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DEC 10 2024

CITY OF KNOXVILLE

BOCK INC.
MONTHLY REPORT FOR
NOVEMBER, 2024

SUBMITTED BY: SB

November, 2024

IEPA SUMMARY

There were no communications with IEPA.

MAINTENANCE SUMMARY

BOCK Inc. performed all preventive maintenance for the plant.

SAFETY

Because safety is an important part of our daily practice, we have been without a loss time injury at the plant for 268 months.

OPERATIONS SUMMARY

Influent flow averaged 300,413 gallons per day.

Electricity used totaled 46,464 kilowatt hours.

Rainfall totaled 3.08 inches.

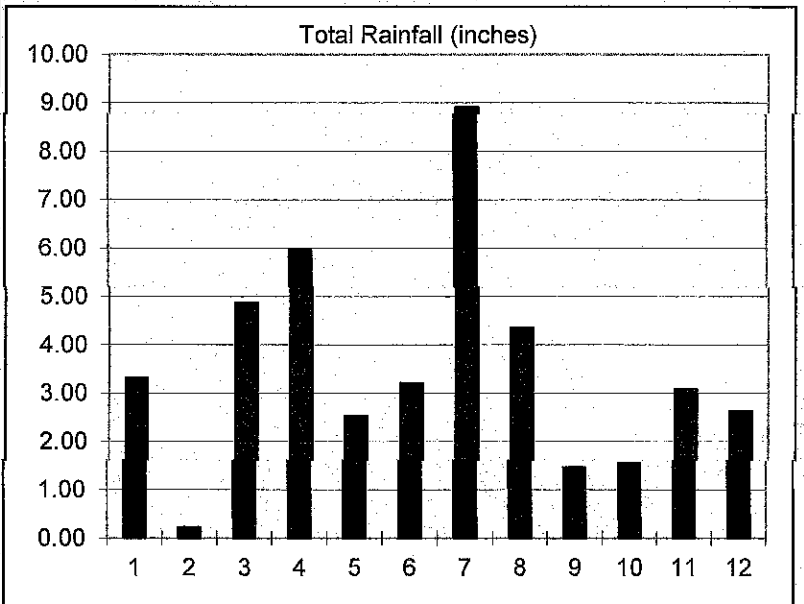
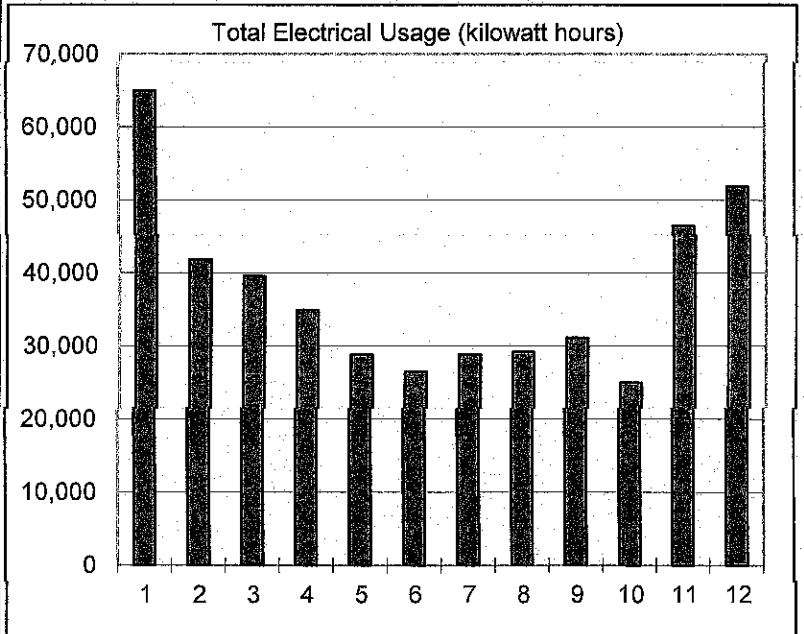
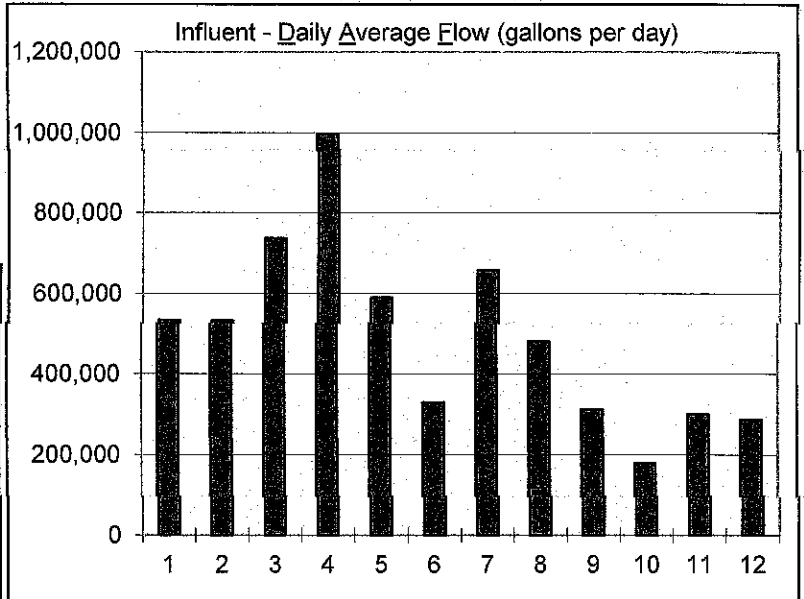
We experienced 0 days of excess flow discharge from outfall A01.

Knoxville, Illinois
Wastewater Treatment Plant
Twelve Month Moving Average Report
Submitted by
Bock Inc.

Date		Influent - Daily Average Flow (gallons per day)	Total Electrical Usage (kilowatt hours)	Total Rainfall (inches)
1	January 2024	534,503	64,896	3.30
2	February 2024	532,862	41,856	0.22
3	March 2024	736,532	39,552	4.86
4	April 2024	995,957	34,944	5.96
5	May 2024	589,558	28,800	2.53
6	June 2024	330,290	26,496	3.20
7	July 2024	657,816	28,792	8.91
8	August 2024	480,132	29,184	4.35
9	September 2024	312,203	31,104	1.46
10	October 2024	179,897	24,960	1.54
11	November 2024	300,413	46,464	3.08
12	December 2023	288,255	51,840	2.63
Total		5,938,418	448,888	42.04
Average		913,603	69,060	3.50

Plant Design Average Flow is
660,000 gallons per day

Plant Design Maximum Flow is
1,650,000 gallons per day



Knoxville, Illinois Wastewater Treatment Plant
 Operated by Bock Inc.
 Monthly Report November, 2024

Date	Influent Flow (mgd)	RAS Flow (mgd)	WAS Flow (mgd)	Influent TSS (mg/l)	B01 TSS (mg/l)	TSS % Removal (mg/l)	Influent TSS (lbs/day)	B01 TSS (lbs/day)	% Removal (lbs/day)	TSS (lbs/day)	pH (std. units)	Outfall B01		
												D.O. (mg/l)	NH3 as (N) (mg/l)	NH3 as (N) (lbs/day)
11/1/2024	0.148400	0.044500	0.000000											
11/2/2024	0.180000	0.054000	0.000000											
11/3/2024	0.467100	0.140100	0.000000											
11/4/2024	0.896900	0.269100	0.000000											
11/5/2024	1.011900	0.303600	0.008840											
11/6/2024	0.463500	0.139100	0.008840											
11/7/2024	0.335700	0.100700	0.008840								7.68	8.02	0.100	0.3
11/8/2024	0.312300	0.093700	0.000000	273	3.0	98.9	711	7.8	98.9					
11/9/2024	0.346900	0.104100	0.000000											
11/10/2024	0.286300	0.085900	0.000000											
11/11/2024	0.268900	0.080700	0.008840											
11/12/2024	0.261800	0.078500	0.000000											
11/13/2024	0.267800	0.080300	0.008840											
11/14/2024	0.240000	0.072000	0.000000											
11/15/2024	0.226400	0.067900	0.008840	136	3.4	97.5	257	6.4	97.5	7.59	7.88	0.100	0.2	
11/16/2024	0.222400	0.066700	0.000000											
11/17/2024	0.240700	0.072200	0.000000											
11/18/2024	0.390100	0.117000	0.000000											
11/19/2024	0.265000	0.079500	0.008840											
11/20/2024	0.236000	0.070800	0.000000											
11/21/2024	0.213200	0.064000	0.008840											
11/22/2024	0.213300	0.064000	0.088400											
11/23/2024	0.203400	0.061000	0.000000											
11/24/2024	0.241000	0.072000	0.000000											
11/25/2024	0.189400	0.056800	0.000000											
11/26/2024	0.187800	0.056300	0.008840											
11/27/2024	0.202400	0.060700	0.000000											
11/28/2024	0.179300	0.053800	0.000000											
11/29/2024	0.130200	0.039100	0.000000											
11/30/2024	0.184300	0.053800	0.000000											
Minimum	0.130200	0.039100	0.000000	136.0	3.0	97.5	257	6.4	97.5	7.59	7.88	<0.100	0.2	
Maximum	1.011900	0.303600	0.088400	273.0	3.4	98.9	711	7.8	98.9	7.68	8.02	<0.100	0.3	
Total	9.012400	2.701900	0.167960	409	6.4	196	968	14.2	196	15.3	15.9	0.200	0.5	
Average	0.300413	0.090063	0.005599	204.5	3.2	98.2	484	7.1	98.2	7.64	7.95	0.100	0.2	

Knoxville, Illinois Wastewater Treatment Plant
 Operated by Bock Inc.

Monthly Report for November, 2024

Date	Influent BOD (mg/l)	B01 CBOD (mg/l)	BOD % Removal (mg/l)	Influent BOD (lbs/day)	B01 CBOD (lbs/day)	BOD % Removal (lbs/day)	Electrical Usage (kwh's)	High Temperature (degrees F)	Low Temperature (degrees F)	Rainfall (inches)	Snowfall (inches)
11/1/2024							1,536	54.1	34.7		
11/2/2024							1,152	60.8	34.7	0.15	
11/3/2024							1,536	63.8	49.2	1.05	
11/4/2024							1,152	67.9	61.9	1.08	
11/5/2024							1,536	67.9	46.2	0.24	
11/6/2024							1,920	50.2	35.6		
11/7/2024	210	<4.00	98.1	588	11.2	98.1	1,152	57.0	34.9		
11/8/2024							1,536	61.6	40.2		
11/9/2024							1,152	61.6	40.2	0.11	
11/10/2024							1,536	56.1	42.1		
11/11/2024							1,152	55.7	31.6		
11/12/2024							1,152	48.8	37.9		
11/13/2024							1,920	53.2	41.2	0.04	
11/14/2024	150.0	<4.00	97.3	300	8.0	97.3	1,536	48.6	36.8		
11/15/2024							1,536	57.3	35.9		
11/16/2024							1,536	52.3	37.2		
11/17/2024							1,152	58.9	51.0		
11/18/2024							1,920	61.9	54.6	0.40	
11/19/2024							1,152	60.9	38.2	0.01	
11/20/2024							1,920	45.4	29.5		
11/21/2024							1,152	39.9	32.4		
11/22/2024							1,920	40.5	31.9		
11/23/2024							1,536	41.8	32.2		
11/24/2024							1,152	57.3	41.8		
11/25/2024							1,920	45.8	22.0		
11/26/2024							1,536	38.8	24.5		
11/27/2024							1,920	41.1	25.6		
11/28/2024							2,304	30.8	37.1		
11/29/2024							1,920	23.2	17.1		
11/30/2024							1,920	26.2	13.0		
Minimum	150.0	<4.00	97.3	300	8.0	97.3	1,152	23.2	13.0	0.01	0.0
Maximum	210.0	<4.00	98.1	588	11.2	98.1	2,304	67.9	61.9	1.08	0.0
Total	360.0	8.00	195.4	888	19.2	195.4	46,464	1,529	1,091	3.08	0.0
Average	180.0	4.00	97.7	444	9.6	97.7	1,549	51.0	36.4	0.39	0.0

Knoxville, Illinois Wastewater Treatment Plant
 Operated by Bock Inc.
 Monthly Report for November, 2024
 Outfall A01
 Excess Flow Discharge

Date	BOD (mg/l)	TSS (mg/l)	NH3 (as N) (mg/l)	Fecal Coliform (cfu's/100ml)	Flow (mgd)
11/1/2024					0.000000
11/2/2024					0.000000
11/3/2024					0.000000
11/4/2024					0.000000
11/5/2024					0.000000
11/6/2024					0.000000
11/7/2024					0.000000
11/8/2024					0.000000
11/9/2024					0.000000
11/10/2024					0.000000
11/11/2024					0.000000
11/12/2024					0.000000
11/13/2024					0.000000
11/14/2024					0.000000
11/15/2024					0.000000
11/16/2024					0.000000
11/17/2024					0.000000
11/18/2024					0.000000
11/19/2024					0.000000
11/20/2024					0.000000
11/21/2024					0.000000
11/22/2024					0.000000
11/23/2024					0.000000
11/24/2024					0.000000
11/25/2024					0.000000
11/26/2024					0.000000
11/27/2024					0.000000
11/28/2024					0.000000
11/29/2024					0.000000
11/30/2024					0.000000
Minimum					0.000000
Maximum					0.000000
Total					0.000000
Average					0.000000

Knoxville, Illinois Wastewater Treatment Plant
 Operated by Bock Inc.
 Monthly Report for Novmeber, 2024
 Outfall 001
 Excess Flow Discharge

Date	D.O. (mg/L)	BOD (mg/L)	pH (Std.Units)	TSS (mg/L)	NH3 (as N) (mg/L)	CL2 Residual (mg/L)	Flow (mgd)
11/01/24							0.148400
11/02/24							0.180000
11/03/24							0.467100
11/04/24							0.896900
11/05/24							1.011900
11/06/24							0.463500
11/07/24							0.335700
11/08/24							0.312300
11/09/24							0.346900
11/10/24							0.286300
11/11/24							0.268900
11/12/24							0.261800
11/13/24							0.267800
11/14/24							0.240000
11/15/24							0.226400
11/16/24							0.222400
11/17/24							0.240700
11/18/24							0.390100
11/19/24							0.265000
11/20/24							0.236000
11/21/24							0.213200
11/22/24							0.213300
11/23/24							0.203400
11/24/24							0.241000
11/25/24							0.189400
11/26/24							0.187800
11/27/24							0.202400
11/28/24							0.179300
11/29/24							0.130200
11/30/24							0.184300
Minimum							0.130200
Maximun							1.011900
Total							9.012400
Average							0.300413

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Form Approved OMB No. 2040-0004 expires on 07/31/2026

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Permit #: LU022209
Major: No
Permitted Feature: INF Influent Structure
Discharge: INF1 INFLUENT MONITORING
Facility: KNOXVILLE STP
Facility Location: 507 SOUTH DIVISION STREET, KNOXVILLE, TN 37648
Status: NetDNR Validated
Telephone: 308-852-2789

Monitoring Period: From 11/01/24 to 11/30/24
Considerations for Form Completion: BOW ID: W098090002
Principal Executive Officer: Stanley Bookewitz
First Name: Stanley
Last Name: Bookewitz
Title: Chief Operator
No Data Indicator (NODI): -
Form NODI: -

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Quality or Concentration	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	-	Sample Permit Test Value NODI									80.0			19 - 19GL	0	0399 - See Permit	CP - COLPFS
00590	Solids, total suspended	G - Raw Sewage Influent	0	-	Sample Permit Test Value NODI									204.5			19 - 19GL	0	0399 - See Permit	CP - COLPFS
50090	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	-	Sample Permit Test Value NODI	0.30413	Req Mon MD AVG	1.0719	Req Mon DAILY MAX	03 - MGD									9999 - Continuous	CP - COLPFS

Substitution 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.

Attachments: No attachments.
Report Last Saved By: KNOXVILLE, CITY OF
User: bookinc1992
Name: Stanley Bookewitz
E-Mail: slanh@bookinc.net
Date/Time: 2024-12-04 13:13 (Time Zone: -05:00)
Report Last Signed By: bookinc1992
User: Stanley Bookewitz
Name: Stanley Bookewitz
E-Mail: slanh@bookinc.net

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Form Approved OMB No. 2040-0004 expires on 07/31/2026

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Permit #: IL0022209
Major: No
Permitted Feature: B01 Internal Outfall
Report Dates & Status: From 11/01/24 to 11/30/24
Monitoring Period: 11/01/24 to 11/30/24
Considerations for Form Completion:
BOV ID: W0950300002
Principal Executive Officer: Stanley Bockswitz
First Name: Stanley
Last Name: Bockswitz
No. Data Indicator (NODI): -
Form NODI: -

Permittee: KNOXVILLE, CITY OF
Permittee Address: 33 NORTH SIDE PUBLIC SQUARE
 KNOXVILLE, IL 61448
Facility: KNOXVILLE STP
Facility Location: 507 SOUTH DIVISION STREET
 KNOXVILLE, IL 61448
Discharge: B01-0
 STP INTERNAL OUTFALL
Status: NotDMR Validated
DMR Due Date: 12/25/24
Title: Chief Operator
Telephone: 309-852-2789

Parameter Name	Monitoring Location	Season	Param. NODI	Quantity or Loading		Units		Quality of Concentration			Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
				Qualifier	Value 1	Qualifier	Value 2	Qualifier	Value 1	Qualifier					
00500 Oxygen, dissolved [DO]	1 - Effluent Gross	1	-	Sample Permit Recg. Value NODI	7.95	5.5 MO AV MN	>=	7.83	4.5 MN AV	>=	7.88	19 - mg/L	0	0230 - Twice Per Month	CP - COMPOS
00400 pH	1 - Effluent Gross	0	-	Sample Permit Recg. Value NODI	7.50	6.0 MINIMUM	>=	7.88	9.0 MAXIMUM	<=	7.88	12 - SU	0	0230 - Twice Per Month	GR - GRAB
00530 Solids, total suspended	1 - Effluent Gross	0	-	Sample Permit Recg. Value NODI	7.1	185.0 MO AVG	<=	7.8	330.0 DAILY MX	<=	3.4	19 - mg/L	0	0230 - Twice Per Month	CP - COMPOS
00610 Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	-	Sample Permit Recg. Value NODI	0.2	34.0 MO AVG	<=	0.1	2.5 MO AVG	<=	4.3 DAILY MX	19 - mg/L	0	0230 - Twice Per Month	CP - COMPOS
00610 Nitrogen, ammonia total [as N]	8 - Other Treatment, Process Complete	2	-	Sample Permit Recg. Value NODI	0.2	39.0 Wkly AVG	<=	0.2	2.8 Wkly AVG	<=	0.1	19 - mg/L	0	0230 - Twice Per Month	CP - COMPOS
50080 Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	-	Sample Permit Recg. Value NODI	0.30043	Reg Mon MO AVG	=	1.0116	Reg Mon DAILY MX	=	9899 - Continuous	0	9899 - Continuous		
50080 Chlorine, total residual	1 - Effluent Gross	0	-	Sample Permit Recg. Value NODI							0.05 DAILY MX	19 - mg/L		0230 - Twice Per Month	GR - GRAB

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Permit #: IL0022209
 Major: No
 Facility: KNOXVILLE, CITY OF
 33 NORTH SIDE PUBLIC SQUARE
 KNOXVILLE, IL 61448
 Facility Location: KNOXVILLE STP
 607 SOUTH DIVISION STREET
 KNOXVILLE, IL 61448

Permitted Feature: A01
 External Outfall
 Discharge: A01-0
 EXCESS FLOW
 Status: NEIDHILR Validated

Monitoring Period: From 11/01/24 to 11/30/24
 DMR Due Date: 12/28/24
 Considerations for Form Completion: BOW ID: W0980300002; NUMBER OF DAYS OF DISCHARGE:
 Pricial Executive Officer: Stanley
 Title: Chief Operator
 Telephone: 309-852-2789

First Name: Stanley
 Last Name: Rockewitz
 No Data Indicator (NDDI):
 From NDDI:

Code	Parameter Name	Monitoring Location	Session #	Param. NDDI	Sample Permit Req. Value NDDI	Quantity of Loading	Quality of Concentration	Frequency of Analysis	Sample Type	
						Quarter 1 Value 1	Quarter 1 Value 2	Quarter 2 Value 1	Quarter 2 Value 2	
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	-	Sample Permit Req. Value NDDI	Req Mon MD AVG	C - No Discharge	19 - mgt	DL/D5 - Daily When Discharging	GR - GPUB
00590	Solids, total suspended	1 - Effluent Gross	0	-	Sample Permit Req. Value NDDI	Req Mon MD AVG	C - No Discharge	19 - mgt	DL/D5 - Daily When Discharging	GR - GPUB
00810	Nitrogen, ammonia total (as N)	1 - Effluent Gross	0	-	Sample Permit Req. Value NDDI	Req Mon DAILY MIX	C - No Discharge	19 - mgt	DL/D5 - Daily When Discharging	GR - GPUB
74095	Coliform, fecal general	1 - Effluent Gross	0	-	Sample Permit Req. Value NDDI	Req Mon DAILY MIX	C - No Discharge	19 - #/100ml	DL/D5 - Daily When Discharging	GR - GPUB
82220	Flow, total	1 - Effluent Gross	0	-	Sample Permit Req. Value NDDI	Req Mon MD TOTAL	C - No Discharge	DL/D5 - Daily When Discharging	CN - CONTIN	

Submission Note: If a parameter row does not contain any values for the Sample or 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: No attachments.

Report Last Saved By: KNOXVILLE, CITY OF

User: bookinc1992
 Name: Stanley Rockewitz
 E-Mail: stanb@bookinc.net

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Permit #: IL0022209 **Permittee:** KNOXVILLE CITY OF
Major: No **Permit Address:** 39 NORTH SIDE PUBLIC SQUARE
 KNOXVILLE, IL 61748
Discharge: 001-0 COMBINED DISCHARGE FROM A01 AND B01
Report Dates & Status: From 1/10/24 to 1/30/24 **DMR Due Date:** 12/25/24 **Status:** **NotDMR Validated**
Monitoring Period: From 1/10/24 to 1/30/24
Considerations for Form Completion: BOW/ID: W085030002; NUMBER OF DAYS OF DISCHARGE:
Principal Executive Officer: Stanley Bockewitz **Title:** Chief Operator **Telephone:** 309-552-2799
First Name: Stanley **Last Name:** Bockewitz
No Data Indicator (NODI): - **Form NODI:** -

Code	Parameter Name	Monitoring Location	Season	Pigant. NOI	Quantity or Loading		Units	Quality or Concentration			# of ECs	Frequency of Analysis	Sample Type
					Qualifier 1 Value 1	Qualifier 2 Value 2		Qualifier 1 Value 1	Qualifier 2 Value 2	Qualifier 3 Value 3			
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon MO AV/AN C - No Discharge	Req Mon MN WK AV C - No Discharge	Req Mon DAILY MN C - No Discharge	19 - mg/L	D/D/S - Daily When Discharging	GR - GRAB		
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	30.0 MO AVG C - No Discharge	45.0 WKLY AVG C - No Discharge	9.0 MAXIMUM C - No Discharge	19 - mg/L	D/D/S - Daily When Discharging	GR - GRAB		
00400	pH	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	5.0 MINIMUM C - No Discharge	4.50 WKLY AVG C - No Discharge	9.0 MAXIMUM C - No Discharge	12 - SU	D/D/S - Daily When Discharging	GR - GRAB		
00530	Solids, total suspended	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	30.0 MO AVG C - No Discharge	45.0 WKLY AVG C - No Discharge	Req Mon DAILY MX C - No Discharge	19 - mg/L	D/D/S - Daily When Discharging	GR - GRAB		
00910	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon MO AVG C - No Discharge	Req Mon WK AVG C - No Discharge	Req Mon DAILY MX C - No Discharge	19 - mg/L	D/D/S - Daily When Discharging	GR - GRAB		
50060	Chlorine, total residual	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon MO AVG C - No Discharge	Req Mon WK AVG C - No Discharge	Req Mon DAILY MX C - No Discharge	19 - mg/L	D/D/S - Daily When Discharging	GR - GRAB		
82220	Flow, total	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon MO TOTAL 80 - Mgal/ho	Req Mon WK AVG C - No Discharge	Req Mon DAILY MX C - No Discharge	19 - mg/L	D/D/S - Daily When Discharging	QU - CONTIN		

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: