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CITY OF KNOXVILLE

BOCK INC.
MONTHLY REPORT FOR
OCTOBER, 2023

SUBMITTED BY: _____ SB _____

October, 2023

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 255 months.

OPERATIONS SUMMARY

Influent flow averaged 191,777 gallons per day.

Electricity used totaled 40,704 kilowatt hours.

Rainfall totaled 2.23 inches.

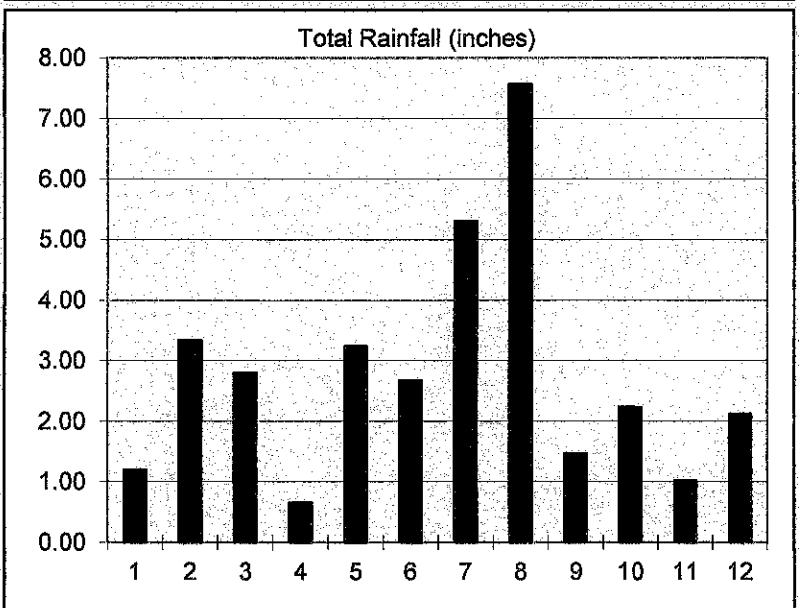
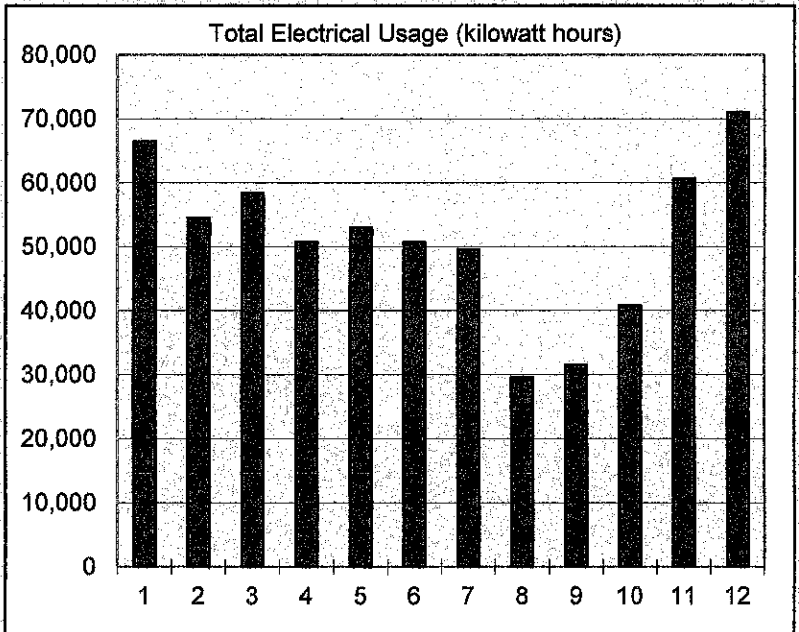
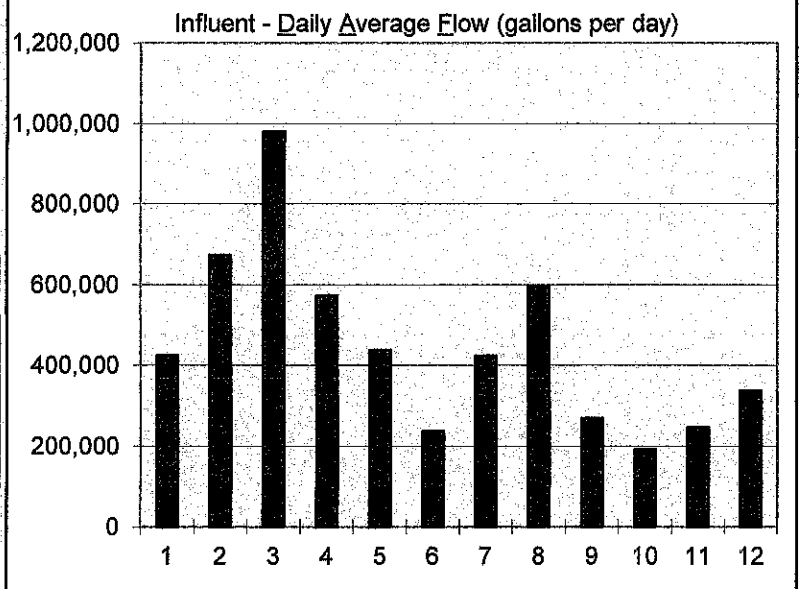
Dewatered sludge disposed of to the Knox County landfill totaled 0 tons.

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 2023	424,494	66,432	1.20
2	February 2023	672,811	54,528	3.33
3	March 2023	980,561	58,368	2.80
4	April 2023	573,453	50,688	0.65
5	May 2023	437,723	52,992	3.24
6	June 2023	237,153	50,688	2.67
7	July 2023	423,981	49,536	5.30
8	August 2023	595,277	29,568	7.56
9	September 2023	269,703	31,488	1.46
10	October 2023	191,777	40,704	2.23
11	November 2022	247,447	60,672	1.02
12	December 2022	338,439	71,056	2.12
Total		5,392,819	616,720	33.58
Average		829,664	94,880	2.80

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 October, 2023

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)	TSS % Removal (lbs/day)	Outfall B01				
										pH (std. units)	D.O. (mg/l)	NH3 as (N) (mg/l)	NH3 as (N) (lbs/day)	Fecal Coliform (cfu/100)
10/1/2023	0.206400	0.061900	0.000000											
10/2/2023	0.233300	0.070000	0.008840											
10/3/2023	0.225700	0.067700	0.000000											
10/4/2023	0.224700	0.067400	0.008840											
10/5/2023	0.222700	0.066800	0.008840											
10/6/2023	0.210100	0.063000	0.000000											
10/7/2023	0.159800	0.047900	0.000000											
10/8/2023	0.126500	0.038000	0.000000											
10/9/2023	0.131800	0.039500	0.000000											
10/10/2023	0.145800	0.043700	0.000000											
10/11/2023	0.148100	0.044400	0.013260											
10/12/2023	0.163300	0.049000	0.008840							7.42	7.08	0.100	0.1	2,420
10/13/2023	0.365100	0.109500	0.000000	203.0	7.6	96.3	618	23.1	96.3					
10/14/2023	0.117600	0.053300	0.000000											
10/15/2023	0.170300	0.051100	0.000000											
10/16/2023	0.169000	0.050700	0.013260											
10/17/2023	0.170300	0.051100	0.008840											
10/18/2023	0.187800	0.056300	0.000000											
10/19/2023	0.192500	0.057800	0.008840	363.0	6.4	98.2	583	10.3	98.2	7.18	7.92	0.100	0.2	2,420
10/20/2023	0.180000	0.054000	0.008840											
10/21/2023	0.159500	0.047900	0.000000											
10/22/2023	0.156900	0.047100	0.000000											
10/23/2023	0.178900	0.053700	0.008840											
10/24/2023	0.264500	0.070400	0.000000											
10/25/2023	0.267000	0.080100	0.008840											
10/26/2023	0.264400	0.079300	0.008840											
10/27/2023	0.232500	0.069800	0.000000											
10/28/2023	0.167400	0.050200	0.000000											
10/29/2023	0.180400	0.054100	0.000000											
10/30/2023	0.173800	0.052100	0.011050											
10/31/2023	0.149000	0.044700	0.000000											
Minimum	0.117600	0.038000	0.000000	203.0	6.4	96.3	583	10.3	96.3	7.18	7.08	<0.100	0.1	2,420
Maximum	0.365100	0.109500	0.013260	363.0	7.6	98.2	618	23.1	98.2	7.42	7.92	<0.100	0.2	2,420
Total	5.945100	1.792500	0.125970	566	14.0	194	1,201	33.4	194	14.6	15.0	0.200	0.3	4,840
Average	0.191777	0.057823	0.004064	283.0	7.0	97.2	600	16.7	97.2	7.30	7.50	0.100	0.1	2,420

Knoxville, Illinois Wastewater Treatment Plant
Operated by Bock Inc.
Monthly Report for October, 2023

Date	Influent BOD (mg/l)	BOD CBOD (mg/l)	BOD % Removal (mg/l)	Influent BOD (lbs/day)	BOD CBOD (lbs/day)	BOD % Removal (lbs/day)	Electrical Usage (kwh's)	High Temperature (degrees F)	Low Temperature (degrees F)	Rainfall (inches)	Snowfall (inches)
10/1/2023							1,152	85.1	55.7		
10/2/2023							768	84.4	56.0		
10/3/2023							1,152	85.4	60.0	0.01	
10/4/2023							1,152	81.1	59.3	0.01	
10/5/2023							1,152	77.1	43.5		
10/6/2023							1,152	55.2	40.6	0.03	
10/7/2023							1,152	59.2	40.6		
10/8/2023							1,152	64.9	36.7		
10/9/2023							1,152	60.6	31.9		
10/10/2023							1,152	63.1	35.4		
10/11/2023							1,152	61.4	43.3	0.13	
10/12/2023	220.0	<4.00	98.2	300	5.4	98.2	1,152	76.5	52.6	0.05	
10/13/2023							1,920	62.3	49.9	0.84	
10/14/2023							1,152	53.9	42.2		
10/15/2023							1,152	55.3	38.4		
10/16/2023							1,920	60.8	34.6		
10/17/2023							768	64.6	38.2		
10/18/2023							1,920	67.4	47.1	0.32	
10/19/2023	200	<4.00	98.0	321	6.4	98.0	1,152	56.1	44.5		
10/20/2023							1,152	66.8	43.5		
10/21/2023							1,152	68.7	38.7		
10/22/2023							1,152	60.6	38.8		
10/23/2023							1,152	73.1	48.8		
10/24/2023							1,152	78.5	48.8	0.60	
10/25/2023							1,920	66.7	59.3	0.20	
10/26/2023							1,152	66.2	60.5	0.04	
10/27/2023							1,920	66.1	34.5		
10/28/2023							1,536	66.1	34.5		
10/29/2023							1,920	38.6	26.0		
10/30/2023							1,152	38.6	25.8		
10/31/2023							1,920	35.1	20.6		
Minimum	200.0	<4.00	98.0	300	5.4	98.0	768	35.1	20.6	0.01	
Maximum	220.0	<4.00	98.2	321	6.4	98.2	1,920	85.4	60.5	0.84	
Total	420.0	8.00	196.2	621	11.9	196.2	40,704	2,000	1,330	2.23	
Average	210.0	4.00	98.1	311	5.9	98.1	1,313	64.5	42.9	0.22	

Knoxville, Illinois Wastewater Treatment Plant
 Operated by Bock Inc.
 Monthly Report for October, 2023
 Outfall A01
 Excess Flow Discharge

Date	BOD (mg/l)	TSS (mg/l)	NH3 (as N) (mg/l)	Fecal Coliform (cfu's/100ml)	Flow (mgd)
10/1/2023					0.000000
10/2/2023					0.000000
10/3/2023					0.000000
10/4/2023					0.000000
10/5/2023					0.000000
10/6/2023					0.000000
10/7/2023					0.000000
10/8/2023					0.000000
10/9/2023					0.000000
10/10/2023					0.000000
10/11/2023					0.000000
10/12/2023					0.000000
10/13/2023					0.000000
10/14/2023					0.000000
10/15/2023					0.000000
10/16/2023					0.000000
10/17/2023					0.000000
10/18/2023					0.000000
10/19/2023					0.000000
10/20/2023					0.000000
10/21/2023					0.000000
10/22/2023					0.000000
10/23/2023					0.000000
10/24/2023					0.000000
10/25/2023					0.000000
10/26/2023					0.000000
10/27/2023					0.000000
10/28/2023					0.000000
10/29/2023					0.000000
10/30/2023					0.000000
10/31/2023					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 October, 2023
 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)
10/01/23							0.206400
10/02/23							0.233300
10/03/23							0.225700
10/04/23							0.224700
10/05/23							0.222700
10/06/23							0.210100
10/07/23							0.159800
10/08/23							0.126500
10/09/23							0.131800
10/10/23							0.145800
10/11/23							0.148100
10/12/23							0.163300
10/13/23							0.365100
10/14/23							0.117600
10/15/23							0.170300
10/16/23							0.169000
10/17/23							0.170300
10/18/23							0.187800
10/19/23							0.192500
10/20/23							0.180000
10/21/23							0.159500
10/22/23							0.156900
10/23/23							0.178900
10/24/23							0.264500
10/25/23							0.267000
10/26/23							0.264400
10/27/23							0.232500
10/28/23							0.167400
10/29/23							0.180400
10/30/23							0.173800
10/31/23							0.149000
Minimum							0.117600
Maximun							0.365100
Total							5.945100
Average							0.191777

DMR Copy of Record

Permit #	IL0022209	Permittee Address	KNOXVILLE CITY OF 33 NORTH SIDE PUBLIC SQUARE KNOXVILLE, IL 61448	Facility Location	KNOXVILLE STP 507 SOUTH DIVISION STREET KNOXVILLE, IL 61448
Major	No	Discharge	INF INFLUENT MONITORING	Status	NotDMR Validated
Permitted Feature	INF Influent Structure	DMR Due Date	11/25/23	Telephone	309-552-2789
Report Dates & Status	From 10/01/23 to 10/31/23				
Monitoring Period	From 10/01/23 to 10/31/23				
Considerations for Form Completion					
BOW ID	W095000002				
Principal/Executive Officer	Stanley Bockewitz				
First Name	Stanley				
Last Name	Bockewitz				
No Data Indicator (NODI)	-				
Form NODI	-				

Code	Parameter Name	Monitoring Location	Season #	Param NODI	Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	-											
00530	Solids, total suspended	G - Raw Sewage Influent	0	-											
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	-											

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
No attachments.

Report Last Saved By
KNOXVILLE, CITY OF

User
Stanley Bockewitz

Name
stanb@bockinc.net

E-Mail
2023-11-14 08:03 (Time Zone: -06:00)

Date/Time
2023-11-14 08:03 (Time Zone: -06:00)

Report Last Signed By
Stanley Bockewitz

User
stanb@bockinc.net

Name
2023-11-14 08:05 (Time Zone: -06:00)

E-Mail
2023-11-14 08:05 (Time Zone: -06:00)

Date/Time

Permit #	IL0022209	Permittee:	KNOXVILLE CITY OF	Facility:	KNOXVILLE STP
Major:	No	Permittee Address:	33 NORTH SIDE PUBLIC SQUARE KNOXVILLE, IL 61446	Facility Location:	507 SOUTH DIVISION STREET KNOXVILLE, IL 61443
Permitted Feature:	B01- Internal Outfall	Discharge:	B01-0 STP INTERNAL OUTFALL	Status:	NoCDMR Validated
Report Dates & Status	From 10/01/23 to 10/31/23	DMR Due Date:	11/25/23	Telephone:	308-852-2789
Monitoring Period:		Title:	Chief Operator		
Consolidations for Form Completion					
BOW ID: X0950300002					
Principal Executive Officer					
First Name:	Stanley				
Last Name:	Bockewitz				
No Data Indicator (NODI)	-				
Form NODI:					
Case	Parameter Name	Monitoring Location	Season #	Permit NODI	Sample Type
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	1	-	CP - COMPOS
					CP - COMPOS
00400	pH	1 - Effluent Gross	0	-	GR - GRAB
					GR - GRAB
00530	Solids, total suspended	1 - Effluent Gross	0	-	CP - COMPOS
					CP - COMPOS
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	-	CP - COMPOS
					CP - COMPOS
00610	Nitrogen, ammonia total [as N]	8 - Other Treatment Process Complete	0	-	CP - COMPOS
					CP - COMPOS
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	-	GR - GRAB
					GR - GRAB
50050	Chlorine, total residual	1 - Effluent Gross	0	-	GR - GRAB
					GR - GRAB
74055	Coliform, fecal general	1 - Effluent Gross	0	-	CP - COMPOS
					CP - COMPOS
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	-	CP - COMPOS
					CP - COMPOS

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Tracking, 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

Chlorination did not occur during this monitoring period.

Attachments

No attachments

Report Last Saved By

KNOXVILLE, CITY OF

User:

Stanley Bockwitz

E-Mail:

stanb@bockwiz.net

Date/Time:

2023-11-14 08:02 (Time Zone: -06:00)

Report Last Signed By

User:

Stanley Bockwitz

E-Mail:

stanb@bockwiz.net

Date/Time:

2023-11-14 09:05 (Time Zone: -06:00)

Print Copy of Record

Permit #: IL0022209 Major: No		Permittee: KNOXVILLE, CITY OF Facility Location: 33 NORTH SIDE PUBLIC SQUARE KNOXVILLE, IL 61443		Facility: KNOXVILLE STP 507 SOUTH DIVISION STREET KNOXVILLE, IL 61448	
Permitted Feature: A01- External Outfall		Discharge: A01-0 EXCESS FLOW		Status: NetDMR Validated	
Report Dates & Status: Monitoring Period: From 10/01/23 to 10/31/23 Considerations for Form Completion:		DMR Due Date: 11/25/23		Telephone: 309-652-2789	
Principal Executive Officer: First Name: Stanley Last Name: Bockewitz		Title: Chief Operator		Frequency of Analysis: DL/D5 - Daily When Discharging GR - GRAB	
Form NODI: - No Data Indicator (NODI): -		Monitoring Location Season # Permit NODI: -		Units: 19 - mg/L	
Table		Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 3 Value 3 Qualifier 4 Value 4 Qualifier 5 Value 5		Quality of Concentration	
00510 BOD, 5-day, 20 deg. C		1 - Effluent Gross 0 -		Req Mon MO AVG C - No Discharge	
00530 Solids, total suspended		1 - Effluent Gross 0 -		Req Mon MO AVG C - No Discharge	
00610 Nitrogen, ammonia total [as N]		1 - Effluent Gross 0 -		Req Mon DAILY MX C - No Discharge	
74055 Coliform, fecal general		1 - Effluent Gross 0 -		400.0 DAILY MX C - No Discharge	
82220 Flow, total		1 - Effluent Gross 0 -		Req Mon MO TOTAL 80 - Megalino C - No Discharge	

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

No attachments.

Report Last Saved By:
 KNOXVILLE, CITY OF

User:

Name:

E-Mail:

Date/Time:

Report Last Signed By:

User:

Name:

E-Mail:

Date/Time:

bockno1992
 Stanley Bockewitz
 stanb@bookinc.net
 2023-11-14 07:56 (Time Zone: -05:00)

bockno1992
 Stanley Bockewitz
 stanb@bookinc.net
 2023-11-14 08:04 (Time Zone: -05:00)

DMR Copy of Record

Permit #:	Permittee:	Facility:
L0022208	KNOXVILLE, CITY OF	KNOXVILLE STP
Major:	Permittee Address:	Facility Location:
No	33 NORTH SIDE PUBLIC SQUARE KNOXVILLE, IL 61448	507 SOUTH DIVISION STREET KNOXVILLE, IL 61448
Permitted Feature:	Discharge:	Status:
001 External Outfall	001-0 COMBINED DISCHARGE FROM A01 AND B01	Not DMR Validated
Report Dates & Status	DMR Due Date:	Telephone:
Monitoring Period: From 10/01/23 to 10/31/23	11/25/23	309-552-2759
Considerations for Form Completion		
BOW ID: W095000002; NUMBER OF DAYS OF DISCHARGE:		
Principal Executive Officer:		
First Name:	Title:	
Stanley	Chief Operator	
Last Name:		
Bookwitz		
No Data Indicator (NODI)		
Form NODI:	Monitoring Location:	Session #
-	001	001
Parameter Name	Sample Permit Recd Value (NODI)	Sample Permit Recd Value (NODI)
00300 Oxygen, dissolved [DO]	1 - Effluent Gross 0	-
00310 BOD, 5-day, 20 deg. C	1 - Effluent Gross 0	-
00400 pH	1 - Effluent Gross 0	-
00500 Solids, total suspended	1 - Effluent Gross 0	-
00610 Nitrogen, ammonia total [as N]	1 - Effluent Gross 0	-
50000 Chlorine, total residual	1 - Effluent Gross 0	-
82220 Flow, total	1 - Effluent Gross 0	-
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		
No attachments.		
Report Last Saved By		
KNOXVILLE, CITY OF		
User:	Name:	E-Mail:
bookinc1892	Stanley Bookwitz	stanb@bookinc.net
Date/Time:	Report Last Signed By	
2023-11-14 07:56 (Time Zone: -06:00)	bookinc1902	

Name: Stanley Bockwitz
E-Mail: stanb@bockwitz.net
Date/Time: 2023-11-14 08:03 (Time Zone: -08:00)