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RECEIVED
FEB 27 2020
PUBLIC SERVICE COMMISSION

February 27, 2020

Kent Chandler
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, KY 40602-0615

RE: South Eastern Water Association: Case 2020-00049

Dear Mr. Chandler:

At the request of the staff, the attached information about the Association's water usage for system flushing as reported in its 2018 Annual Report is provided. The water usage is related to flushing of mains subsequent to leak repairs and Stage 2 water quality compliance.

If there are any questions about this matter, please contact me.

Sincerely,

John N. Hughes

John N. Hughes
Attorney for SEWA

SWA PWSID KY1000311
FLUSH LOG 2018
January 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of Leak(min)	Repaired By	Remedy	Route	Est. Loss (Gals.)	CL2
mth	flush freeze hi bridge		3/4 in	30	44640				1,339,200	1.3
mth	us 27 bridge		3/4 in	30	44640				1,339,200	1.3
mth	us 27 bridge		3/4 in	30	44640				1,339,200	1.1
mth	dahl bridge		3/4 in	15	44640				669,600	1.2
mth	keno		3/4 in	30	44640				1,339,200	1.2
mth	cabin hollow bridge		3/4 in	30	44640				1,339,200	1.5
	hwy 70		6 in	500	1440				720,000	1.4
	hwy 39		12 in	750	1440				1,080,000	1.1
	hwy 39		6	550	180				99,000	1.2
	hwy 1675		6	450	320				144,000	1
	jasper		6	200	1440				288,000	1
	dix bnd		6	450	320				144,000	1.4
	b burg rd		6	350	450				157,500	1.3
	hwy 80		6	250	1440				360,000	1.2
	hwy 80		6	400	360				144,000	1.2
									0	
									0	
									0	
									0	
									0	
									0	
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									0	
								Total	10,502,100	

SWA PWSID KY1000311
FLUSH LOG 2018

Feb 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of Leak (min)	Repaired By	Remedy	Route	Est. Loss (Gals.)	CL2
mth	flush freeze hi bridge		3/4 in	30	44640				1,339,200	1.5
mth	us 27 bridge		3/4 in	30	44640				1,339,200	1.4
mth	us 27 bridge		3/4 in	30	44640				1,339,200	1.4
mth	dahl bridge		3/4 in	15	44640				669,600	1.2
mth	keno		3/4 in	30	44640				1,339,200	1.1
mth cabin hollow bridge			3/4 in	30	44640				1,339,200	1.5
	hwy 70		6 in	500	1440				720,000	1.3
	hwy 39		12 in	750	1440				1,080,000	1.2
	HWY 70		6	500	360				180,000	1.5
	Paradice acers		4	350	1440				504,000	1.4
	Paradice acers		6in	550	240				132,000	1.2
	Paradice acers		6in	550	240				132,000	1.2
	jasper bnd		6in	600	240				144,000	1.3
	jasper bnd		6in	600	360				216,000	1.4
	jasper bnd		6in	600	180				108,000	1.1
	jasper bnd		6in	500	360				180,000	1.5
									0	
									0	
									0	
									0	
									0	
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									0	
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									0	
									0	
								Total	10,761,600	

SWA PWSID KY1000311
FLUSH LOG 2018

March 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of Leak (min)	Repaired By	Remedy	Route	Est. Loss (Gals.)	CL2
	HWY 70 WEST		6	500	180				90,000	1.3
	LIBERTY RD		4	250	360				90,000	1.2
	US 27 SOUTH		8	850	240				204,000	1.2
	KENO RD		6	450	360				162,000	1.4
	BLUE JOHN RD		6	500	480				240,000	1.4
	JASPER BND		6	500	480				240,000	1.4
	JASPER BND		4	250	480				120,000	1.5
	RT 8	6	8	500	360				180,000	1.4
	B BURG RD		6	500	420				210,000	1.5
	ANO RD		4	250	180				45,000	1.3
	LAKE SHORE DR		6	500	240				120,000	1.1
	LAKE SHORE DR		8	850	240				204,000	1.2
	US 2227		6	500	360				180,000	1.4
	HWY 914		8	500	480				240,000	1.3
	NORTH 70		12	850	1440				1,224,000	1.2
	NORTH 70		8	650	1440				936,000	1.2
	JASPER BND		6	500	1440				720,000	1.1
	PARADICE ACERS		6	500	1440				720,000	1.3
	HWY 1643		4	300	360				108,000	1
	HWY 739		6	500	720				360,000	1.5
	HWY 39		12	850	1440				1,224,000	1.2
	HWY 39		6	500	720				360,000	1.4
	JASPER BND		6	500	1440				720,000	1.5
	JASPER BND		6	500	1440				720,000	1.6
									0	
									0	
									0	
									0	
									0	
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									0	
								Total	9,417,000	

SWA PWSID KY1000311
FLUSH LOG 2018

April 2018

Date	Location	Reported By	Line Size	Est. GPM	Duration of FLUSH (min)	Valve Ex. Rt	Remedy	Route	Est. Loss (Gals.)	FREE CL2
	PINEY GR RD		4 IN	100	45	6		5	4,500	1.4
	PARADICE RD		6 IN	200	60	14		16	12,000	1.1
	DIAMOND ACE		4 IN	250	60	11		17	15,000	1.2
	JASPER BND		6 IN	500	45	21		17	22,500	1.2
	HWY 328 RT11		4 IN	300	150	5		11	45,000	1.3
	HWY 192		4 IN	60	200	8		5	12,000	1.4
	MT VICT AREA		4 IN	300	250	21		34	75,000	1.3
	JASPER BND		6 IN	500	1440	14		17	720,000	1.2
	B O L		4 IN	250	300	9		16	75,000	1.5
	WHITE RD		4 IN	125	1440	2		1	180,000	1.6
	US 27 Tatev		6 IN	1100	360	17			396,000	1.6
									0	
	RT-30		4	250	960	18			240,000	1.6
	RT-31		6	500	960	12			480,000	1.2
	RT-32		6	500	960	16			480,000	1.4
	RT-33		4	250	960	9			240,000	1.5
	RT-34		4	250	960	11			240,000	1.2
	RT-35		4	250	960	18			240,000	1.4
	RT-36		4	250	960	21			240,000	1.1
	RT-39		4	250	960	13			240,000	1
	RT--40		4	250	960	16			240,000	1.4
	RT-130		6	500	960	21			480,000	1.3
	RT-131		4	250	960	14			240,000	1.2
	RT-132								0	
									0	
	RT-8		12	850	960	6			816,000	1.4
	RT-9		12	850	960	4			816,000	1.6
	RT-10		8	650	960	7			624,000	1.3
	RT-11		6	500	960	14			480,000	1.5
	RT-12		12	850	960	11			816,000	1.6
			0						0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
								Total	8,464,500	

SWA PWSID KY1000311
FLUSH LOG 2018

May 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of flush (min)	Valve Ex Rt	Remedy	Route	Est. Loss (Gals.)	CL2
	blue john		6	400	300	11			120,000	1.55
	dix bend		6	400	240	6			96,000	1.42
	jasper bnd		6	600	240	12			144,000	1.42
	jasper bnd		6	600	360	14			216,000	1.42
	jasper bnd		4	250	240	9			60,000	1.33
	jasper bnd		4	250	160	8			40,000	1.21
	jasper bnd		4	250	120	7			30,000	1.1
	paradice acers		6	500	120	8			60,000	1.62
	paradice acers		6	500	120	11			60,000	1.45
	paradice acers		4	250	60	14			15,000	1.21
	paradice acers		4	250	120	11			30,000	1.25
	paradice acers		4	250	120	9			30,000	1.12
	hyw 39		8	850	60	16			51,000	1.42
	hyw 39		8	850	240	12			204,000	1.43
	hyw 39		6	500	360	14			180,000	1.52
	hyw 39		6	500	120	9			60,000	1.31
	hyw 39		6	500	120	8			60,000	1.43
	RT-2		8	850	960	5			816,000	1.6
	RT-3		6	600	960	6			576,000	1.2
	RT-4		6	600	960	9			576,000	1.1
	RT-5		4	300	960	17			288,000	1.3
	RT-45		6	500	960	7			480,000	1.4
									0	
	RT-1		8	850	960	11			816,000	1.2
	RT-6		6	500	960	19			480,000	1.1
	RT-7		8	850	960	21			816,000	1.2
	RT-13		8	850	960	12			816,000	1.4
	RT-14		8	850	960	17			816,000	1.3
	RT-16		8	850	960	23			816,000	1.2
	RT-17		8	850	960	19			816,000	1.4
									0	
									0	
									0	
									0	
									0	
									0	
									0	
								Total	9,568,000	

SWA PWSID KY1000311
FLUSH LOG 2018

June 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of Leak (min)	Repaired By	Remedy	cl2	Est. Loss (Gals.)
	jasper bnd		6	550	240			1.3	132,000
	jasper bnd		4	300	240			1.1	72,000
	hwy 1643		4	250	360			1.4	90,000
	hwy 1675		6	550	360			1.5	198,000
	paradice acers		6	550	360			1.5	198,000
	paradice acers		4	300	240			1.3	72,000
	hwy 70 west		6	550	360			1.4	198,000
	hwy 70 w		4	300	360			1.2	108,000
	flush bandy tank		6	320	1440			1.1	460,800
	flush b john tank		6	320	1440			1	460,800
	lakeshore dr		8	800	360			1.5	288,000
	lakeshore dr		6	550	360			1.3	198,000
	squib ano		6	550	300			1.4	165,000
	squib ano		4	300	300			1.1	90,000
	squib ano		6	550	300			1.2	165,000
	garland bnd		4	300	240			1.3	72,000
	garland bnd		6	550	240			1.4	132,000
	dix bnd		4	300	240			1.3	72,000
	dix bnd		6	550	240			1.2	132,000
	tank tateville		6	600	1440			1.4	864,000
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								Total	4,167,600

SWA PWSID KY1000311
FLUSH LOG 2018

July 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of Leak (min)	Repaired By	Remedy	cl2	Est. Loss (Gals.)
	hwy 2227		6	550	480			1.5	264,000
	sloans vallwy		4	300	240			1.4	72,000
	lakeview dr		8	850	300			1.1	255,000
	lakeview dr		6	550	300			1.2	165,000
	flush bandy tank		6	300	1440			1.3	432,000
	flush keno tank		6	300	1440			1.4	432,000
	jasper bnd		6	550	420			1	231,000
	jasper bnd		6	550	420			1.2	231,000
	jasper bnd		4	300	420			1	126,000
	hammon camp		4	300	420			1.4	126,000
	lake side arena		6	550	1440			1.7	792,000
	lake side arena		8	700	1440			1.6	1,008,000
	hwy 192		4	250	360			1.5	90,000
	jasper bnd		6	1440	1440			1.4	2,073,600
	poperville rd		6	1440	480			1.5	691,200
	hwy 27 s		8	960	1440			1.6	1,382,400
	e nest of		8	650	1440			1.4	936,000
									0
									0
									0
									0
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									0
								Total	9,307,200

SWA PWSID KY1000311
FLUSH LOG 2018

August 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of Leak (min)	Repaired By	Remedy	Route	Est. Loss (Gals.)
	blue john		6	500	240				120,000
	blue john		6	500	360				180,000
	blue john		6	500	1440				720,000
	blue john		4	250	360				90,000
	blue john		4	250	480				120,000
	jasper bnd		6	500	360				180,000
	jasper bnd		6	500	240				120,000
	jasper bnd		6	500	120				60,000
	jasper bnd		4	250	360				90,000
	jasper bnd		4	250	360				90,000
	paradice bnd		6	500	360				180,000
	paradice bnd		6	500	360				180,000
	paradice bnd		4	250	480				120,000
	paradice bnd		4	250	600				150,000
	paradice bnd		4	250	240				60,000
	paradice bnd		4	250	240				60,000
	hwy 192		4	250	360				90,000
	hwy 192		4	250	360				90,000
	hwy 192		4	250	250				62,500
	hwy 192		4	250	240				60,000
	rush bra		6	500	360				180,000
	rush bra		6	500	300				150,000
	rush bra		6	500	300				150,000
	rush bra		6	250	600				150,000
	omega		6	250	480				120,000
	omega		4	250	650				162,500
	omega		4	250	360				90,000
	omega		6	400	1440				576,000
	omega		4	250	360				90,000
									0
									0
									0
									0
									0
									0
									0
									0
								Total	4,491,000

SWA PWSID KY1000311
FLUGH LOG 2018

Sept 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of Leak (min)	Valve ExRT	Remedy	cl2	Est. Loss (Gals.)
	hyy 192		4	250	240	12		1.4	60,000
	hyy 192		4	250	360	14		1.2	90,000
	hyy 192		4	250	360	6		1.3	90,000
	hyy 192		4	250	240	4		1.5	60,000
	rush branch		6	400	240	8		1.4	96,000
	rush branch		6	500	360	17		1.4	180,000
	rush branch		6	400	240	12		1	96,000
	rush branch		6	400	160	11		1.2	64,000
	1675		6	500	240	4		1.2	120,000
	1675		6	500	360	3		1.1	180,000
	1675		6	500	360	6			0
	RT-1		8	850	240	23		1.4	204,000
	RT-6		6	500	160	27		1.2	80,000
	RT-7		8	850	120	18		1.2	102,000
	RT-13		8	850	120	6		1.4	102,000
	RT-14		8	850	240	9		1.3	204,000
	RT-16		8	850	360	11		1.4	306,000
	RT-17		8	850	240	7		1.5	204,000
									0
	RT2		8	850	960	4		1.2	816,000
	RT-3		6	600	960	6		1.1	576,000
	RT-4		6	600	960	12		1.3	576,000
	RT-5		4	300	960	9		1.2	288,000
	RT-45		6	500	960	17		1	480,000
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									0
									0
									0
									0
								Total	4,974,000

SWA PWSID KY1000311
FLUSH LOG 2018

October 2018

Date	Location of Leak		Line Size	Est. GPM	Duration of Leak (min)	Repaired By	Remedy	cl2	Est. Loss (Gals.)
	JASPER LAKE		6	350	120			1.4	42,000
	LOOP 3		6	350	150			1.1	52,500
	HWY 70		6	450	120			1	54,000
	HWY 70		4	250	240			1.2	60,000
	SQUIP ANO		4	250	180			1.1	45,000
	PRICE VALLEY		4	250	180			1.3	45,000
	GARLAND BND		6	550	240			1	132,000
	HWY 39		12	1000	240			1.1	240,000
	HWY 39		6	550	240			1.1	132,000
	HWY 1643		4	250	240			1.2	60,000
	RUSH BRANCH RD		6	550	360				0
	STRAWBERRY RD		4	300	360			1.4	108,000
	RT-30		4	250	960	11		1.5	240,000
	RT-31		6	500	960	9		1.3	480,000
	RT-32		6	500	960	7		1.2	480,000
	RT-33		4	250	960	16		1.4	240,000
	RT-34		4	250	960	12		1.4	240,000
	RT-35		4	250	960	10		1.1	240,000
	RT-36		4	250	960	6		1.5	240,000
	RT-39		4	250	960	7		1.3	240,000
	RT--40		4	250	960	11		1.1	240,000
	RT-130		6	500	960	14		1.2	480,000
	RT-131		4	250	960	12		1.2	240,000
	RT-132								0
									0
	RT-8		12	850	960	4			816,000
	RT-9		12	850	960	3			816,000
	RT-10		8	650	960	6			624,000
	RT-11		6	500	960	4			480,000
	RT-12		12	850	960	3			816,000
	RT-932		6	500	360	4			180,000
									0
									0
									0
									0
									0
									0
								Total	8,062,500

SWA PWSID KY1000311
FLUSH LOG 2018

November 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of Leak (min)	Repaired By	Remedy	cl2	Est. Loss (Gals.)
	1003		6in	400	240			1.3	96,000
	192		4in	250	160			1.2	40,000
	192		4in	300	320			1.3	96,000
	1003		6in	550	160			1.1	88,000
	paradice acers		6in	600	240			1.5	144,000
	paradice acers		4in	250	320			1	80,000
	paradice acers		4in	300	240			1.1	72,000
	omega pk		6in	500	240			1.4	120,000
	omega pk		4in	250	300			1.2	75,000
	omega pk		4in	250	240			1.2	60,000
	HWY 27 BRIDGE		8 IN	40	44640			1.1	1,785,600
	HWY 27 BRIDGE		8 IN	40	44640			1.4	1,785,600
	HIGH POINT BRIDGE		4 IN	20	44640			1.3	892,800
	WHEELER RD		2 IN	10	44640			1.3	446,400
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								Total	5,781,400

SWA PWSID KY1000311
FLUSH LOG 2018

December 2018

Date	Location of Leak	Reported By	Line Size	Est. GPM	Duration of Leak (min)		Remedy	cl2	Est. Loss (Gals.)
	jasper bnd		6in	500	320			1.6	160,000
	jasper bnd		4in	300	160			1.2	48,000
	jasper bnd		4in	300	240			1.3	72,000
	hwy 39		12in	1200	120			1.4	144,000
	hwy 39		12in	1200	1440			1.2	1,728,000
	jasper bnd		6in	500	240			1	120,000
	jasper bnd		4in	300	360			1.5	108,000
	jasper bnd		4in	300	240			1.4	72,000
	paradice acers		6in	600	360			1.3	216,000
	paradice acers		4in	300	240			1.2	72,000
	paradice acers		4in	300	240			1.2	72,000
	paradice acers		4in	300	240			1.4	72,000
	paradice acers		6in	500	360			1.3	180,000
	lakeshore		8in	650	240			1.4	156,000
	lakeshore		8in	650	240			1.5	156,000
	lakeshore		6in	500	240			1.5	120,000
	lakeshore		6in	500	240			1.4	120,000
	HWY 27 BRIDGE		8 IN	40	44640			1.2	1,785,600
	HWY 27 BRIDGE		8 IN	40	44640			1	1,785,600
	HIGH POINT BRIDGE		4 IN	20	44640			1.3	892,800
	WHEELER RD		4in	120	1440			1.4	172,800
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
								Total	**8,252,800**

Flushing Report For Stage 2 Compliance

S W A (Compliance) (name of Water System)

1000311 (PWSID)

Month: JAN
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: $GPM = 29.83\ cd^2\sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Cl2
	RT 1		240.00	4.5	170	7482	1,795,716	
	RT6		240.00	4.5	160	7259	1,742,100	
	RT 16		360.00	4.5	160	7259	2,613,150	
	RT 36		360.00	3.0	120	2794	1,005,802	
	RT 10		240.00	4.5	135	6668	1,600,221	

Signed: _____ Date: _____ Total Gallons for Month: 8,756,989

Kentucky Rural Water Association 2009

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

ky1000311 (PWSID)

Month: FEB
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: $GPM = 29.83\ cd^2\sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	RT10		360.00	4.5	170	7482	2,693,574	
	RT 36		480.00	4.5	130	6543	3,140,616	
	RT 16		360.00	4.5	165	7371	2,653,667	
	RT 11		360.00	2.5	185	2409	867,252	

Signed: _____ Date: _____ Total Gallons for Month: 9,355,108

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

1000311 (PWSID)

Month: MARCH
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: $GPM = 29.83 \cdot cd^2\sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed		
	BURKET LA		120.00	4.0	70	3794	455,226		DB-RA
	STRAWBERRY LA		30.00	4.0	75	3927	117,801		GG-KD
	HWY 1643		30.00	4.0	60	3512	105,364		GG-KD
	JASPER BEND		60.00	4.0	60	3512	210,729		MV-DB
	HAMMON CAMP		30.00	4.0	150	5553	166,596		MV-DB
	TANK O. F. CANNONBAL		120.00	4.0	20	2028	243,329		
	TANK O. F. CANNONBAL		120.00	4.0	20	2028	243,329		
	HWY 934		30.00	4.0	85	4180	125,409		GG-KD
	DIX BEND		180.00	4.0	120	4967	894,046		MV-DB
	HAMMON CAMP		120.00	4.0	160	5735	688,237		MV-DB
	JASPER BEND		180.00	3.0	160	3226	580,700		MV-DB
	PARADICE ACERS		120.00	4.0	150	5553	666,383		GG-KD
	DIAMOND ACERS		60.00	2.5	85	1633	97,976		MV-DB
	RT 40		360.00	4.5	165	7371	2,653,667		
	RT16		360.00	4.5	185	7805	2,809,896		
	RT 40		480.00	2.5	175	2343	1,124,649		

Signed: _____ Date: _____ Total Gallons for Month: 11,183,335

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

ky1000311 (PWSID)

Month: APR
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: GPM = 29.83 $cd^2\sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	RT 40		360.00	4.5	165	7371	2,653,667	
	RT10		360.00	4.5	160	7259	2,613,150	
	RT 36		360.00	4.5	180	7699	2,771,664	
	RT 24		360.00	4.5	175	7591	2,732,898	
	RT 16							

Signed: _____ Date: _____ Total Gallons for Month: 10,771,379

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

ky1000311 (PWSID)

Month: MAY
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: $GPM = 29.83\ cd^2\sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	RT 10		360.00	4.5	180	7699	2,771,664	
	RT 6		240.00	4.5	210	8316	1,995,826	
	RT 16		240.00	4.5	180	7699	1,847,776	
	RT 1		360.00	4.5	175	7591	2,732,898	
	RT 36		240.00	4.5	145	6910	1,658,430	
	RT 11							

Signed: _____ Date: _____ Total Gallons for Month: 11,006,595

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

ky1000311 (PWSID)

Month: JUNE
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: $GPM = 29.83\, cd^2 \sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	RT 11		240.00	4.5	170	7482	1,795,716	
	RT10		360.00	4.5	185	7805	2,809,896	
	RT16		360.00	4.5	180	7699	2,771,664	
	RT 36		360.00	4.5	205	8216	2,957,885	
	RT 40							

Signed: _____ Date: _____ Total Gallons for Month: 10,335,161

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

ky1000311 (PWSID)

Month: JULY
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: $GPM = 29.83 \cdot cd^2\sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	RT 16		360.00	4.5	180	7699	2,771,664	
	RT 36		360.00	4.5	185	7805	2,809,896	
	RT 11		240.00	4.5	165	7371	1,769,111	
	RT1		360.00	4.5	220	8512	3,064,190	
	RT 6		240.00	4.5	210	8316	1,995,826	

Signed: _____ Date: _____ Total Gallons for Month: 12,410,688

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

ky1000311 (PWSID)

Month: AUG
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: $GPM = 29.83\ cd^2\sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	RT40		360.00	4.5	185	7805	2,809,896	
	RT 1		360.00	4.5	220	8512	3,064,190	
	RT 6		360.00	4.5	210	8316	2,993,740	
	RT 36		360.00	2.5	205	2536	912,928	
	RT 11		360.00	4.5	145	6910	2,487,645	
	RT 35		360.00	2.5	150	2169	780,917	

Signed: _____ Date: _____ Total Gallons for Month: 13,049,316

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

ky1000311 (PWSID)

Month: SEPT

Year: 2018

unit conversion factor: 29.83

Formula: GPM = 29.83 $cd^2\sqrt{p}$

coefficient value: 0.95

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	RT 11		240.00	4.5	150	7028	1,686,781	
	RT 10		360.00	4.5	180	7699	2,771,664	
	RT 40		240.00	4.5	185	7805	1,873,264	
	RT 36		360.00	4.5	185	7805	2,809,896	
	RT 35		360.00	2.5	145	2133	767,792	

Signed: _____ Date: _____ Total Gallons for Month: 9,909,397

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

ky1000311 (PWSID)

Month: OCT
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: $GPM = 29.83\ cd^2\sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	HAILS HAVEN		240.00	4.5	185	7805	1,873,264	
	POPERVILLE		360.00	4.5	200	8116	2,921,591	
	1003 AND 192		360.00	1.5	155	794	285,777	
	RT 10		240.00	4.5	165	7371	1,769,111	
	RT 11		240.00	4.5	145	6910	1,658,430	
	RT 1		360.00	4.5	185	7805	2,809,896	
	RT 6		360.00	4.5	210	8316	2,993,740	

Signed: _____ Date: _____ Total Gallons for Month: 14,311,809

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

Month: NOV
Year: 2018

ky1000311 (PWSID)

unit conversion factor: 29.83

Formula: GPM = 29.83 $cd^2\sqrt{p}$ coefficient value: 0.95

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	RT40		240.00	4.5	200	8116	1,947,727	
	RT11		240.00	4.5	185	7805	1,873,264	
	RT 10		120.00	4.5	160	7259	871,050	
	RT 36		240.00	4.5	210	8316	1,995,826	
	RT16		180.00	4.5	165	7371	1,326,833	
	RT 6							

Signed: _____ Date: _____ Total Gallons for Month: 8,014,701

Kentucky Rural Water Association

Flushing For Stage 2 Compliance

SWA (Compliance) (name of Water System)

ky1000311 (PWSID)

Month: DEC
Year: 2018

unit conversion factor: 29.83
coefficient value: 0.95

Formula: $GPM = 29.83\ cd^2\sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
	RT1		240.00	4.5	190	7910	1,898,410	
	RT 6		180.00	4.5	210	8316	1,496,870	
	RT 16		240.00	4.5	145	6910	1,658,430	
	RT 11		120.00	2.5	140	2096	251,479	
	RT 10		240.00	4.5	150	7028	1,686,781	
	RT 40		360.00	4.5	185	7805	2,809,896	

Signed: _____ Date: _____ Total Gallons for Month: 9,801,866

Kentucky Rural Water Association