



**WEST NORRITON TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA**

**2018 Municipal Wasteload Management Report
(Chapter 94 Report)**

Prepared For:

**West Norriton Township
1630 W. Marshall Street
Jeffersonville, PA 19403**

March 2019

File No. 2019-01112T

Prepared By:

**Gilmore & Associates, Inc.
Engineers ♦ Land Surveyors ♦ Planners ♦ GIS Consultants
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GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES



1918 TO 2008, CELEBRATING NINETY YEARS OF ENGINEERING EXCELLENCE



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2018

- Permittee is owner and/or operator of a POTW or other sewage treatment facility
 Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION			
Permittee Name:	West Norriton Township	Permit No.:	PA (N/A)
Mailing Address:	1630 W. Marshall Street	Effective Date:	N/A
City, State, Zip:	Jeffersonville, PA 19403	Expiration Date:	N/A
Contact Person:	Jason Bobst	Renewal Due Date:	N/A
Title:	Township Manager	Municipality:	West Norriton Township
Phone:	(610) 631-0450	County:	Montgomery County
Email:	JBobst@WNTwp.com	Consultant Name:	Gilmore & Associates, Inc.
CHAPTER 94 REPORT COMPONENTS			
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1))</p> <p>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for flows attached (Attachment)</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment)</p> <p><input checked="" type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>			
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2))</p> <p>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for organic loads attached (Attachment)</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment)</p> <p><input checked="" type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>			
<p>3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))</p> <p>All flow is treated by Norritown Municipal Waste Authority at their wastewater treatment plant. See Attachment E.</p>			

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

Check the appropriate boxes:

- Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (**Attachment B**)
- List summarizing each extension or project attached (**Attachment A**)
- Schedules describing how each project will be completed over time and effects attached (**Attachment A**)

Comments:

No sewer extensions were constructed in 2018.
Markley Farms Phase I - 34 new connections.
Reserve at Stoney Creek - 1 new connection.
226 Joseph Street - 1 new connection
Steak 'n Shake - 2 new connections (previously approved - tenant moved into vacant building).
75 W. Indian Lane - 1 new connection.

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

See Attachment C

6. Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))

Check the appropriate boxes:

- System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.
- System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

Comments:

The Township is currently in the process of televising the and repairing the system as budget allows. See attached map of work done to date.

7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))

Check the appropriate boxes:

- The collection system does not contain pump stations
 The collection system does contain pump stations (Number – 6)
 Discussion of condition of each pump station attached (**Attachment D**)

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

- a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.
- b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.
- c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.

Check the appropriate boxes:

- Industrial waste report as described in 8 a., b. and c. attached (**Attachment F**)
 Industrial pretreatment report as required in an NPDES permit attached (**Attachment**)

9. Existing or Projected Overload.

Check the appropriate boxes:

- This report demonstrates an existing hydraulic overload condition.
 This report demonstrates a projected hydraulic overload condition.
 This report demonstrates an existing organic overload condition.
 This report demonstrates a projected organic overload condition.

If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))

- Corrective Action Plan attached (**Attachment**)

10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.

- Sewage Sludge Management Inventory attached (**Attachment**)

11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).

Annual CSO Report attached (**Attachment**)

12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))

Flow calibration report attached (**Attachment G**)

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Jason Bobst, Township Manager

Name of Responsible Official

(610) 631-0450

Telephone No.



Signature

3/28/2019

Date

PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Thomas J. Figaniak, P.E.

Name of Preparer

(215) 345-4330

Telephone No.



Signature

3/28/ 2019

Date

ATTACHMENT A

ACTIVE, APPROVED AND PLANNED DEVELOPMENT

**TABLE 1
ACTIVE, APPROVED AND PLANNED DEVELOPMENTS
WEST NORRITON TOWNSHIP**

NAME		Map Reference ⁽¹⁾	Drainage Basin	Status	Total Project Connections		Connections Prior to 2018		2018 Connections		Remaining EDUs		Projected Buildout Schedule									
					EDUs	Flow	EDUs	Flow	EDUs	Flow	Total EDUs	Total Flow ⁽²⁾	2019		2020		2021		2022		2023	
1	The Reserve at Stoney Creek	1	Whitehall	Under Construction	51	14,535	8	2,280	1	285	42	11,970	10	2,850	10	2,850	10	2,850	10	2,850	2	570
2	Norristown School District	2	Whitehall	Approved	10	2,850	0	-	0	0	10	2,850	0	0	0	0	0	0	0	0	10	2,850
3	Apartments at Schuylkill & Main Street	3	Rittenhouse	Under Construction	22	6,270	0	-	0	0	22	6,270	0	0	10	2,850	12	3,420	0	0	0	0
4	Markley Farms	4	Whitehall	Under Construction	79	22,515	0	-	34	9,690	45	12,825	5	1,425	20	5,700	20	5,700	0	0	0	0
5	Steak 'n' Shake	5	Jackson	Connected	2	570	0	-	2	570	0	0										
6	226 Joseph Street	6	Jackson	Connected	1	285	0	-	1	285	0	0										
7	75 W. Indian Lane	7	Rittenhouse	Connected	1	285	0	-	1	285	0	0										
Approved Sub Total EDUs / Flow					166	47310	8	2280	39	11,115	119	33,915	15	4,275	40	11,400	42	11,970	10	2,850	12	3,420

Planned Developments		Map Reference ⁽¹⁾	Drainage Basin	Status	EDUs	Flow	EDUs	Flow	EDUs	Flow	Total EDUs	Total Flow ⁽²⁾	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
7	Office Building at 239 Egypt Road	8	Rittenhouse	In Planning Stages	11	3135	-	-	-	-	11	3,135	0	0	0	0	0	0	0	0	11	3,135
8	Fill in Lots and OLDs		-	-							5	1,425	1	285	1	285	1	285	1	285	1	285
Planned Sub Total EDUs / Flow											16	4,560	1	285	1	285	1	285	1	285	12	3,420

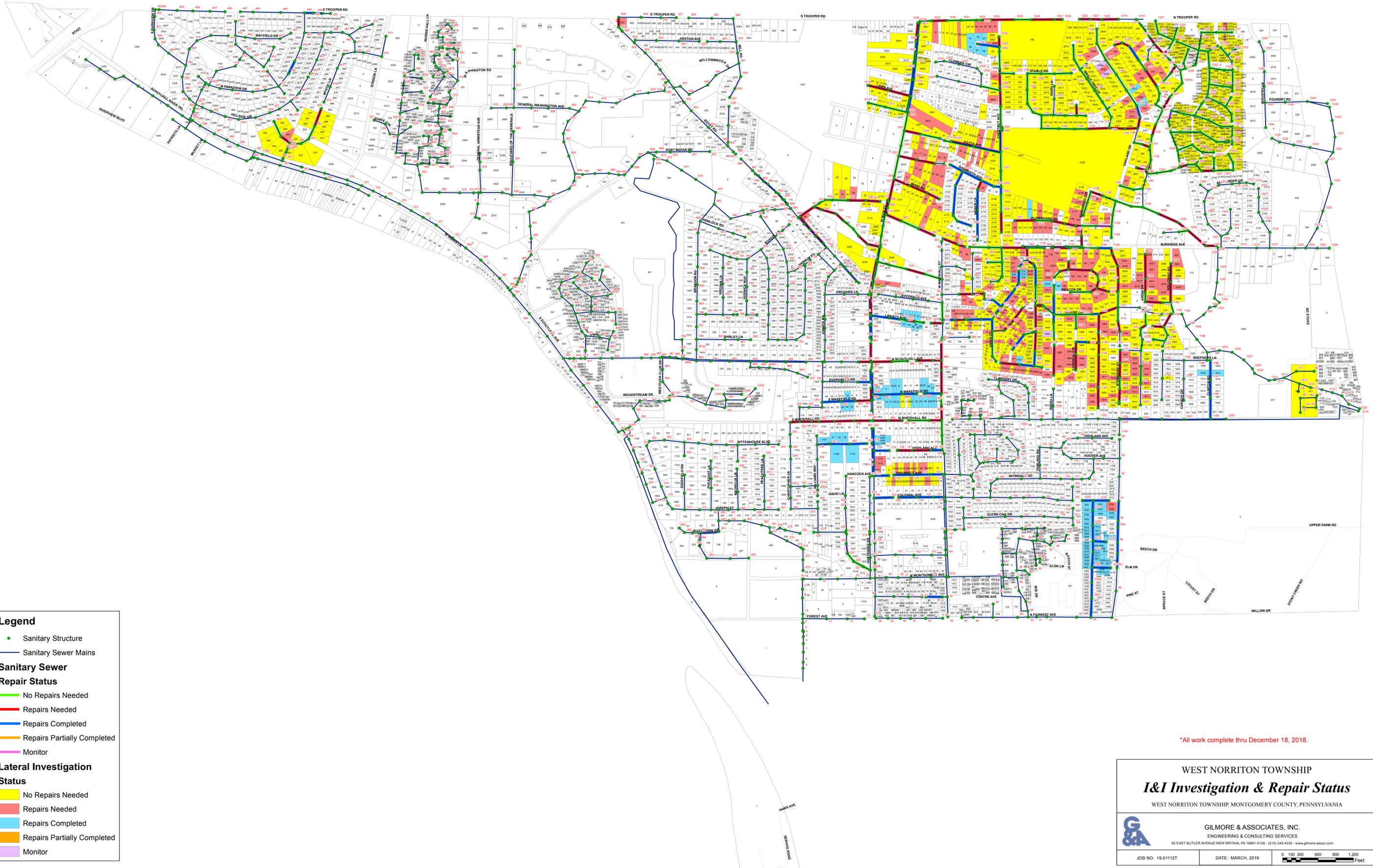
TOTAL	135	38,475	16	4,560	41	11,685	43	12,255	11	3,135	24	6,840
Approved EDU's issued to WNT from NMWA/PADEP	241											
Remaining EDU's	83											

Notes:

(1) See Attachment B for Development locations

(2) Total Flow based on 1 EDU = 285 gpd

ATTACHMENT B
SANITARY SEWER SYSTEM MAP



Legend

- Sanitary Structure
- Sanitary Sewer Mains

Sanitary Sewer Repair Status

- No Repairs Needed
- Repairs Needed
- Repairs Completed
- Repairs Partially Completed
- Monitor

Lateral Investigation Status

- No Repairs Needed
- Repairs Needed
- Repairs Completed
- Repairs Partially Completed
- Monitor

*All work complete thru December 18, 2018.

WEST NORRITON TOWNSHIP
I&I Investigation & Repair Status
 WEST NORRITON TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
 ENGINEERING & CONSULTING SERVICES
 65 EAST BUTLER AVENUE NEW BRITAIN, PA 18901-5106 - (215) 345-4330 - www.gilmore-assoc.com

JOB NO: 19-01112T DATE: MARCH, 2019 0 150 300 600 900 1,200 Feet

ATTACHMENT C
SANITARY SEWER SYSTEM
MONITORING, MAINTENANCE, REPAIR & REHABILITATION

SANITARY SEWER SYSTEM
MONITORING, MAINTENANCE, REPAIR & REHABILITATION

Pump Stations

West Norriton Township (WNT) currently performs routine maintenance on all pump stations owned and operated. Routine maintenance of the pump stations generally includes, but is not limited to, the following tasks:

- Inspected daily
- Wet wells cleaned
- Floats cleaned
- Standby pumps exercised
- Pumps lubricated
- Filter(s) cleaned
- Compressor tank drained of condensation and inspected
- Oil and coolant checked in generators
- Exercise generators
- Exercise alarms
- Bubbler system and sump pumps inspected
- Grease removed
- Basket cleaned
- Building(s) cleaned
- Grounds maintained

Specific maintenance performed and improvements made on the pump stations during 2018 can be found within Attachment D.

Collection System

WNT is continuously working to remove Inflow & Infiltration (I&I) from the sanitary sewer system. During 2018, WNT concentrated on the Upper Jackson Street drainage basin area. A majority of the televising took place predominantly in the area tributary to the Forrest Avenue Pump Station and Jackson Street Diversion Chamber/Meter Pit. The map shows the sewers and manholes that were televised and repaired during 2018. Repairs to the sanitary sewers and manholes are continuously being prioritized as televising/repairs occurs. Corrective repair commenced during 2017 and continued into 2018. WNT has contracted with Sewer Specialty Services Co., Inc. and they are repairing mains/laterals utilizing trenchless technologies such as grouting and cured in place pipe (CIPP) repair liners. The Township works with additional contractors as needed when unanticipated work arises for work that is outside of the contract with Sewer Specialties Services Co., Inc. During 2018, the following was completed:

- 17,617 linear feet of sanitary sewer televised
- 8,984 linear feet of sanitary sewer was lightly cleaned
- 10,626 linear feet of sanitary sewer hydraulically cleaned
- 2,834 sanitary sewer joints tested
- 1,480 joints sealed with 3,673.5 gallons of grout
- 10 protruding laterals were trimmed
- 86 laterals grouted with 892 gallons of grout
- 13 laterals were cleaned and roots removed

- 82 CIPP installed
- 21 manhole frames and covers replaced

As I&I is reduced in the system, WNT will request additional EDUs be released by the DEP. WNT is slowly running out of funding to complete the repairs to the sanitary sewer system and the release of some EDUs will be required to obtain the additional funding to accomplish the repairs.

WNT is committed to continue with I&I remediation until the system has controlled its peak hourly flows. WNT is committed to eliminate all illegal connections to the system, such as sump pumps, rain water conductors, and deficient laterals. WNT will continue inspections of properties at time of sale to locate any potential remaining connections.

ATTACHMENT D
PUMP STATION INFORMATION

PUMP STATION INFORMATION

The Township owns and maintains six (6) pump stations within the existing collection system:

- Rittenhouse Pump Station
- Whitehall Pump Station
- Forrest Avenue Pump Station
- Port Indian Pump Station
- Chestnut Avenue Pump Station
- Halford Hills Pump Station

1. Rittenhouse Pump Station: Originally constructed in 1965, was comprised of three (3)-75 hp pumps, each capable of 1,750 gpm. The pump station was configured in a wet/well dry well orientation. This station was upgraded circa 1983 and 1995, each time with larger pumps to accommodate additional flow. A new submersible pump station with an emergency generator was constructed in 2015 on the same site. The firm pumping capacity for the new pump station is 3,680 gallons per minute (gpm) (5.3 mgd) with two pumps operating. The system has a standard alarm system with a dialer to notify the Township of any problems.
2. Whitehall Pump Station: Constructed in 1965, is comprised of three (3)-60 hp pumps, each capable of 950 gpm. This station was upgraded in 1995 with pumps relocated from Rittenhouse Pump Station, each pump is 100 hp and capable of 1,750 gpm as part of the upgrade. PA DEP Water Quality Management (WQM) permit application for Whitehall Pump Station is approved. Project is currently on hold until funding is available.
3. Forrest Avenue Pump Station: Constructed in the 1960s, is comprised of two (2)-50 hp pumps, each capable of 600 gpm. This station was upgraded in the 1980s with the addition of an emergency generator. Pumps have been rebuilt in 2013.
4. Port Indian Pump Station: Constructed in the 1990s, is comprised of two (2)-40 hp pumps, each capable of 1,000 gpm. Pumps have been rebuilt in 2013.
5. Chestnut Avenue Pump Station: Constructed in the 1970s, is comprised of two (2)-15 hp pumps, each capable of 150 gpm. This pump station was replaced in 2004 with a new station with two (2)-20 pumps, capable of 180 gpm and an emergency generator.
6. Halford Hills Pump Station: Constructed in the 1970s, is comprised of two (2)-5 hp pumps, each capable of 25 gpm.

The following tables represent pump run times and flows for the six (6) collection system pump stations operated by the Township. Flow data has been included in the appendices to show the five (5) year summary of pump station flows for each pumping station.

ATTACHMENT D
TABLE 4
PUMP STATION INFORMATION
WEST NORRITON TOWNSHIP
2018

Name and Location of Pumping Station	Installation / Expansion Date	Number of Pumps	Pump Manufacturer	Drive Type	Capacity (gpm) each Pump	Maximum Pumping Capacity	Flow Meter	Standby Generator	Estimated Connected EDUs	Flow (mgd) 2018 Monthly Average / Peak	Additional EDUs Projected in Next 2 Years	Projected Flow in Next 2 Years (mgd) Average / Peak
Rittenhouse Boulevard	2015	3	Fairbanks-Morse	Variable	2500 gpm @124 ft. TDH	3,680 gpm - 5.3 mgd with 2 pumps	Yes	Yes	3,197	2.892 / 3.822	10 EDUs / 2,850 gpd / 0.003 mgd	2.8958 / 3.825
Chestnut Avenue	2004	2	Hydromatic	Fixed	180 gpm @30 ft. TDH	180 gpm - 0.259 mgd	Yes	Yes	280	0.086 / 0.116	0	0.086 / 0.116
Whitehall Road	1994	3	Fairbanks-Morse	Variable	1750 gpm @220 ft. TDH	2625 gpm - 3.78 mgd with 2 pumps	Yes	Yes	1,550	0.769 / 0.985	45 EDUs / 12,825 gpd / 0.013 mgd	0.782 / 0.998
Forrest Avenue	1987	2	Chicago	Fixed	600 gpm @63 ft. TDH	600 gpm - 0.864 mgd	No	Yes	530	0.178 / 0.241	0	0.178 / 0.241
Port Indian Road	1999	2	Fairbanks-Morse	Fixed	1000 gpm @113 ft. TDH	1000 gpm -1.44 mgd	Yes	Yes	1,230	0.576 / 0.799	0	0.576 / 0.799
Halford Hills	1995	2	Hydromatic	Fixed	25 gpm @50 ft. TDH	25 gpm - 0.036 mgd	No	No	10	0.0033 / 0.0041	0	0.0033 / 0.0041

1 EDU = 285 gpd

**TABLE 5
PUMP STATIONS MONTHLY AVERAGE DAILY FLOWS
WEST NORRITON TOWNSHIP
2018**

Month	Rittenhouse Blvd (gpd)	Whitehall Road (gpd)	Port Indian Road (gpd)	Forrest Avenue (gpd)	Chestnut Avenue (gpd)	Halford Hills (gpd)
January	1,545,870	721,577	276,745	120,600	61,809	3,135
February	3,219,714	855,911	696,718	209,880	94,553	3,390
March	3,624,032	960,288	798,900	231,840	103,287	3,210
April	2,449,800	631,106	447,920	144,000	73,130	3,255
May	2,658,733	767,966	586,033	172,440	84,640	3,300
June	2,992,933	675,786	564,573	163,080	81,716	2,964
July	2,438,613	629,774	458,590	139,680	73,061	2,730
August	3,143,258	690,203	628,219	189,360	87,190	
September	3,051,066	865,953	698,643	186,840	89,523	3,234
October	2,607,935	600,961	453,039	142,560	72,919	3,915
November	3,822,066	985,213	733,446	241,200	116,263	4,140
December	3,146,064	844,935	569,593	189,000	97,065	2,475
Average	2,891,674	769,139	576,035	177,540	86,263	3,250

Halford Hills Pump hours log was destroyed by mouse in August

2018 Chestnut Avenue Pump Station Annual Report

West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2018 - 2/1/2018	88.30	2.85	112.40	3.63	1,916,100	61,809
2/1/2018 - 3/1/2018	115.41	4.12	159.29	5.69	2,647,500	94,553
3/1/2018 - 4/1/2018	148.46	4.79	201.43	6.49	3,201,900	103,287
4/1/2018 - 5/1/2018	123.03	4.10	132.27	4.41	2,193,900	73,130
5/1/2018 - 6/1/2018	142.22	4.74	152.50	5.08	2,539,200	84,640
6/1/2018 - 7/1/2018	138.95	4.63	148.44	4.94	2,451,500	81,716
7/1/2018 - 8/1/2018	111.47	3.59	136.28	4.39	2,264,900	73,061
8/1/2018 - 9/1/2018	152.84	4.93	164.57	5.30	2,702,900	87,190
9/1/2018 - 10/1/2018	207.21	6.91	180.34	6.01	2,685,700	89,523
10/1/2018 - 11/1/2018	136.45	4.40	143.02	4.61	2,260,500	72,919
11/1/2018 - 12/1/2018	203.78	6.79	227.94	7.59	3,487,900	116,263
12/1/2018 - 1/1/2019	175.85	5.67	189.9	6.13	3,009,000	97,065
Annual Average Month						86,263
Peak Month						116,263
Peaking Factor						1.35

Months	Comments
April	New check valve installed on Pump #1 Side. Comminutor installed. Pump gaskets replaced.
May	Flow meter cailbrated on 5-10-2018
June	M&S Services adjusted floats in wetwell
August	McGovern hauled out wetwell
September	Meter Guys cailbrated flow meter on September 26, 2018

2018 Whitehall Road Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP #3		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2018 - 2/1/2018	371.10	11.97	169.40	5.46	162.00	5.23	13,068,900	721,577
2/1/2018 - 3/1/2018	251.00	8.96	212.00	7.57	317.30	11.33	23,965,500	855,911
3/1/2018 - 4/1/2018	353.30	11.39	252.90	8.16	247.80	7.99	29,768,900	960,288
4/1/2018 - 5/1/2018	44.30	1.47	342.70	11.42	319.30	10.64	18,933,200	631,106
5/1/2018 - 6/1/2018	204.20	6.81	325.80	10.86	255.70	8.52	23,039,000	767,966
6/1/2018 - 7/1/2018	318.10	10.60	250.50	8.35	203.20	6.77	20,273,600	675,786
7/1/2018 - 8/1/2018	201.80	6.51	285.50	9.21	245.40	7.92	19,523,000	629,774
8/1/2018 - 9/1/2018	311.80	10.05	212.70	6.86	327.01	10.55	21,396,300	690,203
9/1/2018 - 10/1/2018	268.40	8.95	245.10	8.17	218.00	7.26	25,978,600	865,953
10/1/2018 - 11/1/2018	192.50	6.21	239.20	7.72	288.60	9.31	18,629,800	600,961
11/1/2018 - 12/1/2018	381.90	12.70	153.00	5.10	336.00	11.20	29,556,400	985,213
12/1/2017 - 1/1/2019	336.30	10.84	73.90	2.38	249.00	8.03	26,193,000	844,935
Annual Average Month								769,139
Peak Month								985,213
Peaking Factor								1.28

Months	Comments
January	McGovern came to the pump station to clean out the wetwell
March	New limit switch on check valve 3 pump by M&S Services
May	McGovern came to the pump station to clean out the wetwell; Flow meter was calibrated.
September	Check valve replaced on compressor, Meter guys calibrated flow meter on 9/26/2018.
October	Air compressor in the control panel was replaced
November	Istalled new air compressor in control panel for pump 1, installed new sump pump in dry well, installed new electric lines in control panel for pump 2

2018 Forrest Avenue Pump Station Annual Report

West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1			PUMP #2			PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	GALLON	GAL/DAY
1/1/2018 - 2/1/2018	90.10	2.91	104,760	13.90	0.44	15,840	3,744,000	120,600
2/1/2018 - 3/1/2018	79.40	2.84	102,240	83.70	2.99	107,640	5,871,600	209,880
3/1/2018 - 4/1/2018	100.00	3.23	116,280	99.80	3.21	115,560	7,192,800	231,840
4/1/2018 - 5/1/2018	60.00	2.00	72,000	60.10	2.00	72,000	4,323,600	144,000
5/1/2018 - 6/1/2018	71.70	2.39	86,040	72.10	2.40	86,400	5,176,800	172,440
6/1/2018 - 7/1/2018	66.90	2.23	80,280	66.80	2.30	82,800	4,813,200	163,080
7/1/2018 - 8/1/2018	59.80	1.93	69,480	60.50	1.95	70,200	4,330,800	139,680
8/1/2018 - 9/1/2018	81.50	2.63	94,680	51.60	2.63	94,680	4,791,600	189,360
9/1/2018 - 10/1/2018	77.60	2.59	93,240	78.00	2.60	93,600	5,601,600	186,840
10/1/2018 - 11/1/2018	48.40	1.56	56,160	74.40	2.40	86,400	4,420,800	142,560
11/1/2018 - 12/1/2018	100.90	3.36	120,960	100.00	3.34	120,240	7,232,400	241,200
12/1/2017 - 1/1/2019	81.60	2.63	94,680	81.30	2.62	94,320	5,864,400	189,000
							Annual Average Month	177,540
							Peak Month	241,200
							Peaking Factor	1.36

Months	Comments
January	Pump #2 was installed in the dry well and is operational. A new starter was installed on Pump #2.
March	Heater was replaced inside building
October	Packing in pump 1 replaced

2018 Port Indian Pump Station Annual Report

West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2018 - 2/1/2018	82.60	2.66	82.45	2.65	8,579,100	276,745
2/1/2018 - 3/1/2018	191.14	6.83	181.22	6.47	19,508,100	696,718
3/1/2018 - 4/1/2018	255.80	8.25	240.53	7.76	24,765,900	798,900
4/1/2018 - 5/1/2018	196.70	6.56	438.50	1.46	13,437,600	447,920
5/1/2018 - 6/1/2018	331.35		11.05		17,581,000	586,033
6/1/2018 - 7/1/2018	238.33	7.94	362.85	12.09	16,937,200	564,573
7/1/2018 - 8/1/2018	131.81	4.25	114.25	3.69	14,216,300	458,590
8/1/2018 - 9/1/2018	183.32	5.91	158.08	5.099	19,474,800	628,219
9/1/2018 - 10/1/2018	192.40	6.41	157.43	5.25	20,959,300	698,643
10/1/2018 - 11/1/2018	136.76	4.41	122.87	3.96	14,044,200	453,039
11/1/2018 - 12/1/2018	126.88	4.23	325.67	10.85	22,003,400	733,446
12/1/2017 - 1/1/2019	121.45	3.92	248.13	8.00	17,657,400	569,593
Annual Average Month						576,035
Peak Month						798,900
Peaking Factor						1.39

Date	Comments
April	Junction box relocated outside of wetwell. Pump #2 out for repair
May	Pump 2 pulled for service; Flow meter calibrated
June	Pump 2 was reinstalled on 6/18/2018
October	Comminutor was pulled for repair
November	Seely in installed Micropa for new pump controls; pumps were pulled out and cleaned of debris in impellers.
December	New block heater installed on generator, flow meter calibrated

Note:

1. Pump Station Total Flow for July based upon pump capacity of 1,000 gpm at 113 TDH

2018 Halford Hills Estates Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1			PUMP #2			PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	GALLON	GAL/DAY
1/1/2018 - 2/1/2018	35.39	1.14	1,710	29.57	0.95	1,425	97,440	3,135
2/1/2018 - 3/1/2018	34.04	1.22	1,830	29.14	1.04	1,560	94,770	3,390
3/1/2018 - 4/1/2018	36.62	1.18	1,770	29.64	0.96	1,440	99,390	3,210
4/1/2018 - 5/1/2018	35.87	1.19	1,785	29.52	0.98	1,470	98,085	3,255
5/1/2018 - 6/1/2018	36.61	1.22	1,830	29.51	0.98	1,470	99,180	3,300
6/1/2018 - 7/1/2018	32.52	1.08	1,626	26.76	0.89	1,338	88,920	2,964
7/1/2018 - 8/1/2018	30.45	0.98	1,470	26.13	0.84	1,260	84,870	2,730
8/1/2018 - 9/1/2018			0					
9/1/2018 - 10/1/2018	31.34	1.04	1,566	33.37	1.11	1,668	97,065	3,234
10/1/2018 - 11/1/2018	59.79	1.92	2,880	21.38	0.69	1,035	121,755	3,915
11/1/2018 - 12/1/2018	82.97	2.76	4,140			0	124,455	4,140
12/1/2017 - 1/1/2019	51.30	1.65	2,475			0	76,950	2,475
							Annual Average Month	3,250
							Peak Month	4,140
							Peaking Factor	1.27

Months	Comments
August	McGovern hauled wetwell due to heavy rain
October	Piping on the #1 pump is leaking near the pumps quick connect and needs to be replaced. Work order put in.
November	Pump #2 offline

* Pump hour log was damaged by mouse for August

2018 Rittenhouse Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP #3		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2018 - 2/1/2018	204.90	6.61	194.10	6.26	191.50	6.18	47,922,000	1,545,870
2/1/2018 - 3/1/2018	272.40	9.73	293.40	10.48	271.80	9.71	90,152,000	3,219,714
3/1/2018 - 4/1/2018	365.40	11.79	381.00	12.29	364.30	11.75	112,345,000	3,624,032
4/1/2018 - 5/1/2018	236.50	7.88	228.50	7.62	233.70	7.79	73,494,000	2,449,800
5/1/2018 - 6/1/2018	255.10	8.50	253.00	8.43	247.20	8.24	79,762,000	2,658,733
6/1/2018 - 7/1/2018	266.80	8.89	257.00	8.57	252.90	8.43	89,788,000	2,992,933
7/1/2018 - 8/1/2018	238.40	7.69	239.30	7.72	223.90	7.23	75,597,000	2,438,613
8/1/2018 - 9/1/2018	299.1	9.65	291.4	9.4	282.7	9.11	97,441,000	3,143,258
9/1/2018 - 10/1/2018	195.80	6.53	309.40	10.31	287.70	9.59	91,532,000	3,051,066
10/1/2018 - 11/1/2018	-	-	360.40	11.63	348.10	11.23	80,846,000	2,607,935
11/1/2018 - 12/1/2018	-	-	494.60	16.48	459.20	15.31	114,662,000	3,822,066
12/1/2017 - 1/1/2019	-	-	407.70	13.15	373.90	12.03	97,528,000	3,146,064
Annual Average Month								2,891,674
Peak Month								3,822,066
Peaking Factor								1.32

Months	Comments
April	PennPower in to inspect generator
May	Flow meter calibrated
September	PennPower replaced relay in generator; Meter Guys calibrated flow meter
October	Pump #1 pulled for repair
November	Phone line to dialer was repaired
December	Crane repaired

CHESTNUT AVENUE

Operator: Ed Chelius

Date: January 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
1/1/2018 - 1/31/2018	88.3	2.85	112.4	3.63

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2018 - 1/31/2018	1,916,100	61,809

Comments: Generator hours = 1.34

CHESTNUT AVENUE

Operator: Ed Chelius

Date: February 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
2/1/2018 - 2/28/2018	115.41	4.12	159.29	5.69

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2018 - 2/28/2018	2,647,500	94,553

Comments: Generator hours = 1.42

CHESTNUT AVENUE

Operator: Ed Chelius

Date: March 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
3/1/2018 - 4/1/2018	148.46	4.79	201.43	6.49

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2018 - 4/1/2018	3,201,900	103,287

Comments: Generator hours = 1.67

CHESTNUT AVENUE

Operator: Ed Chelius

Date: April 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
4/1/2018 - 5/1/2018	123.03	4.10	132.27	4.41

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2018 - 5/1/2018	2,193,900	73,130

Comments: Generator hours = 1.71

- 4-19-18 → New check valve was installed in #1 Pump side.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: May 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
5/1/2018 - 6/1/2018	142.22	4.74	152.5	5.08

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2018 - 6/1/2018	2,539,200	84,640

Comments: Generator hours = 1.43

- 5-10-18 → Flow meter was calibrated at pump station.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: June 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
6/1/2018 - 7/1/2018	138.95	4.63	148.44	4.94

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2018 - 7/1/2018	2,451,500	81,716

Comments: Generator hours = 1.35

- 6-19-18 → M&S Services adjusted the floats in the wet well.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: July 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
7/1/2018 - 8/1/2018	111.47	3.59	136.28	4.39

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2018 - 8/1/2018	2,264,900	73,061

Comments: Generator hours = 1.34

CHESTNUT AVENUE

Operator: Ed Chelius

Date: August 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
8/1/2018 - 9/1/2018	152.84	4.93	164.57	5.30

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2018 - 9/1/2018	2,702,900	87,190

Comments: Generator hours = 1.04

- 8/13/18 → McGovern hauled out wet well due to heavy rains going into houses.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: September 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
9/1/2018 - 10/1/2018	207.21	6.907	180.34	6.011

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2018 - 10/1/2018	2,685,700	89,523

Comments: Generator hours = 1.8
9-26-18 → Meter Guys came to calibrate flow meter.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: October 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
10/1/2018 - 11/1/2018	136.45	4.40	143.02	4.61

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2018 - 11/1/2018	2,260,500	72,919

Comments: Generator hours = 1.33

CHESTNUT AVENUE

Operator: Ed Chelius

Date: November 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
11/1/2018 - 12/1/2018	203.78	6.79	227.94	7.59

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2018 - 12/1/2018	3,487,900	116,263

Comments: Generator hours = 2.1

CHESTNUT AVENUE

Operator: Ed Chelius

Date: December 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
12/1/2018 - 1/1/2019	175.85	5.67	189.9	6.13

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2018 - 1/1/2019	3,009,000	97,065

Comments: Generator hours = 1.34

WHITEHALL ROAD

Operator: Ed Chelius

Date: January 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: January 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2018 - 1/31/2018	13,068,900	721,577

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
1/1/2018 - 1/31/2018	371.1	169.4	162.0	11.97	5.46	5.23

Comments:

Generator run hours: 2.4

- 1/12/18 → McGovern came to the pump station to clean out the wet well.

WHITEHALL ROAD

Operator: Ed Chelius

Date: February 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: February 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2018 - 2/28/2018	23,965,500	855,911

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
2/1/2018 - 2/28/2018	251	212	317.3	8.96	7.57	11.33

Comments:

Generator run hours: 1.8

WHITEHALL ROAD

Operator: Ed Chelius

Date: March 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: March 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2018 - 4/1/2018	29,768,900	960,288

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
3/1/2018 - 4/1/2018	353.3	252.9	247.8	11.39	8.16	7.99

Comments:

Generator run hours: 3.8

3/9/18 → New limit switch on check valve on #1 Pump by M&S Services.

WHITEHALL ROAD

Operator: Ed Chelius

Date: April 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: April 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2018 - 5/1/2018	18,933,200	631,106

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
4/1/2018 - 5/1/2018	44.3	342.7	319.3	1.47	11.42	10.64

Comments:

Generator run hours: 2.4

WHITEHALL ROAD

Operator: Ed Chelius

Date: May 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: May 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2018 - 6/1/2018	23,039,000	767,966

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
5/1/2018 - 6/1/2018	204.2	325.8	255.7	6.81	10.86	8.52

Comments:

Generator run hours: 3.2

- 5-1-18 → McGovern came to the pump station to clean the wet well.
- 5-10-18 → The flow meter was calibrated this month at the pump station.

WHITEHALL ROAD

Operator: Ed Chelius

Date: June 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: June 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2018 - 7/1/2018	20,273,600	675,786

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
6/1/2018 - 7/1/2018	318.1	250.5	203.2	10.6	8.35	6.77

Comments:

Generator run hours: 2.4

WHITEHALL ROAD

Operator: Ed Chelius

Date: July 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: July 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2018 - 8/1/2018	19,523,000	629,774

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
7/1/2018 - 8/1/2018	201.8	285.5	245.4	6.51	9.21	7.92

Comments:

Generator run hours: 2.4

WHITEHALL ROAD

Operator: Ed Chelius

Date: August 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: August 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2018 - 9/1/2018	21,396,300	690,203

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
8/1/2018 - 9/1/2018	311.8	212.7	327.01	10.05	6.86	10.55

Comments:

Generator run hours: 1.5

WHITEHALL ROAD

Operator: Ed Chelius

Date: September 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	

Pump Bearings 3
 Valves 3

WHITEHALL ROAD

Operator: Ed Chelius

Date: September 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	

<u>Ventilation</u>	<u>Priority</u>	<u>Remarks</u>
Drywell	3	
Wetwell	3	

<u>Electric Heaters</u>	<u>Priority</u>	<u>Remarks</u>
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2018 - 10/1/2018	25,978,600	865,953

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
9/1/2018 - 10/1/2018	268.4	245.1	218.0	8.95	8.17	7.26

Comments:

Generator run hours: 1.7

9-25-18 → Compressed Air came to replace bad check valve on main air compressor.

9-26-18 → Meter Guys came to calibrate flow meter.

WHITEHALL ROAD

Operator: Ed Chelius

Date: October 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: October 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2018 - 11/1/2018	18,629,800	600,961

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
10/1/2018 - 11/1/2018	192.5	239.2	288.6	6.21	7.716	9.31

Comments:

Generator run hours: 2.4

- A small air compressor in the control panel was replaced this month by Seely. This controls the pump speed.

WHITEHALL ROAD

Operator: Ed Chelius

Date: November 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: November 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2018 - 12/1/2018	29,556,400	985,213

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
11/1/2018 - 12/1/2018	381.9	153.0	336.0	12.7	5.1	11.2

Comments:

Generator run hours: 2.4

- 11-2-18 → A new air compressor was installed on the #1 pump in control panel.
- 11-28-18 → A new sump pump was installed in the dry well.
- Electric lines were installed in the control panel for the #2 pump. The wires were old and corroding.

WHITEHALL ROAD

Operator: Ed Chelius

Date: December 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: December 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2018 - 1/1/2019	26,193,000	844,935

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
12/1/2018 - 1/1/2019	336.3	73.9	249.0	10.84	2.38	8.03

Comments:

Generator run hours: 2.4

FOREST AVENUE

Operator: Ed Chelius

Date: January 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
1/1/2018 - 1/31/2018	90.1	13.9	2.91	0.44

Comments:

Generator run hours = 1.4

- 1/24/18→ Pump #2 was installed in the dry well and is operational.
- 1/26/18→ A new starter was installed on Pump #2.

FOREST AVENUE

Operator: Ed Chelius

Date: February 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
2/1/2018 - 2/28/2018	79.4	83.7	2.84	2.99

Comments:

Generator run hours = 1.3

FOREST AVENUE

Operator: Ed Chelius

Date: March 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 - Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
3/1/2018 - 4/1/2018	100.0	99.8	3.23	3.21

Comments:

Generator run hours = 2.0

3/28/18 → Heater was replaced inside the building by Jack Henry.

FOREST AVENUE

Operator: Ed Chelius

Date: April 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
4/1/2018 - 5/1/2018	60.0	60.1	2.0	2.0

Comments:
Generator run hours = 1.6

FOREST AVENUE

Operator: Ed Chelius

Date: May 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
5/1/2018 - 6/1/2018	71.7	72.1	2.39	2.40

Comments:

Generator run hours = 1.4

FOREST AVENUE

Operator: Ed Chelius

Date: June 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
6/1/2018 - 7/1/2018	66.9	66.8	2.23	2.23

Comments:

Generator run hours = 1.6

FOREST AVENUE

Operator: Ed Chelius

Date: July 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
7/1/2018 - 8/1/2018	59.8	60.5	1.93	1.95

Comments:

Generator run hours = 5.6

FOREST AVENUE

Operator: Ed Chelius

Date: August 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
8/1/2018 - 9/1/2018	81.5	81.6	2.63	2.63

Comments:

Generator run hours = 1.5

FOREST AVENUE

Operator: Ed Chelius

Date: September 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
9/1/2018 - 10/1/2018	77.6	78.0	2.59	2.60

Comments:

Generator run hours = 1.3

FOREST AVENUE

Operator: Ed Chelius

Date: October 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
10/1/2018 - 11/1/2018	48.4	74.4	1.56	2.40

Comments:

Generator run hours = 1.6

- The packing in #1 Pump was replaced this month.

FOREST AVENUE

Operator: Ed Chelius

Date: November 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
11/1/2018 - 12/1/2018	100.9	100.3	3.36	3.34

Comments:

Generator run hours = 1.3

FOREST AVENUE

Operator: Ed Chelius

Date: December 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
12/1/2018 - 1/1/2019	81.6	81.3	2.63	2.62

Comments:

Generator run hours = 1.9

- The #1 pump is going to be pulled for repair next month before Deckmans closes.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: January 2018

Equipment:

OPERATIONAL

	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u>	Poor ___
Roof	Good <u>X</u>	Poor ___
Grounds, Weeds	Good <u>X</u>	Poor ___
Driveway	Good <u>X</u>	Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2018 - 1/31/2018	8,579,100	276,745

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
1/1/2018 - 1/31/2018	82.6	82.45	2.66	2.65

Comments:

Generator run hours = 2.1

Replaced contacts on Pump #1 this month.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: February 2018

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2018 - 2/28/2018	19,508,100	696,718

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
2/1/2018 - 2/28/2018	191.14	181.22	6.83	6.47

Comments:

Generator run hours = 2.0

PORT INDIAN P.S.

Operator: Ed Chelius

Date: March 2018

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2018 - 4/1/2018	24,765,900	798,900

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
3/1/2018 - 4/1/2018	255.8	240.53	8.25	7.76

Comments:

Generator run hours = 17.5

PORT INDIAN P.S.

Operator: Ed Chelius

Date: April 2018

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u> Poor ___
Roof	Good <u>X</u> Poor ___
Grounds, Weeds	Good <u>X</u> Poor ___
Driveway	Good <u>X</u> Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2018 - 5/1/2018	13,437,600	447,920

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
4/1/2018 - 5/1/2018	196.7	438.5	6.56	1.46

Comments:

Generator run hours = 1.5

- 4-13-18 → Eastern Environmental Company came to the pump station to reroute the control wires and control box to the outside of the pump station, where it is tangible.
- 4-23-18 → #2 Pump was sent to Deckmans for repair.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: May 2018

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	
Diversion Chamber	X	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2018 - 6/1/2018	17,581,000	586,033

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
5/1/2018 - 6/1/2018	331.35	Out	11.05	

Comments:

Generator run hours = 1.9

- 5-10-18 → The flow meter was calibrated at the pump station.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: June 2018

Equipment:

OPERATIONAL

	<u>YES</u>	<u>NO</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	
Diversion Chamber	X	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u>	Poor ___
Roof	Good <u>X</u>	Poor ___
Grounds, Weeds	Good <u>X</u>	Poor ___
Driveway	Good <u>X</u>	Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2018 - 7/1/2018	16,937,200	564,573

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
6/1/2018 - 7/1/2018	238.33	362.85	7.94	12.09

Comments:

Generator run hours = 2.0

- 6-18-19 → The #2 pump was reinstalled in the wet well.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: July 2018

Equipment:

OPERATIONAL

	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u>	Poor ___
Roof	Good <u>X</u>	Poor ___
Grounds, Weeds	Good <u>X</u>	Poor ___
Driveway	Good <u>X</u>	Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2018 - 8/1/2018	14,216,300	458,590

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
7/1/2018 - 8/1/2018	131.80	114.25	4.25	3.69

Comments:

Generator run hours = 2.0

PORT INDIAN P.S.

Operator: Ed Chelius

Date: August 2018

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2018 - 9/1/2018	19,474,800	628,219

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
8/1/2018 - 9/1/2018	183.32	158.08	5.91	5.099

Comments:

Generator run hours = 2.6

PORT INDIAN P.S.

Operator: Ed Chelius

Date: September 2018

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2018 - 10/1/2018	20,959,300	698,643

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
9/1/2018 - 10/1/2018	192.4	157.43	6.41	5.25

Comments:

Generator run hours = 1.5

PORT INDIAN P.S.

Operator: Ed Chelius

Date: October 2018

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2018 - 11/1/2018	14,044,200	453,039

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
10/1/2018 - 11/1/2018	136.76	122.87	4.41	3.96

Comments:

Generator run hours = 2.0

- The comminutor at the station was pulled out for repair because of missing teeth. It will be put back in service as soon as it is repaired.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: November 2018

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2018 - 12/1/2018	22,003,400	733,446

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
11/1/2018 - 12/1/2018	126.88	325.67	4.23	10.85

Comments:

Generator run hours = 2.6

- 11-9-18→ Seely came in to install Micropac for new pump controls.
- The #1 and #2 pumps were pulled out and debris was removed from impellers. This is due to the comminutor being out for repair. The comminutor will be reinstalled as soon as it is repaired.
- The heater in the control building is being repaired this month. The block heater on the generator is being repaired this month by PENN Power.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: December 2018

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2018 - 1/1/2019	17,657,400	569.593

<u>DATE</u>	<u>RUN HOURS</u>		<u>PER DAY</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
12/1/2018 - 1/1/2019	121.45	248.13	3.92	8.00

Comments:

Generator run hours = 2.4

- 12-13-18→ New block heater installed on genset
- 12-28-18→ Meter Guys in to calibrate flow meter.
- A new heater was installed in building this month.

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: January 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
1/1/2018 - 1/31/2018	35.39	29.57	1.14	0.95

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: February 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
2/1/2018 - 2/28/2018	34.04	29.14	1.22	1.04

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: March 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
3/1/2018 - 4/1/2018	36.62	29.64	1.18	0.96

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: April 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
4/1/2018 - 5/1/2018	35.87	29.52	1.19	0.98

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: May 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

Operational

Wetwell Debris Buildup
Grounds, weeds

<u>Good</u>	<u>Poor</u>
X	

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
5/1/2018 - 6/1/2018	36.61	29.51	1.22	0.98

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: June 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
6/1/2018 - 7/1/2018	32.52	26.76	1.084	0.892

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: July 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
7/1/2018 - 8/1/2018	30.45	26.13	0.98	0.84

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: August 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
8/1/2018 - 9/1/2018				

Not available: Mouse chewed pump hour pages.

Comments:

8/13/18→McGovern hauled wet well due to heavy rain.

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: September 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

	<u>Good</u>	<u>Poor</u>
Operational		
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
9/1/2018 - 10/1/2018	31.34	33.37	1.044	1.112

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: October 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

Operational

Wetwell Debris Buildup
Grounds, weeds

<u>Good</u>	<u>Poor</u>
X	

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
10/1/2018 - 11/1/2018	59.79	21.38	1.92	0.69

Comments:

- The piping on the #1 pump is leaking near the pumps quick connect and needs to be replaced. The work order is put in to fix it as soon as possible.

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: November 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
11/1/2018 - 12/1/2018	82.97	Off	2.76	—

Comments:

- In the process of getting estimate for repair to quick connect on #2 pump and repair the piping in wet well.

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: December 2018

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
12/1/2018 - 1/1/2019	51.3	off	1.65	

Comments:

- The #2 pump quick connect needs to be repaired. Waiting for a quote.

RITTENHOUSE

Operator: Ed Chelius

Date: January 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: January 2018

Audio Dialer **2**

Ventilation **Priority** **Remarks**

Dry well 3
 Wetwell 3
 Electric Heaters 3

#3 Pump

Motor 3
 Rings 3
 Brushes 3
 Drive Shafts 3
 U-Joints 3
 Pump Bearings 3
 Valves 3
 Flow Matcher 3
 Pillow Block
 Bearing 3
 Pump Bearings 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2018 - 1/31/2018	47,922,000	1,545,870

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
1/1/2018 - 1/31/2018	204.9	194.1	191.5	6.61	6.26	6.18

Comments: Generator Run Hours = 1.3

RITTENHOUSE

Operator: Ed Chelius

Date: February 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: March 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: April 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: April 2018

Audio Dialer 2

Ventilation Priority Remarks

Dry well 3
Wetwell 3
Electric Heaters 3

#3 Pump

Motor 3
Rings 3
Brushes 3
Drive Shafts 3
U-Joints 3
Pump Bearings 3
Valves 3
Flow Matcher 3
Pillow Block
Bearing 3
Pump Bearings 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2018 - 5/1/2018	73,494,000	2,449,800

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
4/1/2018 - 5/1/2018	236.5	228.5	233.7	7.88	7.62	7.79

Comments: Generator Run Hours = 1.5

- PENN Power came to the pump station to inspect the genset control panel and found parts that went bad. They will be replaced ASAP. The generator still runs as backup power.

RITTENHOUSE

Operator: Ed Chelius

Date: May 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: June 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: July 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: July 2018

Audio Dialer **2**

Ventilation **Priority** **Remarks**

Dry well 3
 Wetwell 3
 Electric Heaters 3

#3 Pump

Motor 3
 Rings 3
 Brushes 3
 Drive Shafts 3
 U-Joints 3
 Pump Bearings 3
 Valves 3
 Flow Matcher 3
 Pillow Block
 Bearing 3
 Pump Bearings 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2018 - 8/1/2018	75,597,000	2,438,613

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
7/1/2018 - 8/1/2018	238.4	239.3	223.9	7.69	7.72	7.23

Comments: Generator Run Hours = 1.7

RITTENHOUSE

Operator: Ed Chelius

Date: August 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: September 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: September 2018

Audio Dialer **2**

Ventilation **Priority** **Remarks**

Dry well 3
Wetwell 3
Electric Heaters 3

#3 Pump

Motor 3
Rings 3
Brushes 3
Drive Shafts 3
U-Joints 3
Pump Bearings 3
Valves 3
Flow Matcher 3
Pillow Block
Bearing 3
Pump Bearings 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2018 - 10/1/2018	91,532,000	3,051,066

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
9/1/2018 - 10/1/2018	195.8	309.4	287.7	6.53	10.31	9.59

Comments: Generator Run Hours = 1.4

9-6-18 → PENN Power came to station to replace relay in generator.

9-26-18 → Meter Guys came to calibrate flow meter.

RITTENHOUSE

Operator: Ed Chelius

Date: October 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: October 2018

Audio Dialer 2

Ventilation Priority Remarks

Dry well 3
Wetwell 3
Electric Heaters 3

#3 Pump

Motor 3
Rings 3
Brushes 3
Drive Shafts 3
U-Joints 3
Pump Bearings 3
Valves 3
Flow Matcher 3
Pillow Block
Bearing 3
Pump Bearings 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2018 - 11/1/2018	80,846,000	2,607,935

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
10/1/2018 - 11/1/2018	out	360.4	348.1	out	11.63	11.23

Comments: Generator Run Hours = 1.1

- The #1 Pump was pulled out and sent for repair to Deckmans. It will be replaced as soon as it is repaired.

RITTENHOUSE

Operator: Ed Chelius

Date: November 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: November 2018

Audio Dialer 2

Ventilation Priority Remarks

Dry well 3
Wetwell 3
Electric Heaters 3

#3 Pump

Motor 3
Rings 3
Brushes 3
Drive Shafts 3
U-Joints 3
Pump Bearings 3
Valves 3
Flow Matcher 3
Pillow Block
Bearing 3
Pump Bearings 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2018 - 12/1/2018	114,662,000	3,822,066

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
11/1/2018 - 12/1/2018	out	494.6	459.2	—	16.48	15.31

Comments: Generator Run Hours = 2.3

- 11-25-18 → The phone line to the dialer was repaired this month.
- As of 12-13-18 the #1 pump is scheduled to be installed and online.

RITTENHOUSE

Operator: Ed Chelius

Date: December 2018

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: December 2018

Audio Dialer

2

Ventilation

Priority

Remarks

Dry well
Wetwell
Electric Heaters

3
3
3

#3 Pump

Motor
Rings
Brushes
Drive Shafts
U-Joints
Pump Bearings
Valves
Flow Matcher
Pillow Block
Bearing
Pump Bearings

3
3
3
3
3
3
3
3
3
3
3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2018 - 1/1/2019	97,528,000	3,146,064

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
12/1/2018 - 1/1/2019	off	407.7	373.9	off	13.15	12.06

Comments: Generator Run Hours = 2.3

- The outside crane was repaired this month.
- The #1 pump is scheduled to be installed this month.

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: January 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2018 - 1/31/2018	11,807,700	380,893

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
1/1/2018 - 1/31/2018	19,233,200	620,425

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2018 - 1/31/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: February 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2018 - 2/28/2018	10,041,800	358,636

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
2/1/2018 - 2/28/2018	38,422,100	1,372,218

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2018 - 2/28/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: March 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2018 - 4/1/2018	9,463,800	305,284

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
3/1/2018 - 4/1/2018	46,171,100	1,489,390

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2018 - 4/1/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: April 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2018 - 5/1/2018	8,482,400	282,746

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
4/1/2018 - 5/1/2018	29,467,600	982,253

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2018 - 5/1/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: May 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2018 - 6/1/2018	13,630,200	454,340

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
5/1/2018 - 6/1/2018	33,078,200	1,102,606

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2018 - 6/1/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: June 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2018 - 7/1/2018	8,759,300	291,976

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
6/1/2018 - 7/1/2018	34,516,400	1,150,546

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2018 - 7/1/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: July 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2018 - 8/1/2018	8,647,400	278,948

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
7/1/2018 - 8/1/2018	31,200,300	1,006,461

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2018 - 8/1/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: August 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2018 - 9/1/2018	10,500,900	338,738

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
8/1/2018 - 9/1/2018	38,598,700	1,245,119

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2018 - 9/1/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: September 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2018 - 10/1/2018	8,812,100	293,736

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
9/1/2018 - 10/1/2018	33,884,300	1,129,476

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2018 - 10/1/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: October 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2018 - 11/1/2018	6,936,700	223,765

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
10/1/2018 - 11/1/2018	36,184,900	1,167,255

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2018 - 11/1/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: November 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2018 - 12/1/2018	9,277,100	309,236

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
11/1/2018 - 12/1/2018	44,478,200	1,482,607

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2018 - 12/1/2018		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: December 2018

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2018 - 1/1/2019	8,570,800	276,477

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
12/1/2018 - 1/1/2019	42,810,300	1,380,977

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2018 - 1/1/2019		

ATTACHMENT E
MONTHLY ADF TO NMWA

Table 6
2018 TOTAL FLOW TO NORRISTOWN
WEST NORRITON TOWNSHIP

Average Daily Flow	Rittenhouse Blvd Pump Station (gpd)	Jackson Street Pit (gpd)	Total Flow to Norristown (gpd)
January	1,545,870	380,893	1,926,763
February	3,219,714	358,636	3,578,350
March	3,624,032	305,284	3,929,316
April	2,449,800	282,746	2,732,546
May	2,658,733	454,340	3,113,073
June	2,992,933	291,976	3,284,909
July	2,438,613	278,948	2,717,561
August	3,143,258	338,738	3,481,996
September	3,051,066	293,736	3,344,802
October	2,607,935	223,765	2,831,700
November	3,822,066	309,236	4,131,302
December	3,146,064	276,477	3,422,541

Average total flow (gpd)	34,700,084	3,794,775	38,494,859
Average Daily Flow (gpd)	2,891,674	316,231	3,207,905

Table 7
Average Daily Flow to NMWA (2008 to 2018)
West Norriton Township

Rittenhouse Pump Station											
Month	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
January	1,140,058	1,456,990	1,463,313	829,881	1,631,760	1,708,296	1,847,377	1,765,629	1,418,064	1,316,032	1,545,870
February	1,766,872	559,437	1,722,096	1,505,254	1,204,106	1,603,490	3,119,342	1,649,457	2,902,034	1,270,321	3,219,714
March	1,846,990	515,907	2,755,964	2,072,793	1,304,838	1,684,645	233,590	2,617,167	1,724,129	1,829,354	3,624,032
April	977,496	544,155	1,361,187	1,515,407	1,724,400	1,310,723	2,577,086	3,009,310	1,401,366	1,710,233	2,449,800
May	1,196,496	540,160	778,958	1,063,490	1,660,581	1,212,654	2,603,622	1,071,816	1,766,419	1,650,709	2,658,733
June	858,186	576,791	637,826	551,286	1,411,733	2,491,360	1,517,076	1,598,126	1,128,400	1,748,633	2,992,933
July	1,008,148	571,476	806,335	503,868	1,160,841	1,681,932	1,037,000	1,751,812	1,043,032	1,770,258	2,438,613
August	611,941	1,197,658	764,652	1,320,574	1,297,906	1,549,880	931,329	1,026,774	887,709	1,719,645	3,143,258
September	1,086,073	1,130,403	696,443	2,465,300	1,538,583	980,463	966,586	1,425,910	986,100	1,399,866	3,051,066
October	953,025	1,310,132	955,535	1,613,858	1,481,161	1,054,687	971,709	1,240,903	897,483	1,380,613	2,607,935
November	1,012,316	1,013,466	753,803	1,322,593	1,372,833	1,012,422	1,245,956	953,266	1,054,833	1,607,500	3,822,066
December	1,922,929	2,076,363	896,903	2,257,632	1,686,839	1,855,090	1,643,680	1,680,290	1,350,677	1,486,967	3,146,064
Total flow (gpd)	14,380,530	11,492,938	13,593,015	17,021,936	17,475,581	18,145,642	18,694,353	19,790,460	16,560,246	18,890,131	34,700,084
Average daily (gpd)	1,198,378	957,745	1,132,751	1,418,495	1,456,298	1,512,137	1,557,863	1,649,205	1,380,021	1,574,178	2,891,674

Jackson Street											
Month	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
January	790,335	769,226	957,096	926,654	774,271	501,065	549,006	465,968	321,458	465,968	380,893
February	778,410	702,625	984,242	1,181,932	627,951	324,078	381,053	357,029	370,917	357,029	358,636
March	939,700	634,481	1,199,387	1,382,040	441,216	293,412	455,265	413,816	357,858	413,816	305,284
April	891,593	787,590	1,057,330	1,107,757	404,566	293,516	363,277	418,336	391,640	418,336	282,746
May	976,874	799,035	844,048	821,629	315,281	422,419	333,000	401,526	366,465	401,526	454,340
June	737,986	818,420	810,590	910,306	42,916	422,650	402,150	374,006	422,190	374,006	291,976
July	572,561	711,158	721,716	780,844	359,752	314,109	427,270	382,194	299,829	382,194	278,948
August	730,770	919,719	604,587	965,958	318,684	509,303	437,970	392,509	427,322	392,509	338,738
September	519,453	841,158	749,493	921,690	198,200	494,650	368,222	405,593	399,580	405,593	293,736
October	605,374	914,658	944,132	629,923	264,568	387,968	393,510	292,897	311,125	292,897	223,765
November	723,646	865,060	899,283	1,031,928	356,193	348,340	336,196	321,070	314,900	321,070	309,236
December	839,361	1,062,719	962,383	599,409	381,393	405,984	416,813	287,471	405,265	287,471	276,477
Total flow (gpd)	9,106,063	9,825,849	10,734,287	11,260,070	4,484,991	4,717,494	4,863,732	4,512,415	4,388,549	4,512,415	3,794,775
Average daily (gpd)	758,839	818,821	894,524	938,339	373,749	393,125	405,311	376,035	365,712	376,035	316,231

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Average daily to NMWA (gpd)	1,957,216	1,776,566	2,027,275	2,356,834	1,830,048	1,905,261	1,963,174	2,025,240	1,745,733	1,950,212	3,207,905
Total precipitation (inch)	41.78	48.17	44.06	54.19	44.56	49.64	39.99	23.59	38.12	39.12	74.62

* 2015 Precipitation from www.accuweather.com for 19403
 **2016-2018 precipitation from NMWA

ATTACHMENT F
INDUSTRIAL WASTES

INDUSTRIAL WASTES

All industrial wastes is required to meet the Industrial Pretreatment Standards of NWMA.

ATTACHMENT G
FLOW METER CALIBRATION REPORTS

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

MAY 21 2018

WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 19403

SERVICE DATE: 5/11/2018
METER#: C2000 AE
LOCATION: CHESTNUT STREET
SERIAL #: N28401/20/4
MANUFACTURER: ABB
RECORDER: 1900 COMMANDER
TRANSMITTER: MAGMASTER
PRIMARY: 4 INCH
MAXIMUM CAPACITY: 500 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** ZERO & FLOW RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
CHECKED OUTPUT AT ZERO & FLOW RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE **PERSON SEEN:** TONY TUSKI
copies-

MAY 21 2018

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 19403

SERVICE DATE: 5/11/2018
METER#: C2000 AC
LOCATION: WHITEHALL ROAD
SERIAL #: 8503A0455
MANUFACTURER: FISCHER & PORTER
RECORDER: 51C1102DZ
TRANSMITTER: 50PZ1112
PRIMARY: MAG X
MAXIMUM CAPACITY: 3,000 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 15, 50 & 80%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** 0, 15, 50 & 80%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
0, 15, 50 & 80%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE **PERSON SEEN:** TONY TUSKI
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 19403

SERVICE DATE: 5/11/2018
METER#: C2000 AD
LOCATION: PORT INDIAN
SERIAL #: 160612-FA-18621692
MANUFACTURER: F&P / OMEGA
RECORDER: 1392
TRANSMITTER: FDT-21W
PRIMARY: 8 INCH
MAXIMUM CAPACITY: 1500 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** 0, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
CHECKED OUTPUT AT ZERO FLOW
ERROR: 0% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE **PERSON SEEN:** TONY TUSKI
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

MAY 21 2018

*****SERVICE REPORT*****

WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 19403

SERVICE DATE: 5/11/2018
METER#: C2000 AA
LOCATION: JACKSON STREET
SERIAL #: 9902E3010E6/US21707-001
MANUFACTURER: E & H/CHELSELL
RECORDER: 392
TRANSMITTER: FMU90
PRIMARY: 9" PARSHALL FLUME
MAXIMUM CAPACITY: 3.5 MGD
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
FLOW MEASUREMENTS
ERROR: 0% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE **PERSON SEEN:** TONY TUSKI
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TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 19403

SERVICE DATE: 5/11/2018
METER#: C2000 AB
LOCATION: RITTENHOUSE PUMP STATION
SERIAL #: 356807
MANUFACTURER: SPARLING/CHESELL
RECORDER: 392
TRANSMITTER: FM656-185-1A3-0
PRIMARY: MAG
MAXIMUM CAPACITY: 10,000 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
INTERNAL SIMULATION
ERROR: 0% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE **PERSON SEEN:** TONY TUSKI
copies-