

ONWASA

Onslow Water & Sewer Authority

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ONWASA Wastewater Facilities Annual Report 2013

Based on requirements set forth by the North Carolina Clean Water act of 1999, the Onslow Water and Sewer Authority (ONWASA) is required to produce this annual report on the performance of each Publicly Operated Treatment Works (POTW) and Collection System operated and maintained by ONWASA. This report is available for public review via Internet, the ONWASA Office and local Town Halls.

ONWASA is pleased to present to you this year's Wastewater Facilities Annual Report. This report is a summary of last year's wastewater facilities performance. Included are monthly descriptions of each facilities activity. Our constant goal through wastewater treatment is to protect public health and safety by minimizing the risk of further contamination to surface and ground waters, to protect the quality of surface and ground waters so they will continue to be available as a drinking water source for future generations and to prevent and abate public health hazards. We want you to understand the effort we make to continually improve the wastewater treatment process and protect our water resources. We are committed to providing you with this information, because informed customers provide support in our continuing efforts.

ONWASA manages 6 treatment facilities and 9 collection systems. The facilities are as follows: The Richlands Facility, The Holly Ridge Facility, The Kenwood Facility, The Swansboro Facility, The Webb Apt. Facility and the Hickory Grove Facility for collection and treatment Springdale and Piney Green are only collection systems operated by ONWASA. This report contains a description and snap shot of the monthly activities of each plant and the collection system operated by ONWASA.

Should you have any questions regarding this report you may contact ONWASA at:

ONWASA
228 Georgetown Rd.
Jacksonville, NC 28540
onwasa.com

Swansboro: Summary

Swansboro Wastewater Treatment Facility is located at 199 Williams Street and currently has three employees. The plant is designed to treat 0.6 Million Gallons per Day (mgd) and is rated a Grade 3 facility. The average daily flow received at the plant in 2013 was 0.305 mgd, which is 50 % of the design flow at the wastewater plant. The facility treated a total of 111,417,664 gallons during the year, which is approximately 9,284,805 gallons per month.

General Information

Facility Name: Swansboro Wastewater Treatment Plant
Facility Type/ Operation: Activated Sludge Extended Air
Responsible Entity: ONWASA
Facility Address: 199 Williams Road Swansboro, NC 28584
Facility Phone: 910-326-4819
Operator in Responsible Charge (ORC): Allen Rhue
ORC Type / Grade License: WW4, SI, CS2, SS, PC1
Applicable Facility Permit Numbers: WQ0023261

Description of Facility:

The Wastewater Facility is located in Swansboro on Williams Road where it was constructed in 1979. A Plant upgrade was completed in July of 2007 and the capacity was increased to 0.6 MGD. The current plant is equipped with (1) aerated equalization basin, Automatic bar screen and grit removal system, (2) Oxidation ditches, (3) secondary clarifiers, (1) aerobic digester, (1) fine bubble sludge holding tank, (1) return sludge pump station, (1) sludge transfer station, (3) Motor control centers, (2) tertiary filters, (1) triple bank UV light system, (1) effluent pump station, (1) upset pond, and (4) low rate infiltration basins.

Holly Ridge: Summary

Holly Ridge Wastewater Treatment Plant (WWTP) is located at 286 N. Jenkins Street and is currently staffed by three plant operators. The plant has a design capacity of 0.26 million gallons per day (mgd). The average flow at the plant in 2013 was 0.214 mgd, which is 82.3 % of the permitted design flow of the wastewater plant. The facility treated a total of 78,276,080 gallons during the past year. The facility sprayed a total of 58,790,120 gals.

General Information

Facility Name: Holly Ridge WWTP and Wastewater Surface Irrigation

Facility Type/ Operation: Grade 2 WWTP and Surface Irrigation Facility

Responsible Entity: ONWASA

Facility Address: 286 N. Jenkins St. Holly Ridge, N.C. 28445 (WWTP)

220 Dolph Everett Rd. Holly Ridge, N.C. 28445 (Surface Irrigation Facility)

Facility Phone: 910 329-0951

Operator in Responsible Charge (ORC): Allen W. Rhue

ORC Type / Grade License: WW4, SI, CS2, SS, PC1

Applicable Facility Permit Numbers: WQ0019907

Description of Facility:

The Holly Ridge WWTP is a 0.26 MGD Wastewater treatment facility consisting of headworks with manual bar screen and grit chamber, influent flow measurement with ultrasonic flow meter; a 1.82 (MG) treatment lagoon with three (3) aeration cells (cells 1&2 each have 2-25 HP aerators with anti-erosion baffles, cell 3 has 2-25 HP mixers with anti-erosion baffles), a 0.49 MG settling cell; an ultraviolet (UV) disinfection system; a 22,400 gallon aerobic sludge digester with a 2 HP aerator and 3 HP discharge pump; an effluent pump station with duplex 450 GPM pumps; and 17,900 ft. of 8 in. force main to Surface Irrigation Facility. The Surface Irrigation is a 0.24 MGD facility consisting of a 13.30 MG storage lagoon (51 days storage); ten(10) spray fields consisting of 93.42 wetted acres (789 total sprayheads); and an irrigation pump station with dual 700 GPM pumps and an effluent flow meter. The Holly Ridge WWTP and Surface Irrigation Facility is a Non-Discharge facility.

Richlands: Summary

Richlands Wastewater Treatment Facility is located at 203 Jimmy Powell Lane and is staffed by three operators. The plant is permitted to treat 0.25MGD. The average flow at the plant in 2013 was 0.216 mgd, which is 86.4 % of the permitted design flow of the wastewater plant. The facility treated a total of 78,673,876 gallons during the past year, which is approximately 6,556,156 gallons per monthly average.

Richlands: General Information

Facility Name: Richlands WWTP
Facility Type/ Operation: Activated Sludge Extended Air
Responsible Entity: ONWASA
Facility Address: 203 Jimmy Powell Lane
Richlands, NC 28574
Facility Phone: (910) 937-7572
Operator in Responsible Charge (ORC): Mark Young
ORC Type / Grade License: WW3, CS2, SI, SS
Applicable Facility Permit Numbers: NC0023230

Description of Facility:

The Richlands Wastewater Treatment Plant is a 0.25 mgd activated sludge treatment facility. The plant treats wastewater utilizing preliminary screening and grit removal, secondary treatment using an oxidation ditch and secondary clarifiers, tertiary effluent filtration, followed by chlorine disinfection, de-chlorination and post aeration prior to discharging effluent to Squires Run Creek.

Kenwood: Summary

Kenwood Wastewater Treatment Facility is located at 507 OCI Drive in Kenwood Subdivision off Blue Creek Road. The plant is operated by the staff at the Richlands facility. The plant has a design capacity of 0.049 mgd. The average flow for 2013 was 0.026 mgd, which is 79.5 % of the design flow of the wastewater plant. The facility treated a total of 9,334,590 gallons during the year. The plant discharges into Southwest Creek on Blue Creek Road.

Kenwood: General Information

Facility Name: Kenwood Wastewater Treatment Plant
Facility Type/ Operation: Activated Sludge Extend Air
Responsible Entity: ONWASA
Facility Address: 501 OCI Dr.
Jacksonville, NC. 28540
Facility Phone: 910-455-0722
Operator in Responsible Charge (ORC): Mark Young
ORC Type / Grade License: WW3, CS2, SI, SS
Applicable Facility Permit Numbers: NC 0030813

Description of Facility:

Wastewater Facility is located in the southwest area of Onslow County where it was constructed in 1976. The current plant is a .049 gallons per day, Treatment Facility. The Treatment process consist of, bar screens, flow equalization basin, 2 clarifiers, 2 sand filters, clearwell, effluent with gaseous chlorine and sodium bisulfite de-chlorination system.

Webb Apartments: Summary

The Webb Apartments Wastewater Treatment Facility is located at 1906 Piney Green Road, Northeast of Jacksonville in Onslow County. The plant is operated by the staff of the Swansboro WWTP. The system was acquired by ONWASA from the previous owner and operations under ONWASA management began in June 2012. The plant is designed to treat 0.025 Million Gallons per Day (mgd) and is rated a Grade 2 facility. The average daily flow received at the plant in 2013 was 0.007 mgd, which is 30.9% of the design flow at the wastewater plant. The facility treated a total of 2,596,720 gallons during the year, which is approximately 216,393 average gallons per month. The facility discharges treated effluent into the Little Northeast Creek, a Sub-basin of the White Oak River.

Webb Apartments: General Information

Facility Name: Webb Apartments Wastewater Treatment Plant
Facility Type/ Operation: Activated Sludge Extended Air
Responsible Entity: ONWASA
Facility Address: 1906 Piney Green Road, Jacksonville, NC
Facility Phone: 910-937-7539 or 7574
Operator in Responsible Charge (ORC): Allen Rhue
ORC Type / Grade License: WW4, SI, CS2, SS, PC1
Applicable Facility Permit Numbers: NC0023825

Description of Facility:

The Wastewater Facility is located northeast of Jacksonville on Piney Green Road. The plant is equipped with (1) Influent Pump Station, (1) Flow Equalization Basin, (1) Manual Bar Screen, (2) Aeration Basins, (1) Secondary Clarifier, (2) High Rate Filters, (1) Post Aeration Basin, (1) Aerobic Digester, (2) Duel Sludge Drying Beds, (1) Gaseous Chlorine System, and (1) Liquid De-chlorination System.

Hickory Grove: Summary

The Hickory Grove Wastewater Treatment Plant (WWTP) is located off Easy Street in the Hickory Grove Subdivision and is operated by the staff of the Swansboro WWTP. The plant is designed to treat 0.0225 MGD. The average flow at the plant in 2013 was 0.01 million gallons per day (MGD), which is 45 % of the design flow at the wastewater plant. The facility treated a total of 3,517,400 gallons during the year which is approximately 293,116 gallons per month.

Hickory Grove: General Information

Facility Name: Hickory Grove WWTP
Facility Type/ Operation: Facultative Lagoon
Responsible Entity: ONWASA
Facility Address: Hickory Grove Subdivision
Facility Phone: 910-455-0722
Operator in Responsible Charge (ORC): Allen Rhue
ORC Type / Grade License: WW4, SI, CS2, SS, PC1
Applicable Facility Permit Numbers: NC0034991

Description of Facility:

The facility is located off NCSR 1406 east of Jacksonville at the Hickory Grove Subdivision. The facility is rated to treat 0.0225 MGD. The system is comprised of a 2.9 acre lagoon, a tablet chorine system and a chlorine contact chamber with de-chlorination. The plant discharges to the Little Northeast Creek, classified C-NSW waters in the White Oak River Basin.

Collection System

Collection System Name: ONWAS Collection System
Collection System Grade/ Type Operation: Grade 4/ Domestic
Responsible Entity: Onslow Water and Sewer Authority (ONWASA)
Facility Address: 228 Georgetown Rd
Contact Phone: 910-937-7509
Operator in Responsible Charge (ORC): Timothy V. Webb
ORC Type / Grade License: CS Grade 4 License # 987495
Applicable Collection System Permit Numbers: WQCS00249

Description of Facility:

Swansboro-This system consist of one hundred and sixteen thousand one hundred and thirty feet (116,130') of gravity sewer ranging from sizes from eight inch (8") to eighteen inch (12"), and sixty-two thousand three hundred and eighty feet (62,380') of sewer force mains ranging from six inch (6") to twelve inch (12") and 22 pump stations.

Holly Ridge-This system consist of eight thousand four hundred and twenty-one feet (80,421') of gravity sewer ranging from eight inch (8") to twelve inch (12"), also twenty five thousand eight hundred and fifty feet (25,850') of force mains ranging from four inch (4") to eight inch (8") and nine pump stations.

Richlands-This system consist of eighty thousand seven hundred and forty- nine feet (80,749') of gravity sewer ranging from eight inch (8") to twelve inch (12"), also ninety two thousand five hundred and eighty-two feet (92,582') of force mains ranging from four inch (4") to six inch (12") and 13 pump stations.

Kenwood-Description of Facility: This system consists of nine thousand three hundred and fifty-one feet (9,351') of eight inch (8") gravity sewer and fifteen thousand nine hundred and forty-two feet (15,942') of four inch (4") force main, and two pump stations.

Webb Apts-This system consists of one thousand four hundred feet (1,400') of eight inch (8") gravity sewer.

Hickory Grove-This system consists of one thousand nine hundred and sixty feet (1,960') of gravity sewer.

Springdale-This system consist of eighteen thousand six hundred and seventy seven feet (18,677') of gravity sewer ranging from eight inch (8") to twelve inch (12"), ten thousand four hundred and twenty-four feet (10,424) of force mains ranging from four inch (4") to six inch (6") and two pump stations.

This system consist of thirty seven thousand and twenty-eight (37,028') 8" gravity sewer, nineteen thousand eight hundred and forty-two feet (19,842') of force mains ranging from four inch (4") to six inch (8") and five pump stations.

Piney Green-This system consist of fifty one thousand four hundred and forty nine feet (51,449') of gravity sewer ranging from eight inch (8") to fifteen inch (15"), sixty thousand three hundred and fifty-five feet (60,355') of force mains ranging from four inch (4") to six inch (24") and six pump stations.

2013
Swansboro WWTP
Annual WW Report

Jan.		
9,820,450	TOTAL GALLONS TREATED	
0.317	AVERAGE FLOW	
0.360	MAX DAY	
YES	WWTP IN COMPLIANCE (If NO Explain ->)	
1.71	TOTAL RAIN FALL	
8,278,500	GALLONS APPLIED TO PONDS	
0.267	AVERAGE FLOW (PERMIT FLOW 0.6 MGD)	
NO	OVERFLOW AT FACILITY?	
14048	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
0	ACRES MOWED	
Feb.		
9,509,600	TOTAL GALLONS TREATED	
0.340	AVERAGE FLOW	
0.466	MAX DAY	
YES	WWTP IN COMPLIANCE (If NO Explain ->)	
8.56	TOTAL RAIN FALL	
8,550,014	GALLONS APPLIED TO PONDS	
0.305	AVERAGE FLOW (PERMIT FLOW 0.6 MGD)	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
750	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
0	ACRES MOWED	
Mar.		
10,039,540	TOTAL GALLONS TREATED	
0.324	AVERAGE FLOW	
0.378	MAX DAY	
YES	WWTP IN COMPLIANCE (If NO Explain ->)	
2.3	TOTAL RAIN FALL	
8,843,194	GALLONS APPLIED TO PONDS	
0.285	AVERAGE FLOW (PERMIT FLOW 0.6 MGD)	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
5	ACRES MOWED	
Apr.		
10,062,660	TOTAL GALLONS TREATED	
0.335	AVERAGE FLOW	
0.411	MAX DAY	
YES	WWTP IN COMPLIANCE (If NO Explain ->)	
5.8	TOTAL RAIN FALL	
9,033,101	GALLONS APPLIED TO PONDS	
0.301	AVERAGE FLOW (PERMIT FLOW 0.6 MGD)	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
60	ACRES MOWED	
May		
9,997,100	TOTAL GALLONS TREATED	
0.322	AVERAGE FLOW	
0.382	MAX DAY	
YES	WWTP IN COMPLIANCE (If NO Explain ->)	
1.02	TOTAL RAIN FALL	
8,922,837	GALLONS APPLIED TO PONDS	
0.288	AVERAGE FLOW (PERMIT FLOW 0.6 MGD)	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
36	ACRES MOWED	
Jun.		
8,736,810	TOTAL GALLONS TREATED	
0.291	AVERAGE FLOW	
0.373	MAX DAY	
NO	WWTP IN COMPLIANCE (If NO Explain ->)	The facility failed daily and monthly limits for Ammonia due to a power failure. Aerators were off for several hours during this event.
8.81	TOTAL RAIN FALL	
9,270,841	GALLONS APPLIED TO PONDS	
0.309	AVERAGE FLOW (PERMIT FLOW 0.6 MGD)	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
46	ACRES MOWED	

Jul.
 10,411,973 TOTAL GALLONS TREATED
 0.336 AVERAGE FLOW
 0.383 MAX DAY
 YES WWTP IN COMPLIANCE (if NO Explain ->)
 4.49 TOTAL RAIN FALL
 10,913,024 GALLONS APPLIED TO PONDS
 0.352 AVERAGE FLOW (PERMIT FLOW 0.6 MGD)
 NO OVERFLOW AT FACILITY?
 3045 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?
 76 ACRES MOWED

Aug.
 8,822,786 TOTAL GALLONS TREATED
 0.285 AVERAGE FLOW
 0.395 MAX DAY
 YES WWTP IN COMPLIANCE (if NO Explain ->)
 5.7 TOTAL RAIN FALL
 9,023,176 GALLONS APPLIED TO PONDS
 0.291 AVERAGE FLOW (PERMIT FLOW 0.6 MGD)
 NO OVERFLOW AT FACILITY?
 970 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 YES COLLECTION SYSTEM OVERFLOWS?
 36 ACRES MOWED

On the 16th an SSO occurred near Shore Dr. and Hwy 24. The cause of the overflow was excessive grease build-up in the line. The line was jetted and the area was cleaned up. NC DWQ was notified of the incident.

Sep.
 8,241,660 TOTAL GALLONS TREATED
 0.275 AVERAGE FLOW
 0.309 MAX DAY
 YES WWTP IN COMPLIANCE (if NO Explain ->)
 2.15 TOTAL RAIN FALL
 7,491,333 GALLONS APPLIED TO PONDS
 0.250 AVERAGE FLOW (PERMIT FLOW 0.6 MGD)
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?
 58 ACRES MOWED

Oct.
 9,028,812 TOTAL GALLONS TREATED
 0.291 AVERAGE FLOW
 0.398 MAX DAY
 YES WWTP IN COMPLIANCE (if NO Explain ->)
 7.3 TOTAL RAIN FALL
 8,339,396 GALLONS APPLIED TO PONDS
 0.269 AVERAGE FLOW (PERMIT FLOW 0.6 MGD)
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?
 48 ACRES MOWED

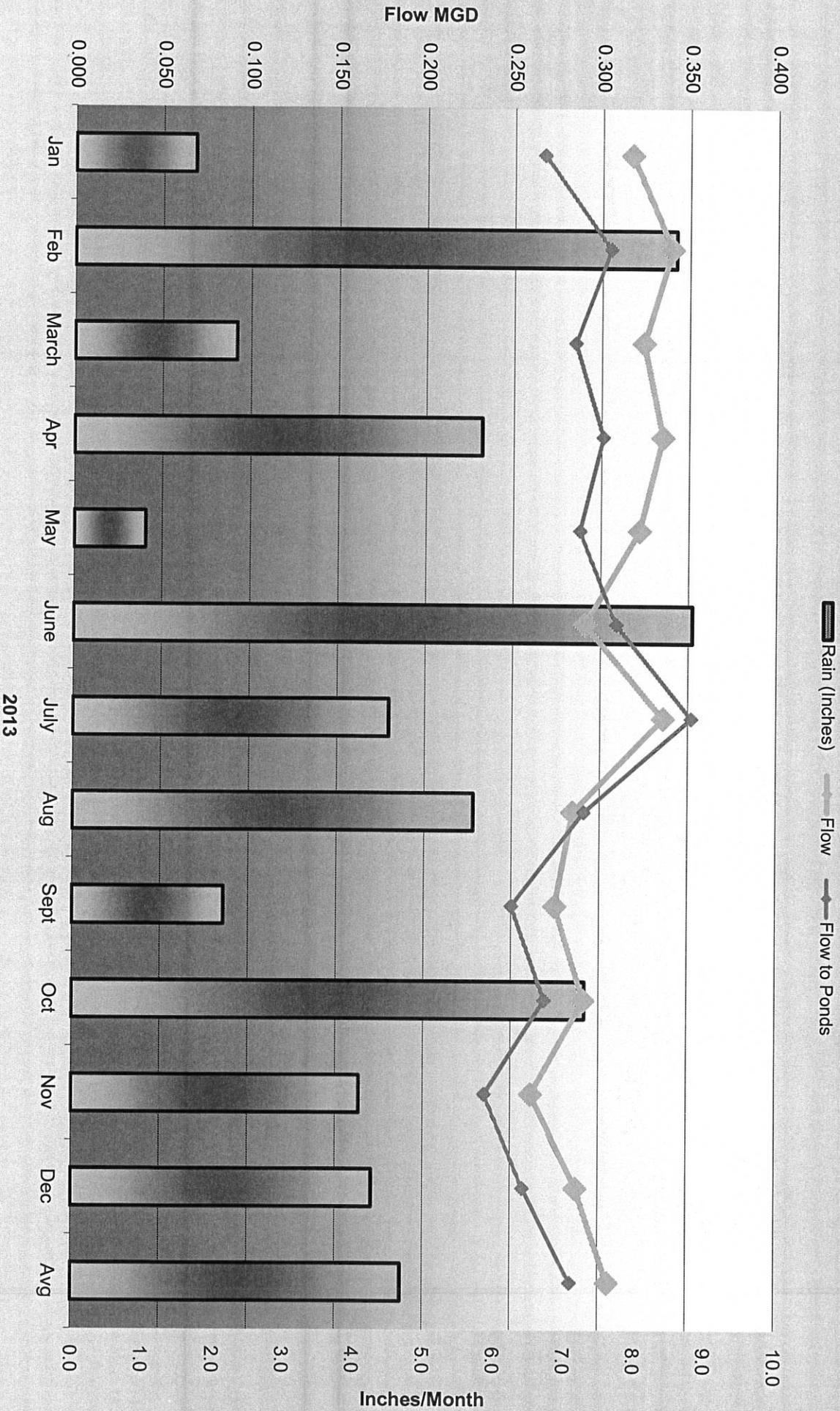
Nov.
 7,846,080 TOTAL GALLONS TREATED
 0.262 AVERAGE FLOW
 0.302 MAX DAY
 YES WWTP IN COMPLIANCE (if NO Explain ->)
 4.09 TOTAL RAIN FALL
 7,060,804 GALLONS APPLIED TO PONDS
 0.235 AVERAGE FLOW (PERMIT FLOW 0.6 MGD)
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?
 5 ACRES MOWED

Dec.
 8,900,193 TOTAL GALLONS TREATED
 0.287 AVERAGE FLOW
 0.338 MAX DAY
 YES WWTP IN COMPLIANCE (if NO Explain ->)
 4.27 TOTAL RAIN FALL
 7,979,652 GALLONS APPLIED TO PONDS
 0.257 AVERAGE FLOW (PERMIT FLOW 0.6 MGD)
 NO OVERFLOW AT FACILITY?
 672 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?
 0 ACRES MOWED

111,417,664	Total Treated
103,705,872	Total Spray
0.305	Average MG/day treated
0.284	Average MG/day sprayed

18735	Total Pipe Cleaned
750	Total Pipe Videoed

Swansboro WWTP



2013
Holly Ridge WWTP
Annual WW Report

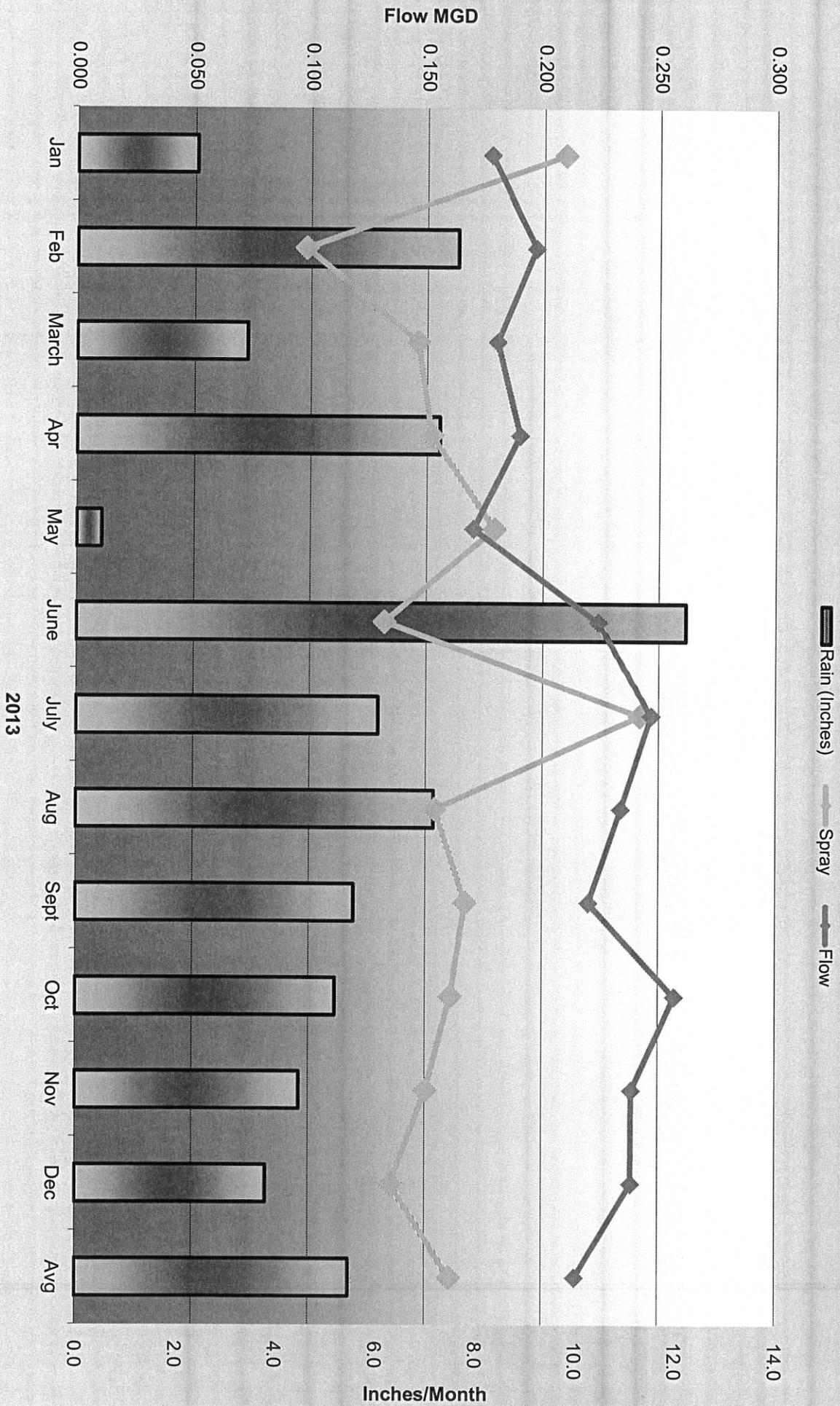
Jan.		
5,500,350	TOTAL GALLONS TREATED	
0.177	AVERAGE FLOW	
0.233	MAX DAY	
N	WWTP IN COMPLIANCE (If NO Explain ->)	2' freboard not maintained due to excessive rainfall.
2.38	TOTAL RAIN FALL	
6,489,095	GALLONS SPRAYED	
0.209	AVERAGE FLOW (PERMIT FLOW .242MGD)	
N	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
N	COLLECTION SYSTEM OVERFLOWS?	
0	ACRES MOWED	
Feb.		
5,506,250	TOTAL GALLONS TREATED	
0.197	AVERAGE FLOW	
0.269	MAX DAY	
N	WWTP IN COMPLIANCE (If NO Explain ->)	2' freboard not maintained due to excessive rainfall.
7.62	TOTAL RAIN FALL	
2,741,830	GALLONS SPRAYED	
0.098	AVERAGE FLOW (PERMIT FLOW .242MGD)	
N	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
400	COLLECTION SYSTEM PIPE VIDEOED	
N	COLLECTION SYSTEM OVERFLOWS?	
4	ACRES MOWED	
Mar.		
5,570,800	TOTAL GALLONS TREATED	
0.180	AVERAGE FLOW	
0.258	MAX DAY	
N	WWTP IN COMPLIANCE (If NO Explain ->)	2' freboard not maintained due to excessive rainfall.
3.4	TOTAL RAIN FALL	
4,538,565	GALLONS SPRAYED	
0.146	AVERAGE FLOW (PERMIT FLOW .242MGD)	
N	OVERFLOW AT FACILITY?	
134	COLLECTION SYSTEM PIPE CLEANED	
134	COLLECTION SYSTEM PIPE VIDEOED	
N	COLLECTION SYSTEM OVERFLOWS?	
0	ACRES MOWED	
Apr.		
5,696,000	TOTAL GALLONS TREATED	
0.190	AVERAGE FLOW	
0.224	MAX DAY	
N	WWTP IN COMPLIANCE (If NO Explain ->)	2' freboard not maintained due to excessive rainfall.
7.26	TOTAL RAIN FALL	
4,562,210	GALLONS SPRAYED	
0.152	AVERAGE FLOW (PERMIT FLOW .242MGD)	
N	OVERFLOW AT FACILITY?	
2265	COLLECTION SYSTEM PIPE CLEANED	
1434	COLLECTION SYSTEM PIPE VIDEOED	
N	COLLECTION SYSTEM OVERFLOWS?	
33	ACRES MOWED	
May		
5,269,880	TOTAL GALLONS TREATED	
0.170	AVERAGE FLOW	
0.193	MAX DAY	
N	WWTP IN COMPLIANCE (If NO Explain ->)	2' freboard not maintained due to excessive rainfall.
0.54	TOTAL RAIN FALL	
5,539,797	GALLONS SPRAYED	
0.179	AVERAGE FLOW (PERMIT FLOW .242MGD)	
N	OVERFLOW AT FACILITY?	
24010	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
N	COLLECTION SYSTEM OVERFLOWS?	
60	ACRES MOWED	
Jun.		
6,709,130	TOTAL GALLONS TREATED	
0.224	AVERAGE FLOW	
0.289	MAX DAY	
N	WWTP IN COMPLIANCE (If NO Explain ->)	2' freboard not maintained due to excessive rainfall.
12.21	TOTAL RAIN FALL	
3,947,283	GALLONS SPRAYED	
0.132	AVERAGE FLOW (PERMIT FLOW .242MGD)	
N	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
N	COLLECTION SYSTEM OVERFLOWS?	
35	ACRES MOWED	

Jul.			
7,650,970	TOTAL GALLONS TREATED		
0.247	AVERAGE FLOW		
0.411	MAX DAY		
N	WWTP IN COMPLIANCE (If NO Explain ->)		2' fireboard not maintained due to excessive rainfall.
6.04	TOTAL RAIN FALL		
7,500,160	GALLONS SPRAYED		
0.242	AVERAGE FLOW (PERMIT FLOW .242MGD)		
N	OVERFLOW AT FACILITY?		
2190	COLLECTION SYSTEM PIPE CLEANED		
205	COLLECTION SYSTEM PIPE VIDEOED		
N	COLLECTION SYSTEM OVERFLOWS?		
40	ACRES MOWED		
Aug.			
7,248,700	TOTAL GALLONS TREATED		
0.234	AVERAGE FLOW		
0.296	MAX DAY		
Y	WWTP IN COMPLIANCE (If NO Explain ->)		
7.16	TOTAL RAIN FALL		
4,771,045	GALLONS SPRAYED		
0.154	AVERAGE FLOW (PERMIT FLOW .242MGD)		
N	OVERFLOW AT FACILITY?		
0	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
N	COLLECTION SYSTEM OVERFLOWS?		
7	ACRES MOWED		
Sep.			
6,600,550	TOTAL GALLONS TREATED		
0.220	AVERAGE FLOW		
0.264	MAX DAY		
Y	WWTP IN COMPLIANCE (If NO Explain ->)		
5.56	TOTAL RAIN FALL		
5,019,201	GALLONS SPRAYED		
0.167	AVERAGE FLOW (PERMIT FLOW .242MGD)		
N	OVERFLOW AT FACILITY?		
0	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
N	COLLECTION SYSTEM OVERFLOWS?		
102	ACRES MOWED		
Oct.			
7,967,950	TOTAL GALLONS TREATED		
0.257	AVERAGE FLOW		
0.322	MAX DAY		
Y	WWTP IN COMPLIANCE (If NO Explain ->)		
5.19	TOTAL RAIN FALL		
4,983,468	GALLONS SPRAYED		
0.161	AVERAGE FLOW (PERMIT FLOW .242MGD)		
N	OVERFLOW AT FACILITY?		
355	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
N	COLLECTION SYSTEM OVERFLOWS?		
46.5	ACRES MOWED		
Nov.			
7,161,200	TOTAL GALLONS TREATED		
0.239	AVERAGE FLOW		
0.314	MAX DAY		
Y	WWTP IN COMPLIANCE (If NO Explain ->)		
4.48	TOTAL RAIN FALL		
4,507,379	GALLONS SPRAYED		
0.150	AVERAGE FLOW (PERMIT FLOW .242MGD)		
N	OVERFLOW AT FACILITY?		
0	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
N	COLLECTION SYSTEM OVERFLOWS?		
20	ACRES MOWED		
Dec.			
7,394,300	TOTAL GALLONS TREATED		
0.239	AVERAGE FLOW		
0.298	MAX DAY		
N	WWTP IN COMPLIANCE (If NO Explain ->)		2' fireboard not maintained due to excessive rainfall.
3.82	TOTAL RAIN FALL		
4,190,087	GALLONS SPRAYED		
0.135	AVERAGE FLOW (PERMIT FLOW .242MGD)		
N	OVERFLOW AT FACILITY?		
305	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
N	COLLECTION SYSTEM OVERFLOWS?		
0	ACRES MOWED		

78,276,080	Total Treated
58,790,120	Total Spray
0.214	Average MG/day treated
0.160	Average MG/day sprayed

29259	Total Pipe Cleaned
2173	Total Pipe Videoed

Holly Ridge WWTP



2013
Richlands
Annual WW Report

Jan.		
6,815,994	TOTAL GALLONS TREATED	
0.219871	AVERAGE FLOW (PERMIT FLOW 0.25 MGD)	
0.394	MAX DAY	
YES	WWTP IN COMPLIANCE (If NO Explain ->)	
1.7	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
Feb.		
9,520,749	TOTAL GALLONS TREATED	
0.340027	AVERAGE FLOW (PERMIT FLOW 0.25 MGD)	
0.632	MAX DAY	
NO	WWTP IN COMPLIANCE (If NO Explain ->)	The facility was non-compliant due to flow over permitted limit.
5.2	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
6700	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
Mar.		
6,288,677	TOTAL GALLONS TREATED	
0.202861	AVERAGE FLOW (PERMIT FLOW 0.25 MGD)	
0.338	MAX DAY	
YES	WWTP IN COMPLIANCE (If NO Explain ->)	
0.5	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
5244	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
Apr.		
5,351,842	TOTAL GALLONS TREATED	
0.178395	AVERAGE FLOW (PERMIT FLOW 0.25 MGD)	
0.314	MAX DAY	
NO	WWTP IN COMPLIANCE (If NO Explain ->)	The facility was non-compliant due to weekly BOD limit being exceeded.
3.8	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
May		
6,373,384	TOTAL GALLONS TREATED	
0.205593	AVERAGE FLOW (PERMIT FLOW 0.25 MGD)	
0.257	MAX DAY	
NO	WWTP IN COMPLIANCE (If NO Explain ->)	The facility was non-compliant due for exceeding the Total Residual Chlorine limit.
1.7	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
Jun.		
8,985,776	TOTAL GALLONS TREATED	
0.299526	AVERAGE FLOW (PERMIT FLOW 0.25 MGD)	
0.565	MAX DAY	
NO	WWTP IN COMPLIANCE (If NO Explain ->)	The facility was non-compliant for exceeding the monthly limits for BOD and NH3. In addition a weekly fecal limit was exceeded and collection of stream D.O. and Temperature was not collected.
8.7	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
7615	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	

Jul.
7,382,273 TOTAL GALLONS TREATED
0.238138 AVERAGE FLOW (PERMIT FLOW 0.25 MGD)
0.564 MAX DAY
NO **WWTP IN COMPLIANCE (If NO Explain ->)**
3 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

The facility was non-compliant due to exceeding two BOD weekly limits.

Aug.
6,534,290 TOTAL GALLONS TREATED
0.210784 AVERAGE FLOW (PERMIT FLOW 0.25MGD)
0.399 MAX DAY
NO **WWTP IN COMPLIANCE (If NO Explain ->)**
6.2 TOTAL RAIN FALL
YES OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

The facility was non-compliant due to exceeding the flow average, monthly BOD limit and monthly Ammonia limits. On Aug. 19 the plant experienced heavy rains that caused a surge over 0.9 MGD causing a spill of 50,000 gallons of secondary treated effluent to Squires Run Creek.

Sep.
5,880,606 TOTAL GALLONS TREATED
0.196020 AVERAGE FLOW (PERMIT FLOW 0.25 MGD)
0.272 MAX DAY
NO **WWTP IN COMPLIANCE (If NO Explain ->)**
2.4 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
280 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

The facility was non-compliant due to exceeding two weekly fecal coliform limits.

Oct.
5,743,233 TOTAL GALLONS TREATED
0.185266 AVERAGE FLOW (PERMIT FLOW 0.25 MGD)
0.257 MAX DAY
YES **WWTP IN COMPLIANCE (If NO Explain ->)**
1.7 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Nov.
4,666,052 TOTAL GALLONS TREATED
0.155535 AVERAGE FLOW (PERMIT FLOW 0.25 MGD)
0.265 MAX DAY
NO **WWTP IN COMPLIANCE (If NO Explain ->)**
5.1 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

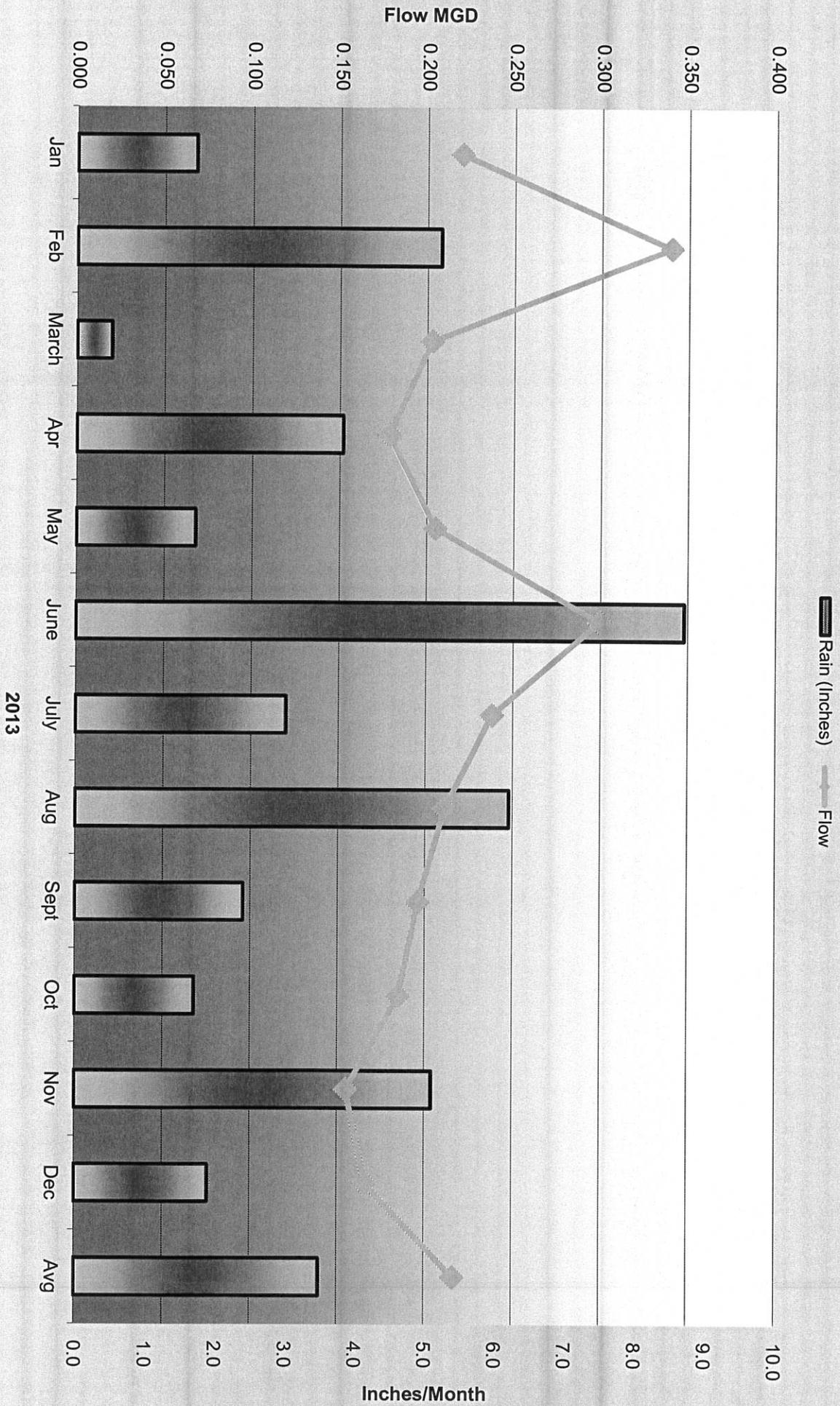
The facility was non-compliant due to exceeding a weekly fecal coliform limit.

Dec.
5,131,000 TOTAL GALLONS TREATED
0.165516 AVERAGE FLOW (PERMIT FLOW 0.25 MGD)
0.271 MAX DAY
YES **WWTP IN COMPLIANCE (If NO Explain ->)**
1.9 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

The facility was non-compliant due to exceeding a weekly fecal coliform limit.

78,673,876	Total Treated
0.216	Average MG/Day
19559	Total Pipe Cleaned
280	Total Pipe Videoed

Richlands WWTP



2013
Kenwood
Annual WW Report

Jan.			
1,044,311	TOTAL GALLONS TREATED		
0.033687	AVERAGE FLOW (PERMIT FLOW 0.049 MGD)		
0.048	MAX DAY		
YES	WWTP IN COMPLIANCE (If NO Explain ->)		
3	TOTAL RAIN FALL		
NO	OVERFLOW AT FACILITY?		
0	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
NO	COLLECTION SYSTEM OVERFLOWS?		
Feb.			
1,013,781	TOTAL GALLONS TREATED		
0.036206	AVERAGE FLOW (PERMIT FLOW 0.049 MGD)		
0.080	MAX DAY		
YES	WWTP IN COMPLIANCE (If NO Explain ->)		
6.4	TOTAL RAIN FALL		
NO	OVERFLOW AT FACILITY?		
0	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
NO	COLLECTION SYSTEM OVERFLOWS?		
Mar.			
867,282	TOTAL GALLONS TREATED		
0.027977	AVERAGE FLOW (PERMIT FLOW 0.049 MGD)		
0.041	MAX DAY		
YES	WWTP IN COMPLIANCE (If NO Explain ->)		
1.6	TOTAL RAIN FALL		
NO	OVERFLOW AT FACILITY?		
0	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
NO	COLLECTION SYSTEM OVERFLOWS?		
Apr.			
700,571	TOTAL GALLONS TREATED		
0.023352	AVERAGE FLOW (PERMIT FLOW 0.049 MGD)		
0.041	MAX DAY		
YES	WWTP IN COMPLIANCE (If NO Explain ->)		
5.4	TOTAL RAIN FALL		
NO	OVERFLOW AT FACILITY?		
0	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
NO	COLLECTION SYSTEM OVERFLOWS?		
May			
772,304	TOTAL GALLONS TREATED		
0.024913	AVERAGE FLOW (PERMIT FLOW 0.049 MGD)		
0.032	MAX DAY		
YES	WWTP IN COMPLIANCE (If NO Explain ->)		
1.3	TOTAL RAIN FALL		
NO	OVERFLOW AT FACILITY?		
0	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
NO	COLLECTION SYSTEM OVERFLOWS?		
Jun.			
752,509	TOTAL GALLONS TREATED		
0.025084	AVERAGE FLOW (PERMIT FLOW 0.049 MGD)		
0.041	MAX DAY		
YES	WWTP IN COMPLIANCE (If NO Explain ->)		
12.1	TOTAL RAIN FALL		
NO	OVERFLOW AT FACILITY?		
0	COLLECTION SYSTEM PIPE CLEANED		
0	COLLECTION SYSTEM PIPE VIDEOED		
NO	COLLECTION SYSTEM OVERFLOWS?		

Jul.
 781,910 TOTAL GALLONS TREATED
 0.025223 AVERAGE FLOW (PERMIT FLOW 0.049 MGD)
 0.051 MAX DAY
 NO **WWTP IN COMPLIANCE (If NO Explain ->)**
 6.2 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

The treatment facility failed the average daily limit for fecal coliform 200 (2420). The failure was due to the chlorine regulator and pump.

Aug.
 622,985 TOTAL GALLONS TREATED
 0.020096 AVERAGE FLOW (PERMIT FLOW 0.049 MGD)
 0.029 MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 4.8 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Sep.
 622,985 TOTAL GALLONS TREATED
 0.020766 AVERAGE FLOW (PERMIT FLOW 0.049 MGD)
 0.037 MAX DAY
 NO **WWTP IN COMPLIANCE (If NO Explain ->)**
 4.8 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

The Treatment facility exceeded a daily residual chlorine limit and had a quarterly total Nitrogen frequency violation

Oct.
 733,396 TOTAL GALLONS TREATED
 0.023658 AVERAGE FLOW (PERMIT FLOW 0.049 MGD)
 0.028 MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 3.6 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

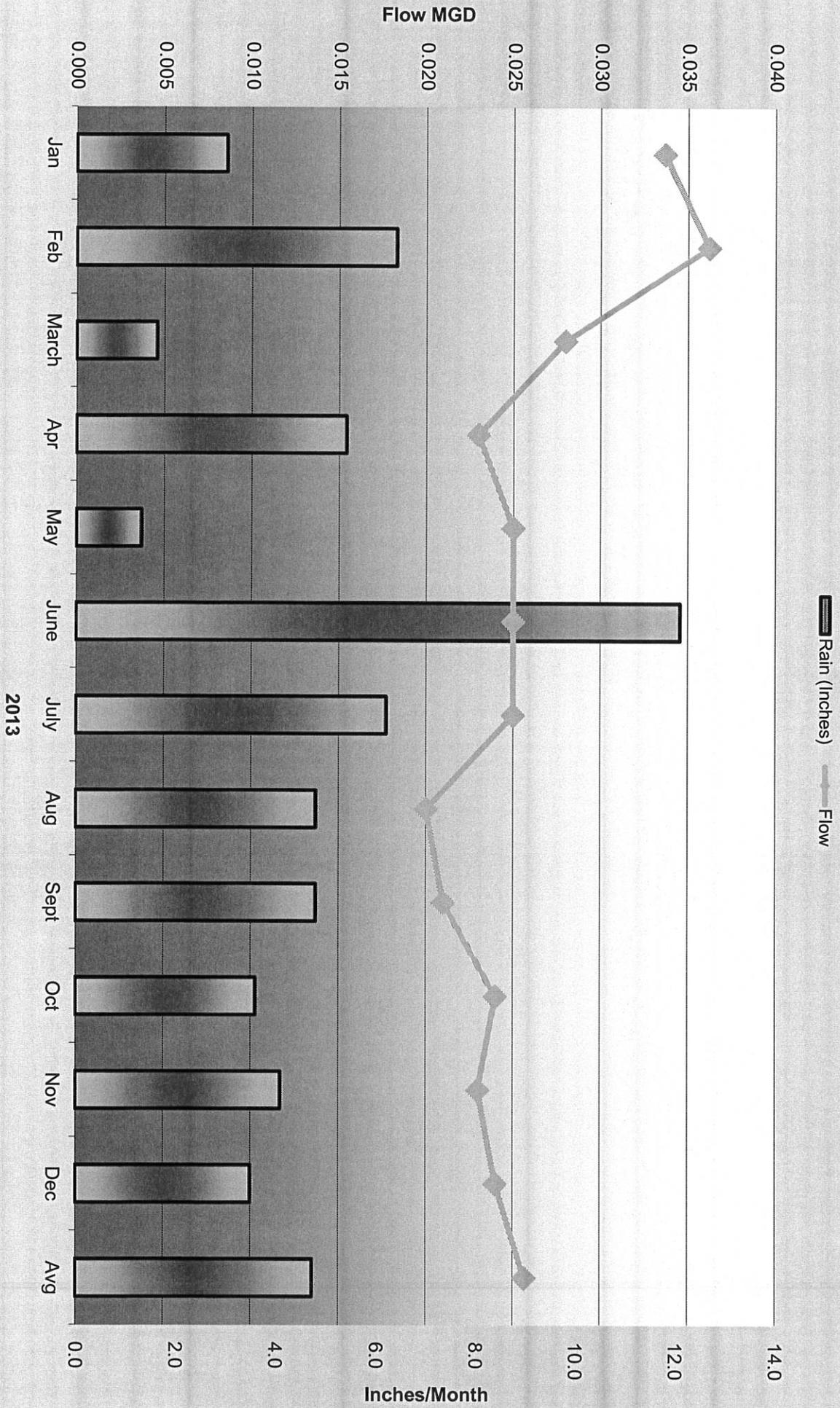
Nov.
 682,124 TOTAL GALLONS TREATED
 0.022737 AVERAGE FLOW (PERMIT FLOW 0.049 MGD)
 0.035 MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 4.1 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Dec.
 740,432 TOTAL GALLONS TREATED
 0.023885 AVERAGE FLOW (PERMIT FLOW 0.049 MGD)
 0.038 MAX DAY
 NO **WWTP IN COMPLIANCE (If NO Explain ->)**
 3.5 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 1225 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

The Treatment Facility exceed the allowable limits for chlorine.

9,334,590	Total Treated
0.026	Average MG/Day
1225	Total Pipe Cleaned
0	Total Pipe Videoed

Kenwood WWTP



2013
Webb Apts. WWTP
Annual WW Report

Jan.
204,550 TOTAL GALLONS TREATED
0.007 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
0.010 MAX DAY
YES **WWTP IN COMPLIANCE (If NO Explain ->)**
1.66 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Feb.
180,830 TOTAL GALLONS TREATED
0.006 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
0.009 MAX DAY
YES **WWTP IN COMPLIANCE (If NO Explain ->)**
7.1 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Mar.
235,060 TOTAL GALLONS TREATED
0.008 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
0.010 MAX DAY
YES **WWTP IN COMPLIANCE (If NO Explain ->)**
2.2 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Apr.
196,630 TOTAL GALLONS TREATED
0.007 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
0.008 MAX DAY
YES **WWTP IN COMPLIANCE (If NO Explain ->)**
5.8 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

May
178,610 TOTAL GALLONS TREATED
0.006 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
0.009 MAX DAY
YES **WWTP IN COMPLIANCE (If NO Explain ->)**
0.1 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Jun.
188,020 TOTAL GALLONS TREATED
0.006 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
0.010 MAX DAY
YES **WWTP IN COMPLIANCE (If NO Explain ->)**
12.8 TOTAL RAIN FALL
NO OVERFLOW AT FACILITY?
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Jul.
 289,470 TOTAL GALLONS TREATED
 0.009 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
 0.017 MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 4.8 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Aug.
 209,900 TOTAL GALLONS TREATED
 0.007 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
 0.011 MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 7.2 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Sep.
 199,310 TOTAL GALLONS TREATED
 0.007 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
 0.010 MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 2.15 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Oct.
 251,360 TOTAL GALLONS TREATED
 0.008 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
 0.015 MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 5.4 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Nov.
 260,170 TOTAL GALLONS TREATED
 0.009 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
 0.015 MAX DAY
 NO **WWTP IN COMPLIANCE (If NO Explain ->)**
 2.5 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

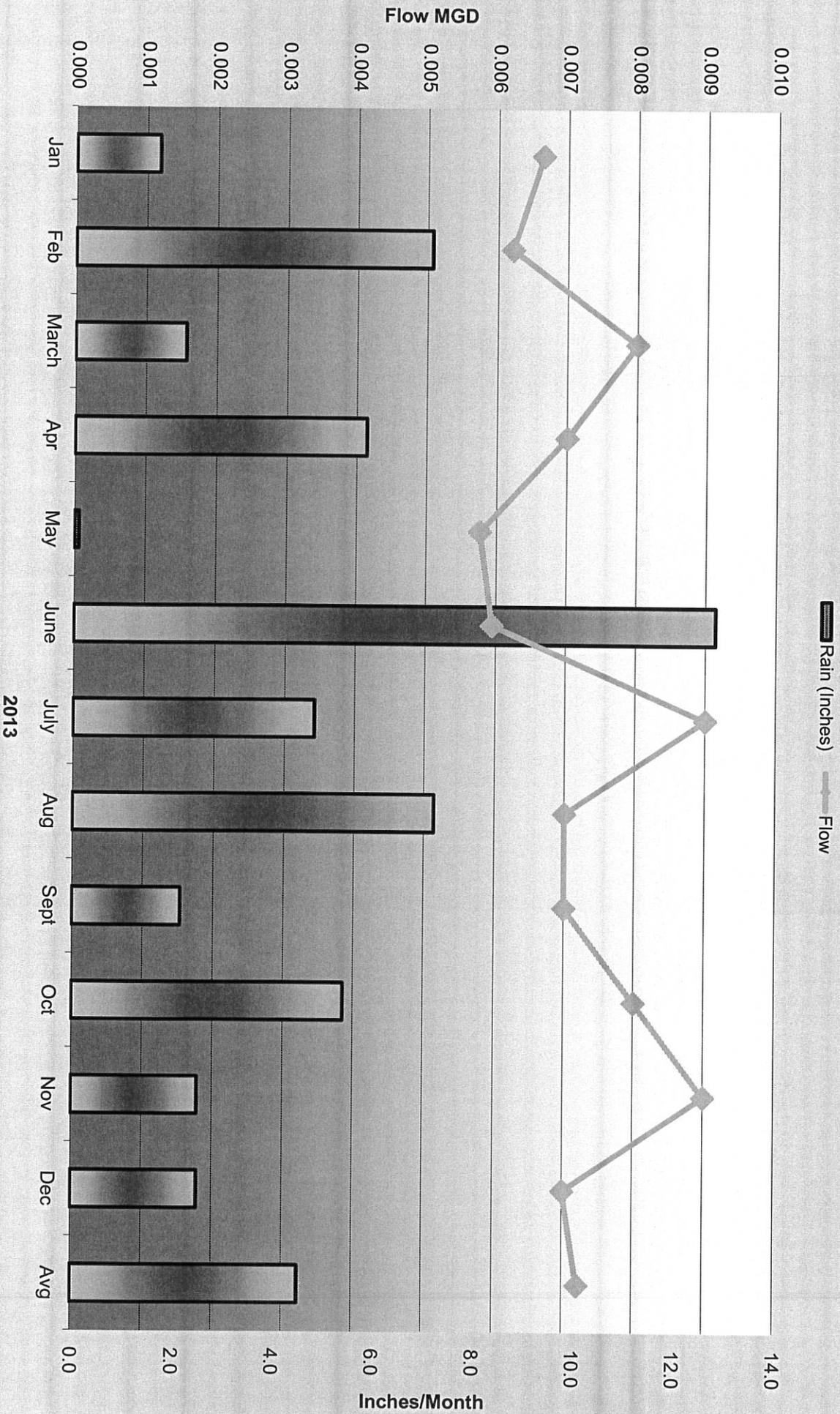
The treatment facility failed the weekly BOD average of 45 mg/l (46.2 mg/l). The cause has been determined to be the feed rate of our dechlor chemical.

Dec.
 202,810 TOTAL GALLONS TREATED
 0.007 AVERAGE FLOW (PERMIT FLOW 0.025 MGD)
 0.012 MAX DAY
 NO **WWTP IN COMPLIANCE (If NO Explain ->)**
 2.5 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

The treatment facility failed the weekly BOD average of 45 mg/l (149.6 mg/l) and the monthly BOD average of 30 mg/l (45.02 mg/l).

2,596,720	Total Treated
0.007	Average MG/Day
0	Total Pipe Cleaned
0	Total Pipe Videoed

Webb Apts. WWTP



2013
Hickory Grove
Annual WW Report

Jan.		
285,600	TOTAL GALLONS TREATED	
0.009213	AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)	
0.009	MAX DAY	
NO	WWTP IN COMPLIANCE (If NO Explain ->)	The facility failed the weekly BOD of 30 mg/l (47.4 mg/l) and weekly fecal coliform limits of 200 (240).
1.31	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
Feb.		
313,200	TOTAL GALLONS TREATED	
0.011186	AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)	
0.011	MAX DAY	
NO	WWTP IN COMPLIANCE (If NO Explain ->)	The facility failed the weekly fecal coliform limit of 200 (692). This was caused by the chlorine drip feed line clogging.
4.8	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
Mar.		
281,300	TOTAL GALLONS TREATED	
0.009074	AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)	
0.009	MAX DAY	
NO	WWTP IN COMPLIANCE (If NO Explain ->)	The facility failed due to exceeding the BOD and TSS levels. Additional samples could not be taken because of periods of no flow. Staff had preformed maintainance on the effluent tank the day before which may have caused the failure.
2.3	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
Apr.		
325,700	TOTAL GALLONS TREATED	
0.010857	AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)	
No Flow	MAX DAY	
YES	WWTP IN COMPLIANCE (If NO Explain ->)	No discharge, flow based on water usage.
3.8	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
May		
274,000	TOTAL GALLONS TREATED	
0.008839	AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)	
0.009	MAX DAY	
NO	WWTP IN COMPLIANCE (If NO Explain ->)	The facility due to exceeding the weekly fecal limit.
0.1	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
0	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	
Jun.		
288,100	TOTAL GALLONS TREATED	
0.009603	AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)	
No Flow	MAX DAY	
YES	WWTP IN COMPLIANCE (If NO Explain ->)	No discharge, flow based on water usage.
7.5	TOTAL RAIN FALL	
NO	OVERFLOW AT FACILITY?	
3080	COLLECTION SYSTEM PIPE CLEANED	
0	COLLECTION SYSTEM PIPE VIDEOED	
NO	COLLECTION SYSTEM OVERFLOWS?	

Jul.
 296,800 TOTAL GALLONS TREATED
 0.009574 AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)
 0.010 MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 4.8 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Aug.
 306,200 TOTAL GALLONS TREATED
 0.009877 AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)
 No Flow MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 5.55 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

No discharge, flow based on water usage.

Sep.
 329,600 TOTAL GALLONS TREATED
 0.010987 AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)
 No Flow MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 8.2 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

No discharge, flow based on water usage.

Oct.
 252,300 TOTAL GALLONS TREATED
 0.008139 AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)
 No Flow MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 4.1 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

No discharge, flow based on water usage.

Nov.
 281,800 TOTAL GALLONS TREATED
 0.009393 AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)
 No Flow MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 3.4 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

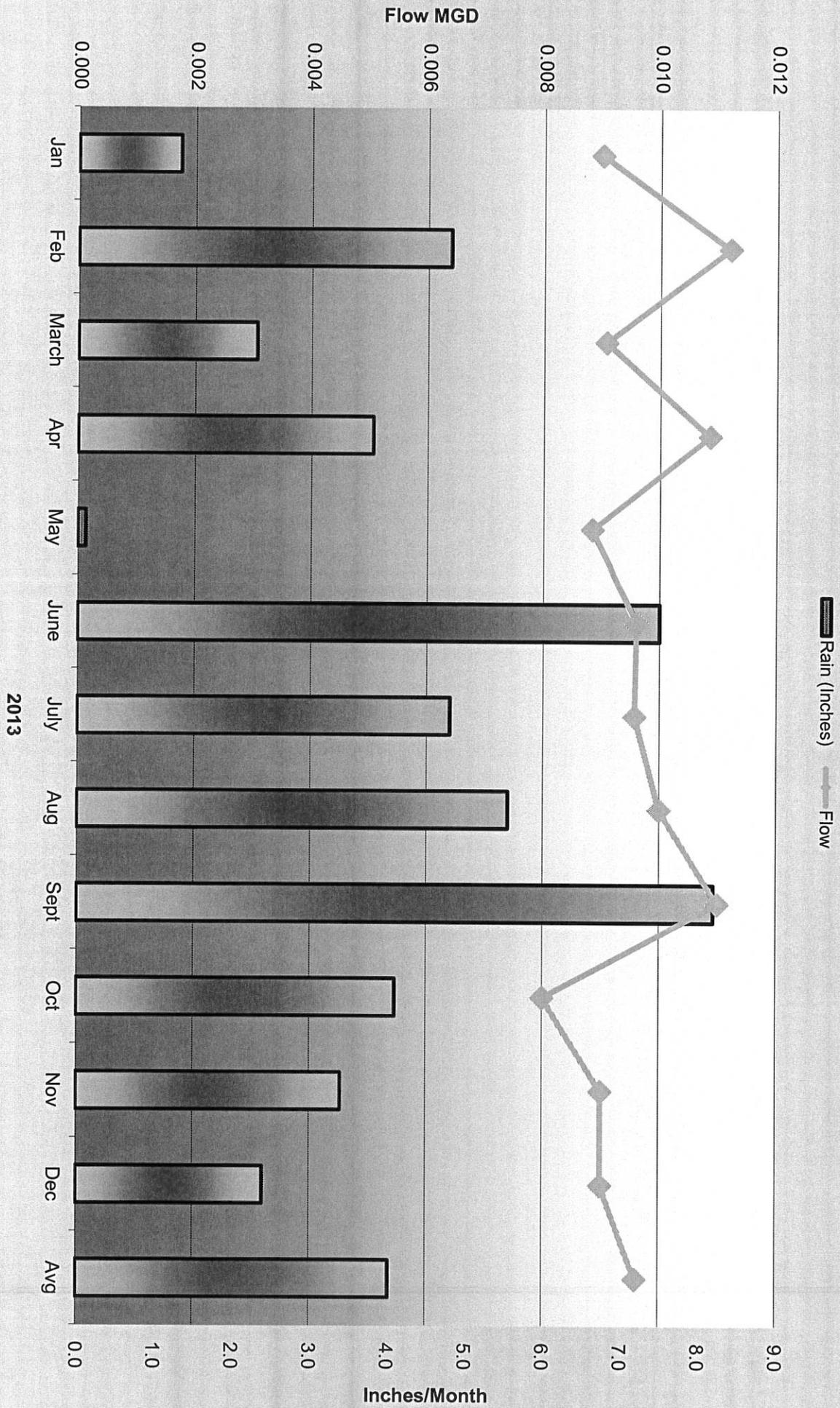
No discharge, flow based on water usage.

Dec.
 282,800 TOTAL GALLONS TREATED
 0.009123 AVERAGE FLOW (PERMIT FLOW 0.0225 MGD)
 No Flow MAX DAY
 YES **WWTP IN COMPLIANCE (If NO Explain ->)**
 2.4 TOTAL RAIN FALL
 NO OVERFLOW AT FACILITY?
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

No discharge, flow based on water usage.

3,517,400	Total Treated
0.010	Average MG/Day
3080	Total Pipe Cleaned
0	Total Pipe Videoed

Hickory Grove WWTP



2013
Piney Green Collection System
Annual WW Report

Jan.
6,751,429 TOTAL GALLONS TO FRENCH CREEK WWTP
0.218 **AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)**
0.273 MAX DAY
1.55 TOTAL RAIN FALL
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Feb.
7,276,157 TOTAL GALLONS TO FRENCH CREEK WWTP
0.260 **AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)**
0.300 MAX DAY
5.23 TOTAL RAIN FALL
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Mar.
7,153,383 TOTAL GALLONS TO FRENCH CREEK WWTP
0.231 **AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)**
0.439 MAX DAY
2 TOTAL RAIN FALL
2575 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Apr.
7,350,240 TOTAL GALLONS TO FRENCH CREEK WWTP
0.245 **AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)**
0.306 MAX DAY
3.97 TOTAL RAIN FALL
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

May
9,718,830 TOTAL GALLONS TO FRENCH CREEK WWTP
0.314 **AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)**
0.357 MAX DAY
0.53 TOTAL RAIN FALL
7560 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Jun.
6,399,493 TOTAL GALLONS TO FRENCH CREEK WWTP
0.213 **AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)**
0.510 MAX DAY
8.11 TOTAL RAIN FALL
3500 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Jul.
 7,441,588 TOTAL GALLONS TO FRENCH CREEK WWTP
 0.240 AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)
 NA MAX DAY
 4.86 TOTAL RAIN FALL
 750 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Aug.
 7,556,615 TOTAL GALLONS TO FRENCH CREEK WWTP
 0.244 AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)
 NA MAX DAY
 5.71 TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Sep.
 6,517,478 TOTAL GALLONS TO FRENCH CREEK WWTP
 0.217 AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)
 0.270 MAX DAY
 3 TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

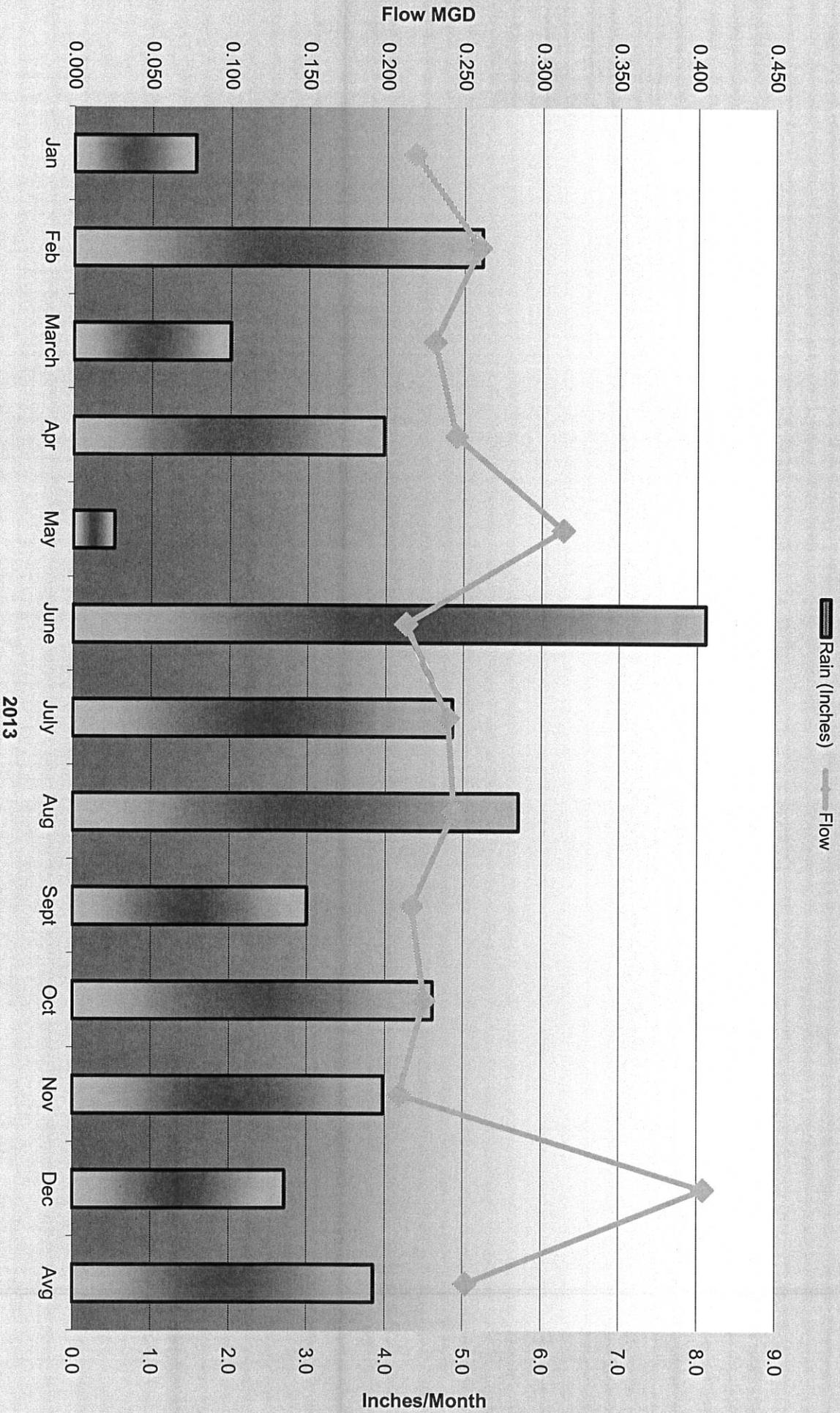
Oct.
 6,985,833 TOTAL GALLONS TO FRENCH CREEK WWTP
 0.225 AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)
 0.663 MAX DAY
 4.61 TOTAL RAIN FALL
 9263 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Nov.
 6,259,933 TOTAL GALLONS TO FRENCH CREEK WWTP
 0.209 AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)
 0.349 MAX DAY
 3.98 TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Dec.
 12,534,030 TOTAL GALLONS TO FRENCH CREEK WWTP
 0.404 AVERAGE FLOW (PERMITTED FLOW 0.3 MGD)
 0.534 MAX DAY
 2.72 TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

91,945,009	Total Treated
0.252	Average MG/Day
23648	Total Pipe Cleaned
0	Total Pipe Videoed

Piney Green Collection System



2013
Springdale Collection System
Annual WW Report

Jan.
2,004,149 TOTAL GALLONS TREATED
0.065 **AVERAGE FLOW**
0.079 MAX DAY
N/A TOTAL RAIN FALL
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Feb.
1,852,659 TOTAL GALLONS TREATED
0.066 **AVERAGE FLOW**
0.074 MAX DAY
N/A TOTAL RAIN FALL
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Mar.
1,872,450 TOTAL GALLONS TREATED
0.060 **AVERAGE FLOW**
MAX DAY
N/A TOTAL RAIN FALL
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Apr.
1,703,111 TOTAL GALLONS TREATED
0.057 **AVERAGE FLOW**
0.065 MAX DAY
N/A TOTAL RAIN FALL
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

May
1,646,559 TOTAL GALLONS TREATED
0.053 **AVERAGE FLOW**
0.066 MAX DAY
N/A TOTAL RAIN FALL
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Jun.
1,550,817 TOTAL GALLONS TREATED
0.052 **AVERAGE FLOW**
0.098 MAX DAY
N/A TOTAL RAIN FALL
0 COLLECTION SYSTEM PIPE CLEANED
0 COLLECTION SYSTEM PIPE VIDEOED
NO COLLECTION SYSTEM OVERFLOWS?

Jul.
 1,855,727 TOTAL GALLONS TREATED
 0.060 **AVERAGE FLOW**
 0.096 MAX DAY
 N/A TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Aug.
 1,612,523 TOTAL GALLONS TREATED
 0.052 **AVERAGE FLOW**
 0.064 MAX DAY
 N/A TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Sep.
 1,481,566 TOTAL GALLONS TREATED
 0.049 **AVERAGE FLOW**
 0.059 MAX DAY
 N/A TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Oct.
 1,446,616 TOTAL GALLONS TREATED
 0.047 **AVERAGE FLOW**
 0.090 MAX DAY
 N/A TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Nov.
 1,345,683 TOTAL GALLONS TREATED
 0.045 **AVERAGE FLOW**
 0.062 MAX DAY
 N/A TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

Dec.
 1,698,296 TOTAL GALLONS TREATED
 0.055 **AVERAGE FLOW**
 0.062 MAX DAY
 N/A TOTAL RAIN FALL
 0 COLLECTION SYSTEM PIPE CLEANED
 0 COLLECTION SYSTEM PIPE VIDEOED
 NO COLLECTION SYSTEM OVERFLOWS?

20,070,156	Total Treated
0.055	Average MG/Day
0	Total Pipe Cleaned
0	Total Pipe Videoed

Springdale Collection System

