



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

May 16, 2023,

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

**RE: Kentucky State Reformatory STP, KPDES No: KY00400126
Discharge Monitoring Report for April 2023.**

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) for the Kentucky State Reformatory STP, for the month April 2023.

There were no overflows or bypasses to report for KSR WQTC.

Although the E.coli 7 Day Geometric mean were below the permitted limits. We had one exceedance of our monthly limit 130 #/100mL with a result of 134 #/100mL. This was a result of a malfunction of the CL2 pump. MSD Maintenance staff replaced pump and is now within compliance.

There were no overflows or bypasses.

If you have any questions concerning the attached DMR's, please contact me at (502)587-5858.

Sincerely,

Curt Otto
Process Supervisor

CEO/ AA 04/23.

Cc: V. Teague, B. Tinnel

50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	0.547	=	0.649	03 - MGD							01/07 - Weekly	CA - CALCTD		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD									01/07 - Weekly	CA - CALCTD
					Value NODI															
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample							<	0.01	<	0.01	19 - mg/L	01/07 - Weekly	GR - GRAB		
					Permit Req.						<=	0.011 MO AVG	<=	0.019 DAILY MX	19 - mg/L	01/07 - Weekly	GR - GRAB			
					Value NODI															
X 51040	E. coli	1 - Effluent Gross	0	--	Sample							=	134.0	=	204.0	13 - #/100mL	01/07 - Weekly	GR - GRAB		
					Permit Req.						<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL	01/07 - Weekly	GR - GRAB			
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	18.88	=	30.52	26 - lb/d		=	6.0	=	7.0	19 - mg/L	01/07 - Weekly	24 - COMP24		
					Permit Req.	<=	83.5 MO AVG	<=	125.0 MX WK AV	26 - lb/d	<=	10.0 MO AVG	<=	15.0 MX WK AV	19 - mg/L	01/07 - Weekly	24 - COMP24			
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample							=	190.0	=	205.0	19 - mg/L	01/07 - Weekly	24 - COMP24		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	01/07 - Weekly	24 - COMP24			
					Value NODI															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample					=	97.0				23 - %	01/30 - Monthly	CA - CALCTD			
					Permit Req.						>=	85.0 MO AV MN			23 - %	01/30 - Monthly	CA - CALCTD			
					Value NODI															
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	95.0				23 - %	01/30 - Monthly	CA - CALCTD			
					Permit Req.						>=	85.0 MO AV MN			23 - %	01/30 - Monthly	CA - CALCTD			
					Value NODI															

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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
51040	E. coli	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

Attachments

Name	Type	Size
202304_KSR_LAB.pdf	pdf	759164.0
202304_KSR_COVERLETTER.pdf	pdf	39860.0

Report Last Saved By

Louisville and Jefferson County MSD

User: CURT.OTTO@LOUISVILLEMSD.ORG
 Name: Curt Otto
 E-Mail: curt.otto@louisvillemsd.org
 Date/Time: 2023-05-17 10:13 (Time Zone: -04:00)

Report Last Signed By

User: CURT.OTTO@LOUISVILLEMSD.ORG
 Name: Curt Otto
 E-Mail: curt.otto@louisvillemsd.org
 Date/Time: 2023-05-17 10:35 (Time Zone: -04:00)

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Beckmar Certificate Of Analysis 230404029

230404029.01			Collection Date: 04/04/2023 11:00 AM				Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
CBOD	CBOD	4	mg/L	4	4	C24	SM 5210B (2011)	04/05/2023 01:00 PM	MDC	
Nitrate	Nitrate-N	17.8	mg/L	0.006	0.2	C24	SM 4110B 22nd Ed.	04/04/2023 04:08 PM	AJG	
Nitrite	Nitrite-N	< 0.2	mg/L	0.008	0.2	C24	SM 4110B 22nd Ed.	04/04/2023 04:08 PM	AJG	
Total Nitrogen	Total Nitrogen	18.2	mg/L			C24	SM 4500N A	04/12/2023 10:17 AM	JARS	
Total Suspended Solids	Total Suspended Solids	<6	mg/L	6	6	C24	SM 2540D 22nd Ed.	04/05/2023 06:00 PM	SKP	

230404029.02			Collection Date: 04/04/2023 11:00 AM				Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia as N	Ammonia	<0.2	mg/L	0.2	0.2	C24	SM 4500-NH3 D (2011)	04/05/2023 06:40 PM	SKP	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	<0.2	mg/L	0.2	0.2	C24	SM 4500-Norg/D 22nd Ed.	04/10/2023 04:50 PM	SKP	
Total Phosphorous	Total Phosphorus	4.42	mg/L	0.03	0.03	C24	SM 4500-P B.5/E 22nd	04/05/2023 05:00 PM	MDC	

230404029.03			Collection Date: 04/03/2023 10:57 AM				Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	93	col/100mL	1	1	Grab	SM 9223B	04/03/2023 03:20 PM	MDC	

230404029.04			Collection Date: 04/04/2023 10:55 AM				Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter			Sample Description: T411INF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
CBOD	CBOD	193	mg/L	4	4	C24	SM 5210B (2011)	04/05/2023 01:00 PM	MDC	
Nitrate	Nitrate-N	0.9	mg/L	0.006	0.2	C24	SM 4110B 22nd Ed.	04/04/2023 04:08 PM	AJG	
Nitrite	Nitrite-N	< 0.2	mg/L	0.008	0.2	C24	SM 4110B 22nd Ed.	04/04/2023 04:08 PM	AJG	
Total Nitrogen	Total Nitrogen	31.0	mg/L			C24	SM 4500N A	04/12/2023 10:17 AM	JARS	

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Beckmar Certificate Of Analysis 230404029

230404029.04			Collection Date: 04/04/2023 10:55 AM				Sampled By: Tanner Bryant		
Project: KSR WQTC - Winter			Sample Description: T411INF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
Total Suspended Solids	Total Suspended Solids	234	mg/L	6	6	C24	SM 2540D 22nd Ed.	04/05/2023 06:00 PM	SKP

230404029.05			Collection Date: 04/04/2023 10:55 AM				Sampled By: Tanner Bryant		
Project: KSR WQTC - Winter			Sample Description: T411INF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	29.9	mg/L	0.2	0.2	C24	SM 4500-Norg/D 22nd Ed.	04/10/2023 04:50 PM	SKP
Total Phosphorous	Total Phosphorus	7.04	mg/L	0.03	0.03	C24	SM 4500-P B.5/E 22nd	04/05/2023 05:00 PM	MDC

230404029.06			Collection Date: 04/03/2023 10:57 AM				Sampled By: Tanner Bryant		
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
D.O.	Dissolved Oxygen	7.28	mg/L	0.1		Grab	SM 4500-O G 21st	04/03/2023 10:57 AM	WTB
pH	pH	8.00	SU			Grab	SM4500 H+ B	04/03/2023 10:57 AM	WTB
Temperature	Temperature	14.9	C			Grab	SM 2550B 21st	04/03/2023 10:57 AM	WTB
Chlorine-Total	Chlorine, Total	<0.01	mg/L	0.01		Grab	HACH 8167	04/03/2023 10:57 AM	WTB

Thank You,



Paul Barker
Lab Manager

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Beckmar Certificate Of Analysis 230411019

230411019.01		Collection Date: 04/11/2023 11:30 AM					Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter		Sample Description: T411EFF					Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
CBOD	CBOD	5	mg/L	4	4	C24	SM 5210B (2011)	04/12/2023 04:15 PM	MDC	
Nitrate	Nitrate-N	24.8	mg/L	0.006	0.2	C24	SM 4110B 22nd Ed.	04/12/2023 08:41 PM	AJG	
Nitrite	Nitrite-N	< 0.2	mg/L	0.008	0.2	C24	SM 4110B 22nd Ed.	04/12/2023 08:41 PM	AJG	
Total Nitrogen	Total Nitrogen	25.2	mg/L			C24	SM 4500N A	04/20/2023 10:50 AM	JARS	
Total Suspended Solids	Total Suspended Solids	<6	mg/L	6	6	C24	SM 2540D 22nd Ed.	04/12/2023 06:00 PM	SKP	

230411019.02		Collection Date: 04/11/2023 11:30 AM					Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter		Sample Description: T411EFF					Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia as N	Ammonia	<0.2	mg/L	0.2	0.2	C24	SM 4500-NH3 D (2011)	04/12/2023 06:49 PM	SKP	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	<0.2	mg/L	0.2	0.2	C24	SM 4500-Norg/D 22nd Ed.	04/18/2023 05:12 PM	SKP	
Total Phosphorous	Total Phosphorus	4.58	mg/L	0.03	0.03	C24	SM 4500-P B.5/E 22nd	04/13/2023 03:00 PM	MDC	

230411019.03		Collection Date: 04/10/2023 11:25 AM					Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter		Sample Description: T411EFF					Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	60000	col/100mL	1	1	Grab	SM 9223B	04/10/2023 01:20 PM	MRC	

230411019.04		Collection Date: 04/11/2023 11:20 AM					Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter		Sample Description: T411INF					Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
CBOD	CBOD	174	mg/L	4	4	C24	SM 5210B (2011)	04/12/2023 04:15 PM	MDC	
Nitrate	Nitrate-N	< 0.2	mg/L	0.006	0.2	C24	SM 4110B 22nd Ed.	04/12/2023 08:41 PM	AJG	
Nitrite	Nitrite-N	< 0.2	mg/L	0.008	0.2	C24	SM 4110B 22nd Ed.	04/12/2023 08:41 PM	AJG	
Total Nitrogen	Total Nitrogen	37.7	mg/L			C24	SM 4500N A	04/20/2023 10:50 AM	JARS	



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Beckmar Certificate Of Analysis 230411019

230411019.04		Collection Date: 04/11/2023 11:20 AM					Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter		Sample Description: T411INF					Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	56	mg/L	6	6	C24	SM 2540D 22nd Ed.	04/12/2023 06:00 PM	SKP	

230411019.05		Collection Date: 04/11/2023 11:20 AM					Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter		Sample Description: T411INF					Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
Total Kjeldhal Nitrogen	Total Kjeldahl Nitrogen (TKN)	37.3	mg/L	0.2	0.2	C24	SM 4500-Norg/D 22nd Ed.	04/18/2023 05:12 PM	SKP	
Total Phosphorous	Total Phosphorus	6.04	mg/L	0.03	0.03	C24	SM 4500-P B.5/E 22nd	04/13/2023 03:00 PM	MDC	

230411019.06		Collection Date: 04/10/2023 11:25 AM					Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter		Sample Description: T411EFF					Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
D.O.	Dissolved Oxygen	7.22	mg/L	0.1		Grab	SM 4500-O G 21st	04/10/2023 11:25 AM	WTB	
pH	pH	7.82	SU			Grab	SM4500 H+ B	04/10/2023 11:25 AM	WTB	
Temperature	Temperature	15.2	C			Grab	SM 2550B 21st	04/10/2023 11:25 AM	WTB	
Chlorine-Total	Chlorine, Total	<0.01	mg/L	0.01		Grab	HACH 8167	04/10/2023 11:25 AM	WTB	

Thank You,



Paul Barker
Lab Manager

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Beckmar Certificate Of Analysis 230413005

230413005.01			Collection Date: 04/13/2023 09:25 AM				Sampled By: Scott Reed		
Project: KSR WQTC - E-Coli			Sample Description: Effluent E-Coli Resample				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	461	col/100mL	1	1	Grab	SM 9223B	04/13/2023 11:30 AM	RLB

230413005.02			Collection Date: 04/13/2023 09:40 AM				Sampled By: Scott Reed		
Project: KSR WQTC - E-Coli			Sample Description: Effluent E-Coli Resample				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	770	col/100mL	1	1	Grab	SM 9223B	04/13/2023 11:30 AM	RLB

230413005.03			Collection Date: 04/13/2023 09:55 AM				Sampled By: Scott Reed		
Project: KSR WQTC - E-Coli			Sample Description: Effluent E-Coli Resample				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	687	col/100mL	1	1	Grab	SM 9223B	04/13/2023 11:30 AM	RLB

230413005.04			Collection Date: 04/13/2023 10:10 AM				Sampled By: Scott Reed		
Project: KSR WQTC - E-Coli			Sample Description: Effluent E-Coli Resample				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	488	col/100mL	1	1	Grab	SM 9223B	04/13/2023 11:30 AM	RLB

Thank You,



Paul Barker
Lab Manager

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Beckmar Certificate Of Analysis **230414016**

230414016.01			Collection Date: 04/14/2023 10:00 AM				Sampled By: Scott Reed		
Project: KSR WQTC - E-Coli			Sample Description: EFF Resample				Matrix: Drinking Water		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	< 1	col/100mL	1	1	Grab	SM 9223B	04/14/2023 11:50 AM	RLB
230414016.02			Collection Date: 04/14/2023 10:15 AM				Sampled By: Scott Reed		
Project: KSR WQTC - E-Coli			Sample Description: EFF Resample				Matrix: Drinking Water		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	< 1	col/100mL	1	1	Grab	SM 9223B	04/14/2023 11:50 AM	RLB
230414016.03			Collection Date: 04/14/2023 10:30 AM				Sampled By: Scott Reed		
Project: KSR WQTC - E-Coli			Sample Description: EFF Resample				Matrix: Drinking Water		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	< 1	col/100mL	1	1	Grab	SM 9223B	04/14/2023 11:50 AM	RLB
230414016.04			Collection Date: 04/14/2023 10:45 AM				Sampled By: Scott Reed		
Project: KSR WQTC - E-Coli			Sample Description: EFF Resample				Matrix: Drinking Water		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	< 1	col/100mL	1	1	Grab	SM 9223B	04/14/2023 11:50 AM	RLB

Thank You,



Paul Barker
Lab Manager

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Beckmar Certificate Of Analysis 230418043

230418043.01			Collection Date: 04/18/2023 10:30 AM				Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
CBOD	CBOD	6	mg/L	4	4	C24	SM 5210B (2011)	04/19/2023 04:00 PM	MDC	
Nitrate	Nitrate-N	23.0	mg/L	0.006	0.2	C24	SM 4110B 22nd Ed.	04/19/2023 09:58 PM	AJG	
Nitrite	Nitrite-N	< 0.2	mg/L	0.008	0.2	C24	SM 4110B 22nd Ed.	04/19/2023 09:58 PM	AJG	
Total Nitrogen	Total Nitrogen	23.4	mg/L			C24	SM 4500N A	04/26/2023 08:58 AM	JARS	
Total Suspended Solids	Total Suspended Solids	<6	mg/L	6	6	C24	SM 2540D 22nd Ed.	04/19/2023 04:30 PM	SKP	

230418043.02			Collection Date: 04/18/2023 10:30 AM				Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia as N	Ammonia	<0.2	mg/L	0.2	0.2	C24	SM 4500-NH3 D (2011)	04/29/2023 04:30 PM	JARS	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	<0.2	mg/L	0.2	0.2	C24	SM 4500-Norg/D 22nd Ed.	04/24/2023 06:20 PM	SKP	
Total Phosphorous	Total Phosphorus	5.50	mg/L	0.03	0.03	C24	SM 4500-P B.5/E 22nd	04/20/2023 10:00 AM	MDC	

230418043.03			Collection Date: 04/17/2023 10:25 AM				Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	345	col/100mL	1	1	Grab	SM 9223B	04/17/2023 02:55 PM	PDB	

230418043.04			Collection Date: 04/18/2023 10:20 AM				Sampled By: Tanner Bryant			
Project: KSR WQTC - Winter			Sample Description: T411INF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
CBOD	CBOD	187	mg/L	4	4	C24	SM 5210B (2011)	04/19/2023 04:00 PM	MDC	
Nitrate	Nitrate-N	< 0.2	mg/L	0.006	0.2	C24	SM 4110B 22nd Ed.	04/19/2023 09:58 PM	AJG	
Nitrite	Nitrite-N	< 0.2	mg/L	0.008	0.2	C24	SM 4110B 22nd Ed.	04/19/2023 09:58 PM	AJG	
Total Nitrogen	Total Nitrogen	35.6	mg/L			C24	SM 4500N A	04/26/2023 08:58 AM	JARS	

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Beckmar Certificate Of Analysis 230418043

230418043.04			Collection Date: 04/18/2023 10:20 AM				Sampled By: Tanner Bryant		
Project: KSR WQTC - Winter			Sample Description: T411INF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
Total Suspended Solids	Total Suspended Solids	54	mg/L	6	6	C24	SM 2540D 22nd Ed.	04/19/2023 04:30 PM	SKP

230418043.05			Collection Date: 04/18/2023 10:20 AM				Sampled By: Tanner Bryant		
Project: KSR WQTC - Winter			Sample Description: T411INF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	35.2	mg/L	0.2	0.2	C24	SM 4500-Norg/D 22nd Ed.	04/24/2023 06:20 PM	SKP
Total Phosphorous	Total Phosphorous	5.38	mg/L	0.03	0.03	C24	SM 4500-P B.5/E 22nd	04/20/2023 10:00 AM	MDC

230418043.06			Collection Date: 04/17/2023 10:25 AM				Sampled By: Tanner Bryant		
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
D.O.	Dissolved Oxygen	7.15	mg/L	0.1		Grab	SM 4500-O G 21st	04/17/2023 10:25 AM	WTB
pH	pH	8.08	SU			Grab	SM4500 H+ B	04/17/2023 10:25 AM	WTB
Temperature	Temperature	16.0	C			Grab	SM 2550B 21st	04/17/2023 10:25 AM	WTB
Chlorine-Total	Chlorine, Total	<0.01	mg/L	0.01		Grab	HACH 8167	04/17/2023 10:25 AM	WTB

Thank You,



Paul Barker
Lab Manager

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Beckmar Certificate Of Analysis 230419005

230419005.01			Collection Date: 04/19/2023 08:40 AM				Sampled By: Chris McMillin		
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	435	col/100mL	1	1	Grab	SM 9223B	04/19/2023 11:20 AM	MDC

230419005.02			Collection Date: 04/19/2023 08:55 AM				Sampled By: Chris McMillin		
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	435	col/100mL	1	1	Grab	SM 9223B	04/19/2023 11:20 AM	MDC

Thank You,



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230426003.01			Collection Date: 04/25/2023 11:23 AM				Sampled By: Rhonda Baker			
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
CBOD	CBOD	7	mg/L	4	4	C24	SM 5210B (2011)	04/26/2023 02:00 PM	RLB	
Nitrate	Nitrate-N	22.6	mg/L	0.006	0.2	C24	SM 4110B 22nd Ed.	04/27/2023 12:48 AM	AJG	
Nitrite	Nitrite-N	< 0.2	mg/L	0.008	0.2	C24	SM 4110B 22nd Ed.	04/27/2023 12:48 AM	AJG	
Total Nitrogen	Total Nitrogen	23.0	mg/L			C24	SM 4500N A	05/03/2023 10:02 AM	JARS	
Total Suspended Solids	Total Suspended Solids	8	mg/L	6	6	C24	SM 2540D 22nd Ed.	04/26/2023 03:43 PM	SKP	

230426003.02			Collection Date: 04/25/2023 11:23 AM				Sampled By: Rhonda Baker			
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia as N	Ammonia	<0.2	mg/L	0.2	0.2	C24	SM 4500-NH3 D (2011)	04/26/2023 03:30 PM	JARS	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	<0.2	mg/L	0.2	0.2	C24	SM 4500-Norg/D 22nd Ed.	05/01/2023 04:32 PM	SKP	
Total Phosphorous	Total Phosphorus	4.43	mg/L	0.03	0.03	C24	SM 4500-P B.5/E 22nd	04/27/2023 10:00 AM	AJG	

230426003.03			Collection Date: 04/24/2023 11:17 AM				Sampled By: Rhonda Baker			
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	1414	col/100mL	1	1	Grab	SM 9223B	04/24/2023 02:40 PM	PDB	

230426003.04			Collection Date: 04/25/2023 11:08 AM				Sampled By: Rhonda Baker			
Project: KSR WQTC - Winter			Sample Description: T411INF				Matrix: Wastewater			
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst	
CBOD	CBOD	205	mg/L	4	4	C24	SM 5210B (2011)	04/26/2023 02:00 PM	RLB	
Nitrate	Nitrate-N	0.3	mg/L	0.006	0.2	C24	SM 4110B 22nd Ed.	04/27/2023 12:48 AM	AJG	
Nitrite	Nitrite-N	< 0.2	mg/L	0.008	0.2	C24	SM 4110B 22nd Ed.	04/27/2023 12:48 AM	AJG	
Total Nitrogen	Total Nitrogen	46.1	mg/L			C24	SM 4500N A	05/03/2023 10:02 AM	JARS	

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230426003.04			Collection Date: 04/25/2023 11:08 AM				Sampled By: Rhonda Baker		
Project: KSR WQTC - Winter			Sample Description: T411INF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
Total Suspended Solids	Total Suspended Solids	215	mg/L	6	6	C24	SM 2540D 22nd Ed.	04/26/2023 03:43 PM	SKP

230426003.05			Collection Date: 04/25/2023 11:08 AM				Sampled By: Rhonda Baker		
Project: KSR WQTC - Winter			Sample Description: T411INF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	45.6	mg/L	0.2	0.2	C24	SM 4500-Norg/D 22nd Ed.	05/01/2023 04:32 PM	SKP
Total Phosphorous	Total Phosphorus	6.94	mg/L	0.03	0.03	C24	SM 4500-P B.5/E 22nd	04/27/2023 10:00 AM	AJG

230426003.06			Collection Date: 04/24/2023 11:17 AM				Sampled By: Rhonda Baker		
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
D.O.	Dissolved Oxygen	7.0	mg/L	0.1		Grab	SM 4500-O G 21st	04/24/2023 11:17 AM	RLB
pH	pH	7.34	SU			Grab	SM4500 H+ B	04/24/2023 11:17 AM	RLB
Temperature	Temperature	15.1	C			Grab	SM 2550B 21st	04/24/2023 11:17 AM	RLB

230426003.07			Collection Date: 04/25/2023 01:30 PM				Sampled By: Client		
Project: KSR WQTC - Winter			Sample Description: T411EFF				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
Chlorine-Total	Chlorine, Total	<0.01	mg/L	0.01	0.01	Grab	HACH 8167	04/25/2023 01:30 PM	Client

Thank You,



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Beckmar Certificate Of Analysis 230425025

230425025.01			Collection Date: 04/25/2023 12:55 PM				Sampled By: Client		
Project: KSR WQTC - E-Coli			Sample Description: Effluent Resample				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	20	col/100mL	1	1	Grab	SM 9223B	04/25/2023 03:50 PM	RLB

230425025.02			Collection Date: 04/25/2023 01:10 PM				Sampled By: Client		
Project: KSR WQTC - E-Coli			Sample Description: Effluent Resample				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	MRL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	6	col/100mL	1	1	Grab	SM 9223B	04/25/2023 03:50 PM	RLB

Thank You,



Paul Barker
Lab Manager