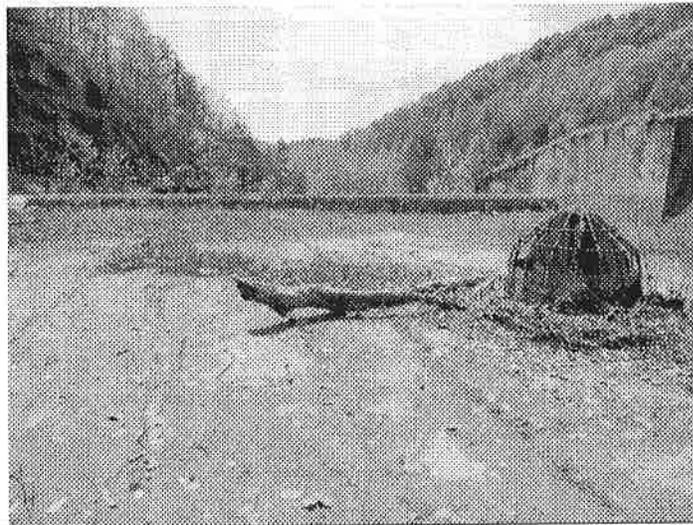
Downstream slope



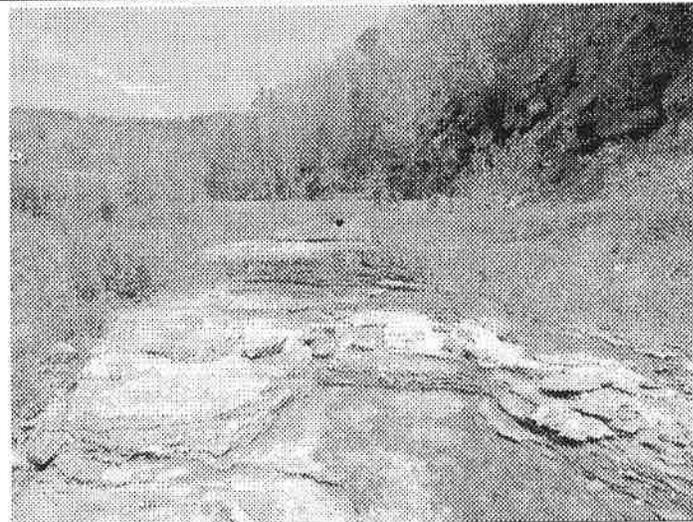
Emergency spillway inlet



Principal spillway in emergency spillway



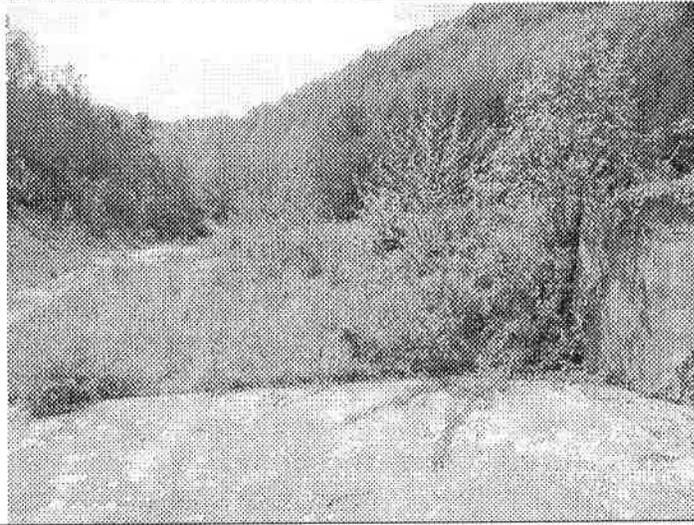
Emergency spillway



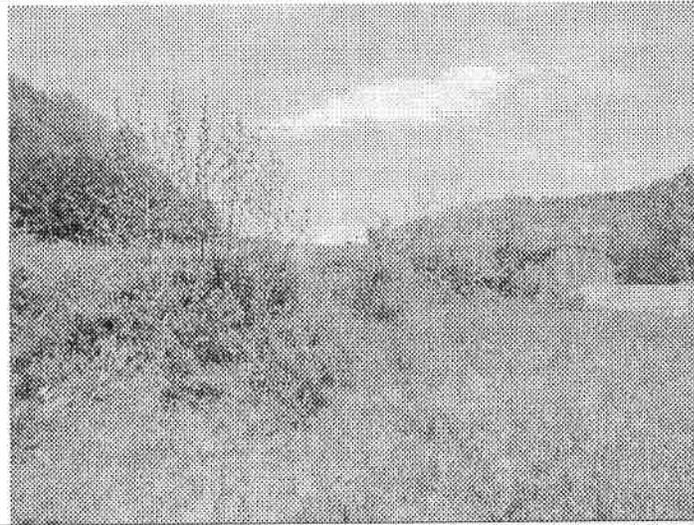
Emergency spillway outlet



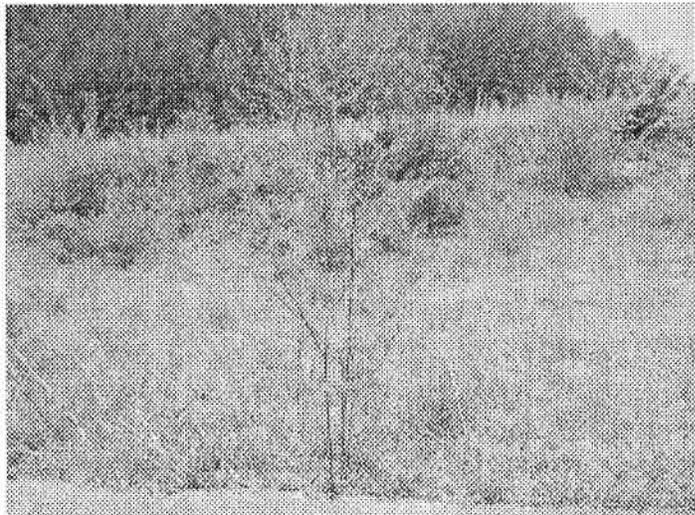
Cracking and spalling



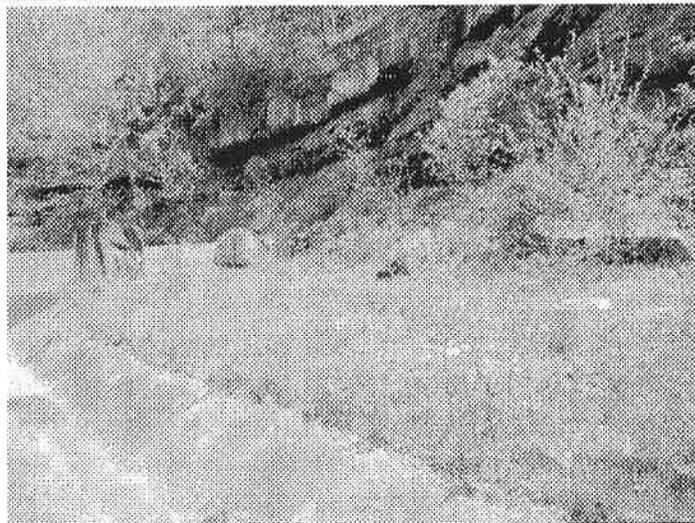
Trees in emergency spillway



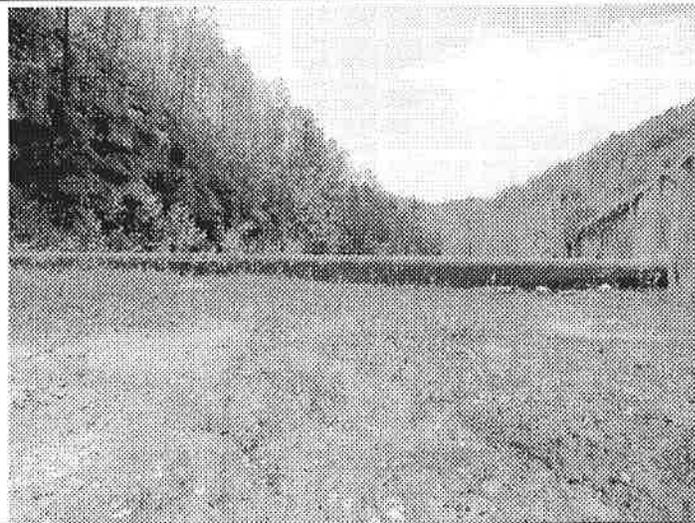
Trees in emergency spillway



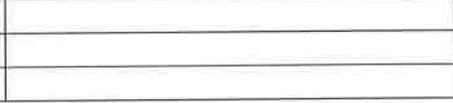
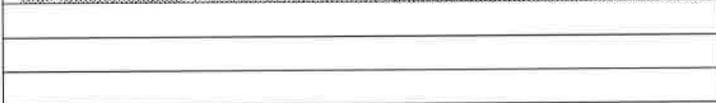
Trees in emergency spillway



Large boulders lie in the spillway



Ogee weir



STEVEN L. BESHEAR  
GOVERNOR



LEONARD K. PETERS  
SECRETARY

## ENERGY AND ENVIRONMENT CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
200 FAIR OAKS LANE, 4TH FLOOR  
FRANKFORT, KENTUCKY 40601  
[www.kentucky.gov](http://www.kentucky.gov)

### ROUTINE INSPECTION REPORT FOR DAM AND APPURTENANT WORKS

**Note:** The Division of Water does not intend this report to be taken as an assurance that no other problems exist at this site or that this dam is safe. The reports sole intent is to provide you a factual account of the conditions observed at the site during the inspection. If you have questions, write this office at the above listed address or call (502) 564-3410.

**Inspection Date:** May 6, 2015  
**Persons Present at Inspection:** Gary Wells, Ron Gruzsky, Batmyagmar Dashbold  
**Weather:** Sunny, 80 Deg

**ID of Dam:** 0106  
**Name of Dam:** MARTIN CO WATER DIST NO 1 DAM  
**Agency Interest:** 2987  
**County:** Martin  
**Latitude Dec Deg:** 37.878887  
**Longitude Dec Deg:** -82.51889

**Contact:** John Mills, Superintendent  
**Owner:** Martin County Water District  
**Address:** 387 E. Main Street, STE 140  
**City:** Inez  
**State:** KY  
**Zip:** 41224  
**Phone:** 606-298--3885

<b>Hazard</b>	HIGH
<b>Height of Dam (ft)</b>	66 feet
<b>Type of Dam</b>	ZONED EARTHFILL DAM ABOUT 410' LONG WITH A TOP WIDTH OF 20 FEET. RIPRAP FROM ELEVATION 700 UP ON WET SIDE. NO BERMS. SIDE SLOPES ARE BOTH 3 1/2:1.
<b>Top of Dam (ft MSL)</b>	731.5
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<b>Emer. Spillway Elevation (ft MSL)</b>	722
<b>Location of Drawdown Valve</b>	At end of platform on top of concrete tower are three valves; one was open
<b>Last Date of Operation</b>	5-6-15 - Water is gravity fed to the water treatment plant.

**Routine Inspection Report**

**KY ID:** 0106

**Inspection Date:** May 6, 2015

**Upstream Slope of Dam:** The upstream slope has a tall grass and needs mowing. The lower portion of the slope is bare below the normal pool line.

**Crest of Dam:** The crest has a tall grass cover and needs mowing. Ruts from vehicle tracks were noted. There were no signs of embankment instability problems. No animal burrows, slides, slumps, or anomalies in the alignment were noted.

**Downstream Slope of Dam:** The downstream slope has a tall grass and needs mowing. Vehicle tracks were present on the slope. As owner of the dam it is your statutory responsibility to maintain the structure such that a visual inspection can easily be performed.

**Toe Drains:** This structure does not have toe drains.

**Principal Spillway Comment:** The principal spillway inlet is obstructed with debris. Tall weeds and leaves were noted around the inlet. The outlet is clear.

**Stilling Basin:** This structure does not have a stilling basin.

**Emergency Spillway Comments:** The emergency spillway weir and concrete are in good condition. Large rock boulders had fallen in the spillway. Some trees and brush were in the outlet channel and needs to be removed.

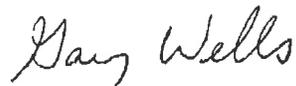
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**Does Hazard Classification need to be Reevaluated?** This structure is currently classified high hazard. It does not need to be reclassified. The lake is the only water supply for 3,500 customers in Martin County.

**Hydraulic Capacity:** This structure is hydraulically compliant. FBH = 28.2 inches and does meet the minimum criteria for a high hazard dam.

**General Comments and Recommendations:**

Overall, the structure is in fair condition. The entire structure must be mowed. The area around the principal spillway inlet must be cleared. The rocks in the emergency spillway outlet must be removed. The vehicle tracks on the upstream slope and crest must be reseeded. Vehicles must be kept off the dam. The emergency spillway outlet channel must be cleared of brush and trees.



**Inspector:** Gary Wells

**Date:** 5-7-15

**Reviewer:** Gary Wells, PE

**Routine Inspection Report Photo Log**  
**KY ID: 0106**  
**Inspection Date: May 6, 2015**



Upstream



Upstream



Water intake



Crest



Crest



Vehicle tracks on downstream slope



Tire marks



Downstream slope



Emergency spillway inlet



Principal spillway in emergency spillway



Emergency spillway



Emergency spillway outlet



Cracking and spalling



Trees in emergency spillway



Trees in emergency spillway



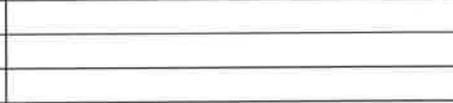
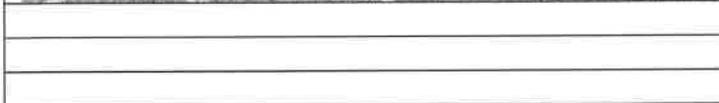
Trees in emergency spillway



Large boulders lie in the spillway



Ogee weir





STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

200 FAIR OAKS LANE, 4TH FLOOR

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[www.kentucky.gov](http://www.kentucky.gov)

May 7, 2015

John Mills, Superintendent  
Martin County Water District  
387 E. Main Street, STE 140  
Inez, KY 41224

RE: Scheduled Inspection  
ID of Dam: 0106  
MARTIN CNTY WATER DIST NO 1 DAM  
Martin County, KY  
Hazard Class: HIGH  
Agency Interest: 2987  
Activity: CIN20150001

Dear Mr. Mills:

The Division of Water is responsible for performing safety inspections of dams in Kentucky. Kentucky Revised Statutes Chapter 151 (KRS 151) and associated regulations establish minimum maintenance and design criteria for dams. KRS 151.125 gives the Division of Water authority to require any measures necessary to bring the dam into compliance with statutes and regulations.

As the owner you are required to maintain the dam to assure public safety. On May 6, 2015, personnel from the Energy and Environment Cabinet, Division of Water, inspected the above referenced structure. A copy of the inspection report is enclosed. Based on our visual inspection of the dam, the following deficiencies need to be corrected:

- Mow the entire structure.
- Clear away the debris from the principal inlet.
- Remove the trees and heavy brush in the emergency spillway and rock boulders.
- Reseed the vehicle tracks on the downstream slope and crest. Keep vehicles off of the structure.

STEVEN L. BESHEAR  
GOVERNOR



LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

200 FAIR OAKS LANE, 4TH FLOOR

FRANKFORT, KENTUCKY 40601

[www.kentucky.gov](http://www.kentucky.gov)

If you have any questions concerning this matter, please contact Gary Wells, PE at (502) 564-3410.

Sincerely,

A handwritten signature in black ink, appearing to read "R.D. Gruzesky".

**Ron Gruzesky, P.E.**  
Dam Safety and Floodplain Compliance Section  
Division of Water

gw  
Enclosure

STEVEN L. BESHEAR  
GOVERNOR



LEONARD K. PETERS  
SECRETARY

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May 7, 2015

John Mills, Superintendent  
Martin County Water District  
387 E. Main Street, STE 140  
Inez, KY 41224

RE: Scheduled Inspection  
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Martin County, KY  
Hazard Class: HIGH  
Agency Interest: 2987  
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As the owner you are required to maintain the dam to assure public safety. On May 6, 2015, personnel from the Energy and Environment Cabinet, Division of Water, inspected the above referenced structure. A copy of the inspection report is enclosed. Based on our visual inspection of the dam, the following deficiencies need to be corrected:

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STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
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If you have any questions concerning this matter, please contact Gary Wells, PE at (502) 564-3410.

Sincerely,

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**Ron Gruzesky, P.E.**  
Dam Safety and Floodplain Compliance Section  
Division of Water

gw  
Enclosure

Energy and Environment Cabinet  
Department for Environmental Protection  
Division of Water  
Wastewater Inspection Report

**AI ID:** 2987      **AI Type:** WATER-Public Water System (2213)  
**AI Name:** Martin Co Water District  
**AI Address:** 14 Flat Hollow  
**City:** Inez, **State:** Kentucky **Zip:** 41224  
**County:** Martin **Regional Office:** Hazard Regional Office  
**Latitude:** 37.878887 **Longitude:** -82.51889  
**Site Contact:** Tom Alley  
**Title:** Operator  
**Inspection Type:** WW CEI-DW Plt KYG64 **Activity #:** CIN20150003  
**Inspection Start Date:** 9/15/15 **Time:** 09:05 AM **End Date:** 9/15/15 **Time:** 09:30 AM  
**Site/Permit ID:** KYG640104  
**Lead DEP Investigator:** Robert Back  
**Persons Interviewed:** Tom Alley  
**General Comments:** On September 15, 2015 I conducted an Inspection on the backwash discharge from this facility. The water in the backwash lagoon was clear and not discharging at the time of the inspection. A 12 month DMR summary was conducted and no violations were found.  
**Overall Compliance Status:** No Violations Observed

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**Investigation Results**

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**SI:** AIOO2987

**SI Description:**

**Inspector Comment:**

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**Requirement:** Does the facility hold the proper KPDES permit for the filter backwash discharge(s) from their public or privately owned drinking water treatment plant? [401 KAR 5:055 Section 2]. [401 KAR 5:055 Section 2]

**Compliance Status:** C-No Violations observed

**Comment:** Yes KYG640104

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**Requirement:** Does the permittee retain records of all monitoring information including: the date, exact place, and time of sampling or measurements; the name of the individual who performed the sampling or measurements; the dates and times analyses were performed; the name of the individual who performed the analyses; the analytical techniques or methods used; the results of the analyses; all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation; copies of all reports required by this permit; and records of all data used to complete the application for this permit, for the period required by the cabinet and at a minimum of at least three (3) years from the date of the sample, measurement, report, or application? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

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**Requirement:** Has the permittee adequately developed a Best Management Practices Plan? [40 C.F.R. 122.41(a)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the BMP plan required by 401 KAR 5:065 Section 2(4) and Part IV Section A (5) of the facility's permit consistent with the general guidance contained in the publication entitled "NPDES Best Management Practices Guidance Document," to include the following baseline BMPs as a minimum:

- a. BMP Committee
  - b. Reporting of BMP Incidents
  - c. Risk Identification and Assessment
  - d. Employee Training
  - e. Inspections and Records
  - f. Preventative Maintenance
  - g. Good Housekeeping
  - h. Materials Compatibility
-

---

i. Security j. Materials Inventory

If a BMP plan has not been developed, has the permittee demonstrated that the BMP requirements have been met by an existing plan? If all stormwater can not be diverted to a pit or sediment control structure, does the BMP plan address this runoff? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

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**Requirement:** Has the permittee adequately implemented the BMP plan? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

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**Requirement:** Is the facility required to prepare and implement a groundwater protection plan (GPP) as specified in regulation 401 KAR 5:037? If yes, does the facility have a GPP? [401 KAR 5:037 Section 3]. [401 KAR 5:037 Section 3]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the effluent in compliance with KPDES permit limitations? Do the Discharge Monitoring Reports indicate KPDES permit violations? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

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**Requirement:** Are samples taken in compliance with the monitoring requirements and taken at the following location(s): nearest accessible point after final treatment, but prior to actual discharge or mixing with receiving waters? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Is the permittee reporting monitoring results to the cabinet at the intervals specified in the permit? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

---

**Requirement:** Is discharge being monitored, at the specified outfall(s)/monitoring point(s), for parameters specified in the facility's permit within the required timeframe? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

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**Requirement:** Are the monitoring results reported to the cabinet on a Discharge Monitoring Report (DMR)? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:** Yes

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**Requirement:** Did the facility notify the Division of Water by the most rapid means available whenever, by reason of emergency or accident, a spill or discharge occurs which results in pollution of the waters of the Commonwealth? [401 KAR 5:015 Section 2]. [401 KAR 5:015 Section 2]

**Compliance Status:** C-No Violations observed

**Comment:**

---

**Requirement:** Is the permittee in compliance for the reporting of spills, bypasses, and non-compliance according 401 KAR 5:065 Section 2(1). [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

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**Requirement:** Is the facility being properly operated and maintained as specified in 401 KAR 5:065? This includes: (a) proper operation and maintenance of all facilities, systems of treatment and control, and related appurtenances which are installed or used by the permittee to achieve compliance with permit conditions;(b) proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures; (c) this provision also requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit;(d) is the cleaning frequency of lagoons adequate to ensure compliance with the facility permit? [401 KAR 5:065 Section 2(1)]. [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

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**Requirement:** Have pollutants entered the waters of the Commonwealth? [KRS 224.70-110], [KRS 224.70-110]

**Compliance Status:** C-No Violations observed

**Comment:**

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**Requirement:** Have surface waters been aesthetically or otherwise degraded? [401 KAR 10:031 Section 2], [401 KAR 10:031 Section 2(1)]

**Compliance Status:** C-No Violations observed

**Comment:**

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**Requirement:** Is the permittee in compliance with all permit conditions? [401 KAR 5:065 Section 2(1)], [401 KAR 5:065 Section 2(1)]

**Compliance Status:** C-No Violations observed

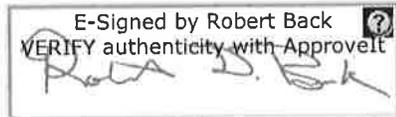
**Comment:**

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**Documentation**

- |  |  |
|--|--|
| <input type="checkbox"/> Photos taken                        | <input type="checkbox"/> Record of visual determination of opacity |
| <input type="checkbox"/> Documents obtained from facility    | <input type="checkbox"/> Samples taken by DEP                      |
| <input type="checkbox"/> Samples taken by outside source     | <input type="checkbox"/> Regional office instrument readings taken |
| <input type="checkbox"/> Request for Submission of Documents | <input checked="" type="checkbox"/> Other documentation            |

**Inspector:** Robert Back



**Date:** 09/21/15

**Delivery Method:** US Mail



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Division of Water  
233 Birch St  
Hazard, KY 417012115  
www.kentucky.gov

September 21, 2015

Martin Co Water District  
14 Flat Hollow  
Inez, Kentucky 41224

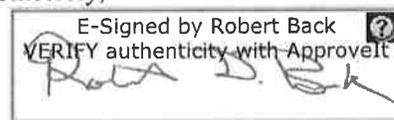
RE: Martin Co Water District -- 2987  
Permit No.: KYG640104  
Martin County, Kentucky  
Activity ID: CIN20150003

Dear Martin Co Water Dist:

Attached for your information and records is a copy of the WW CEI-DW Plt KYG64 performed at Martin Co Water District on September 15, 2015.

If you have any questions or comments concerning this inspection, please contact the Hazard Regional Office at: (606) 435-6022.

Sincerely,



Robert Back  
Environmental Inspector  
Hazard Regional Office  
Division of Water

RB  
Enclosure: