

700 West Liberty Street | Louisville, KY 40203-1911 Phone: 502.540.6000 | LouisvilleMSD.org

June 21, 2021

Crystal Dennis 300 Sower Blvd., 3rd Floor Frankfort, Kentucky 40601

RE: Cedar Creek WQTC, KPDES No: KY0098540 Corrected: Discharge Monitoring Report for March 2021.

Dear Mrs. Dennis:

Please see the corrected and attached Discharge Monitoring Report (DMR) and Monthly Operating Report (MOR) for the Cedar Creek Water Quality Treatment Center for the month of March 2021.

Corrections were applied to the Discharge Monitoring Report (DMR) and Monthly Operating Report due to the treatment center flow totalizer not resetting accordingly. Additionally, please see the document displaying the influent and effluent treatment center flow totalizer records.

The 1st quarter biomonitoring results and the overflow report remain attached.

There were no exceedances or bypasses to report.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6952.

Sincerely

William Ford Process Supervisor-Operations

WEF/ Cedar Creek. 03/21.

Enclosures

Cc: V. Graves R. Shaw



700 West Liberty StreetLouisville, KY 40203-1911Phone: 502.540.6000LouisvilleMSD.org

April 26, 2021

Crystal Dennis 300 Sower Blvd., 3rd Floor Frankfort, Kentucky 40601

RE: Cedar Creek WQTC, KPDES No: KY0098540 Discharge Monitoring Report for March 2021.

Dear Mrs. Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Cedar Creek WQTC, for the month of March 2021.

Attached is the 1st quarter biomonitoring.

Also, attached is the overflow report.

There were no exceedances or bypasses to report.

If you have any questions concerning the attached DMR's, please contact me at (502) 540-6952.

Sincerely, Staci Huber

Process Supervisor - Operations

SH/ Cedar Creek. 3/21.

Enclosures

Cc: V. Graves R. Shaw

	A	В	C	D	E	F	G	Н	1	IJ	К	L	М	N	0	P	Q	R	S	Т	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1	NAME	OF TREA	TMENT	PLAN	т	CEDA	R CRE	EK WTP					COUN	TY	JEFFE	RSON		-	_		MONTH	_	-	arch)21					710		ma	7.81			
_		PERMIT				KY009						PLANT					MGD				RECEIVI		_			RCREE	к										
3			SEW			ян		LIDS (m			GEN (SPEND IDS (m		6 0 4	CBOD	(mall)	ACT		SLUDGE	1	450		DAODI								-				
-		SNC		A SPL	<u> </u>	1		Ling (iii	L .	1			- 301	.103.(m		JUA	0800		ACT	WATED	1	-	1		1 201	neo		5	LUDGE	HANDLI	NG		FR	VAL			
4		V LL	He F	S F						N N	Ner	BELOW			NH NH			Ner I	RE	TURN	WAST	ED (mg/L)			SLU		F	RAW			HAULED						
			E E MO	FEE				Σź		4 AB	EFL	A BE		≻₽	EFFLUENT		≻ ₽	EFL	×			E F	dr)	l/bm				S		SOI		z	ng/L		S		ш' ғ
	ш	J LIO	E S	E C	>	_	_	LUE	L m	EA	L L	EAN	~	LUE	L L		AR 1		DAY	600	YO g	G S	50	ss (z	∣ <u>z</u> ∣	ş	SOL	S ATILE	SOL	ATLLE	RAW	E Z		hor	e	
5	DATE	TOTAL FLOW (MILLION GALLONS)	GRIT REMOVED (CUBIC FEET)	SCREENINGS (CUBIC FEET)	RAW	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	STREAM ABOVE	FINAL EFFLUENT	STREAM	RAW	PRIMARY EFFLUENT	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	GAL/DAY 1000	MLSS 41000	GAL/DAY X 1000	DISSOLVED OXYGEN (m	MLSS (mg/L) x 1000	MLVSS (mg/L) X 1000	30 MIN	NIM 06	ALLONS 1000	DRY	VOLATI	DRY	VOLATILE	VITHDRAV ALLONS 1000	NH3-N (mg/L)	ECOLI	Total Phosphorus	Total Nitrogen	TOTAL FLOW INF. (MILLION GALLONS)
6	1	19.32	2.48	2.48		7.6		1	-	11	8.8		102		6	50		5	6	9280	60000	4.8	3620			0	12.37	×	20	0.86	1.2	75600	0.25		0.3		12.3
7	2	14.19	2.48	2.48	7.5														5	9600	50000	4.9	2770		450		10.80		_			119700		1	0.0	- OIL O	10.
8	3	12.55	2.48	2.48	7.7														4	9370	50000	3.6	3000	2410	500		9.61					56700					9.6
9	4	10.16	2.48	2.48	7.6		1												3	10900	40000	4.0	2560	2150	400		8.45					37800					8.4
10	5	7.96	2.48	2.48	7.6														3	11140	50000	3.9	3460	2850	550		6.62					37800					6.6
11	6	7.37	2.48	2.48															3		50000	4.0			600		6.10					0					6.
12	7	6.93	2.48	2.48			-												3		50000	4.0			650		5.87					0					5.8
13	8	6.39	2.48	2.48		7.4	-	-			8.3		104		5	75		5	4	9600	70000	3.8	4150	2800	700		5.45			0.96		75600	1.20		0.3	2.95	5.4
14	9	6.24	2.48	2.48	<u> </u>	-	-	-	-						_	_	-	_	4	8730	80000	4.0	4180	-	750	_	5.24		_			0		33			5.24
15	10	6.21	2.48	2.48	-	-	-				_		_				-	-	4	8450	85000	4.1	4120		+ +		5.15					75600					5.1
16	11	6.68	2.48	2.48	<u> </u>	-	-		-	+	_	-				_			4	9500	85000	4.2	4150				5.50	_				75600					5.
17 18	12 13	14.30	2.48	2.48	7.6	-	-	-		+	_			_				_	5	10940	49000	4.5	2730	2340	-		15.41					75600					15.4
18	13 14	14.18 14.18	2.48	2.48	-	-	-	-		+	_	_	-				-		6		60000	4.3	-	-	620	-	10.55	_		_		50400					10.58
20	14	9.53	2.48	2.48	7.4	7.6	-			+-+	8.7		230		6	440		-	6	40000	60000	4.3		-	580		10.55	-		-		0					10.55
20	16	9.53	2.46	2.48	-	7.0	-	-	-		0.7	-	230		0	110	-	0	9 5	10000 9780	80000 70000	3.9	4360 3870		+ +	-	16.07	-	-	1.1		75600	0.36		0.3	5.5	7.69
22	17	8.82	2.40	2.48		-	-	-	-		-	-	-		-	-	-		5	10350	75000	4.0	4010	-	720 670		7.79	-	-			63000		1			7.79
23	18	10.83	2.48	2.48		-	-	+			-	-	-						4	10220	75000	4.0	4010		700		7.08					37800				_	7.08
24	19	9.71	2.48	2.48		-		-	-					-			-	-	4	11500	80000	4.4	3830		650		7.66	-				75600				-	8.67
25	20	8.37	2.48	2.48	7.0	-	t —	1	-			-		-			-	-	3	11500	75000	4.6	3030	3130	650	-	6.84	-	-			37800 630000					7.66
26	21	7.89	2.48	2.48		-		1								-		-	3	-	75000	4.1	+	-	530	-	6.49	-	-	_		030000			-		6.84
27	22	8.07	2.48	2.48	7.2	7.3	1	1			8.4		480		7	149		5	4	8940	75000	4.2	3830	3160	600		5.95	-	-	1.5		75600	0.57		0.3	5.77	5.95
28	23	7.08	2.48	2.48	7.5										-				3	9410	85000	4.0	3990		650		5.64		-	1.0		37800	0.07	7	0.0	0.11	5.64
29	24	6.67	2.48	2.48	7.6			1											3	10600	85000	3.6	4220		700		5.60					69300			-		5.6
30	25	7.86	2.48	2.48	7.3		1												3	9330	85000	3.4	3630		650		6.17					75600	$ \neg $		-	-	6.17
31	26	8.44	2.48	2.48	7.8														3	10420	75000	4.2	3370	2740	600		6.87			-	_	75600					6.87
32	27	7.46	2.48	2.48															3		75000	4.1			710		6.04					56700			-		6.04
33	28	7.62	2.48	2.48															4		75000	4.8			700		6.24					0					6.24
34	29	6.81	2.48	2.48	7.5		0												3	8420	90000	3.8	3710	3020	630		5.69					75600					5.69
35	30	6.65	2.48	2.48											_				3	9950	80000	4.6	3770		700	_	5.43					75600					5.43
36	31	12.08	2.48	2.48	7.4														4	9740	80000	5.2	2940	2390	460		11.45					75600					11.45
_	Tot.	290.14	76.88	76.88	-		-	-		\vdash	_								127.2								243.35					2217600					234.97
38	Avg.	9.36	2.48	2.48	7.5	7.5		1			8.5		229		6	96		5	4.103	9833.5	70129	4.161	3664	2974	621.9		7.85			1.105		71535.5	0.60	4	0.3	4.378	7.57967742
40			-	Ĩ				RESID	ENTIAL						INDUS	TRIAL	WASTE	POPUL	ATION	EQUIVA	LENT	1															
41								сомм	_						89			440			851	19			Randoli	ph P. Ku	istes JR.			14555					_	-	
42								INDUS							FLO			CB			TS	_		-		PERAT		-	-		ERT. NO				_	-	
43	TOTAL	NUMBER	R OF SI	EWER	CONNI	ECTION	IS				c)													1 1	502-540				Ĩ			-	-+	-	_	
		CONNE			T	0	x	4	-		-		RED PC	PULAT	ION												PLANT	TRUCO	HONE					-			

DMR Copy of Record

Permit																		
Permit #: K	0098540			Permitt	ee:			Cedar Creek W	QTC MS	D		F	Facility:		CE	DAR CREEK	NQTC MSD	
Major: Ye	s			Permitt	ee Addres	SS:		700 W Liberty S Louisville, KY 4				F	Facility Locatio	n:		05 CEDAR CR DUISVILLE, KY		
Permitted Feature: 00 E>	1 ternal Outfall			Discha	rge:			001-1 MUNICIPAL DI	SCHARG	θE		·						
Report Dates & Status				I														
Monitoring Period: Fr	om 03/01/21 to 03/31/21			DMR D	ue Date:			04/28/21				S	Status:		Ne	tDMR Validate	ed	
Considerations for Form Completion																		
Principal Executive Officer																		
First Name: Ja	mes A.			Title:				Executive Direct	tor			r	Telephone:		502	2-540-6000		
Last Name: Pa	rrott																	
No Data Indicator (NODI)																		
Form NODI:																		
Parameter	Monitoring Location	Seasor	n # Param. NOI	DI			uantity or Lo						Quality or Conce				of Ex. Frequency of Analysi	is Sample Type
Code Name				Sample	Qualifier 1	Value 1	Qualifier 2	2 Value 2	Units	Qualifie	er 1 Value 1 8.3	Qualifier 2	2 Value 2	Qualifier	3 Value 3	Units 19 - mg/L	01/07 - Weekly	GR - GRAB
00300 Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req						>=	7.0 INST MIN					1.0 /	01/07 - Weekly	GR - GRAB
				Value NOD	I													
				Sample						=	7.3			=	7.6	12 - SU	01/07 - Weekly	GR - GRAB
00400 pH	1 - Effluent Gross	0		Permit Req						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	01/07 - Weekly	GR - GRAB
				Value NOD														
				Sample Permit Reg		545.0 1877.0 MO AVG	=	967.0 2815.0 MX WK AV	26 - lb/d 26 - lb/d				6.0 30.0 MO AVG	= <=	7.0 45.0 MX WK AV	19 - mg/L 19 - mg/L	01/07 - Weekly 01/07 - Weekly	CP - COMPOS 24 - COMP24
00530 Solids, total suspended	1 - Effluent Gross	0		Value NOD			=	2013.0 10.7 10.7 10	20 10/0			~-		~-	-5.0 М/Х М/Х/Х	13 mg/E (
				Sample								=	229.0	=	480.0	19 - mg/L	01/07 - Weekly	CP - COMPOS
00530 Solids, total suspended	G - Raw Sewage Influe	nt 0		Permit Req									Req Mon MO AVC		Req Mon MX WK A	-	01/07 - Weekly	24 - COMP24
				Value NOD	I													
				Sample									4.0		6.0	19 - mg/L	01/07 - Weekly	CP - COMPOS
00600 Nitrogen, total [as N]	1 - Effluent Gross	0		Permit Req									Req Mon MO AVC	6	Req Mon MX WK A	V 19 - mg/L (01/07 - Weekly	24 - COMP24
				Value NOD														
	4 5/1 4 0			Sample Permit Reg		51.0 626.0 MO AVG	=	64.0 939.0 MX WK AV	26 - lb/d 26 - lb/d				0.6 10.0 MO AVG	=	1.2 15.0 MX WK AV	19 - mg/L 19 - mg/l	01/07 - Weekly 01/07 - Weekly	CP - COMPOS 24 - COMP24
00610 Nitrogen, ammonia total [as N]	1 - Effluent Gross	2		Value NOD		020.0 1110 7110	~		20 10/0			~				() 01/07 - Weekly	
				Sample	-							=	0.3	=	0.3	19 - mg/L	01/07 - Weekly	CP - COMPOS
00665 Phosphorus, total [as P]	1 - Effluent Gross	2		Permit Req									2.0 MO AVG	<=	3.0 MX WK AV	19 - mg/L	01/07 - Weekly	24 - COMP24
. ,				Value NOD	I													
				Sample	-	9.36		11.211	03 - MGD								99/99 - Continuous	CN - CONTIN
50050 Flow, in conduit or thru treatment plan	t 1 - Effluent Gross	0		Permit Req		Req Mon MO A	/G	Req Mon MX WK A	/ 03 - MGD)							99/99 - Continuous	RE - Record (manu
				Value NOD														
				Sample Permit Reg		7.58 Req Mon MO AV	= /G	8.546 Req Mon MX WK AV	03 - MGD / 03 - MGD								99/99 - Continuous 99/99 - Continuous	CN - CONTIN RE - Record (manu
50050 Flow, in conduit or thru treatment plar	t G - Raw Sewage Influe	nt 0		Value NOD												(5	
				Sample	-							=	4.0	=	33.0	13 - #/100mL	01/07 - Weekly	GR - GRAB
51040 E. coli	1 - Effluent Gross	0		Permit Req								<=	130.0 30DA GEO		240.0 7 DA GEO	13 - #/100mL		GR - GRAB
				Value NOD	1													
				Sample	-	471.0	=	806.0	26 - lb/d				5.0	=	6.0	19 - mg/L	01/07 - Weekly	CP - COMPOS
80082 BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0		Permit Req		626.0 MO AVG	<=	939.0 MX WK AV	26 - lb/d			<=	10.0 MO AVG	<=	15.0 MX WK AV	19 - mg/L (01/07 - Weekly	24 - COMP24
				Value NOD	1								22.2		1.10.0	10 "	04/07	
		-		Sample Permit Reg								=	96.0 Req Mon MO AVO	=	149.0 Req Mon MX WK A	19 - mg/L V 19 - mg/L	01/07 - Weekly 01/07 - Weekly	CP - COMPOS 24 - COMP24
80082 BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influe	nt U		Value NOD												<u> </u>	J	
				Sample						=	95.0					23 - %	01/30 - Monthly	CA - CALCTD
80091 BOD, carb-5 day, 20 deg C, percent re	noval K - Percent Removal	0		Permit Req						>=	85.0 MO AV MN					22 0/	01/30 - Monthly	CA - CALCTD
,				Value NOD	I													

				Sample			=	97.0		23 - %		01/30 - Monthly	CA - CALCTD
81011	Solids, suspended percent removal	K - Percent Removal	0	 Permit Req.			>=	85.0 MO AV MN		23 - %	0	01/30 - Monthly	CA - CALCTD
01011			Ū	Value NODI							Ŭ		
Submi	ission Noto												·

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type. *Edit Check Errors*

No errors.

Comments

Attachments		
	Name	
CCMOR032021.XLS		xls
CCCoverletter0321.pdf		pdf
03_march_discharge_report_all_service_fin.pdf		pdf
CorrectedCCMOR032021.pdf		pdf
CCPlantFlowTotalizerDocument.pdf		pdf
CorrectedCCCoverletter032021.pdf		pdf
Report Last Saved By		
Cedar Creek WQTC MSD		
User:	WILLIAM.FORD@LOUISVILLEMSD.ORG	
Name:	William Ford	
E-Mail:	william.ford@louisvillemsd.org	
Date/Time:	2021-06-21 13:03 (Time Zone: -04:00)	
Report Last Signed By		
User:	WILLIAM.FORD@LOUISVILLEMSD.ORG	
Name:	William Ford	
E-Mail:	william.ford@louisvillemsd.org	
Date/Time:	2021-06-21 13:03 (Time Zone: -04:00)	

Туре	Size
	336896.0
	30506.0
	146241.0
	154505.0
	241236.0
	44584.0



KPDES #	Facility		Water Quality Tr	eatement Center	am of Treatment Center	Region	
KY0022411	ID MSD0278		MORRIS FORMAN				NA
Facility Type	Facility ID		Facility Address	If Pump Station, Nar	ne of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole Activity Code / Description	08935-SM	Initiated	1001 BRECKENRIDGE		Event Date Problem	MIDDLE FORK BEARGRASS	STREAM
: DISREV: RAIN EVENT DISCHARGE	3352603	03/11/2021	DAVIS BROWNMITCHEL		11/29/2001 LACK OF SYSTEM		/12/21 07:45

Discharge Amount:	800,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHE THE PIPE DISCHARGES DIRECTLY TO STREAM CREEK.
Impact:	NONE OBSERVED OVER FLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:			
3/12/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/12/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	T



KPDES #	Facility	Water Quality Trea	tement Center	Receiving St	Region	
KY0022411	ID MSD0278	MORRIS FORMAN				NA
Facility Type	Facility ID	Facility Address	If Pump Station, Nam	e of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	100756A-X	1473 FRANKFORT AVE			SOUTH FORK BEARGRASS C	REEK GROUND
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO #</u> <u>Ref No</u> 3351196	Initiated Initiated By Assigned Te 03/04/2021 ANDERSON ANDERSON		Event DateProblem03/04/2021PUMPETO COE	D DUE UNAUTHORIZED	Completed Condition 03/09/21 01:41 PM

Discharge Amount:	156,000 GAL
Cause:	FLOODING AND LACK OF SYSTEM CAPACITY.
Clean Up:	PICK UP TRASH AND SPREAD LIME.
Control Zone:	SIGNS AND BARRICADES.
Impact:	MINOR TRASH A DEBRIS NEXT TO MANHOLE.
Repair:	NONE.
Public Notification:	METRO SAFE.

3/4/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
3/4/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



KPDES #	Facility		Water C	Quality Treat	ement Center	Reco	eiving Stream o	er Regi	on	
KY0022420	ID MSD0202		HITE CRE	EK			HITE (CREEK	NA	
Facility Type	Facility ID		Facility Addr	ess	If Pump Station,	Name of Pump	Station:	Receiving Stream	Disch	arge to
SSLSewer Service Line	111227215		7215 FOX H	ARBOR RD				HARRODS CREEK	GF	ROUND
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO # Ref No</u> 3353121	<u>Initiated</u> 03/15/2021	Initiated By DODDS	<u>Assigned To</u> Kelvin Wilson	Disch Status REPAIRED - ISSUE RESOLVED	Event Date 03/15/2021	Problem OBSTRUCTION NOT GREASE / ROOTS	Result - UNAUTHORIZED DISCHARGE- WATERS	<u>Completed</u> 03/15/21 07:23 PM	3 LAT

Discharge Amount:	1 GAL
Cause:	PRIVATE PROPERTY ISSUE.
Clean Up:	CUSTOMER RESPONSIBLE FOR CLEANUP.
Control Zone:	BARRICADES AND CONES.
Impact:	ADVISED THE CUSTOMER TO AVOID CONTACT WITH THE IMPACTED AREA.
Repair:	ADVISED THE CUSTOMER TO CONTACT A PLUMBER - PRIVATE PORTION OF THE PROPERTY SERVICE CONNECTION NEEDS TO BE HOOKED BACK UP.
Public Notification:	CONTACTED P/O.

3/16/21 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/16/21 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility ID	Water Qu	ality Treatement Center	Receiving Strea	am of Treatment Center	Region
KY0022411	MSD0278	MORRIS FC	PRMAN			NA
Facility Type	Facility ID	Facility Addres	s If Pump Station, N	ame of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	27008	1044 ALTA VIS	STA RD		MIDDLE FORK BEARGRAS	S GROUND
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO # Ref No</u> 3350302	Initiated Initiated By 03/01/2021 DAVIS BROWN	Assigned To MITCHELL DOCUMENTE D	Event DateProblem03/19/2020LACK OFSYSTEM	UNAUTHORIZED	Completed Condition 03/02/21 08:15 AM MAIN

Discharge Amount:	120,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3350810
Control Zone:	BARRICADE AND TEMP SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:			
3/1/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/1/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility ID		Water Quality Treate	ement Center	Receiving	g Stream of Treatment Cent	er Region
KY0022411	MSD0278		MORRIS FORMAN				NA
Facility Type	Facility ID	Fa	acility Address	If Pump Station, Na	me of Pump Static	n: Receiving Stream	Discharge to
SMHSewer Manhole	27012	24	408 GRAY FOX RD			MIDDLE FORK BEARGE	RASS STREAM
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO # Ref No</u> 3350303		i <u>tiated By Assigned To</u> AVIS BROWNMITCHELL	<u>Disch Status</u> DOCUMENTE D	03/09/2019 LA	Debem Result CK OF UNAUTHORIZED STEM DISCHARGE-	Completed 03/02/21 08:14 AM MAIN

Discharge Amount:	120,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3350810
Control Zone:	BARRICADES AND TEMP SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:			
3/1/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/1/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	,		Water Quality Treat	tement Center	Receiving S	Stream of Treatment Cente	r Region
KY0022411	ID MSD0278		MORRIS FORMAN				NA
Facility Type SMHSewer Manhole	Facility ID 28250		Facility Address 3506 CHARLANE PKY	If Pump Station, Na	me of Pump Station:	Receiving Stream CHENOWETH RUN	Discharge to DITCH
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	WO # Ref No 3352613	<u>Initiated</u> 03/12/2021	Initiated By Assigned To DAVIS BROWNMITCHELL	Disch Status DOCUMENTE D	Event Date Proble 01/03/2005 LACK SYST	OF UNAUTHORIZED	Completed Condition 03/13/21 09:19 AM MAIN

Discharge Amount:	3,318 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3352843
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	SEWER WATER DISCHARGING FROM THE PICK HOLE ON THE MANHOLE LID.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT.

3/12/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/12/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility ID		Water Quality Treat	ement Center	Receiving S	tream of Treatment Center	r Region
KY0022411	MSD0278		MORRIS FORMAN				NA
Facility Type	Facility ID		Facility Address	If Pump Station, Na	me of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	28413		3317 DELL RD			CHENOWETH RUN	GROUND
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	WO # <u>Ref No</u> 3352647	Initiated 03/12/2021	Initiated By Assigned To DAVIS BROWNMITCHELL	Disch Status DOCUMENTE D	Event Date 03/20/2002 Proble LACK SYST	OF UNAUTHORIZED	Completed 03/12/21 01:18 PM MAIN

Discharge Amount:	488 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3352845
Control Zone:	TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	SEWER WATER DISCHARGING FROM THE PICK HOLE ON THE MANHOLE LID.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT.

3/12/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/12/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility ID		Water Quality Treat	ement Center	Receiving St	ream of Treatment Cente	r Region
KY0022411	MSD0278		MORRIS FORMAN				NA
Facility Type	Facility ID		Facility Address	If Pump Station, Na	ame of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	28414		3400 DELL RD			CHENOWETH RUN	GROUND
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO # Ref No</u> 3352614	<u>Initiated</u> 03/12/2021	Initiated By Assigned To DAVIS BROWNMITCHELL	Disch Status DOCUMENTE D	Event Date 01/03/2005 LACK C SYSTE	F UNAUTHORIZED	Completed 03/12/21 01:00 PM MAIN

Discharge Amount:	600 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3352847
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	SEWER WATER DISCHARGING FROM THE PICK HOLE ON THE MANHOLE LID.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT.

3/12/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/12/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility ID		Water Quality Treat	ement Center	Receivir	ng Strea	m of Treatment Cente	er Regio	on
KY0022411	MSD0278		MORRIS FORMAN					NA	
Facility Type	Facility ID		Facility Address	If Pump Station, N	ame of Pump Stat	ion:	Receiving Stream		arge to
SMHSewer Manhole	28415	Initiate d	3406 DELL RD	Diach Status	Event Data D		CHENOWETH RUN		OUND
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO # Ref No</u> 3352615	<u>Initiated</u> 03/12/2021	Initiated By Assigned To DAVIS BROWNMITCHELL	<u>Disch Status</u> DOCUMENTE D	12/19/2002 L/	<u>roblem</u> ACK OF YSTEM	<u>Result</u> UNAUTHORIZED DISCHARGE-	<u>Completed</u> 03/12/21 01:10 PM	
									MAIN

Discharge Amount:	610 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3352848
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	SEWER WATER DISCHARGING FROM THE PICK HOLE ON THE MANHOLE LID.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT.

3/12/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/12/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility ID		Water Quality Trea	tement Center	Receiving Str	eam of Treatment Center	r Region
KY0022411	MSD0278		MORRIS FORMAN				NA
Facility Type	Facility ID		Facility Address	If Pump Station, Na	me of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	28453		3402 CHARLANE PKY			CHENOWETH RUN	DITCH
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO # Ref No</u> 3352612	<u>Initiated</u> 03/12/2021	Initiated By Assigned To DAVIS BROWNMITCHELL	Disch Status DOCUMENTE D	Event DateProblem10/28/2015LACK OFSYSTEM	UNAUTHORIZED	Completed Condition 03/13/21 09:16 AM MAIN

Discharge Amount:	66,320 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3352844
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT.

3/12/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/12/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility ID	Water Quality Tre	eatement Center	Receiving Strea	am of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN				NA
Facility Type SMHSewer Manhole	Facility ID 40475	Facility Address 1544 CHEROKEE RD	If Pump Station, Na	ne of Pump Station:	Receiving Stream MIDDLE FORK BEARGRASS	Discharge to GROUND
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO # Ref No</u> 3350305	Initiated Initiated By Assigned 03/01/2021 DAVIS BROWNMITCHEL		Event Date 03/01/2021 Problem LACK OF SYSTEM		MAIN

Discharge Amount:	120,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3350814
Control Zone:	BARRICADES AND TEMP SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:			
3/1/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/1/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility ID	Water Quality Trea	atement Center	Receiving Strea	am of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN				NA
Facility Type SMHSewer Manhole	Facility IDFacility Address457961011ALTA CIR		If Pump Station, Nan	ne of Pump Station:	Receiving Stream	Discharge to DITCH
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO #</u> <u>Ref No</u> 3352617	Initiated Initiated By Assigned T 03/12/2021 DAVIS BROWNMITCHELL		Event Date Problem 05/10/2014 LACK OF SYSTEM		ompleted <u>Condition</u> 3/13/21 10:33 M MAIN

Discharge Amount:	33,600 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#352840
Control Zone:	TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED BY TEMP SIGN AT DISCHARGE SITE AND PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:			
3/12/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/12/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	Τ



KPDES #	Facility Water Qu ID		Water Quality Treat	ement Center	Receiving Stre	eam of Treatment Center	Region
KY0022411							NA
Facility Type	Facility ID		Facility Address	If Pump Station, Na	ne of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	47583	202 OXMOOR LN				MIDDLE FORK BEARGRASS	STREAM
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	<u>WO #</u> <u>Ref No</u> 3352660	<u>Initiated</u> 03/12/2021	Initiated By Assigned To DAVIS BROWNMITCHELL		Event DateProblem02/06/2008LACK OFSYSTEM		mpleted <u>Condition</u> 13/21 10:16 MAIN

Discharge Amount:	288,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3352891
Control Zone:	PLACED BARRICADES & TEMP SIGNS AROUND THE IMPACTED.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED BY TEMP SIGN AT DISCHARGE SITE AND PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:			
3/12/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/12/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility ID		Water C	Quality Treat	tement Center	Rece	iving Strear	n of Treatment Cent	er Region
KY0022411	MSD0278		MORRIS	FORMAN					NA
Facility Type SMHSewer Manhole	Facility ID CSO020		Facility Addr		If Pump Station, N	lame of Pump \$	Station:	Receiving Stream OHIO RIVER	Discharge to STREAM
Activity Code / Description : DISDW: DRY WEATHER DISCHARGE	<u>WO # Ref No</u> 3359754	<u>Initiated</u> 03/21/2021	Initiated By FRENCH	Assigned To FRENCH	Disch Status REPAIRED - ISSUE RESOLVED	<u>Event Date</u> 03/21/2021	Power Power Outage (LC	Result UNAUTHORIZED G&E) DISCHARGE- WATERS	Completed Condition 03/21/21 03:21 PM

Discharge Amount:	1,200,000 GAL
Cause:	FIRE AND POWER FAILURE AT TRANSFORMER.
Clean Up:	MSD PERSONNEL WILL CLEAN AND SANITIZE IMPACTED AREAS IDENTIFIED.
Control Zone:	NO CONTROL ZONE ESTABLISHED.
Impact:	NO VISUAL IMPACT, CSO 20 OVERFLOWS TO THE OHIO RIVER UNDERWATER.
Repair:	POWER TRANSFERRED TO GENERATOR WHILE REPAIRS ARE MADE.
Public Notification:	PERMANENT OVERFLOW WARNING SIGNS ARE POSTED AND THE PROJECT WIN WEBSITE DRY WEATHER NOTIFICATION WAS POSTED.

3/22/21 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/22/21 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	



KPDES #	Facility Water Quality		lity Treatement Center	Receiving Strea	m of Treatment Center	Region
KY0022411						NA
Facility Type	Facility ID	Facility Address	If Pump Station, N	ame of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	IS021A-SI	1201 OLD CAN	NONS LN		MIDDLE FORK BEARGRASS	STREAM
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE	WO # <u>Ref No</u> 3352604	Initiated Initiated By A 03/11/2021 DAVIS BROWNM	ssigned To Disch Status ITCHELL DOCUMENTE D	Event Date 08/01/1969Problem LACK OF SYSTEM		mpleted Condition 13/21 02:15 MAIN

Discharge Amount:	3,100,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHE THE PIPE DISCHARGES DIRECTLY TO STREAM CREEK.
Impact:	NONE OBSERVED OVER FLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

3/12/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/12/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	Τ



KPDES #	S # Facility ID		Water G	Water Quality Treatement Center			iving Stream	er Region	
KY0098540 MSD0289		CEDAR CREEK				CEDAI	NA		
Facility Type SLSSewer Lift Station	Facility ID MSD1185-PS		Facility Addro	ess R MANOR WAY	If Pump Station, N ARBOR M	•	Station:	Receiving Stream CEDAR CREEK	Discharge to DITCH
Activity Code / Description : DISDW: DRY WEATHER DISCHARGE	<u>WO #</u> <u>Ref No</u> 3351847	Initiated 03/08/2021	<u>Initiated By</u> GRAY JR	<u>Assigned To</u> KOHR JR	Disch Status REPAIRED - ISSUE RESOLVED	Event Date 03/08/2021	<u>Problem</u> MECHANICAL FAILURE	<u>Result</u> UNAUTHORIZED DISCHARGE- WATERS	Completed Condition 03/09/21 12:00 AM

Discharge Amount:	300 GAL
Cause:	FAILURE IN ARV.
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE/WATER DISCHARGING FROM MANHOLE.
Repair:	VALVE WAS SHUT OFF.
Public Notification:	GIVEN BY VOLUNTARY EMAIL NOTIFICATION SYSTEM.

Notifications:	otifications:								
3/9/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV							



KPDES #	Facility	Water Quality Trea	atement Center	Receiving Strea	Receiving Stream of Treatment Center			
ID KY0022420 MSD0202		HITE CREEK		н		NA		
Facility Type	Facility ID	Facility Address	If Pump Station, Nam	ne of Pump Station:	Receiving Stream	Discharge to		
SLSSewer Lift Station	MSD1206-PS	6100 MAYFAIR AVE	TRANSYLVAN	NIA BEACH	OHIO RIVER	GROUND		
Activity Code / Description : DISREV: RAIN EVENT DISCHARGE		ted Initiated By Assigned T 8/2021 CATALANO JR CATALANO JR		Event Date D3/03/2021 ACK OF SYSTEM	<u>Result</u> UNAUTHORIZED DISCHARGE-	Completed Condition 03/09/21 01:30 PM		

Discharge Amount:	9,999 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.
Control Zone:	NO CONTROL ZONE WAS SET UP – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.
Impact:	NO IMPACT OBSERVED - FACILITY UNDER ELEVATED CREEK LEVEL.
Repair:	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
Public Notification:	SEND OUT VIA WEBSITE.

Notifications:

3/3/21 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV	
3/3/21 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION	

Total Facilities Printed: 17

Total Work Orders Printed: 21

Eff Inf						
	Eff	Eff	Eff	Inf	INF	Inf
01-Mar-21 03:00:00 18.54227 10.80839	13-Mar-21 23:00:00 13.6234	14-Mar-21 23:00:00 11.01	15-Mar-21 23:00:00 20.45	13-Mar-21 23:00:00 10.14574	14-Mar-21 23:00:00 8.050845	15-Mar-21 23:00:00 15.67154
02-Mar-21 03:00:00 19.32085 12.37667	13-Mar-21 23:01:00 13.63416	14-Mar-21 23:01:00 11.02	15-Mar-21 23:01:00 20.46	13-Mar-21 23:01:00 10.15283	14-Mar-21 23:01:00 8.056325	15-Mar-21 23:01:00 15.6787
03-Mar-21 03:00:00 14.19387 10.80272 04-Mar-21 03:00:00 12.5565 9.612927	13-Mar-21 23:02:00 13.64495 13-Mar-21 23:03:00 13.6557	14-Mar-21 23:02:00 11.02 14-Mar-21 23:03:00 11.03	15-Mar-21 23:02:00 20.47	13-Mar-21 23:02:00 10.15996	14-Mar-21 23:02:00 8.061883	15-Mar-21 23:02:00 15.68593
05-Mar-21 03:00:00 12:5565 9:612927	13-Mar-21 23:05:00 13:65643	14-Mar-21 23:03:00 11.03 14-Mar-21 23:04:00 11.04	15-Mar-21 23:03:00 20.48 15-Mar-21 23:04:00 20.49	13-Mar-21 23:03:00 10.1671 13-Mar-21 23:04:00 10.17414	14-Mar-21 23:03:00 8.067554 14-Mar-21 23:04:00 8.073322	15-Mar-21 23:03:00 15.69318
06-Mar-21 03:00:00 7.963579 6.616784	13-Mar-21 23:05:00 13.67714	14-Mar-21 23:05:00 11.05	15-Mar-21 23:05:00 20:50	13-Mar-21 23:05:00 10.18123	14-Mar-21 23:04:00 8:073322	15-Mar-21 23:04:00 15.70031 15-Mar-21 23:05:00 15.70754
07-Mar-21 03:00:00 7.37074 6.103331	13-Mar-21 23:06:00 13.68781	14-Mar-21 23:06:00 11.05	15-Mar-21 23:06:00 20.51	13-Mar-21 23:06:00 10.18123	14-Mar-21 23:06:00 8.085078	15-Mar-21 23:06:00 15.71488
08-Mar-21 03:00:00 6.933825 5.870749	13-Mar-21 23:07:00 13.69846	14-Mar-21 23:07:00 11.06	15-Mar-21 23:07:00 20.52	13-Mar-21 23:07:00 10.18844	14-Mar-21 23:07:00 8.091026	15-Mar-21 23:07:00 15.72226
09-Mar-21 03:00:00 6.398924 5.454178	13-Mar-21 23:08:00 13.70909	14-Mar-21 23:08:00 11.07	15-Mar-21 23:08:00 20.53	13-Mar-21 23:08:00 10.19566	14-Mar-21 23:08:00 8.096974	15-Mar-21 23:08:00 15.72961
10-Mar-21 03:00:00 6.242301 5.248763 11-Mar-21 03:00:00 6.21896 5.139044	13-Mar-21 23:09:00 13.71961 13-Mar-21 23:10:00 13.73009	14-Mar-21 23:09:00 11.07 14-Mar-21 23:10:00 11.08	15-Mar-21 23:09:00 20.54 15-Mar-21 23:10:00 20.55	13-Mar-21 23:09:00 10.20291 13-Mar-21 23:10:00 10.2102	14-Mar-21 23:09:00 8.102943	15-Mar-21 23:09:00 15.737
12-Mar-21 03:00:00 6.684551 5.509594	13-Mar-21 23:11:00 13.74055	14-Mar-21 23:11:00 11:09	15-Mar-21 23:10:00 20:55	13-Mar-21 23:10:00 10.2102	14-Mar-21 23:10:00 8.108917 14-Mar-21 23:11:00 8.114886	15-Mar-21 23:10:00 15.74437 15-Mar-21 23:11:00 15.75171
13-Mar-21 03:00:00 14.30772 15.41025	13-Mar-21 23:12:00 13.75096	14-Mar-21 23:12:00 11.09	15-Mar-21 23:12:00 20.57	13-Mar-21 23:12:00 10.22458	14-Mar-21 23:12:00 8.120834	15-Mar-21 23:12:00 15:75903
14-Mar-21 03:00:00 14.18432 10.55571	13-Mar-21 23:13:00 13.76133	14-Mar-21 23:13:00 11.10	15-Mar-21 23:13:00 20.58	13-Mar-21 23:13:00 10.23173	14-Mar-21 23:13:00 8.126745	15-Mar-21 23:13:00 15.76631
15-Mar-21 03:00:00 14.18432 10.55571	13-Mar-21 23:14:00 13.77166	14-Mar-21 23:14:00 11.11	15-Mar-21 23:14:00 20.59	13-Mar-21 23:14:00 10.23885	14-Mar-21 23:14:00 8.132622	15-Mar-21 23:14:00 15.77358
16-Mar-21 03:00:00 20.9567 16.07918 17-Mar-21 03:00:00 9.594296 7.790466	13-Mar-21 23:15:00 13.78189 13-Mar-21 23:16:00 13.79196	14-Mar-21 23:15:00 11.11 14-Mar-21 23:16:00 11.12	15-Mar-21 23:15:00 20.60 15-Mar-21 23:16:00 20.61	13-Mar-21 23:15:00 10.24597	14-Mar-21 23:15:00 8.138476	15-Mar-21 23:15:00 15.78083
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14-Mar-21 00:37:00	0.354273	15-Mar-21 00:37:00	11.67	16-Mar-21 00:37:00	0.30	14-Mar-21 00:37:00	0.252245	15-Mar-21 00:37:00	8.571052	16-Mar-21 00:37:00	0.222709
14-Mar-21 00:38:00	0.364143	15-Mar-21 00:38:00	11.68	16-Mar-21 00:38:00	0.31	14-Mar-21 00:38:00	0.258644	15-Mar-21 00:38:00	8.575928	16-Mar-21 00:38:00	0.228742
14-Mar-21 00:39:00	0.37397	15-Mar-21 00:39:00	11.69	16-Mar-21 00:39:00	0.32	14-Mar-21 00:39:00	0.265097	15-Mar-21 00:39:00	8.580773	16-Mar-21 00:39:00	0.234783
14-Mar-21 00:40:00	0.383819	15-Mar-21 00:40:00	11.69	16-Mar-21 00:40:00	0.32	14-Mar-21 00:40:00	0.265097	15-Mar-21 00:40:00	8.585611	16-Mar-21 00:40:00	0.240883
14-Mar-21 00:41:00	0.393622	15-Mar-21 00:41:00	11.70	16-Mar-21 00:41:00	0.33	14-Mar-21 00:41:00	0.271579	15-Mar-21 00:41:00	8.590419	16-Mar-21 00:41:00	0.246984
14-Mar-21 00:42:00	0.403389	15-Mar-21 00:42:00	11.70	16-Mar-21 00:42:00	0.34	14-Mar-21 00:42:00	0.278116	15-Mar-21 00:42:00	8.595214	16-Mar-21 00:42:00	0.253106
14-Mar-21 00:43:00	0.413064	15-Mar-21 00:43:00	11.71	16-Mar-21 00:43:00	0.34	14-Mar-21 00:43:00	0.284699	15-Mar-21 00:43:00	8.600013	16-Mar-21 00:43:00	0.259261
14-Mar-21 00:44:00	0.422635	15-Mar-21 00:44:00	11.72	16-Mar-21 00:44:00	0.35	14-Mar-21 00:44:00	0.29132	15-Mar-21 00:44:00	8.604843	16-Mar-21 00:44:00	0.265464
14-Mar-21 00:45:00	0.432111	15-Mar-21 00:45:00	11.72	16-Mar-21 00:45:00	0.36	14-Mar-21 00:45:00	0.297957	15-Mar-21 00:45:00	8.609645	16-Mar-21 00:45:00	0.271744
14-Mar-21 00:46:00	0.441465	15-Mar-21 00:46:00	11.73	16-Mar-21 00:46:00	0.37	14-Mar-21 00:46:00	0.304613	15-Mar-21 00:46:00	8.614453	16-Mar-21 00:46:00	0.27797
14-Mar-21 00:47:00	0.450709	15-Mar-21 00:47:00	11.73	16-Mar-21 00:47:00	0.37	14-Mar-21 00:47:00	0.311261	15-Mar-21 00:47:00	8.619307	16-Mar-21 00:47:00	0.284172
14-Mar-21 00:48:00	0.459856	15-Mar-21 00:48:00	11.74	16-Mar-21 00:48:00	0.38	14-Mar-21 00:48:00	0.317875	15-Mar-21 00:48:00	8.624289	16-Mar-21 00:48:00	0.290375
14-Mar-21 00:49:00	0.468893	15-Mar-21 00:49:00	11.74	16-Mar-21 00:49:00	0.39	14-Mar-21 00:49:00	0.324407	15-Mar-21 00:49:00	8.629271	16-Mar-21 00:49:00	0.296551
14-Mar-21 00:50:00	0.477791	15-Mar-21 00:50:00	11.75	16-Mar-21 00:50:00	0.40	14-Mar-21 00:50:00	0.330904	15-Mar-21 00:50:00	8.634262	16-Mar-21 00:50:00	0.30279
14-Mar-21 00:51:00	0.486824	15-Mar-21 00:51:00	11.76	16-Mar-21 00:51:00	0.40	14-Mar-21 00:51:00	0.337448	15-Mar-21 00:51:00	8.639263	16-Mar-21 00:51:00	0.308977
14-Mar-21 00:52:00	0.495889	15-Mar-21 00:52:00	11.76	16-Mar-21 00:52:00	0.41	14-Mar-21 00:52:00	0.344032	15-Mar-21 00:52:00	8.64427	16-Mar-21 00:52:00	0.315099
14-Mar-21 00:53:00	0.505013	15-Mar-21 00:53:00	11.77	16-Mar-21 00:53:00	0.42	14-Mar-21 00:53:00	0.350617	15-Mar-21 00:53:00	8.649212	16-Mar-21 00:53:00	0.321329
14-Mar-21 00:54:00	0.514132	15-Mar-21 00:54:00	11.78	16-Mar-21 00:54:00	0.43	14-Mar-21 00:54:00	0.357295	15-Mar-21 00:54:00	8.654145	16-Mar-21 00:54:00	0.327644
14-Mar-21 00:55:00	0.523212	15-Mar-21 00:55:00	11.78	16-Mar-21 00:55:00	0.44	14-Mar-21 00:55:00	0.363993	15-Mar-21 00:55:00	8.659076	16-Mar-21 00:55:00	0.333961
14-Mar-21 00:56:00	0.532298	15-Mar-21 00:56:00	11.79	16-Mar-21 00:56:00	0.45	14-Mar-21 00:56:00	0.370712	15-Mar-21 00:56:00	8.664001	16-Mar-21 00:56:00	0.340265
14-Mar-21 00:57:00	0.541326	15-Mar-21 00:57:00	11.80	16-Mar-21 00:57:00	0.46	14-Mar-21 00:57:00	0.377466	15-Mar-21 00:57:00	8.668856	16-Mar-21 00:57:00	0.346563
14-Mar-21 00:58:00	0.550267	15-Mar-21 00:58:00	11.80	16-Mar-21 00:58:00	0.46	14-Mar-21 00:58:00	0.384329	15-Mar-21 00:58:00	8.67371	16-Mar-21 00:58:00	0.352763
14-Mar-21 00:59:00	0.559154	15-Mar-21 00:59:00	11.81	16-Mar-21 00:59:00	0.47	14-Mar-21 00:59:00	0.391201	15-Mar-21 00:59:00	8.678556	16-Mar-21 00:59:00	0.358872
14-Mar-21 01:00:00	0.568013	15-Mar-21 01:00:00	11.82	16-Mar-21 01:00:00	0.48	14-Mar-21 01:00:00	0.398071	15-Mar-21 01:00:00	8.683394	16-Mar-21 01:00:00	0.364845