# DOWNERS GROVE SANITARY DISTRICT GENERAL MANAGER'S REPORT January 17, 2020

## January Board Meeting

Copies of the following items are enclosed for the January 21, 2020 meeting:

- 1) Proposed Agenda
- 2) Minutes of the December 17, 2019 regular meeting
- 3) Claim Ordinance 1885
- 4) Operations Report 2019 WWTC Annual Summary
- 5) Operations Report 2019 Collection System Construction Summary
- 6) Operations Report 2019 Collection System Performance
- 7) Operations Report 2020 Collection System Work Plan
- 8) Memo FOG Acceptance and CHP Operation Economics
- 9) Executive Session 2020-21 Salary Schedule Confidential under Separate Cover

## **BOLI Meeting**

There is no BOLI meeting scheduled this month.

## **Operations Reports**

Copies of the following are enclosed for December operations:

- 1) Progress Report from Clay on Administrative Services activities.
- 2) The WWTC Operations Report from Marc.
- 3) The WWTC/Lift Station Maintenance Report from Jeff.
- 4) Progress Report from Bob on Collection System Maintenance activities.
- 5) Progress Report from Ted on Collection System Construction activities.
- 6) Progress Report from Reese on Laboratory activities.

## Infiltration/Inflow Removal Work

Inspection efforts on private property under the I/I program with the intention of conducting I/I removal is ongoing in the 1-K-028 (Cass and Burlington, WT) area. A map showing progress for this area is included here, as well as a status summary sheet.

Flow metering continues, including meters in the 1-M-050 (55<sup>th</sup> and Victor, DG) vicinity to evaluate post-rehabilitation and I/I reduction performance. Data collected during recent storms shows that the local system appears to be operating satisfactorily.

## Financial

A copy of the Investment Schedule as of December 31, 2019 is enclosed.

The Treasurer's Report for December 2019 covering the first eight months of FY 19-20 is included here, along with a summary cover memo.

# Meetings

I attended the following meetings since the December 13, 2019 General Manager's report:

- January 10 attended IAWA Technical Committee Meeting at Starved Rock State Park. Clay and Amy U. also attended.

# Miscellaneous

I took vacation days on December 20, 23, 26 and 30.

Copies of the following items are enclosed:

1) General Manager's Reports to Employees dated December 20, 2019; January 3, 2020 and January 17, 2020.

NJM, ARU

cc: WDVB, AES, PWC, BOLI, TTC, WCC, MGP

# DOWNERS GROVE SANITARY DISTRICT BOARD OF TRUSTEES MEETING JANUARY 21, 2020 – 7:00 PM

## PROPOSED AGENDA

- I. APPROVAL OF MINUTES REGULAR MEETING DECEMBER 17, 2019
- II. APPROVAL OF CLAIM ORDINANCE NO. 1885
- III. PUBLIC COMMENT
- IV. OLD BUSINESS
- V. NEW BUSINESS
  - A. OPERATIONS REPORTS
    - 1. 2019 WWTC OPERATIONS SUMMARY
    - 2. 2019 COLLECTION SYSTEM CONSTRUCTION SUMMARY
    - 3. 2019 COLLECTION SYSTEM PERFORMANCE
    - 4. 2020 COLLECTION SYSTEM WORK PLAN
    - 5. FOG ACCEPTANCE AND CHP OPERATION ECONOMICS
- VI. EXECUTIVE SESSION PERSONNEL

#### **MINUTES**

The monthly meeting of the Downers Grove Sanitary District Board of Trustees was held on Tuesday, December 17, 2019, convening at 7:00 p.m. The meeting was held at the District's Administration Center, 2710 Curtiss Street, Downers Grove. Present were President Wallace D. Van Buren, Trustee Amy E. Sejnost, and Trustee Paul W. Coultrap, General Manager Nicholas J. Menninga, Assistant General Manager Amy. R. Underwood, Administrative Supervisor W. Clay Campbell, Staff Engineer Alex Bielawa, Information Coordinator Alyssa J. Caballero and Attorney Michael G. Philipp.

## Minutes of Regular Meeting – November 19, 2019

A motion was made by Trustee Sejnost seconded by Trustee Coultrap approving the minutes of the regular meeting held on November 19, 2019 as presented and authorizing the President and Clerk to sign same. The motion carried.

#### Claim Ordinance No. 1884

A motion was made by Trustee Sejnost seconded by Trustee Coultrap adopting Claim Ordinance No. 1884 in the total amount of \$633,786.15 as presented and authorizing the President and Clerk to sign same. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

## **Public Comment**

Alex Zagariya inquired about his interest in obtaining sewer service for his property at 1042 Norfolk Street, Downers Grove. Technical requirements of the installation and other options were discussed.

#### Old Business – None

## New Business:

## Annexation Ordinance AO 2019-07 - 5904 Janes Ave., Downers Grove

General Manager Menninga presented Annexation Ordinance No. AO 2019-07 for the annexation of one lot located at 5904 Janes Ave., Downers Grove. A motion was made by Trustee Coultrap seconded by Trustee Sejnost accepting the Petition for Annexation, adopting Annexation Ordinance No. AO 2019-07 as presented and authorizing the President and Clerk to sign same. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

## Recapture Agreement – 5836 Janes Ave., Downers Grove

General Manager Menninga presented a Recapture Agreement between the District and property owners, Adam and Jessica Zellner. The Agreement is for a sanitary sewer main extension on Janes Avenue between 59<sup>th</sup> Street and College Avenue in Downers Grove. A motion was made by Trustee Sejnost seconded by Trustee Coultrap approving the Recapture Agreement for the sanitary sewer extension on Janes Avenue between 59<sup>th</sup> Street and College Avenue in Downers Grove and authorizing the General Manager and Assistant Clerk to sign same. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

## **Drug and Alcohol Policy**

Administrative Supervisor Campbell presented proposed revisions to the District's Drug and Alcohol Policy, needed to address the implementation of the legalization of recreational cannabis in Illinois on January 1, 2020. A motion was made by Trustee Coultrap seconded by Trustee Sejnost to approve the proposed revisions to the District's Employee Policy Manual. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

## **Employee Policy Manual Revisions**

Administrative Supervisor Campbell presented proposed revisions the District's Employee Policy Manual intended to address recent legislative changes and to better reflect current business practices at the District. A motion was made by Trustee Sejnost seconded by Trustee Coultrap to approve the proposed revisions to the District's Employee Policy Manual. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

## Schedule of 2020 Regular Meetings for Board of Trustees

Administrative Supervisor Campbell presented the Schedule of Regular Meetings for the Board of Trustees for Calendar Year 2020. An alternate date of October 27 was proposed for the regular monthly meeting in October in lieu of the proposed date of October 20. The approved schedule will be provided to the local papers and posted on the District's website. A motion was made by Trustee Coultrap seconded by Trustee Sejnost approving the Schedule of Regular Meetings for Calendar Year 2020 as revised and directing staff to proceed with providing notice in accordance with the Open Meetings Act.

## Engineering Report: Biosolids Program Improvements Report

Staff Engineer Alex Bielawa presented an engineering report on improvements to the District's biosolids facilities. The report included five potential alternative measures to minimize operational costs and improve the operation of biosolids handling and disposal.

## Other New Business

Trustee Van Buren wished all of the District staff a Merry Christmas.

Trustee Sejnost inquired about the flares at the wastewater treatment center and the operational status of the District's Combined Heat and Power engines. She also complimented the recent updates to Wroble Lift Station. Lastly, she wished all of the District staff Happy Holidays.

Trustee Coultrap also wished all of the District sta	ff Happy Holidays.
A motion was made by Trustee Coultrap second meeting at 7:53 p.m. The motion carried.	led by Trustee Sejnost to adjourn the regular
Approved: January 21, 2020	
	President
Attest:Clerk	

Downers Grove, Illinois

Date: January 21, 2020

Claim Ordinance No. 1885

An Ordinance Providing for the Payment of Certain Claims.

WHEREAS, it appears to the Board of Trustees of the Downers Grove Sanitary District that there are certain claims against said District which would be allowed and paid therefore,

BE IT ORDAINED, by the Board of Trustees of the Downers Grove Sanitary District

That the following claims be and they are hereby approved and ordered paid and that an order be drawn on the Treasurer of said District out of the funds shown below. Said claims, totaling \$577,140.90 being in words and figures as follows:

DATE 12/19/19 PERIOD END 12/14/19 PAGE 6

Payroll Ending Date: 12/14/19
Payroll Paid Date: 12/20/19
GL Date: 01/31/20

G/L NUMBER	COST DESCRIPTION	DEBIT	CREDIT
01-00.1001	(CASH - PAYROLL ACCOUNT)		50142.07-
01-00.2000	FEDERAL TAX WITHHELD		8204.01-
01-00.2001	STATE TAX WITHHELD		3548.90-
01-00.2002	SOCIAL SECURITY WITHHELD		5880.96-
01-00.2003	IMRF WITHHELD		3457.55-
01-00.2013	CREDIT UNION WITHHELD		2114.31-
01-00.2014	VOLUNTARY ADDITIONAL PENSION CONTRIBUTION		2788.76-
01-00.2017	VOLUNTARY GROUP LIFE		224.00-
01-00.2021	FLEXIBLE ACCOUNT WITHHELD - MEDICAL		396.23-
01-00.2022	FLEXIBLE ACCOUNT WITHHELD - DEPENDENT CARE		192.31-
01-00.2024	FLEXIBLE ACCOUNT WITHHELD - PREM CONVERSION		919.90-
01-00.2025	EMPLOYEE INS PREM CONTRIBUTION - POST TAX		337.80-
01-00.2027	DEFERRED COMPENSATION WITHHELD - IPPFA ROTH		40.00-
01-00.2028	DC PLAN LOAN REPAYMENT WITHHELD		136.85-
01-11.A003	GENERAL MANAGEMENT	464.65	
01-11.A004	FINANCIAL RECORDS	6716.74	
01-11.A005	ADMINISTRATIVE RECORDS	679.53	
01-11.A007	CODE ENFORCEMENT	7002.41	
01-11.A008	SAFETY ACTIVITIES	762.00	
01-12.A006	ENGINEERING	1832.49	
01-12.A011	MAINTENANCE - WWTC	11303.82	
01-12.A012	MAINTENANCE - VEHICLES	89.55	
01-12.A013	MAINTENANCE - ENERGY RECOVERY	714.95	
01-12.A014	MAINTENANCE - ELECTRICAL	5395.33	
01-12.A021	WWTC - OPERATIONS	12723.28	
01-12.A022	WWTC - SLUDGE HANDLING	4193.98	
01-12.A023	WWTC - ENERGY RECOVERY	247.96	
01-12.A030	BUILDING AND GROUNDS	3386.95	
01-13.A041	LAB - WWTC	4756.67	
01-13.A042	LAB - PRETREATMENT	16.35	
01-13.A043	LAB - SURCHARGE PROGRAM	159.39	
01-13.A048	LAB - ENERGY RECOVERY	232.19	
01-14.A006	ENGINEERING	160.42	
01-14.A051	SEWER MAINTENANCE	8014.62	
01-14.A054	SEWER MAINTENANCE - BACKUPS AND HIGH FLOWS	246.69	
01-14.A062	INSPECTION - CONSTRUCTION OF DGSD PROJECTS	2024.39	
01-14.A063	INSPECTION - PERMIT INSPECTIONS	821.08	
01-14.A064	INSPECTION - MISCELLANEOUS	1415.41	
01-14.A065	INSPECTION - CONSTR BY VILLAGES, UTILITIES	2463.00	
01-14.A066	INSPECTION - CODE ENFORCEMENT	396.66	
01-14.A072	SEWER INVESTIGATIONS	132.12	
01-15.A030	BUILDING AND GROUNDS	246.00	
01-15.A080	LIFT STATION MAINTENANCE	1785.02	

78383.65 78383.65-

GENERAL LEDGER RECAP

PERIOD END 12/15/19 PAGE 4 DATE 12/16/19

G/L NUMBER COST DESCRIPTION DEBIT CREDIT \_\_\_\_\_\_ 01-00.1001 CASH - PAYROLL ACCOUNT 25756.95-01-00.2000 FEDERAL TAX WITHHELD 4404.04-01-00.2001 STATE TAX WITHHELD 1805.94-01-00.2002 SOCIAL SECURITY WITHHELD 2549.43-01-00.2003 IMRF WITHHELD 1822.95-01-00.2013 CREDIT UNION WITHHELD 800.00-1506.79-01-00.2014 VOLUNTARY ADDITIONAL PENSION CONTRIBUTION 01-00.2020 DEFERRED COMPENSATION WITHHELD - ICMARC 300.00-01-00.2021 FLEXIBLE ACCOUNT WITHHELD - MEDICAL 62.83-01-00.2024 FLEXIBLE ACCOUNT WITHHELD - PREM CONVERSION 378.95-01-00.2025 EMPLOYEE INS PREM CONTRIBUTION - POST TAX 285.62-01-00.2026 1050.00-DEFERRED COMPENSATION WITHHELD - IPPFA 01-00.2028 DC PLAN LOAN REPAYMENT WITHHELD 77.06-01-11.A003 GENERAL MANAGEMENT 14544.49 01-11.A004 FINANCIAL RECORDS 852.62 01-11.A005 ADMINISTRATIVE RECORDS 253.17 01-11.A007 CODE ENFORCEMENT 9215.52 01-11.A008 SAFETY ACTIVITIES 177.03 01-12.A006 ENGINEERING 268.62 01-12.A009 OPERATIONS MANAGEMENT 4439.35 01-12.A011 MAINTENANCE - WWTC 3940.51 01-12.A014 MAINTENANCE - ELECTRICAL 517.74 01-12.A021 WWTC - OPERATIONS 534.54 01-12.A022 WWTC - SLUDGE HANDLING 1936.68 01-12.A030 BUILDING AND GROUNDS 57.71 01-13.A009 OPERATIONS MANAGEMENT 3114.71 01-13.A042 LAB - PRETREATMENT 331.53 01-13.A043 LAB - SURCHARGE PROGRAM 501.47 01-15.A009 OPERATIONS MANAGEMENT 86.02 01-15.A080 LIFT STATION MAINTENANCE 28.85

> 40800.56 40800.56

Payroll Ending Date: 12/15/19

Payroll Paid Date: 12/17/19

GL Date:

01/31/19

COST DESCRIPTION

G/L NUMBER

DATE 12/30/19 PERIOD END 12/28/19 PAGE 6

DEBIT

CREDIT

	CASH - PAYROLL ACCOUNT		50879.68
01-00.2000	FEDERAL TAX WITHHELD		8419.07-
01-00.2001	STATE TAX WITHHELD		3598.97-
01-00.2002	SOCIAL SECURITY WITHHELD		5964.75-
01-00.2003	IMRF WITHHELD		3499.58-
01-00.2012	WAGE DEDUCTION ORDER		254.66-
01-00.2013	CREDIT UNION WITHHELD		2114.31-
01-00.2014	VOLUNTARY ADDITIONAL PENSION CONTRIBUTION		2725.20-
01-00.2021	FLEXIBLE ACCOUNT WITHHELD - MEDICAL		396.23-
01-00.2022	FLEXIBLE ACCOUNT WITHHELD - DEPENDENT CARE		192.31-
	FLEXIBLE ACCOUNT WITHHELD - PREM CONVERSION		919.90-
01-00.2025	EMPLOYEE INS PREM CONTRIBUTION - POST TAX		337.80-
01-00.2027	DEFERRED COMPENSATION WITHHELD - IPPFA ROTH		40.00-
01-00.2028	DC PLAN LOAN REPAYMENT WITHHELD		136.85-
01-11.A003	GENERAL MANAGEMENT	668.79	
01-11.A004	FINANCIAL RECORDS	6220.26	
01-11.A005	ADMINISTRATIVE RECORDS	716.19	
01-11.A006	ENGINEERING	448.16	
01-11.A007	CODE ENFORCEMENT	7184.79	
	SAFETY ACTIVITIES	382.00	
01-12.A006	ENGINEERING	1729.51	
01-12.A011	MAINTENANCE - WWTC	10719.56	
01-12.A014	MAINTENANCE - ELECTRICAL	6709.07	
01-12.A021	WWTC - OPERATIONS	12874.35	
01-12.A022		6772.55	
01-12.A023	WWTC - ENERGY RECOVERY	425.41	
01-12.A030	BUILDING AND GROUNDS	3475.64	
01-13.A041	LAB - WWTC	4987.94	
01-13.A048	LAB - ENERGY RECOVERY	86.94	
01-14.A006	ENGINEERING	25.91	
01-14.A051	SEWER MAINTENANCE	6417.99	
01-14.A054	SEWER MAINTENANCE - BACKUPS AND HIGH FLOWS	633.59	
01-14.A062	INSPECTION - CONSTRUCTION OF DGSD PROJECTS	2980.66	
01-14.A063	INSPECTION - PERMIT INSPECTIONS	227.03	
01-14.A064	INSPECTION - MISCELLANEOUS	2218.90	
01-14.A065	INSPECTION - CONSTR BY VILLAGES, UTILITIES	1664.95	
01-14.A066	INSPECTION - CODE ENFORCEMENT	748.92	
01-14.A072	SEWER INVESTIGATIONS	165.45	
01-15.A030	BUILDING AND GROUNDS	246.00	
01-15.A080	LIFT STATION MAINTENANCE	748.75	

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 Payroll Ending Date:
 12/28/19

 Payroll Paid Date:
 01/03/20

 GL Date:
 01/31/20

GENERAL LEDGER RECAP

Payroll Ending Date: 12/31/19
Payroll Paid Date: 01/03/20
GL Date: 01/31/20 DATE 01/02/20 PERIOD END 12/31/19 PAGE 4

40800.57

40800.57-

G/L NUMBER	COST DESCRIPTION	DEBIT	CREDIT
01-00.1001	CASH - PAYROLL ACCOUNT		25192.33-
	FEDERAL TAX WITHHELD		4348.40-
	STATE TAX WITHHELD		1803.15-
	SOCIAL SECURITY WITHHELD		3095.98-
01-00.2003	IMRF WITHHELD		1821.16-
01-00.2013	CREDIT UNION WITHHELD		800.00-
01-00.2014	VOLUNTARY ADDITIONAL PENSION CONTRIBUTION		1505.09-
01-00.2017	VOLUNTARY GROUP LIFE		80.00-
01-00.2020	DEFERRED COMPENSATION WITHHELD - ICMARC		300.00-
01-00.2021	FLEXIBLE ACCOUNT WITHHELD - MEDICAL		62.83-
01-00.2024	FLEXIBLE ACCOUNT WITHHELD - PREM CONVERSION		378.95-
01-00.2025	EMPLOYEE INS PREM CONTRIBUTION - POST TAX		285.62-
01-00.2026	DEFERRED COMPENSATION WITHHELD - IPPFA		1050.00-
01-00.2028	DC PLAN LOAN REPAYMENT WITHHELD		77.06-
01-11.A003	GENERAL MANAGEMENT	16264.78	
01-11.A004	FINANCIAL RECORDS	938.12	
01-11.A005	ADMINISTRATIVE RECORDS	92.02	
01-11.A007	CODE ENFORCEMENT	9361.92	
01-11.A008	SAFETY ACTIVITIES	101.83	
01-12.A006	ENGINEERING	129.65	
01-12.A009	OPERATIONS MANAGEMENT	4922.96	
01-12.A011	MAINTENANCE - WWTC	4354.24	
01-12.A014	MAINTENANCE - ELECTRICAL	88.16	
01-12.A021	WWTC - OPERATIONS	357.03	
01-13.A009	OPERATIONS MANAGEMENT	3473.04	
01-13.A042	LAB - PRETREATMENT	399.45	
01-14.A072	SEWER INVESTIGATIONS	96.70	
01-15.A009	OPERATIONS MANAGEMENT	66.25	
01-15.A030	BUILDING AND GROUNDS	44.35	
01-15.A080	LIFT STATION MAINTENANCE	110.07	

====== VENDOR ======		===== 1N	NOICE =====					
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
A-LEN RADIATOR & AUTOMOTIVE	A000070	12/27/19	58870	01-12.B501	Truck Repairs	1131.09	1131.09	062117
AT & T MOBILITY	A000085	01/03/20	831873915	01-15.B112	LS Cell Dialer	53.95	53.95	062118
ACCURATE OFFICE SUPPLY	A000093	12/27/19	501018	01-11.B116	Office Supplies	34.66	34.66	062119
ADVANCED DISPOSAL	A000153	12/31/19	T8009072	01-12.B102	Garbage & Recycle	305.75	305.75	062120
ALLIED WASTE SERVICE	A000255	12/31/19	055101470189	01-12.B102	Grit Scrn Dump Pick Up	551.72		
		12/15/19	305513001136	01-12.B102	Grit Scrn Dumpster Rental	69.12	620.84	062121
ALTORFER INDUSTRIES, INC.	A000292	01/14/20	PM600286665	01-15.B529	Portable Generator PM	614.52	614.52	101923
SYNCHB/AMAZON	A000295	12/23/19	433384735786	01-12.B116	Electrical Supplies	12.99		
		01/13/20	433553368756	01-11.C225	Vehicle First Aid Kits	87.96		
		01/13/20	433553368756	01-12.B113	Vehicle First Aid Kits	87.96		
		12/09/19	443368778465	01-12.B116	Ops Supplies	5.79		
		12/09/19	443647484697	01-14.B117	Empl Gift Cards - Holiday	200.00		
		12/09/19	444848896499	01-11.B117	Empl Gift Cards - Holiday	250.00		
		12/09/19	444848896499	01-12.B117	Empl Gift Cards - Holiday	450.00		
		12/09/19	444848896499	01-13.B117	Empl Gift Cards - Holiday	50.00		
		12/09/19	444848896499	01-14.B117	Empl Gift Cards - Holiday	100.00		
		12/23/19	448656544397	01-13.B116	Lab Supplies	44.07		
		12/23/19	453373575389	01-12.B113	Safety Supplies	21.99		
		01/10/20	457579679559	01-14.B112	Phone Charging Cables	25.20		
		01/10/20	457579679559	01-14.B117	AL Safety Shoes	99.92		
		12/16/19	458564483755	01-11.B112	Phone Case	25.98		
		12/19/19	464935689646	01-11.B116	Admin Supplies	25.42		
		01/13/20	489635456597	01-11.B116	Admin Supplies	26.64		
		12/09/19	566497449837		AB Outerwear	79.99		
		01/08/20	568436357536	01-12.B513	Aer Tank 8&9 Gate Part	585.49		
		12/09/19	568988858878	01-12.B116	Ops Supplies	15.48		
		01/13/20	653757985565	01-12.B113	Vehicle First Aid Kits	241.89		
		01/13/20	653757985565	01-14.B113	Vehicle First Aid Kits	197.91		
		01/08/20	769935867894	01-12.B513	Digester 3 Remote I/O Par	437.49		
		12/06/19	787549475598	01-12.B116	Ops Supplies	62.88		
			833998646656		JR Safety Shoes	129.95		
		12/19/19	854349966585	01-12.B117	JB Outerwear	74.95		
		12/09/19	886433564968	01-12.B116	Ops Supplies	20.26		
			977967668775		Safety Supplies	21.99	3382.20	062122
ATLAS TOYOTA MATERIAL HANDLIN	IG A000525	12/25/19			Forklift Parts	88.03	88.03	101924
AUTOZONE - AZ COMMERCIAL	A000600		2576476615		Vac Con Auto Parts	275.55		
			2576492067		Auto Parts	65.94		
			2576495521		LS Generator Battery	152.99		
			2576495920		Batery Core Credit	18.00-	476.48	062123
SIAMAK AZARNIA	A000700		Reimburse		Veh Rental During Repair	148.19	148.19	101925
BAXTER & WOODMAN, INC.	B000120	12/19/19			Outfall Sewer Sag Repair	2172.02	110.17	101723
TIVE.	200120	12/19/19			Misc Engineering Services	574.10		
		12/19/19			WAS Thickener Services	1637.50		
		12/19/19			Net Zero Center	297.50		
		12/19/19			Net Zero Center	986.60	5667.72	101926
		14/31/19	UZIUOUD	リコーエス・BNIス	Ner Zero Center	700.00	200///	1111970

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NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
CALLONE	C000073	01/15/20	182100	01-11.B112	Admin Phone Service	536.58		
		01/15/20	182100	01-12.B112	WWTC Phone Service	297.32	833.90	062125
WILLIAM C CAMPBELL	C000075	12/30/19	Reimburse	01-11.B117	Annual Reg ARDC	385.00	385.00	101927
CERTIFIED BALANCE & SCALE COR	P C000130	01/09/20	24117	01-13.B115	Clean & Calibrt Lab Equip	1460.00	1460.00	062126
SHERRILL CHILLO	C000287	01/17/20	Rebate 55	01-00.2007	SA 55 Rebate	586.69	586.69	062167
CINTAS #344	C000300	12/20/19	4037970528	01-12.B117	WWTC Uniform Rental	590.23		
		12/20/19	4037970528	01-14.B117	SS Uniform Rental	143.21		
		01/10/20	4039755081	01-12.B117	WWTC Uniform Rental	66.01		
		01/10/20	4039755081	01-14.B117	SS Uniform Rental	7.07	806.52	062127
CINTAS FIRST AID & SAFETY	C000320	12/19/19	5015553171	01-11.B116	First Aid Supplies	50.54		
		12/19/19	5015553171	01-12.B113	First Aid Supplies	262.84	313.38	062128
ALLAN J. COLEMAN CO.	C000340	01/08/20	0228193	01-14.B115	SS Equip Repair	798.92	798.92	062129
COMCAST	C000373	01/03/20	201200550568	01-11.B112	Internet Service	148.35	148.35	062130
COMED	C000380	12/12/19	0055025057	01-15.B100	College LS Elec	251.65		
		12/12/19	0068029014	01-15.B100	Centex LS Elec	83.61		
		12/12/19	0120089072	01-15.B100	Wroble LS Elec	447.99		
		12/12/19	0458029046	01-15.B100	Lib Park LS Elec	279.14		
		12/19/19	0562080004	01-15.B100	Venard LS Elec	329.14		
		12/12/19	1095091170	01-15.B100	Northwest LS Elec	810.50		
		01/14/20	1108062005	01-11.B100	Admin Elec	161.16		
		01/14/20	1108062005	01-12.B100	WWTC Elec	4892.48		
		12/12/19	1810068039	01-15.B100	Earlston LS Elec	193.66		
		12/12/19	3240038012	01-15.B100	Butterfield LS Elec	120.88		
		12/12/19	4657083017	01-15.B100	Hobson LS Elec	1272.50		
		12/23/19	6770572011	01-00.2005	BSSRAP Yard Elec Use	374.64		
		12/23/19	6770572011	01-12.B100	Walnut House Elec	69.85		
		12/23/19	8762083052	01-12.B100	Big Top Elec	75.83	9363.03	062131
CONCENTRIC INTEGRATION, LLC	C000410	12/19/19	0210488	01-11.B115	Disp Cable & Meraki Licen	313.73		
		12/19/19	0210492	01-11.B115	Admin Support Service	1102.01		
		12/19/19	0210492	01-12.B503	SCADA Support	836.01		
		12/19/19	0210492	01-12.B513	WWTC Support Services	997.50		
		12/19/19	0210492	01-15.B529	LS Control Sys Support	399.00	3648.25	101928
CORE & MAIN LP	C000485	11/07/19	L499906	01-14.B913	SS Stock Parts	364.75		
		11/07/19	L504184	01-14.B913	Shear Ring Return	48.00-		
		12/04/19	L622631	01-14.B913	Cleanout Plug Returns	350.25-		
		12/13/19	L671819	01-14.B913	SS Parts	355.59		
		01/02/20	L709044	01-14.B115	SS Stock Parts	147.00		
		01/08/20	L747101	01-12.B812	WWTC Roadway Storm Cvr	270.00		
		01/08/20	L757751	01-12.B103	Odor Control Fan Parts	58.00	797.09	062132
CURTIS MARTIN GROUP, INC.	C000660	12/23/19			AP Programming Fix	240.00		
•		01/06/20			Payroll Program Fix	420.00	660.00	101929
DAHME MECHANICAL INDUSTRIES	D000030		20190504		Grit Piping Replace	14750.00		
			20190506		RAS Meter & Piping	16775.00		
			20200007		Air Main & Valve Replace	12285.00	43810.00	101930
DELTA SONIC	D000220	11/29/19			WWTC Vehicle Wash	15.00		
		11/29/19			SS Vehicle Wash	37.50	52.50	062133

===== VENDOR ====	========	===== IN	NOICE =====					
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NC
DIRECT ENERGY BUSINESS	D000227	12/17/19	1685323	01-15.B100	Wroble LS Elec	599.44		
		12/24/19	1685325	01-15.B100	Venard LS Elec	420.46		
		12/17/19	1685326	01-15.B100	Northwest LS Elec	1067.09		
		12/17/19	1685330	01-15.B100	Hobson LS Elec	1483.57	3570.56	062134
VILLAGE OF DOWNERS GROVE	D000480	12/19/19	157556	01-11.B121	Meter Readings	413.32		
		01/10/20	157646	01-11.C222	Admin Vehicle Fuel	109.23		
		01/10/20	157646	01-12.B812	Gas Can Fuel	42.02		
		01/10/20	157646	01-12.C222	WWTC Vehicle Fuel	749.30		
		01/10/20	157646	01-13.C222	Lab Vehicle Fuel	29.50		
		01/10/20	157646	01-14.C222	SS Vehicle Fuel	744.38		
		01/10/20	157646	01-15.B529	LS Pump Fuel	33.77		
		12/31/19	C2027270001	01-12.B102	WWTC Water Use	436.24		
		12/31/19	C2027271001	01-11.B102	Admin Water Use	67.69		
		01/09/20	UN-000019	01-12.B104	Fuel Tank License	195.00	2820.45	062135
DREISILKER ELECTRIC MOTORS	INC.D000500	12/30/19	I142807	01-12.B812	Exhaust Fan Parts	180.44	180.44	062136
DUPAGE COUNTY RECORDER	D000620	12/16/19			Sewer Permit Docs	264.00		
		12/16/19			Sewer Permit Docs	132.00		
			40095377	01-14.B901		132.00		
			40095377		BSSRAP Docs	44.00		
			40095411		BSSRAP Docs	308.00		
			40095575		BSSRAP Docs	352.00	1232.00	062137
ESRI	E000050		235721.8		ArcGIS Prog Maintenance	1900.00	1900.00	062138
ESKI EYE MED VISION CARE	E000600		164161064		Vision Insurance	449.89	449.89	062139
	F000600						449.09	002139
FASTENAL COMPANY	1000000		ILWES73624		Belt Press Fittings	80.02		
			ILWES74093		AT 8&9 Actuator	22.16		
			ILWES74152		Bar Screen Parts	26.30		
			ILWES74167		Grit Bldg Parts	95.21		
			ILWES74178		AT 8&9 Actuator Gate Part	20.65		
			ILWES74200		Grit Bldg Parts	49.86		
			ILWES74201		Filter Blower Parts	349.61	643.81	101931
FEDEX KINKO'S	F000075		361300021346		Lab Supplies	28.55	28.55	062140
FIRST ENVIRONMENTAL LAB	F000140	12/13/19			Surcharge FOG	302.40		
		12/17/19			Surcharge FOG	126.00		
		12/17/19	152183		2019 Fall Semi Ann NPDES	853.20		
		12/30/19	152363	01-13.B123	2019 Fall Industrial	82.80	1364.40	101932
ROLF FLECHSIG	F000165	01/07/20	49411	01-12.B117	Boots	244.95	244.95	101933
FLOW-TECHNICS, INC	F000190	12/31/19	INV00007774	01-15.B523	Earlston LS Pump Overhaul	857.81	857.81	062141
FULLIFE LLC	F000440	12/06/19	51417	01-12.B116	MSB Supplies	26.36	26.36	062142
RAJAKUMAR GANESAN	G000123	01/17/20	Rebate 52	01-00.2007	SA 52 Rebate	21.98	21.98	062168
REVERE ELECTRIC	G000410	12/17/19	S4035639.001	01-12.B507	RAS 2 Flow Meter Parts	260.91		
		12/18/19	S4035746.001	01-12.B507	RAS 2 Flowmeter Part	38.25		
		12/20/19	S4038463.001	01-12.B103	BioFilter Part	188.18		
		12/23/19	S4039844.001	01-12.B103	BioFilter Parts	68.39		
		12/24/19	S4039952.001	01-12.B103	BioFilter Part	13.67		
		01/08/20	S4047827.001	01-12.B812	Electrical Supplies	30.00		
		01/09/20	S4049646.001	01-12.B507	AT 8&9 Part	375.03	974.43	062143

===== VENDOR ===								
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK N
W. W. GRAINGER, INC.	G000520	12/09/19	9380342346	01-12.B502	See Sheet	478.17		
		12/10/19	9381054700	01-12.B510	See Sheet	191.16		
		12/10/19	9381956086	01-12.B502	See Sheet	28.44		
		12/11/19	9382211572	01-12.B512	See Sheet	224.11		
		12/17/19	9387827794	01-12.B507	See Sheet	70.46		
		12/17/19	9388763022	01-11.B118	See Sheet	357.92		
		12/18/19	9389182479	01-12.B116	See Sheet	56.70		
		12/19/19	9391069730	01-12.B512	See Sheet	423.59		
		12/20/19	9391858421	01-12.B812	See Sheet	770.00		
		12/27/19	9395551030	01-12.B512	See Sheet	276.57		
		12/30/19	9396009673	01-12.B113	See Sheet	156.72		
		12/30/19	9396009681	01-12.B812	See Sheet	125.27		
		01/02/20	9398375684	01-12.B812	See Sheet	125.27-		
		01/03/20	9399627802	01-12.B103	See Sheet	52.12		
		01/03/20	9399901967	01-12.B507	See Sheet	15.56		
		01/06/20	9401194734	01-12.B812	See Sheet	560.00-		
		01/08/20	9404070667	01-12.B116	See Sheet	56.70		
		01/09/20	9405297608	01-12.B512	See Sheet	138.42		
		01/13/20	9409416717	01-12.B812	See Sheet	155.23		
		01/15/20	9412073679	01-12.B507	See Sheet	33.02		
		01/15/20	9412397631	01-12.B116	See Sheet	77.71	3002.60	10193
ML, INC.	н000035	12/27/19	74670	01-13.B123	Biosolids Testing	1000.00	1000.00	06214
LAN HARTIGAN	н000144	01/16/20	Reimburse	01-14.B112	Phone Case	53.98	53.98	10193
OME DEPOT	н000400	01/08/20	0014076	01-12.B510	See Sheet	131.22		
		12/18/19	1013381	01-12.B812	See Sheet	284.52		
		12/18/19	1520675	01-14.B116	See Sheet	16.78		
		01/07/20	1623524	01-12.B812	See Sheet	88.68		
		01/06/20	2013977	01-12.B812	See Sheet	21.11		
		12/17/19	2020642	01-12.B812	See Sheet	85.87		
		12/27/19	2021397	01-12.B501	See Sheet	5.18		
		01/06/20	2623400	01-15.B529	See Sheet	23.91		
		01/15/20	3020175	01-15.B116	See Sheet	26.82		
		12/16/19	3020533	01-12.B812	See Sheet	251.86		
		12/26/19	3021448	01-12.B812	See Sheet	22.75		
		01/15/20	3034042	01-12.B507	See Sheet	15.77		
		01/14/20	4063141	01-12.B812	See Sheet	.64		
		01/03/20	5013947	01-14.B115	See Sheet	34.97		
		01/03/20	5371256	01-12.B812	See Sheet	15.96		
		01/02/20	6022110	01-12.B812	See Sheet	29.88		
		01/10/20	8022927	01-12.B812	See Sheet	50.06		
		12/10/19	9012509	01-12.B805	See Sheet	37.67	1143.65	06214
MPACT NETWORKING INC.	1000400	12/20/19		01-11.B118		106.85	106.85	10193
NFOSEND, INC.	1000415	12/31/19			Customer Bill Mailing	3896.31	3896.31	10193
WEA	1000900	01/14/20			MM & BM Conference	470.00		
		01/14/20			RB Conference	300.00	770.00	06214
OHNSTONE SUPPLY	Ј000140	01/03/20			Hypo Blg Thermostat	33.91	33.91	10193

====== VENDOR ======		===== IN	VOICE =====					
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
JULIE, INC.	J000250	01/08/20	2020-0428	01-14.B127	JULIE Service	4185.36	4185.36	062147
KANSAS CITY LIFE INSURANCE CO	K000045	01/15/20	14887	01-17.E455	Life Insurance	402.50	402.50	101939
KODIAK CONTROLS INC.	K000210	12/20/19	WM19V49	01-12.B512	Gauge Restock	377.16		
		01/02/20	WM19V49A	01-12.B512	Maint Repair Supplies	317.00	694.16	101940
ROBERT KRIEGSELS	K000277	01/17/20	Rebate 56	01-00.2007		1152.21	1152.21	062169
KUBIS AUTO BODY SHOP INC	K000310	01/09/20	036141	01-17.E452		1170.95	1170.95	062148
LAI, LTD	L000012		19-16744		Aer Tank 8&9 Gate Actuatr	11048.00		
,			19-16927	01-12.B507	TWAS Sludge Pump Part	8900.00	19948.00	101941
LOU'S GLOVES	L000300	12/13/19			Gloves	336.00	336.00	101942
MBM SERVICES INC.	M000010	12/18/19	32189		Admin Supplies	258.43		
		01/01/20	32209	01-11.B118	Admin Cleaning Service	350.00	608.43	101943
MCCANN INDUSTRIES, INC.	M000340		P14303		Concrete Joint Caulk	105.26	105.26	062149
MCMASTER-CARR SUPPLY COMPANY	M000360	01/07/20	26943570	01-12.B117		41.04	103.20	002119
MONIBILITY CHARGOTTET COMPINY	11000500	01/07/20	28107298		AT 1-4 Parts	607.25	648.29	101944
SHEILA MORAN	M000660	01/13/20	Rebate 49		SA 49 Rebate	41.14	41.14	062170
MOTION INDUSTRIES, INC.	M000000		IL10-677447		Pri Tank 7-9 Parts	478.29	478.29	101945
MUNICIPAL MARKING	M000730	01/03/20	28474		SS Marking Tools	39.89	39.89	101946
NCPERS GROUP LIFE INSURANCE	N000010		3266012020		Voluntary Life Insurance	304.00	39.09	062150
NAPCO STEEL, INC.			435454				304.00	002130
NAPCO SIEEL, INC.	N000050	01/13/20			Grit Cyclone Part	133.35	621 10	101047
NTT-1700 T-170	************	01/13/20	435454	01-12.B507		497.75	631.10	101947
NEUCO, INC.	N000260		4138209		Heat Exchngr 3 Parts	369.09	369.09	101948
NICOR GAS	N000330	12/16/19	2833584	01-12.B101	Walnut House Gas	197.54		
		01/15/20	2833584-1	01-12.B101	Walnut House Gas	190.36		
		12/16/19	3892638		Admin Center Gas	176.40		
			4440979		Plant Gas	291.48		
		12/16/19			Chem Feed Gas	241.74		
		12/16/19			Plant 2 Gas	252.63		
			4782107-1		Plant 2 Gas	221.80	1571.95	062151
VILLAGE OF OAK BROOK	0000050	01/14/20	20616		Meter Readings	763.14	763.14	062152
ACI PAYMENTS INC.	0000300	12/20/19	100015327	01-11.B110	OLR Fees	30.10	30.10	101949
PACE ANALYTICAL	P000010	12/19/19	1940077414	01-13.B123	December NPDES Monthly	100.00	100.00	101950
MANEKLAL S PATEL	P000105	01/17/20	Rebate 54	01-00.2007	SA 54 Rebate	231.69	231.69	062171
PETTY CASH	P000350	01/17/20	Cash Box	01-11.B117	Supervisor Lunch	74.88		
		01/17/20	Cash Box	01-11.B119	Postage Due	15.51		
		01/17/20	Cash Box	01-12.B117	Refresh SWPPP Training	32.06	122.45	062153
POLYDYNE INC.	P000395	12/19/19	1414392	01-12.B402	Belt Press Polymer	2142.54		
		01/03/20	1417590	01-12.B402	Credit - Did Not Receive	1071.27-		
		01/03/20	1418032	01-12.B402	Belt Press Polymer	1071.28		
		01/08/20	1419055	01-12.B402	Belt Press Polymer	2142.54	4285.09	101951
PORTER PIPE AND SUPPLY CO.	P000420	12/11/19	11998488-00	01-12.B506	Primary 8 Cross Coll Part	409.93	409.93	101952
PRINCIPAL LIFE INSURANCE CO	P000650	12/18/19	1093099	01-17.E455	Dental Insurance	2537.70	2537.70	101953
RAPTOR TECH INC.	R000105	12/19/19	12469	01-12.B513	CHP 2	143.00		
		01/10/20	12482	01-12.B507	RAS Pump 5	216.00	359.00	101954
RED WING SHOE STORE	R000180	12/11/19	45-1-78590	01-14.B117	DJ Boots	118.99	118.99	101955
RENTAL MAX L.L.C.	R000250	01/02/20	397693-5	01-12.B116	Fuel Forklift	27.49	27.49	062154



====== VENDOR =====	======================================		VOICE =====										
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK N					
SCHUBERT & SON CONRETE, INC.	S000070	01/10/20	DGSD001	01-12.B103	Odor Control Structure	24750.00							
		01/10/20	DGSD002	01-12.B507	Sidewalk Replace	1500.00	26250.00	101957					
SEAWAY SUPPLY CO.	S000200	12/16/19	151051	01-13.B116	Lab Supplies	58.00							
		12/23/19	151274	01-12.B116	MSB Supplies	58.00							
		01/06/20	151570	01-12.B116	MSB Supplies	239.53	355.53	101958					
SELECTIVE INSURANCE COMPANY	S000210	12/24/19	417-147-515	01-17.E452	Rental Equip Endorsement	178.00	178.00	062155					
SERPENTIX CONVEYOR CORP.	S000230	01/10/20	18876	01-12.B504	Grit Conveyor Parts	2407.85	2407.85	062156					
STAPLES INC.	S000640	01/04/20	8057014118	01-11.B116	Admin Supplies	28.35	28.35	101959					
STENSTROM PETROLEUM	S000670	12/05/19	S147936	01-12.B513	Manhole Cover	194.00	194.00	062157					
STEPHENS PLUMBING AND	S000680	01/05/20	217608	01-14.B910	Shear Repair	394.50							
		01/07/20	217723	01-14.B910	Shear Repair	377.75							
		01/09/20	217800	01-14.B910	Shear Repair	432.00	1204.25	062158					
SUBURBAN DOOR CHECK & LOCK	S000850	01/02/20	IN522093	01-12.B805	Raw Sewage Bldg Door	5481.00	5481.00	101960					
SUBURBAN DRIVELINE INC.	S000860	01/02/20	00059559	01-12.C225	Vehic 317/313 Safety Test	84.50	84.50	062159					
TERRACE SUPPLY COMPANY	T000250	12/31/19	01007121	01-12.B116	Cylinder Rental	52.70	52.70	101961					
TRI-K, INC.	T000535	12/20/19	111470	01-12.B103	Deoderant-Odor Control	579.00	579.00	101962					
UNDERCUTTERS	U000190	12/30/19	Tree Service	01-12.B503	WWTC Bio-Filter Stump Grd	150.00	150.00	062160					
UNITED PARCEL SERVICE	U000300	01/11/20	3Y0091020	01-14.B115	SS Part Repair Shipping	22.60	22.60	062161					
UNO CONSTRUCTION CO., INC.	U000450	12/13/19	1088	01-15.B828	Wroble LS Switch Gear Prj	6500.00	6500.00	101963					
UNO CONSTRUCTION CO., INC.	U000450	12/31/19	6	01-14.B910	BSSRAP Projects	37825.13	37825.13	101967					
VAL-MATIC VALVE & MFG	V000090	01/13/20	374641	01-15.B529	LS Air Relief Valves	963.58	963.58	101964					
VERIZON WIRELESS	V000135	01/01/20	542042956	01-12.B112	WWTC Tablet Service	118.05							
		01/01/20	542042956	01-14.B112	SS Tablet Service	87.48							
		01/01/20	542042956	01-15.B112	LS Tablet Service	36.01							
		12/28/19	785846626	01-11.B112	Admin Cell Service	416.35							
		12/28/19	785846626	01-12.B112	WWTC Cell Service	1917.16							
		12/28/19	785846626	01-14.B112	SS Cell Service	469.78							
		12/28/19	785846626	01-15.B112	LS Cell Service	272.54	3317.37	062162					
WAGNER COMMUNICATIONS, INC	W000070	01/01/20	200100344	01-11.B112	Answering Service	236.28	236.28	101965					
WATER PRODUCTS-AURORA	W000190	12/19/19	0293230	01-12.B103	WWTC Bio-Filter Parts	278.23	278.23	062163					
WESTFAX	W000350	12/31/19	1350553	01-11.B112	EFax Service	8.99	8.99	101966					
WEST SIDE TRACTOR SALES CO.	W000380	12/27/19	N88471	01-12.B501	Wheel Loader Parts	252.57							
		01/02/20	N88560	01-12.B501	Wheel Loader Parts	108.50	361.07	062164					
VILLAGE OF WESTMONT	W000450	01/06/20	716140	01-11.B121	Meter Readings	370.01	370.01	062165					
WIEDEL, PHILIPP, INDELICATO	W000551	12/04/19	900	01-11.B124	Legal Services	330.00							
		01/06/20	924	01-11.B124	Legal Services	255.00	585.00	062166					
					Total Payments:	241439.43	241439.43						
					ACH Payments Total:	186305.64	.00						
				Cł	neck Payments Total:	55133.79	241439.43						



====== VENDOR =====		D. 7	MIMDED	G / I	EVDENCE DECORTOR	BADEMOE	CHECK THE	GUDGY
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
AT&T	A000075	01/06/20	812676875319	01-11.B112	DSL Internet	88.99	88.99	101919
CHASE	в000050	12/19/19	SPR 12/15/19	01-00.2000	Fed Tax	4404.04		
		12/19/19	SPR 12/15/19	01-00.2002	Empl Soc Sec Tax	2549.43		
		12/19/19	SPR 12/15/19	01-17.E461	Emplr Soc Sec Tax	2549.43	9502.90	101897
CHASE	в000050	12/23/19	PR 12/14/19	01-00.2000	Fed Tax	8204.01		
		12/23/19	PR 12/14/19	01-00.2002	Empl Soc Sec Tax	5880.96		
		12/23/19	PR 12/14/19	01-17.E461	Emplr Soc Sec Tax	5880.95	19965.92	101902
CHASE	в000050	12/27/19	PR 12/31/19	01-17.E461	Addtl Tax Expense GC	154.45	154.45	101907
CHASE	в000050	01/06/20	PR 12/28/19	01-00.2000	Fed Tax	8419.07		
		01/06/20	PR 12/28/19	01-00.2002	Empl Soc Sec Tax	5964.75		
		01/06/20	PR 12/28/19	01-17.E461	Emplr Soc Sec Tax	5964.80	20348.62	101910
CHASE	B000050	01/06/20	SPR 12/31/19	01-00.2000	Fed Tax	4348.40		
		01/06/20	SPR 12/31/19	01-00.2002	Empl Soc Sec Tax	3095.98		
		01/06/20	SPR 12/31/19	01-17.E461	Emplr Soc Sec Tax	3095.97	10540.35	101914
D.G. SANIT DIST #XXXXXXXXX111	L7 D000400	01/22/20	Reimburse	01-00.1001	PR Acct Reimburse	151971.03	151971.03	101921
D.G. SANIT DIST #XXXXXXXXX111	L2 D000440	01/22/20	Reimburse	01-11.B117	Meetings & Conferences	335.00		
		01/22/20	Reimburse	01-12.B116	MSB Supplies	87.01		
		01/22/20	Reimburse	01-12.B117	Ops Training	90.00		
		01/22/20	Reimburse	01-12.B812	Folding Chairs	248.88		
		01/22/20	Reimburse	01-12.C225	Motor Oil	154.76		
		01/22/20	Reimburse	01-14.B910	BSSRAP Rodding Refunds	1113.96		
		01/22/20	Reimburse	01-14.C225	Motor Oil	143.45		
		01/22/20	Reimburse	01-17.E452	MM Notary	59.99	2233.05	101922
DUPAGE CREDIT UNION	D000650	12/17/19	SPR 12/15/19	01-00.2013	Empl Authorized W/Holding	800.00	800.00	101899
DUPAGE CREDIT UNION	D000650	12/20/19	PR 12/14/19	01-00.2013	Empl Authorized W/Holding	2114.31	2114.31	101904
DUPAGE CREDIT UNION	D000650	01/03/20	PR 12/28/19	01-00.2013	Empl Authorized W/Holding	2114.31	2114.31	101912
OUPAGE CREDIT UNION	D000650	01/03/20	SPR 12/31/19	01-00.2013	Empl Authorized W/Holding	800.00	800.00	101916
HAINES & COMPANY, INC.	н000050	01/08/20	457276	01-11.B116	Replace Check 62012	703.00	703.00	062115
HEALTH CARE SERVICE CORP.	Н000190	12/27/19	165585	01-17.E455	Health Insurance	40663.26	40663.26	101908
UDSON ENERGY SERVICES, LLC	н000495	12/18/19	4000003486	01-11.B100	Admin Elec - With Adjust	280.92		
		12/18/19	4000003486	01-12.B100	WWTC Elec - With Adjust	13844.78	14125.70	062111
HUDSON ENERGY SERVICES, LLC	н000495	12/19/19	Various	01-15.B100	LS Electricity	2946.07	2946.07	062112
LLINOIS DEPARTMENT OF REVEN	JE I000240	12/19/19	SPR 12/15/19	01-00.2001	State Tax	1805.94	1805.94	101898
LLINOIS DEPARTMENT OF REVENU	JE I000240		PR 12/14/19	01-00.2001	State Tax	3548.90	3548.90	101903
LLINOIS DEPARTMENT OF REVEN	JE I000240	01/06/20	PR 12/28/19	01-00.2001	State Tax	3598.97	3598.97	101911
LLINOIS DEPARTMENT OF REVEN	JE I000240	01/06/20		01-00.2001	State Tax	1803.15	1803.15	101915
ILLINOIS MUNICIPAL	1000300	01/09/20	Pension	01-00.2003	Empl Pension Deposit	10598.18		
		01/09/20	Pension	01-00.2014	Empl Vol Pension Deposit	8690.14		
		01/09/20	Pension		Emplr Pension Deposit	21031.49	40319.81	101909
INVOICE CLOUD	1000750	01/10/20	607-2019-12		Biller Portal Fees	633.90	633.90	101920
MIDAMERICA ADMIN HRA ACCOUNT	M000557		HRA Fund		HRA Account Funding	700.00	700.00	101906
MITCHELL AND NINA RAINES	R000075		Reimburse		Back Up Remibursement	501.70	501.70	062110
TRANSAMERICA RETIREMENT	T000415		SPR 12/15/19		Def Comp IPPFA	1050.00	332.70	302110
TARGETHER CONTROL TO THE PROPERTY	1000413		SPR 12/15/19		Def Comp Loan Repay IPPFA	77.06	1127.06	101900
TRANSAMERICA RETIREMENT	T000415		PR 12/14/19		Def Comp Roth IRA IPPFA	40.00	112/.00	101500
THERESELLED ACTIVEDING	1000413	12/20/19	- N 12/17/17	01 00.202/	DOL COMP NOCH INA IFFFA	40.00		



===== VENDOR =====		===== IN	NOICE =====					
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
TRANSAMERICA RETIREMENT	T000415	01/03/20	PR 12/28/19	01-00.2027	Def Comp Roth IPPFA	40.00		
		01/03/20	PR 12/28/19	01-00.2028	Def Comp Loan Repay IPPFA	136.85	176.85	101913
TRANSAMERICA RETIREMENT	T000415	01/03/20	SPR 12/31/19	01-00.2026	Def Comp IPPFA	1050.00		
		01/03/20	SPR 12/31/19	01-00.2028	Def Comp Loan Repay IPPFA	77.06	1127.06	101917
US DEPARTMENT OF	U000050	12/27/19	PR 12/28/19	01-00.2012	Wage Deduction	254.66	254.66	062113
US DEPARTMENT OF	U000050	01/17/20	PR 01/11/20	01-00.2012	Wage Deduction	254.66	254.66	062116
VANTAGEPOINT TRANSFER AGENTS	V000120	12/17/19	SPR 12/15/19	01-00.2020	Def Comp ICMARC	300.00	300.00	101901
VANTAGEPOINT TRANSFER AGENTS	V000120	01/03/20	SPR 12/31/19	01-00.2020	Def Comp ICMARC	300.00	300.00	101918
						=======	=======	
					Total Payments:	335701.47	335701.47	
					ACH Payments Total:	316915.68	.00	
				Cl	neck Payments Total:	18785.79	335701.47	
DATE								
REVIEWED								
TRUSTEE APP	ROVAL							
				PRESIDENT				
				CLERK				



# ACCOUNTS PAYABLE GENERAL LEDGER RECAP FOR 01/21/20

G/L NUMBER	COST ACCTG DESCRIPTION	DEBIT	CREDIT
01-00.1000	CASH		577140.90-
01-00.1001	CASH - PAYROLL ACCOUNT	151971.03	
01-00.2000	FEDERAL TAX WITHHELD	25375.52	
01-00.2001	STATE TAX WITHHELD	10756.96	
01-00.2002	SOCIAL SECURITY WITHHELD	17491.12	
01-00.2003	IMRF WITHHELD	10598.18	
01-00.2005	CLEARING	374.64	
01-00.2007	REBATES PAYABLE	2033.71	
01-00.2012	WAGE DEDUCTION ORDER	509.32	
01-00.2013	CREDIT UNION WITHHELD	5828.62	
01-00.2014	VOLUNTARY ADDITIONAL PENSION CONTRIBUTION	8690.14	
01-00.2017	VOLUNTARY GROUP LIFE	304.00	
01-00.2020	DEFERRED COMPENSATION WITHHELD - ICMARC	600.00	
01-00.2026	DEFERRED COMPENSATION WITHHELD - IPPFA	2100.00	
01-00.2027	DEFERRED COMPENSATION WITHHELD - IPPFA ROTH	80.00	
01-00.2028	DC PLAN LOAN REPAYMENT WITHHELD	427.82	
01-11.B100	ELECTRICITY	442.08	
01-11.B101	NATURAL GAS	176.40	
01-11.B102	WATER, GARBAGE AND OTHER UTILITIES	67.69	
01-11.B110	BANK CHARGES	30.10	
01-11.B112	COMMUNICATION	1461.52	
01-11.B115	EQUIPMENT/EQUIPMENT REPAIR	2075.74	
01-11.B116	SUPPLIES	1127.04	
01-11.B117	EMPLOYEE/DUTY COSTS	1124.87	
01-11.B118	BUILDING AND GROUNDS	814.77	
01-11.B119	POSTAGE	15.51	
01-11.B121	USER BILLING MATERIALS	6076.68	
01-11.B124	CONTRACT SERVICES	1555.10	
01-11.C222	GAS/FUEL	109.23	
01-11.C225	OPERATION/REPAIR	87.96	
01-12.B100	ELECTRICITY	18882.94	
01-12.B101	NATURAL GAS	1395.55	
01-12.B102	WATER, GARBAGE AND OTHER UTILITIES	1362.83	
01-12.B103	ODOR CONTROL	25987.59	
01-12.B104	FUEL - GENERATORS	195.00	
01-12.B112	COMMUNICATION	2332.53	
01-12.B113	EMERGENCY/SAFETY EQUIPMENT	793.39	
01-12.B116	SUPPLIES	970.80	
01-12.B117	EMPLOYEE/DUTY COSTS	2059.24	
01-12.B402	CHEMICALS - SLUDGE DEWATERING	4285.09	
01-12.B501	EQPT/EQPT REPAIR - BIOSOLIDS AGING & DISPOSAL	1497.34	
01-12.B502	EQPT/EQPT REPAIR - DISINFECTION	506.61	
01-12.B503	EQPT/EQPT REPAIR - EXCESS FLOW	1335.62	
01-12.B504	EQPT/EQPT REPAIR - GRIT REMOVAL	17436.27	
01-12.B505	EQPT/EQPT REPAIR - INFLUENT PUMPING	26.30	
01-12.B506	EQPT/EQPT REPAIR - PRIMARY TREATMENT	888.22	



# ACCOUNTS PAYABLE GENERAL LEDGER RECAP FOR 01/21/20

G/L NUMBER	COST ACCTG DESCRIPTION	DEBIT	CREDIT
01-12.B507	EQPT/EQPT REPAIR - SECONDARY TREATMENT	52844.61	
01-12.B508	EQPT/EQPT REPAIR - SLUDGE CONCENTRATION	1637.50	
01-12.B509	EQPT/EQPT REPAIR - SLUDGE DEWATERING	80.02	
01-12.B510	EQPT/EQPT REPAIR - SLUDGE DIGESTION	691.47	
01-12.B512	EQPT/EQPT REPAIR - WWTC GENERAL	1844.88	
01-12.B513	EQPT/EQPT REPAIR - WWTC UTILITIES	2357.48	
01-12.B802	BLDG AND GROUNDS - DISINFECTION	11693.91	
01-12.B805	BLDG AND GROUNDS - INFLUENT PUMPING	5518.67	
01-12.B812	BLDG AND GROUNDS - WWTC GENERAL	3272.00	
01-12.C222	GAS/FUEL	749.30	
01-12.C225	OPERATION/REPAIR	254.26	
01-13.B115	EQUIPMENT/EQUIPMENT REPAIR	1460.00	
01-13.B116	SUPPLIES	466.62	
01-13.B117	EMPLOYEE/DUTY COSTS	350.00	
01-13.B123	OUTSIDE LAB SERVICES	2464.40	
01-13.C222	GAS/FUEL	29.50	
01-14.B112	COMMUNICATION	636.44	
01-14.B113	EMERGENCY/SAFETY EQUIPMENT	197.91	
01-14.B115	EQUIPMENT/EQUIPMENT REPAIR	2903.49	
01-14.B116	SUPPLIES	56.67	
01-14.B117	EMPLOYEE/DUTY COSTS	799.14	
01-14.B127	JULIE SYSTEM	4185.36	
01-14.B129	REIMBURSEMENT PROGRAM/PUBLIC SEWER BLOCKAGES	501.70	
01-14.B901	SEWER SYSTEM REPAIRS - I/I PROGRAM	132.00	
01-14.B902	SEWER SYSTEM REPAIRS - REPLACEMENT	2172.02	
01-14.B910	SEWER SYSTEM REPAIRS - BSSRAP PROGRAM	40847.34	
01-14.B913	SEWER SYSTEM REPAIRS - BSSRAP-REPAIR/REPL/REH	322.09	
01-14.C222	GAS/FUEL	744.38	
01-14.C225	OPERATION/REPAIR	456.50	
01-15.B100	ELECTRICITY	10305.70	
01-15.B112	COMMUNICATION	362.50	
01-15.B116	SUPPLIES	26.82	
01-15.B520	EQPT/EQPT REPAIR - BUTTERFIELD	134.99	
01-15.B523	EQPT/EQPT REPAIR - EARLSTON	857.81	
01-15.B529	EQPT/EQPT REPAIR - LIFT STATIONS GENERAL	2034.78	
01-15.B828	BLDG AND GROUNDS - WROBLE	6500.00	
01-17.E452	LIABILITY/PROPERTY	1557.13	
01-17.E455	EMPLOYEE GROUP HEALTH	44753.35	
01-17.E460	IMRF	21031.49	
01-17.E461	SOCIAL SECURITY	17645.60	
		577140.90	577140.90-

Vendor	Invoice Date	Amount	Coding	Coding Description	Purchase Location	Emp.	Procurement	Project Name (If applicable)	Item Description
Grainger	12/09/19	\$478.17	01-12.B502	EQPT/EQPT REPAIR - DISINFECTION	Delivered	JPB		Excess Flow Hypo Feed Upgrade	(3) 24 VDC Power Supplies
Grainger	12/10/19	\$191.16	01-12.B510	EQPT/EQPT REPAIR - SLUDGE DIGESTION	Delivered	RF		Sludge Recirculation Pump Controls	(3) On-Delay Control Timer Relays
Grainger	12/11/19	\$28.44	01-12.B502	EQPT/EQPT REPAIR - DISINFECTION	Delivered	NW		Hypo & Bisulfite Storage Tanks Inspections	Transfer Pump Repair Parts
Grainger	12/11/19	\$224.11	01-12.B512	EQPT/EQPT REPAIR - WWTC GENERAL	Delivered	RF		Shop Tool - Replacing 30 Plus Year Old Meter	Laser Tachometer
Grainger	12/17/19	\$70.46	01-12.B507	EQPT/EQPT REPAIR - SECONDARY TREATMENT	Delivered	MM		Aeration Tanks 1-4 supplies	Buckets and sample pitchers
Grainger	12/17/19	\$357.92	01-11.B118	ADMIN BUILDING & GROUNDS	Delivered	JG		Admin Copy Room	Rectangle Folding Table for Laminating Machine & Typewritter
Grainger	12/18/19	\$56.70	01-12.B116	WWTC SUPPLIES	In-Store	MM		Nitrile Gloves	Nitrile Gloves for ST
Grainger	12/19/19	\$423.59	01-12.B512	EQPT/EQPT REPAIR - WWTC GENERAL	Delivered	JPB		Maintenance Repair Supplies	Hardware & Plumbing Supplies
Grainger	12/20/19	\$770.00	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	Delivered	CP		Lab - LED Lighting Upgrade	(140) 48" LED Retrofit Bulbs
Grainger	12/27/19	\$276.57	01-12.B512	EQPT/EQPT REPAIR - WWTC GENERAL	Delivered	JPB		Maintenance Repair Supplies	Hardware & Plumbing Supplies
Grainger	12/30/19	\$156.72	01-12.B113	WWTC EMERGENCY/SAFETY EQUIPMENT	Delivered	ST		Safety	White Hooded Coveralls
Grainger	12/30/19	\$125.27	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	Delivered	MR		Vent Fan MSB	Exhaust Fan Motor
Grainger	12/30/19	-\$125.27	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	Delivered	MR		Vent Fan MSB	Exhaust Fan Motor (Returned)
Grainger	01/03/20	\$52.12	01-12.B103	ODOR CONTROL	Delivered	NW		WWTC Bio-Filter	Heater Elements for the Blower Motor Starter
Grainger	01/03/20	\$15.56	01-12.B507	EQPT/EQPT REPAIR - SECONDARY TREATMENT	Delivered	AC		Aeration Tanks 1-4 Restore Operation	(3) Drill Bits
Grainger	01/06/20	-\$560.00	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	CP		WWTC Lighting	ComEd Bild Utility Incentive
Grainger	01/08/20	\$56.70	01-12.B116	WWTC SUPPLIES	Delivered	MM		Latex Gloves	Ops latex Gloves
Grainger	01/09/20	\$138.42	01-12.B512	EQPT/EQPT REPAIR - WWTC GENERAL	Delivered	JPB		Maintenance Repair Supplies	Hardware & Plumbing Supplies
Grainger	01/13/20	\$155.23	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	JM		Lab - LED Lighting Upgrade	LED Bulbs & Bulb Recycling Kits
Grainger	01/15/20	\$33.02	01-12.B507	EQPT/EQPT REPAIR - SECONDARY TREATMENT	In-Store	NW		Aeration Tanks 1-4 Restore Operation	3/4" Drill Bit
Grainger	01/15/20	\$77.71	01-12.B116	WWTC SUPPLIES	Delivered	AC		Maintenance Repair Supplies	Cut Off Wheels / Flap Discs
Home Depot	01/08/20	\$131.22	01-12.B510	EQPT/EQPT REPAIR - SLUDGE DIGESTION	In-Store	ST		Recirc pump flow meters	Plumbing fittins for sludge pump protective water rebuilds
Home Depot	12/18/19	\$284.52	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	CP		Net Zero Energy Public Education Center	Construction Materials, Lumber, Drywall, Etc.
Home Depot	12/18/19	\$16.78	01-14.B116	SEWER SYSTEM SUPPLIES	In-Store	AH			Thread Sealant
Home Depot	01/07/20	\$88.68	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	СР		Net Zero Energy Public Education Center	Paint & Supplies
Home Depot	01/06/20	\$21.11	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	СР		Net Zero Energy Public Education Center	Painting Supplies
Home Depot	12/17/19	\$85.87	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	СР		Net Zero Energy Public Education Center	Window Tint Film
Home Depot	12/27/19	\$5.18	01-12.B501	EQPT/EQPT REPAIR - BIOSOLIDS AGING & DISPOSAL	In-Store	JM		2015 Wheel Loader #332 Repair	Vinyl Tube
Home Depot	01/06/20	\$23.91	01-15.B829	BUILDING/GROUNDS - LIFT STATIONS GENERAL	In-Store	AC		Tool Replacement Lift Station Truck	3/4" - 15/16" - 1-1/16" Combination Wrenches
Home Depot	01/15/20	\$26.82	01-15.B116	LIFT STATION SUPPLIES	In-Store	NW		Lift Station Signage	Magnets
Home Depot	12/16/19	\$251.86	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	CP		Net Zero Energy Public Education Center	Ceiling & Wall Paint
Home Depot	12/26/19	\$22.75	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	СР		Net Zero Energy Public Education Center	Drywall Compound & Supplies
Home Depot	01/15/20	\$15.77	01-12.B507	EQPT/EQPT REPAIR - SECONDARY TREATMENT	In-Store	RF		Aeration Tanks 8&9 Gate Actuators	Electrical Supplies
Home Depot	01/14/20	\$0.64	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	СР		Net Zero Energy Public Education Center	Paint & Supplies (actual invoice was \$42.32 but we had rebate gift cards that were used to offset the cost)
Home Depot	01/03/20	\$34.97	01-14.B115	SEWER SYSTEM EQUIPMENT/EQUIPMENT REPAIR	In-Store	AH		BSSRAP	Tool set for van #310
Home Depot	01/03/20	\$15.96	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	FF		MSB Fire Sprinkler System Flush Line Replacement	3/4" Pex Tubing & Fitting
Home Depot	01/02/20	\$29.88	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	СР		Net Zero Energy Public Education Center	Sheet Metal & Caulk
Home Depot	01/10/20	\$50.06	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	In-Store	NW		Ice Melt for new concrete at Blower Building	Calcium Chloride Pellets (De-icer) & Bucket
Home Depot	12/10/19	\$37.67	01-12.B805	BLDG & GROUNDS - INFLUENT PUMPING	In-Store	CP		Raw Sewage Building Door Replacement	Painting Supplies

Date:	1/17/2020	Petty Cash Checking Reimbursement	D-440

Due Date: 1/21/2020 Invoice #: Reimburse

Date	Purchased From	Description	Code	Amount	Ck No.
12/13/19	Costco	Motor Oil	12.C225	154.76	3619
12/19/19	Costco	Folding Chairs	12.B812	248.88	3620
		MSB Supplies	12.B116	87.01	3620
01/03/20	IAWA	Tech Meeting WCC, NJM, ARU	11.B117	180.00	3621
01/06/20	IWEA	ARU Conference & Dinner	11.B117	155.00	3623
01/07/20	Costco	Motor Oil	14.C225	143.45	3624
01/13/20	Amy Sejnost	BSSRAP Rodding Refund	14.B910	371.32	3625
01/09/20	Notary Express	Megan MacQuilken Notary	17.E452	59.99	3626
01/13/20	Andrzej Timoszuk	BSSRAP Rodding Refund	14.B910	371.32	3627
01/14/20	Edward Leinweber	BSSRAP Rodding Refund	14.B910	371.32	3628
01/14/20	CSWEA	Operator Training BM, SA, EB	12.B117	90.00	3629

Total Receipts/Reimbursement 2233.05

# Expense by code

•	-
11.B117	335.00
12.B116	87.01
12.B812	248.88
12.B117	90.00
12.C225	154.76
14.B910	1113.96
14.C225	143.45
17.E452	59.99
	2233 05

2233.05

P - 350

Due Date:

Invoice #: Cash Box

1/21/2020

Date **Purchased From Reimbursed To** Description Amount Code 1/10/2020 USPS Postage Due 11.B119 4.27 1/14/2020 **Dunkin Donuts** Refreshments for safety committee meeting 11.B117 5.87 1/14/2020 USPS Postage Due 11.B119 0.61 12/18/2020 Busy Bee Bakery Refreshments for training class 12.B117 32.06 12/18/2020 USPS Postage Due 11.B119 2.44 12/19/2020 Portillos 11.B117 69.01 Supervisor Lunch 12/20/2020 USPS Postage Due 11.B119 5.14 12/23/2020 USPS 11.B119 1.22 Postage Due 12/30/2020 USPS Postage Due 11.B119 1.83 **Total Receipts** 122.45

#### Expense by code

74.88
15.51
32.06

122.45

# DOWNERS GROVE SANITARY DISTRICT 2019 WWTC PERFORMANCE REPORT

# DOWNERS GROVE SANITARY DISTRICT 2019 WWTC PERFORMANCE REPORT

TO: Board of Trustees

FROM: Nick Menninga

General Manager

DATE: January 10, 2020

## **SUMMARY OF 2019 OPERATIONS**

Total Flow to WWTC: 4,905,171,400 gallons

Average Daily Flow: 13.44 MGD

Total Complete Treatment Flow: 4,597,812,400 gallons Average Daily Complete Treatment Flow: 12.60 MGD

District Billed Flow: 1,897,406,061 gallons

Ratio of Billed Flow to Total WWTC Flow: 38.7%

Ratio of Billed Flow to Total Complete Treatment Flow: 41.3%

Precipitation Total for 2019: 56.22"

Electrical Consumption: 476,040 KW Hrs. Average Daily Electric Usage: 1,304 KW Hrs.

Complete Treatment Flow Characteristics – Average Daily Values

Influent Concentrations: BOD 169 mg/L

TSS 162 mg/L NH3-N 16.4 mg/L

Influent Loadings: BOD 16,676 lbs. /day

TSS 15,427 lbs. /day NH3-N 1,506 lbs. /day

Effluent Concentrations: CBOD 1.4 mg/L

TSS 1.0 mg/L NH3-N 0.3 mg/L

Effluent Loadings: CBOD 163 lbs. /day

TSS 124 lbs. /day NH3-N 33 lbs. /day

Biosolids Production, after digestion: 15,137,269 gallons

2,577,420 lbs. dry solids

1,289 dry tons

#### WASTEWATER TREATMENT CENTER FLOWS

## TABLE 1

The total flow to the treatment center in 2019 was 4,905,171,400 gallons, with 93.7% of this total, or 4,597,812,400 gallons, receiving tertiary treatment. The total flow for the year equates to an average daily flow of 13.44 MGD as compared to an average tertiary flow of 12.60 MGD. Excess flow treatment was in operation for 511 hours during the year, or 5.8% of the time, and accounted for 307,359,000 gallons.

Comparison of 2019 flows to past 44 years:

#### TABLE 2

- Annual rainfall was the highest historic total, 56.22 inches, resulting in the highest historic total flow volume of 4,905.2 MG. The 44-year reporting period has an annual average of 35.8 inches of rainfall.
- The tertiary, or complete treatment volume of 4,597.8 MG for 2019 was the highest flow year at the WWTC when viewed over the 44-year period.
- The excess flow volume of 307.4 MG for 2019 was the 5<sup>th</sup> highest total over the 44 year period.
- These numbers suggest that rainfall fell in smaller more frequent events compared to historic distributions, since a high proportion of I/I was given complete treatment.

#### TABLE 3

The discharge to St. Joseph Creek, Outfall No. 002, was in use for 440 hours in 2019, and accounted for 341 MG. The operation hours represent 5.0% of the year. The St. Joseph discharge for 2019 represented 7.0% of the total flow. St. Joseph Creek Outfall No. 002 is used when the combined tertiary and excess flows exceed the capacity of the outfall 001 pipe, rated for 30.0 MGD. Outfall No. C01 discharge can be used when flows exceed the tertiary plant capacity and Intermediate Clarifier No. 1 is temporarily converted from a tertiary treatment unit to an excess flow treatment unit. This outfall was in use for 51 hours and accounted for 24 MG in 2019.

Outfall 003 can be used when peak flows exceed the tertiary plant capacity and Intermediate Clarifiers Nos. 2 & 3 are temporarily converted from tertiary treatment to excess flow treatment units. This outfall was in use for 7 hours and accounted for 2 MG in 2019.

#### TABLE 4

The current plant design of 11.0 MGD for tertiary treatment was exceeded on 182 days, or 50% of the days, during 2019.

#### WWTC CAPACITY (TABLE 5)

The Illinois EPA determines remaining capacity at a treatment facility by reviewing the past twelve months of average influent flow data at the facility. The three lowest flow months for the period plus outstanding Illinois EPA permits for new development issued to the District over the past two years determines the remaining hydraulic capacity. Table 5 indicates the remaining capacity at the WWTC during the course of the past six years. As indicated, the WWTC is currently at 88% capacity in terms of remaining hydraulic capacity. This is based on an average flow of 9.7 MGD, which is the average of the three lowest flow months during 2019. Remaining capacity, based on organic loading, is also indicated in Table 5. The WWTC organic loading is currently in the range of 91% to 118% of capacity, depending on the parameter. Organic loading can be used by IEPA as an indicator of reserve capacity if hydraulic limits are approached, or operational difficulties stem from high organic loading. Elevated BOD and TSS influent loads are attributed primarily to higher than historic recycle loads.

# TREATMENT PROVIDED (TABLES 6, 7 and 8)

The yearly average effluent results in 2019 were well below the NPDES Permit requirements. The effluent CBOD concentration averaged 1.4 mg/l, TSS was at 1.0 mg/l, and ammonia-nitrogen was 0.30 mg/l.

Over the ten year period, as indicated in Table 6, the yearly averages have ranged from 1.0 to 1.6 mg/L for CBOD, 0.5 to 1.6 mg/L for TSS, and 0.1 to 0.6 mg/L for ammonia nitrogen. The influent pollutant concentrations for TSS, BOD, NH3-N decreased in 2019 from 2018 values, due in large part to the heavy precipitation diluting the influent.

Table 7 provides the monthly process performance and removal values for 2019. A tenyear history indicating yearly process performance and removal values is presented in Table 8.

#### NPDES PERMIT COMPLIANCE

The WWTC operated with six permit excursions in 2019. Fecal Coliform and TSS concentration and loading excursions were due to heavy flows from a large rainfall event in late April/early May. There was also one Fecal Coliform excursion due to a large rainfall event in early July. Improvements in hypochlorite dosing instrumentation and control were implemented to improve treatment performance.

#### SLUDGE QUANTITIES (TABLES 9 and 10)

Total raw sludge pumping to the digestion processes is shown in Table 9. The total of primary sludge, waste activated sludge and hauled grease waste was 25,226,516 gallons for 2019. This was slightly higher than the value from 2018. Digester supernatant (clear water decanted from the process) was lower than the value from 2018 but close to the average prior to 2016. When too much supernatant is removed, it can carry significant solids from the digesters to the head of the plant. This can increase the influent plant loads, as well as the primary and waste activated sludge quantities, effectively recirculating digester contents through the liquid treatment process. Efforts to control supernatant volumes in 2019 remained consistent with strategies used in 2018.

Sludge production volume as well as dry tonnage for 2019 was the highest yet recorded. High strength (hauled grease) waste loading is continuing to impact the amount of solids discharging from digestion.

For 2019, total digested sludge pumping was 15,137,269 gallons. Of the total, 83.2% or 12,591,073 gallons, was dewatered at the belt filter press. 539,572 gallons, or 3.6% of the total, were placed in the sludge lagoons seeded with reeds. The remaining 13.2% of the sludge pumping for 2019, or 2,006,624 gallons, was dewatered at the drying beds. A ten year history of sludge production is included in Table 10.

## **BIOSOLIDS DISPOSAL (TABLE 11 & 12)**

Class A biosolids disposal through the public distribution program for 2019 totaled 1,644 cubic yards. This was a decrease from the 2018 annual total of 3,072. This was due to the historic rainfall for 2019 and very limited windows to dry material on the pad. Deliveries for 2019 accounted for 81% of the total, or 1,339 yards. The pickup station accounted for 11%, or 176 yards. District use at the plant was nominal at only 9 yards. Contractor pickup was 7% of the total, or 120 yards.

Significant contract hauling of Class B material was conducted because of the limited ability to produce Class A material. 245 cubic yards of material were removed in March, 1,855 cubic yards of material were removed in April, 1,715 cubic yards were removed in July and 1,015 cubic yards were removed in November by a hauling contractor, and hauled to farm fields for Class B disposal in order to make space available for belt press cake storage. This represents 619 dry tons of solids.

Digested and dewatered sludge continues to be less dense than in past years. This effectively reduces the storage time available for aging, requiring Class B disposal in order to sustain adequate aging for the bulk of biosolids production as a Class A product. The total dry tons of biosolids disposal shown in Table 12 is significantly less than previous years even though production in Table 10 shows that the total biosolids needing disposal is at a ten year high. The historic rainfall also limited the window for Class B land application. The biosolids which could not be land applied are being stored at the WWTC. A special land application permit has been obtained from IEPA for winter land application, and some Class B land application is being scheduled early in 2020.

#### <u>UTILITIES (TABLES 13 and 14)</u>

Electrical consumption from ComEd for 2019 was 37% higher than consumption in 2018. Repeating engine failures on the Tech 3 CHP unit prevented the plant from running net-zero for the year. The total yearly consumption from ComEd was at 476,040 kW-hours, for an average daily use of 1,304 kW-hours.

Natural gas consumption for 2019 was at 885,100 cubic feet, a moderate increase from 2018.

City water consumption for the year was at 227,990 gallons. The reduction in water use was likely due to some replacement of aging water distribution piping in the plant. Onsite hypochlorite production is expected to resume in 2020, with a significant increase in city water consumption anticipated.

#### DIGESTER GAS UTILIZATION (TABLE 15)

Total digester gas production for 2019 was at 82,452,685 cubic feet, for a daily average of 225,898 cubic feet. Gas was utilized in the CHP facility, where a total of 57,564,552 cubic feet of gas was used in 2019. Wasting of digester gas (gas flared) totaled 15, 112,605 cubic feet in 2019. The digester heat exchangers used 1,775,449 cubic feet of gas. Gas was flared when the supply exceeded the demand, and when needed for equipment outages.

Gas production generally matched or exceeded CHP capacity in 2019.

## CHEMICAL USAGE (TABLES 16 and 17)

Sodium hypochlorite and sodium bisulfite were utilized for the year for disinfection. In 2019, hypochlorite was used at 10.5 pounds per million gallons of tertiary flow, a slight increase over 2018.

The amount reported for excess flow includes the totals used to treat return activated sludge for filamentous control.

Hypochlorite used in 2019 was from delivered bulk hypochlorite. We received 72,500 gallons of bulk hypochlorite to meet our disinfection needs for the year. The cost was offset by no need for bulk solar salt, less city water use, and less electricity use in the plant.

Sodium bisulfite was used at a rate of 6.5 pounds per million gallons, a comparable value to those shown in the ten year history in Table 17.

Polymer use in 2019 was at 36,000 pounds for 2,577,421 pounds of sludge on a dry solids basis, and equated to 72 pounds of dry solids per pound of polymer. Polymer and belt press performance were evaluated in 2019 by the belt press vendor to try to improve performance. Better digester feed sludge thickening in the future is expected to improve performance.

#### NUTRIENTS (TABLE 18 & 19)

The NPDES permit requires routine monitoring of influent and effluent total nitrogen and phosphorus concentrations. Table 18 summarizes that data for 2019, and applies the concentration data to the monthly flows to estimate loads.

53% removal of phosphorus and 53% removal of nitrogen occurred across the plant in 2019.

Table 19 compares annual averages since monitoring began in 2015.

#### **SUMMARY**

2019 rainfall was the highest yet recorded, nearly ten inches higher than the previously recorded maximum. Rainfall seriously impacted operations, by generating record volumes of flow into the plant, and adversely impacting biosolids disposal.

Billable flow as a proportion of total flow was approximately 40%, reflecting the higher proportion of I/I due to annual precipitation. The need for system I/I reduction continues.

Plant reserve capacity appears to be adequate. Dry weather low flows remain below the plant's hydraulic capacity, the primary method used to determine reserve capacity. Rainfall for the year did reduce the amount of reserve capacity available using IEPA's calculation technique, and should be monitored closely to ensure that capacity remains for future sewer connections. Influent pollutant loads from recycle streams remained high in 2019, and should remain an area of focus for plant operations staff.

Biosolids production was elevated at levels consistent with 2018 totals, notably higher than previously reported annual totals. Annual production for 2019 appears to be at levels that should be expected with continuing high-strength waste co-digestion at the plant. Higher volumetric production of dewatered sludge is limiting the production of Class A biosolids due to limited aging/storage space, requiring more Class B disposal than in previous years. Continuing rainfall in 2019 curtailed the use of the drying pad for final drying, and diluted the sludge cake in un-covered storage, contributing to the need for more Class B disposal.

The hypochlorite generation unit was not operated for the disinfection season. The cost of bulk delivered hypochlorite was competitive with the cost of operating the OSEC unit in 2019. The OSEC unit is scheduled to be operated during the 2020 disinfection season for better flexibility of operation.

Electricity consumption was consistent with 2018 totals. CHP equipment down-time again prevented the plant from running at net-zero energy for the year. Natural gas total use was around the previous five year average.

Hauled grease trap waste was accepted consistently throughout 2019, with the annual amount somewhat reduced from 2018 totals. Some high-strength waste was used as a

carbon source in the EBPR reactor tanks rather than being used for co-digestion, and one hauler discontinued operations early in 2019. Gas production was increased in comparison to 2018.

The Tech 3 CHP was returned to service in February after the 2018 engine failure. A similar failure occurred in early August, and the unit remains out of service, without an identifiable satisfactory repair option available. Alternative options are being investigated currently for a replacement CHP.

The plant operated with six permit excursions for 2019. Overall, effluent quality was excellent for parameters controlled in the NPDES permit. All six of the excursions were related to extreme weather conditions. Improvements were made to the hypochlorite dosing flow split to allow better monitoring and control of hypochlorite feed splitting to the different excess flow treatment trains. These improvements are expected to help control feeal coliform levels in excess flow treatment.

The Phosphorus Discharge Optimization Plan submitted in July, 2017 committed to continuing attempts to achieve biological phosphorus removal with existing facilities using Enhanced Biological Phosphorus Removal (EBPR). The use of aeration tanks 5-7 as anaerobic reactors to ferment a portion of return activated sludge was continued in 2019. From March to present, carbon addition using primary sludge and/or hauled high-strength sugary waste has been in operation to try to improve the performance of the biological phosphorus removal. Piping modifications have been made to increase the flow rate of RAS through the anaerobic reactors for 2020. Efforts have been made to resume the operation of aeration tanks 1-4 as forward-flow aeration tanks to improve the overall activated sludge performance with the EBPR configuration. These tanks are expected to be put in service early in 2020.

TABLE 1 WWTC FLOW 2019

MONTH	PRECIPITATION INCHES	TERTIARY FLOW RECEIVED (MG)	EXCESS FLOW RECEIVED (MG)	TOTAL FLOW RECEIVED (MG)	EXCESS FLOW HOURS ON	W EXCESS FLOV	% OF TOTAL
Jan	1.09	342.90	0.00	342.90	0.00	0.00	0.00
Feb	3.49	426.27	26.22	452.49	72.70	10.82	5.79
Mar	2.56	380.46	4.36	384.82	13.10	1.76	1.13
Apr	6.73	428.62	45.67	474.29	55.30	7.68	9.63
May	8.71	560.00	125.17	685.17	186.40	25.05	18.27
Jun	5.87	379.57	0.00	379.57	0.00	0.00	0.00
Jul	5.87	332.01	28.84	360.85	39.60	5.32	7.99
Aug	4.67	270.08	2.17	272.26	5.60	0.75	0.80
Sep	6.61	375.48	18.89	394.37	46.10	6.40	4.79
Oct	7.05	415.23	55.43	470.66	82.20	11.05	11.78
Nov	2.22	366.68	0.62	367.30	10.20	1.42	0.17
Dec	1.35	320.50	0.00	320.50	0.00	0.00	0.00
TOTALS	56.22	4,597.81	307.36	4,905.17	511.20	5.84	6.27

WWTC FLOW RATES FOR

2019

Daily average total treatment flow - 13.44

Daily average tertiary treatment flow - 12.60

Daily average excess treatment flow - 0.84

TABLE 2

VOLUME OF FLOW RECEIVED AND DURATION OF EXCESS FLOW OPERATION

January 1, 1976 to December 31, 2019

PERIOD	PRECIPITATION INCHES	TERTIARY FLOW RECEIVED MG	EXCESS FLOW RECEIVED MG	TOTAL FLOW RECEIVED MG	% EXCESS OF TOTAL FLOW	OPERATIONAL HRS. EXCESS FLOW	% EXCESS OF TOTAL HRS.
1/1/76 - 12/31/76	29.39	2960.9	174.9	3135.8	5.6	400.25	4.6
1/1/77 - 12/31/77	33.22	3334.6	104.5	3439.1	3.0	329.50	3.8
1/1/78 - 12/31/78	31.02	3419.0	228.3	3647.3	6.3	790.25	9.0
1/1/79 - 12/31/79	36.55	3518.2	820.8	4339.0	18.9	1791.25	20.4
1/1/80 - 12/31/80	33.0	3866.1	235.0	4101.1	5.7	697.50	7.9
1/1/81 - 12/31/81	23.02	3510.1	141.0	3651.1	3.9	347.00	4.0
1/1/82 - 12/31/82	33.1	3531.3	370.3	3901.6	9.5	826.87	9.4
1/1/83 - 12/31/83	34.34	3726.4	328.0	4054.4	8.1	613.50	7.0
1/1/84 - 12/31/84	25.38	3742.1	206.5	3948.6	5.2	456.75	5.2
1/1/85 - 12/31/85	31.97	3611.2	228.0	3839.2	5.9	440.26	5.0
1/1/86 - 12/31/86	25.60	3550.1	54.3	3604.4	1.5	162.83	1.9
1/1/87 - 12/31/87	33.47	3754.9	187.3	3942.2	4.8	374.38	4.3
1/1/88 - 12/31/88	22.56	3518.6	148.2	3666.8	4.0	446.07	5.1
1/1/89 - 12/31/89	25.19	3377.9	62.9	3440.8	1.8	110.58	1.3
1/1/90 - 12/31/90	43.12	4189.3	286.4	4475.7	6.4	413.33	4.7
1/1/91 - 12/31/91	39.06	4064.8	173.8	4238.6	4.1	257.79	2.9
1/1/92 - 12/31/92	30.34	3609.3	59.4	3668.7	1.6	97.20	1.1
1/1/93 - 12/31/93	40.83	4056.9	307.1	4364.0	7.0	416.11	4.8
1/1/94 - 12/31/94	33.03	3555.8	85.6	3641.4	2.4	160.68	1.8
1/1/95 - 12/31/95	29.87	3684.8	174.6	3859.4	4.5	275.70	3.1
1/1/96 - 12/31/96	37.50	3672.2	141.7	3813.9	3.7	193.40	2.2
1/1/97 - 12/31/97	34.18	3582.0	178.5	3760.5	4.7	239.40	2.7
1/1/98 - 12/31/98	45.05	4088.6	269.6	4358.2	6.2	479.80	5.5
1/1/99 - 12/31/99	31.38	3716.3	228.9	3945.2	5.8	347.33	4.0
1/1/00 - 12/31/00	33.98	3565.5	142.9	3708.4	3.9	242.66	2.8

1/1/01 - 12/31/01	35.51	4158.0	171.2	4329.2	4.0	287.46	3.3
1/1/02 - 12/31/02	29.23	3594.0	107.5	3701.5	2.9	200.71	2.3
1/1/03 - 12/31/03	32.63	3343.4	99.3	3442.7	2.9	211.13	2.4
1/1/04 - 12/31/04	37.31	3436.5	97.9	3534.4	2.8	184.64	2.1
1/1/05 - 12/31/05	27.09	3443.8	101.4	3545.2	2.9	162.25	1.9
1/1/06 - 12/31/06	47.08	4337.0	135.9	4472.8	2.7	315.57	3.5
1/1/07 - 12/31/07	36.06	3709.0	124.7	3833.7	3.2	228.15	2.6
1/1/08 - 12/31/08	47.45	4085.2	297.2	4382.4	6.8	438.42	5.0
1/1/09 - 12/31/09	45.10	4134.5	373.4	4507.9	8.3	571.55	6.5
1/1/10 - 12/31/10	40.11	3742.3	217.1	3959.4	5.5	339.68	3.9
1/1/11 - 12/31/11	43.13	4034.3	275.9	4310.2	6.4	638.12	7.3
1/1/12 - 12/31/12	26.16	3272.5	26.2	3298.8	0.8	69.88	0.8
1/1/13 - 12/31/13	47.18	3812.2	305.7	4117.9	7.4	392.85	4.5
1/1/14 - 12/31/14	39.04	4075.9	172.4	4248.3	4.1	409.63	4.7
1/1/15 - 12/31/15	38.93	3990.7	114.5	4105.1	2.8	233.84	2.7
1/1/16 - 12/31/16	42.28	4093.5	84.9	4178.3	2.0	204.37	2.3
1/1/17-12/31/17	42.23	3769.1	197.5	3967.1	5.0	283.50	2.4
1/1/18-12/31/18	44.57	4007.8	221.6	4229.4	5.2	311.40	3.5
1/1/19-12/31/19	56.22	4597.8	307.4	4905.2	6.3	511.20	5.8
				Total 44 Year Average			
1/1/76 to 12/31/19 Average Yearly Values	1573.46 35.76	164844.4 3746.5	8770.2 199.3	173614.9 3945.8	4.9	16904.74 384.20	4.4

TABLE 3
WET WEATHER DISCHARGES
2019

	CF	EPH CREEK REEK FALL 002	FROM INTERMEDIATE  NO. 1  OUTFALL C01		NO. 1 NOS. 2 &	
MONTH_	MG HOURS		MG HOURS		MG	HOURS
Jan	0.00	2.70	0.00	0.00	0.00	0.00
Feb	32.65	62.00	0.00	0.00	0.00	0.00
Mar	4.83	9.70	0.00	0.00	0.00	0.00
Apr	54.46	52.60	6.96	17.30	0.00	0.00
May	124.59	155.60	8.75	16.20	2.18	6.80
Jun	0.00	0.00	0.00	0.00	0.00	0.00
Jul	27.62	30.50	3.09	7.90	0.00	0.00
Aug	2.40	4.10	0.00	0.00	0.00	0.00
Sep	24.12	40.70	0.00	0.00	0.00	0.00
Oct	70.45	78.60	5.00	9.20	0.00	0.00
Nov	0.35	3.10	0.00	0.00	0.00	0.00
Dec	0.00	0.00	0.00	0.00	0.00	0.00
Total	341.47	439.60	23.80	50.60	2.18	6.80

TABLE 4
PERCENT DAYS AT OR ABOVE DESIGN FLOW OF 11.0 MGD

<u>2019</u> <u>10 YEARS</u>

MONTH	Days at 11.0 MGD or Above	Influent Avg. MGD for Month	% Days 11.0 MGD or Above	Total Rainfall (in.)	YEAR	% Days above 11.0 MGD	Rainfall (in.)
Jan	10	11.09	32.3	1.09	2010	35	40.11
Feb	22	15.33	78.6	3.49	2011	41	43.13
Mar	14	12.11	45.2	2.56	2012	16	26.16
Apr	22	14.11	73.3	6.73	2013	31	47.18
May	31	18.11	100.0	8.71	2014	38	39.04
Jun	19	12.34	63.3	5.87	2015	36	38.93
Jul	9	10.53	29.0	5.87	2016	35	42.28
Aug	5	8.34	16.1	4.67	2017	30	42.23
Sep	12	11.87	40.0	6.61	2018	35	44.57
Oct	17	12.98	54.8	7.05	2019	50	56.22
Nov	13	12.24	43.3	2.22			
Dec	8	10.32	25.8	1.35			
Total	182	12.45	50.1	56.22			

# Table 5 WWTC REMAINING CAPACITY

<u>2019</u>

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	2014	2015	2016	2017	2018	2019
Hydraulic Capacity						
Three Low Flow Months (MGD), Plant Influent	Oct 9.4 Nov 8.3 Dec 8.9	Feb 9.4 Aug 8.8 Oct 7.4	Sep 7.8 Oct 9.4 Nov 8.6	Sep 6.3 Aug 6.9 Dec 7.4	Jul 7.6 Aug 8.3 Sep 9.1	Aug 8.3 Dec 10.3 Jul 10.5
Average, 3 Low Flow Months (MGD)	8.9	8.5	8.6	6.9	8.3	9.7
Annual Average Flow (PE)	88,500	85,300	86,000	69,000	83,000	97,000
IEPA Permitted Flow - last 2 years (PE)	179	425	874	1,195	654	99
Total Load (PE)	88,679	85,725	86,874	70,195	83,654	97,099
WWTC Hydraulic Capacity (PE)	110,000	110,000	110,000	110,000	110,000	110,000
Remaining Hydraulic Capacity (PE)	21,321	24,275	23,126	39,805	26,346	12,901
% of Hydraulic Capacity Utilized	80.62%	77.93%	78.98%	63.81%	76.05%	88.27%
Organic Capacity						
Influent Loadings (annual avg. lbs/day) BOD TSS NH3-N	10,937 13,459 1,337	11,630 12,028 1,218	17,056 15,857 1,317	17,380 15,498 1,505	20,064 17,290 1,524	16,676 15,427 1,506
WWTC Organic Capacity (lbs/day) BOD TSS NH3-N	14,120 15,920 1,651	14,120 15,920 1,651	14,120 15,920 1,651	14,120 15,920 1,651	14,120 15,920 1,651	14,120 15,920 1,651
% of WWTC Organic Capacity Utilized BOD TSS NH3-N	77.46% 84.54% 80.98%	82.37% 75.55% 73.77%	120.79% 99.60% 79.75%	123.09% 97.35% 91.16%	142.10% 108.61% 92.31%	118.10% 96.90% 91.22%

Table 6
DAILY AVERAGE CONCENTRATIONS
2010-2019

\/=.5	EFFLUENT DAILY AVG.		LUENT (M			EFFLUENT (MG/L	
YEAR	FLOW - MGD	BOD	TSS	NH3-N	CBOD	TSS	NH3-N
2010	10.2	192	245	17.3	1.2	0.7	0.1
2011	11.1	167	217	15.1	1.6	1.6	0.4
2012	8.9	147	167	19.6	1.6	0.5	0.1
2013	10.4	119	132	16.1	1.0	0.5	0.1
2014	11.2	127	154	16.0	1.0	0.7	0.3
2015	10.9	130	140	14.7	1.3	0.7	0.2
2016	11.2	189	183	16.1	1.1	0.6	0.3
2017	10.3	213	199	20.3	1.2	0.9	0.4
2018	11.0	230	210	18.7	1.5	1.2	0.6
2019	12.6	169	162	16.4	1.4	1.0	0.3
AVG.	10.8	168	181	17.0	1.3	0.8	0.3

# DAILY AVERAGE LOADINGS 2010-2019

YEAR	EFFLUENT DAILY AVG. FLOW - MGD	INFLU BOD	JENT (LBS/ TSS	DAY) NH3-N	EFFLU CBOD	ENT (LBS	S/DAY) NH3-N
2010	10.2	15,629	20,144	1,416	98	64	11
2011	11.1	15,119	19,648	1,295	167	189	42
2012	8.9	10,425	11,895	1,386	119	38	11
2013	10.4	9,699	10,865	1,279	93	55	11
2014	11.2	10,937	13,459	1,337	96	69	26
2015	10.9	11,630	12,028	1,218	115	67	23
2016	11.2	17,056	15,857	1,317	103	58	25
2017	10.3	17,380	15,498	1,505	121	111	40
2018	11.0	20,038	17,312	1,528	169	177	62
2019	12.6	16,676	15,427	1,506	163	124	33
AVG.	10.8	14,459	15,213	1,379	124	95	28

TABLE 7
WWTC PERFORMANCE DATA - MONTHLY CONCENTRATIONS

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PRIMARY TREATMENT INTERMEDIATE TREATMENT TERTIARY TREATMENT EFFLUENT DAILY AVERAGE RAW SEWAGE PRIMARY EFFLUENT PRIMARY REMOVAL IMTERMEDIATE EFFLUENT INTERMEDIATE REMOVAL TERTIARY EFFLUENT TERTIARY REMOVAL OVERALL REMOVAL Month FLOW - MGD PARAMETER (MG/L) (MG/L) (% OF RAW) (MG/L) (% OF PRI) (MG/L) (% OF INT) (% OF RAW) TSS 157 77 50.96 6.8 91.17 0.6 91.18 99.62 BOD 165 2.5 0.91 99.45 Jan 2019 11.06 100 39.39 97.50 63.60 AMM-N 18.79 0.34 98.19 TSS 99.07 150 61 59.33 10.7 82.46 1.4 86.92 74 Feb 2019 15.22 BOD 167 55.69 4.3 94.19 1.84 57.21 98.90 AMM-N 12.58 0.73 94.20 TSS 176 58 67.05 4.4 92.41 0.6 86.36 99.66 BOD 209 72 68.89 99.60 Mar 2019 12.27 65.55 2.7 96.25 0.84 AMM-N 17.22 0.75 95.64 TSS 164 61 62.80 8.9 85.41 1.1 87.64 99.33 Apr 2019 14.29 BOD 196 82 58.16 3.5 95.73 2.15 38.57 98.90 AMM-N 14.33 0.28 98.05 TSS 121 63 16.8 73.33 2.0 88.10 98.35 47.93 BOD 138 62 93.39 62.68 98.89 May 2019 18.06 55.07 4.1 1.53 AMM-N 10.05 0.38 96.22 TSS 191 93.84 0.6 88.68 99.67 86 54.97 5.3 Jun 2019 12.65 BOD 195 90 53.85 2.1 97.67 1.60 23.81 99.18 AMM-N 15.36 0.09 99.41 TSS 229 131 42.79 5.5 95.80 1.3 76.36 99.43 BOD 217 24.48 Jul 2019 10.71 119 45.16 2.9 97.56 2.19 98.99 AMM-N 18.39 0.11 99.40 TSS 188 82 56.38 6.3 92.32 1.2 80.95 99.36 Aug 2019 8.71 BOD 176 98 44.32 2.7 97.24 1.77 34.44 98.99 AMM-N 20.10 0.13 99.35 TSS 133 50 62.41 2.7 97.97 0.6 77.78 99.55 Sep 2019 12.52 BOD 121 72 98.61 1.08 -8.00 99.11 40.50 1.0 AMM-N 99.66 17.52 0.06 TSS 129 45 3.5 0.9 99.30 65.12 92.22 74.29 BOD 63 Oct 2019 13.39 113 44.25 1.1 98.25 0.90 18.18 99.20 AMM-N 14.75 0.12 99.19 TSS 126 42 66.67 3.9 90.71 0.7 82.05 99.44 Nov 2019 12.22 BOD 133 64 51.88 2.5 96.09 1.02 59.20 99.23 AMM-N 17.53 0.09 99.49 TSS 175 52 70.29 3.2 93.85 0.6 81.25 99.66 Dec 2019 10.34 BOD 202 94 53.47 1.7 98.19 0.77 54.71 99.62 AMM-N 20.80 0.12 99.42 TSS 162 67 84.62 99.38 58.64 6.5 90.30 1.0 Total Year 12.62 BOD 169 83 2.6 96.87 46.92 99.18 50.89 1.38 Avg. AMM-N 16.45 0.27 98.36

TABLE 8
WWTC PERFORMANCE DATA 2010-2019

PRIMARY TREATMENT INTERMEDIATE TREATMENT TERTIARY TREATMENT

			RAW SEWAGE	PRIMARY EFFLUENT	PRIMARY REMOVAL	INTERMEDIATE EFFLUEN	T INTERMEDIATE REMOVAL	TERTIARY EFFLUENT	TERTIARY REMOVA	L TOTAL REMOVAL
YEAR	MGD	PARAMETER	(MG/L)	(MG/L)	(% OF RAW)	(MG/L)	(% OF RAW)	(MG/L)	(% OF RAW)	(% OF RAW)
		BOD	192	75	60.9%	3.2	37.4%	1.2	1.0%	99.4%
2010	10.2	TSS	245	84	65.7%	7.7	31.1%	0.7	2.9%	99.7%
		NH3	17.3					0.12		99.3%
		BOD	167	73	56.3%	5	40.7%	1.6	2.0%	99.0%
2011	11.1	TSS	217	66	69.6%	14.5	23.7%	1.6	5.9%	99.3%
		NH3	15.1					0.39		97.4%
		BOD	147	96	34.7%	3.2	63.1%	1.6	1.1%	98.9%
2012	9.0	TSS	167	68	59.3%	6.5	36.8%	0.5	3.6%	99.7%
		NH3	19.6					0.14		99.3%
		BOD	120	76	36.7%	2.3	61.4%	1.0	1.1%	99.2%
2013	10.4	TSS	133	57	57.1%	6.3	38.1%	0.5	4.4%	99.6%
		NH3	16.1					0.13		99.2%
		BOD	126	75	40.5%	3.1	57.1%	1.0	1.7%	99.2%
2014	11.2	TSS	152	62	59.2%	6.9	36.3%	0.7	4.1%	99.5%
		NH3	15.8					0.28		98.2%
		BOD	130	73	43.8%	2.9	53.9%	1.3	1.2%	99.0%
2015	10.9	TSS	140	49	65.0%	5.6	31.0%	0.7	3.5%	99.5%
		NH3	14.7					0.24		98.4%
		BOD	189	81	57.1%	2.7	41.4%	1.1	0.8%	99.4%
2016	11.2	TSS	183	52	71.6%	5.9	25.2%	0.6	2.9%	99.7%
		NH3	16.0					0.24		98.5%
		BOD	213	94	55.9%	2.8	42.8%	1.2	0.8%	99.4%
2017	10.3	TSS	199	73	63.3%	7.3	33.0%	0.9	3.2%	99.5%
		NH3	20.3					0.40		98.0%
		BOD	227	103	54.6%	3.1	44.0%	1.5	0.7%	99.3%
2018	11.0	TSS	211	81	61.6%	9.3	34.0%	1.2	3.8%	99.4%
		NH3	18.9					0.60		96.8%
		BOD	169	83	50.9%	2.6	44.0%	1.4	0.7%	99.3%
2019	12.6	TSS	162	68	58.0%	6.6	34.0%	1.0	3.8%	99.4%
		NH3	16.4					0.26		96.8%
TENLYEAR		BOD	168	83	50.6%	3.1	47.6%	1.3	1.1%	99.2%
TEN YEAR AVG	10.79	TSS	181	66	63.5%	7.7	31.4%	0.9	3.7%	99.5%
AVG		NH3	17.0					0.28		98.3%

TABLE 9

<u>DIGESTER FEED VOLUMES</u>

<u>2019</u>

MONTH	GALLONS PRIMARY	GALLONS WAS	GALLONS GREASE	GALLONS TOTAL FEED	GALLONS SUPERNATANT
Jan	1,052,459	662,110	277,481	1,992,050	754,475
Feb	965,427	595,390	282,160	1,842,977	755,885
Mar	1,079,526	682,890	265,995	2,028,411	664,558
Apr	1,052,070	751,730	292,826	2,096,626	692,945
May	1,166,064	860,270	294,073	2,320,407	745,788
Jun	1,089,537	915,090	270,306	2,274,933	725,049
Jul	1,061,836	942,810	288,374	2,293,020	821,925
Aug	1,142,404	682,600	265,564	2,090,568	618,245
Sep	1,160,466	729,160	238,854	2,128,480	701,463
Oct	1,102,600	791,860	278,969	2,173,429	655,460
Nov	1,115,028	589,060	245,432	1,949,520	525,253
Dec	995,674	814,650	225,771	2,036,095	814,399
TOTAL	12,983,091	9,017,620	3,225,805	25,226,516	8,475,445
<u>YEAR</u>	TOTAL GALLONS PRIMARY	TOTAL GALLONS WAS	<u>TOTAL</u> <u>GALLONS</u> <u>GREASE</u>	TOTAL GALLONS FEED	TOTAL GALLONS SUPERNATANT
2008	7,377,548	6,246,500	0	13,624,048	5,698,687
2009	8,941,879	6,386,450	0	15,328,329	7,063,547
2010	7,889,406	6,844,350	11,275	14,745,031	6,888,367
2011	13,375,341	7,732,749	123,361	21,231,451	7,954,262
2012	11,401,865	7,301,845	1,484,049	20,187,759	9,098,760
2013	10,246,693	7,702,241	1,847,140	19,796,074	7,406,897
2014	10,556,827	8,726,360	2,637,907	21,921,094	7,669,632
2015	12,856,865	7,917,270	2,388,320	23,162,455	10,452,628
2016 2017	16,005,236 12,710,097	9,480,829 8,894,754	3,669,377 3,479,599	29,155,442 25,084,451	21,897,719
2017	12,710,097	8,894,754 7,632,530	3,479,599 4,450,410	24,873,929	18,908,335 9,292,026
2019	12,790,989	9,017,620	3,225,805	25,226,516	8,475,445

# TABLE 10 DIGESTED SLUDGE PUMPING 2019

	GALLONS TO	GALLONS TO	GALLONS TO	TOTAL	TOTAL DRY	DRY
MONTH	DRYING BEDS	LAGOONS	BELT PRESS	GALLONS	SOLIDS (LBS)	TONS
Jan	34,860	44,940	1,015,979	1,095,779	169,187	85
Feb	171,780	0	802,455	974,235	164,165	82
Mar	258,552	0	930,836	1,189,388	196,423	98
Apr	149,100	58,680	990,287	1,198,067	203,764	102
May	85,260	0	1,332,821	1,418,081	223,806	112
Jun	164,220	224,080	1,254,125	1,642,425	280,248	140
Jul	102,908	139,212	1,278,526	1,520,646	263,077	132
Aug	432,204	0	747,109	1,179,313	221,297	111
Sep	174,720	72,660	1,158,042	1,405,422	257,230	129
Oct	154,560	0	1,221,815	1,376,375	236,342	118
Nov	82,740	0	879,003	961,743	155,791	78
Dec	195,720	0	980,075	1,175,795	206,090	103
TOTAL	2,006,624	539,572	12,591,073	15,137,269	2,577,423	1,290
	TOTAL TO	TOTAL TO	TOTAL TO	TOTAL	TOTAL DRY	DRY
YEAR	DRYING BEDS	LAGOONS	BELT PRESS	GALLONS	SOLIDS (LBS)	TONS
2010	2,796,588	850,900	5,795,548	9,443,035	1,959,968	980
2011	3,044,101	589,387	6,796,823	10,430,311	2,279,802	1,140
2012	2,804,389	987,418	5,167,727	8,959,534	2,004,268	1,002
2013	2,454,875	608,702	6,181,381	9,244,958	2,123,228	1,062
2014	2,111,002	900,582	7,757,099	10,768,684	2,311,647	1,156
2015 2016	1,637,510 2,684,707	708,388 722,430	8,575,670 5,483,122	10,921,568 8,890,259	2,390,913 1,773,261	1,195 1,006
2016	2,876,333	838,116	5,463,122 7,918,682	6,690,259 11,633,131	2,005,847	1,008
2017	2,876,333 2,734,442	498,168	11,821,260	15,053,131	2,410,325	1,003
2019	2,006,624	539,572	12,591,073	15,033,870	2,577,423	1,200
2013	2,000,024	000,012	12,001,070	10, 107,200	2,011,720	1,200
					Ten Year Avg.	1,104

TABLE 11
CLASS A BIOSOLIDS DISTRIBUTION

YEAR		VERED		TOR P/UP		UP ST.	DGSE		TOTAL
	Cu. Yd.	% of Total							
2010	4,061	87%	21	0%	516	11%	89	2%	4,687
2011	2,876	87%	3	0%	387	12%	27	1%	3,293
2012	4,812	89%	55	1%	504	9%	60	1%	5,431
2013	2,535	83%	113	4%	395	13%	0	0%	3,043
2014	3,012	87%	72	2%	321	9%	41	1%	3,446
2015	3,185	88%	75	2%	358	10%	7	0%	3,625
2016	2,269	67%	648	19%	451	13%	12	0%	3,380
2017	3,307	83%	322	8%	253	6%	101	10%	3,983
2018	2,414	79%	399	13%	253	8%	6	0%	3,072
2019	1,339	81%	120	7%	176	11%	9	1%	1,644
TEN YEAR									
AVG	2,981	83%	183	6%	361	11%	35	2%	3,560

Table 12
BIOSOLIDS DISPOSAL

Year	Class A Distribution	Class B Hauling	Total	Class A D	Distribution	Class B	Hauling	Total
	Cu. Yd.	Cu. Yd.	Cu. Yd.	Dry Tons	% of Total	Dry Tons	% of Total	Dry Tons
2010	4,687	0	4,687	1,864	100%	0	0%	1,864
2011	3,293	0	3,293	1,501	100%	0	0%	1,501
2012	5,431	0	5,431	3,023	100%	0	0%	3,023
2013	3,043	0	3,043	1,757	100%	0	0%	1,757
2014	3,446	0	3,446	2,068	100%	0	0%	2,068
2015	3,625	0	3,625	1,948	100%	0	0%	1,948
2016	3,380	1,018	4,398	1,821	92%	164	8%	1,985
2017	3,983	1,718	5,701	1,964	90%	223	10%	2,187
2018	3,072	3,000	6,072	1,685	79%	449	21%	2,134
2019	1,644	4,830	6,474	938	60%	619	40%	1,557
Ten Year Avg	3,560	1,057	4,398	1,857	92	146	8	2,002

TABLE 13
UTILITIES
2019

	ELECTRICITY	ELECTRICITY					
	FROM COMED	FROM CHP		NATURA	AL GAS - CU.F	T.	CITY WATER
MONTH	KW HOURS	KW HOURS	WWTC	MSB	HYPO BLDG	5006 WALNUT	GALLONS
Jan	95,417	262,238	41,200	81,400	60,400	25,500	22,964
Feb	-49,472	372,931	38,200	61,800	50,500	25,000	19,149
Mar	-80,140	455,544	34,933	37,600	32,267	16,333	20,096
Apr	-11,609	378,957	14,167	12,500	7,333	2,967	14,013
May	-19,802	453,588	8,800	4,900	2,500	500	17,728
Jun	-68,508	442,389	3,400	2,333	0	0	14,087
Jul	-22,345	403,715	3,300	2,367	0	0	19,947
Aug	77,801	278,838	3,433	2,167	0	0	23,412
Sep	163,722	184,953	3,367	2,033	100	0	17,802
Oct	136,995	234,869	7,100	6,800	5,100	3,100	19,074
Nov	150,209	214,047	30,400	38,850	39,400	30,633	24,011
Dec	103,772	269,845	31,600	43,950	34,700	32,167	15,708
TOTAL	476,040	3,951,914	219,900	296,700	232,300	136,200	227,990
	ELECTRICITY	ELECTRICITY					
	FROM COMED	FROM CHP			AL GAS - CU.F		CITY WATER
YEAR	KW HOURS	KW HOURS	WWTC	MSB	HYPO BLDG	5006 WALNUT	GALLONS
2008	6,029,248		2,772,600	360,400	152,600	94,000	1,297,461
2009	5,077,824		1,760,300	267,000	146,500	83,543	1,284,865
2010	4,897,032		1,869,333	304,667	142,167	68,550	1,264,182
2011	5,142,655		1,172,167	222,133	173,033	74,350	1,348,906
2012	4,737,602		708,000	176,700	134,000	62,267	1,257,743
2013	4,710,718		1,852,600	291,100	199,300	150,172	570,319
2014	4,147,605	906,097	556,600	354,300	256,200	112,612	1,360,462
2015	3,088,543	1,618,114	330,725	242,300	243,341	90,150	2,022,867
2016	2,914,349	1,764,802	279,466	242,566	208,867	100,500	1,398,325
2017	2,099,643	2,598,796	206,667	261,833	217,700	95,500	801,133
2018	346,456	3,964,426	219,600	271,867	152,733	134,700	422,321
2019	476,040	3,951,914	219,900	296,700	232,300	136,200	227,990

TABLE 14

ELECTRICAL USAGE AND WWTC FLOWS

		COMED KWHRS	TOTAL FLOW	TOTAL	KWHRS
YEAR	MGD	PER DAY	MG	KWHRS	PER MG
1997	10.3	20,259	3,760.52	7,394,400	1,966
1998	11.9	20,643	4,358.23	7,534,800	1,729
1999	10.8	20,831	3,945.26	7,603,200	1,927
2000	10.1	19,503	3,708.38	7,138,220	1,925
2001	11.9	18,837	4,329.23	6,875,400	1,588
2002	10.1	17,670	3,701.50	6,449,400	1,742
2003	9.4	17,648	3,442.68	6,441,600	1,871
2004	9.6	18,138	3,534.37	6,638,400	1,878
2005	9.7	17,859	3,545.21	6,518,400	1,839
2006	12.3	18,652	4,472.81	6,808,073	1,522
2007	10.5	18,549	3,831.59	6,770,460	1,767
2008	12.0	16,473	4,382.37	6,029,248	1,376
2009	12.4	13,912	4,507.87	5,077,824	1,126
2010	10.8	13,417	3,959.40	4,897,032	1,237
2011	11.8	14,089	4,310.18	5,142,655	1,193
2012	9.0	12,980	3,298.75	4,737,602	1,436
2013	10.4	12,906	4,117.91	4,710,718	1,144
2014	11.6	11,363	4,248.26	4,147,605	976
2015	11.3	8,462	4,105.10	3,088,543	752
2016	11.4	7,963	4,178.33	2,914,349	697
2017	10.3	5,752	3,769.61	2,099,643	557
2018	11.0	949	4,007.81	346,456	86
2019	12.6	1,304	4,597.81	476,040	104

TABLE 15

DIGESTER GAS UTILIZATION 2019

	TOTAL PRODUCED	CHP	DEHUMIDIFIER	HEAT EXCHANGERS	WASTE (FLARED)	HAULED GREASE WASTE
MONTH	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Gals.
Jan	7,541,449	3,284,931	1,008,995	307,607	2,939,917	277,481
Feb	7,241,385	5,483,801	642,986	43,459	1,071,139	282,160
Mar	8,534,907	6,937,084	773,294	15,553	808,976	265,995
Apr	7,571,380	6,011,741	603,586	60,782	895,271	292,826
May	7,940,698	6,967,806	507,930	2,283	462,679	294,073
Jun	7,962,295	6,736,562	676,081	21,339	528,314	270,306
Jul	6,352,360	6,109,423	91,631	16,597	134,709	288,374
Aug	5,582,288	3,921,184	644,781	24,310	992,012	265,564
Sep	6,521,947	2,494,044	866,317	502,641	2,658,945	238,854
Oct	5,136,521	3,179,307	572,825	281,374	1,103,015	278,969
Nov	5,883,298	2,869,017	771,711	389,944	1,852,626	245,432
Dec	6,184,156	3,569,652	839,942	109,560	1,665,003	225,771
TOTAL	82,452,685	57,564,552	8,000,079	1,775,449	15,112,605	3,225,805
YEAR	TOTAL PRODUCED	ENGINE/ CHP	DEHUMIDIFIER	HEAT EXCHANGERS	WASTE (FLARED)	HAULED GREASE WASTE
ILAN	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Gals.
2008	23,937,366		107,766	22,026,830	1,802,770	0
2009	34,050,861		5,261,917	28,702,134	86,810	0
2010	26,703,675		8,959,103	15,979,638	1,764,933	11,275
2011	31,976,383		11,654,942	15,832,873	4,488,568	134,958
2012	54,155,650		12,539,508	21,119,458	20,196,684	1,475,796
2013	49,310,158		13,063,363	27,651,410	8,595,385	1,854,698
2014	65,301,203	16,426,989	11,353,641	26,667,787	17,011,975	2,728,840
2015	68,198,366	31,095,549	5,858,902	20,643,295	21,656,843	2,389,320
2016	84,415,051	34,504,340	11,057,844	10,918,707	27,934,160	3,669,377
2017	65,346,479	37,324,484	4,074,161	9,737,050	14,210,784	3,480,299
2018	82,004,810	59,259,962	4,877,385	2,558,378	15,309,085	4,450,410
2019	82,452,685	57,564,552	8,000,079	1,775,449	15,112,605	3,225,805

TABLE 16
CHEMICALS
2019

	LIQUID DI	SINFECTANT USE			LIQUID	URCE	SLUDGE TREATMENT	
	0.8% SODIUM	0.8% SODIUM	40% SODIUM	<u> </u>	SOLAR	0.8% SODIUM	16% SODIUM	
	HYPOCHLORITE	HYPOCHLORITE	BISULFITE		SALT	HYPOCHLORITE	HYPOCHLORITE	
	TERTIARY	EXCESS	TERTIARY		DELIVERY	FROM OSEC	DELIVERED	POLYMERS
MONTH	Gallons	Gallons	Gallons		Tons	Gallons	Gallons	lbs.
Jan	8,661	682	162		0	0	0	1,800
Feb	29,725	36,369	646		0	0	9,000	5,400
Mar	16,024	5,809	206		0	0	0	1,800
Apr	27,044	29,093	350		0	0	4,500	3,600
May	108,102	69,362	1,329		0	0	13,500	3,600
Jun	107,285	4,765	506		0	0	9,000	1,800
Jul	113,512	23,468	881		0	0	9,000	5,400
Aug	112,326	5,415	516		0	0	9,000	1,800
Sep	93,576	26,574	726		0	0	9,000	1,800
Oct	95,589	39,649	1,288		0	0	4,500	3,600
Nov	8,574	10,261	98		0	0	5,000	1,800
Dec	1,316	3,378	45		0	0	0	3,600
TOTAL	721,734	254,823	6,753		0	0	72,500	36,000

TABLE 17

#### CHEMICAL USAGE

			01.12111107.12	007.02		
SODIUM HYPOCHLORITE USAG	GE					
YEAR	TERTIARY lbs.	Flow MG	lbs./MG	EXCESS lbs.	FLOW MG	lbs./MG
2008	71,903	4,085.2	17.6	15,086	297.2	50.8
2009	57,216	4,134.5	13.8	15,584	373.4	41.7
2010	51,164	3,742.3	13.7	7,091	217.1	32.7
2011	70,331	4,034.3	17.4	11,092	275.9	40.2
2012	54,197	3,272.5	16.6	1,936	26.2	73.9
2013	47,333	3,812.2	12.4	9,084	305.7	29.7
2014	57,131	4,075.9	14.0	12,448	172.4	72.2
2015	47,388	3,990.7	11.9	8,294	114.5	72.4
2016	47,954	4,093.5	11.7	13,733	84.9	161.8
2017	36,336	3,769.6	9.6	12,200	193.6	63.0
2018	39,153	4,007.8	9.8	10,984	221.6	49.6
2019	48,154	4,597.8	10.5	17,002	307.4	55.3
SODIUM BISULFITE				SALT AND HYPOCHLORITE SOURCE		
YEAR	TERTIARY lbs.	FLOW MG	lbs./MG	SOLAR SALT DELIVERY TONS	0.8% SODIUM HYPOCHLORITE FROM OSEC Gals.	16% SODIUM HYPOCHLORITE DELIVERED GAI
2008	25,269	4,085.2	6.2	153	1,077,328	7,000
2009	19,409	4,134.5	4.7	153	783,104	2,995
2010	19,970	3,742.3	5.3	153	891,520	0
2011	23,538	4,034.3	5.8	126	1,027,712	24,503
2012	14,780	3,272.5	4.5	128	949,480	3,487
2012	16,679	3,812.2	4.4	43	262,360	45,300
2014	14,742	4,075.9	3.6	144	1,035,552	9,600
2015	25,048	3,990.7	6.3	144	859,180	4,420
2016	19,432	4,093.5	4.7	189	1,012,424	3,956
2017	22,167	3,769.6	5.9	0	115,416	49,500
2018	23,824	4,007.8	5.9	0	0	58,000
2019	30,079	4,597.8	6.5	0	0	72,500
OLYMERS						
YEAR	POLYMERS lbs.	DRY SOLIDS lbs.	lbs. Solids pe	er Polymer lb.		
2008	19,350	1,332,902	68.9			
2009	9,450	944,738	100.0			
2010	11,700	1,091,512	93.3			
2011	17,550	1,343,277	76.5			
2012	13,050	955,284	73.2			
2013	14,850	1,276,521	86.0			
2014	14,850	1,514,033	102.0			
2015	16,200	1,485,811	91.7			
2016	10,800	992,027	91.9			
2017	16,200	1,266,862	91.9			
2018	30,600	2,410,325	78.8			
2019	36,000	2,577,421	71.6			
	,					Page 25

TABLE 18 NUTRIENTS 2019

Phosphorus					
	Influent Concentration,	Influent Load,	Effluent Concentration,	Effluent Load,	% Removal of
	mg/L	lbs/day	mg/L	lbs/day	Load, %
January	4.53	396	2.11	186	53
February	3.62	435	1.26	165	62
March	5.28	461	2.02	181	61
April	4.00	454	1.83	219	52
May	3.34	454	1.25	169	63
June	5.21	489	2.03	191	61
July	7.24	589	2.78	227	62
August	5.14	378	3.94	298	21
September	4.42	357	2.39	197	45
October	3.80	362	1.79	175	52
November	4.56	388	1.93	157	60
December	5.02	442	2.60	242	45
Min	3.34	357	1.25	157	21
Max	7.24	589	3.94	298	63
Annual Total		158,305		73,152	
Avg	4.68	434	2.16	201	53
9					
Nitrogen					
	Influent Concentration,	Influent Load,	Effluent Concentration,	Effluent Load,	% Removal of
	mg/L	lbs/day	mg/L	lbs/day	Load, %
January	23.20	3,034	14.30	1,866	38
February	23.10	2,480	8.80	959	61
March	28.90	2,697	11.20	1,069	60
April	23.20	2,297	11.20	1,136	51
May	18.20	2,182	8.70	1,058	52
June	32.00	2,400	12.70	994	59
July	39.90	3,244	12.00	956	71
August	40.40	2,845	19.70	1,485	48
September	36.90	2,193	19.50	1,220	44
October	20.70	2,063	10.80	1,127	45
November	30.20	2,462	13.60	1,089	56
December	29.90	2,431	15.90	1,308	46
N disa	40.00	2.002	0.70	050	20
Min	18.20	2,063	8.70	956	38
Max	18.20 40.40	3,244	8.70 19.70	1,866	38 71

# TABLE 19 NUTRIENTS ANNUAL AVERAGES SINCE 2015

Phosphorus
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	Avg Influent Concentration	Avg Influent Load	Avg Effluent Concentration	Avg Effluent Load	% Removal
	mg/L	lbs/day	mg/L	lbs/day	Load %
2015	4.37	352	2.54	206	39
2016	5.44	464	2.58	219	53
2017	5.62	454	2.99	235	47
2018	5.43	448	2.99	235	53
2019	4.68	434	2.99	235	53
Average	5.11	430	2.82	226	49

# Nitrogen

	Avg Influent	Avg Influent	Avg Effluent	Avg Effluent	%
	Concentration	Load	Concentration	Load	Removal
	mg/L	lbs/day	mg/L	lbs/day	Load %
2015	31.80	2853	17.98	1620	43
2016	36.18	2602	15.96	1155	56
2017	38.52	3128	16.04	1318	57
2018	35.00	2791	14.38	1181	59
2019	28.88	2527	13.20	1189	53
Average	34.08	2780	15.51	1293	54

## DOWNERS GROVE SANITARY DISTRICT M E M O

DATE: January 16, 2020

TO: Nicholas J. Menninga

General Manager

FROM: Ted Cherwak Keith Shaffner

Sewer Construction Supervisor Sewer Construction Inspector

### RE: Sewer Construction Year End Summary – 2019

The following is a brief summary of the construction activities that occurred in the past year:

<u>Permits:</u> The year 2019 saw a 16% decrease in single family permits issued over the prior year (Exhibit A). Single family tear downs and rebuilds continue to be a significant factor in new home construction within the District (Exhibit B). Also attached for reference is the Annual Summary of Sewer Permits issued for the last five years 2015–2019 (Exhibit C).

Annexations: Seven (7) parcels totaling of 4.84 acres were added to the Sanitary District from the 2019 annexations. Trunk Sewer Service Charges (TSSC) collected from annexations totaled \$21,023.88. Please find attached a summary of the parcels annexed into the Sanitary District in 2019 and a comparison of the last five years of annexations (Exhibit D).

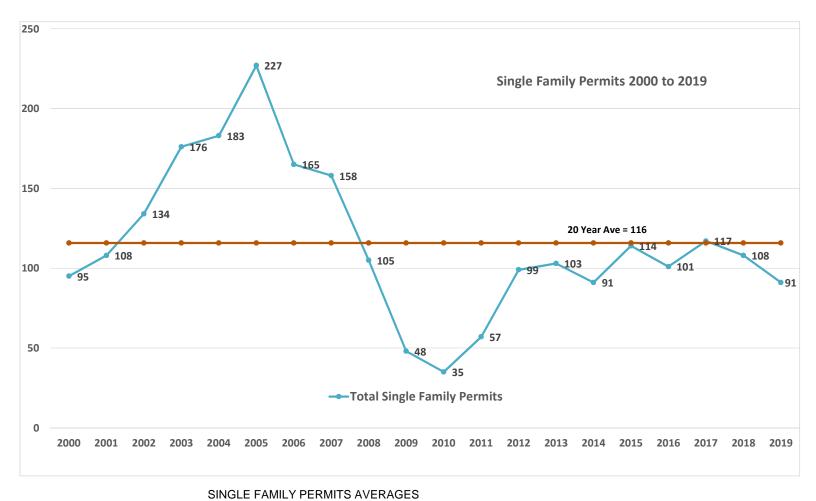
**Board of Local Improvements:** There were 3 BOLI meetings held in 2019, and they reviewed three proposed developments. Two of these developments are now under construction.

<u>Illinois EPA Permits:</u> IEPA issued construction permits for 3 new projects in the District, with an estimated wastewater flow totaling 81 PE (8,100 gallons per day).

<u>Public Sewer Main Construction:</u> There were two new public sewer main projects constructed in 2019, which added 2,574 lineal feet of sewer main and 11 manholes.

CC: WDVB, AES, PWC, KJR, RTJ, MJS, RPS, WCC & MGP

# Exhibit A



# 5 YEAR AVERAGE (2015-2019) 106 10 YEAR AVERAGE (2010-2019) 92

116

20 YEAR AVERAGE (2000-2019)

EXHIBIT B
SINGLE FAMILY TEAR-DOWNS & RE-BUILDS

YEAR	TOTAL SF PERMITS	TEAR DOWN RE-BUILDS	% RE-BUILDS
2000	95	36	37.89%
2001	108	57	52.78%
2002	134	51	38.06%
2003	176	94	53.41%
2004	183	115	62.84%
2005	227	136	59.91%
2006	165	99	60.00%
2007	158	63	39.87%
2008	105	27	25.71%
2009	48	24	50.00%
2010	35	19	54.29%
2011	57	32	56.14%
2012	99	48	48.48%
2013	103	56	54.37%
2014	91	62	68.13%
2015	114	58	50.88%
2016	101	57	56.44%
2017	117	70	59.83%
2018	108	54	50.00%
2019	91	44	48.35%
20-YEAR AVE	116	60	51.92%

# 20 YEAR SUMMARY:

	SF PERMITS	<b>RE-BUILDS</b>	% RE-BUILDS
TOTAL	2315	1202	51.92%

EXHIBIT C DOWNERS GROVE SANITARY DISTRICT - SUMMARY OF SEWER PERMITS ISSUED

YEAR	PERMIT TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	TOTALS
2019 2019 2019 2019 2019 2019	SINGLE FAMILY MULTIPLE FAMILY COMMERCIAL REPAIR DISCONNECT TOTAL	7 0 0 0 2 9	5 0 0 1 2 8	8 0 2 1 7 18	6 0 2 0 4 12	19 0 3 0 4 26	12 0 0 2 3 17	7 0 1 1 6 15	9 0 1 0 8 18	4 0 3 0 0 7	7 0 0 0 3 10	2 0 1 1 11 15	5 0 1 2 0 8	91 0 14 8 50 163
2018 2018 2018 2018 2018 2018	SINGLE FAMILY MULTIPLE FAMILY COMMERCIAL REPAIR DISCONNECT TOTAL	9 0 2 1 3 15	4 0 4 0 3 11	6 0 1 0 5 12	4 0 2 2 11 19	10 0 2 1 5	16 0 1 1 4 22	7 0 0 2 3 12	25 0 1 1 5 32	12 0 0 0 6 18	7 0 2 2 3 14	2 0 0 0 3 5	6 0 0 1 3	108 0 15 11 54 188
2017 2017 2017 2017 2017 2017	SINGLE FAMILY MULTIPLE FAMILY COMMERCIAL REPAIR DISCONNECT TOTAL	12 0 1 0 4 17	10 0 2 0 5 17	9 1 1 0 10 21	9 0 0 1 8 18	8 0 1 0 6 15	7 0 2 0 7 16	6 0 1 0 4 11	5 0 0 2 11 18	10 0 3 0 6 19	9 0 2 1 4 16	21 0 3 0 4 28	11 0 0 0 2 13	117 1 16 4 71 209
2016 2016 2016 2016 2016 2016	SINGLE FAMILY MULTIPLE FAMILY COMMERCIAL REPAIR DISCONNECT TOTAL	7 0 2 1 3	6 0 1 1 5 13	17 0 2 1 4 24	10 0 0 1 8 19	10 0 1 1 4 16	6 0 1 0 5 12	6 1 0 0 5 12	11 0 0 1 10 22	6 0 3 0 5 14	8 1 1 3 6 19	8 0 3 0 11 22	6 0 1 1 5 13	101 2 15 10 71 199
2015 2015 2015 2015 2015 2015	SINGLE FAMILY MULTIPLE FAMILY COMMERCIAL REPAIR DISCONNECT TOTAL	0 0 3 1 3 7	6 0 3 1 4 14	24 0 2 2 7 35	10 0 1 1 3 15	12 0 1 1 7 21	8 0 4 0 4 16	10 0 1 0 8 19	6 0 1 2 7 16	9 0 1 0 5 15	14 0 0 2 6 22	7 1 0 1 7 16	8 0 0 1 5	114 1 17 12 66 210
2014 2014 2014 2014 2014 2014	SINGLE FAMILY MULTIPLE FAMILY COMMERCIAL REPAIR DISCONNECT TOTAL	2 0 2 0 3 7	4 0 0 1 4 9	8 0 0 1 3 12	8 0 3 1 4 16	7 0 4 0 4 15	13 0 2 0 10 25	9 0 0 1 6 16	7 1 1 1 6 16	8 0 2 0 9	10 0 1 2 5 18	11 0 1 1 7 20	4 0 0 1 1 6	91 16 9 62 179

# Exhibit D 2019 Annexations

LOCATION	NAME	DATE	TSSC	PAID	APPROVAL	AO#	ACRES	NOTES
6400 Carpenter	Brake	01/31/19	\$1,550.00	02/09/19	03/19/19	2019-01	0.37	
6007 Woodward	Leander	03/10/19	\$2,134.23	05/10/19	05/21/19	2019-02	0.50	
5701 Walnut	Pietrzak	04/18/19	\$4,095.45	05/13/19	05/21/19	2019-03	0.97	
5614 Katrine	Anderson	02/19/19	\$3,233.68	07/11/19	08/20/19	2019-04	0.76	
4003 Venard	Ziogas	07/26/19	\$4,365.40	9/18/2019	10/15/19	2019-05	1.03	
5705 Fairview	Berkson	08/12/19	\$3,705.61	10/07/19	10/15/19	2019-06	0.88	
5904 Janes	Hughes	11/20/19	\$1,939.51	11/25/19	12/17/19	2019-07	0.33	
Totals			\$21,023.88				4.84	

# **Annexations Five Year Comparison**

Year	2015	2016	2017	2018	2019
Number of	21	15	13	5	7
Annexations TSSC	\$227,858.00	\$26,786.00	\$96,422.00	\$15,041.64	\$21,023.88
Acres	28.94	5.89	14.41	11.02	4.84

# DOWNERS GROVE SANITARY DISTRICT MEMO

TO: Nicholas J. Menninga General Manager

FROM: Robert Swirsky

Sewer System Maintenance Supervisor

DATE: January 7, 2020

RE: Review of Operations – Collection System Performance for 2019

I have enclosed copies of the following items for your review:

- 1) Annual Sewer Backup Comparisons for 1995 through 2019
- 2) Manhole Overflow and Sewer Backup Summary by Event
- 3) Manhole Overflow and Sewer Backup Summary by Year
- 4) 2019 Public Sewer Blockages
- 5) 2019 Building Service Blockages
- 6) Mainline PACP TV Status Map
- 7) Current I&I Ranking of Flow Metering Basins
- 8) WWTC Flow vs annual rainfall 1991 2019

CC: WDVB, AES, PWC, RTJ, KJR, MS, TTC, WCC, MCW

# DOWNERS GROVE SANITARY DISTRICT ANNUAL SEWER BACK UP COMPARISONS

REPORTING YEAR	TOTAL BACK UPS FOR YEAR ***	PUBLIC SEWER BLOCKAGES	BUILDING SERVICE PROBLEMS	HEAVY RAIN SURCHARGE ***	LIFT STATION FAILURE
1995	164	26	136	2	0
1996	765	23	199	542	1
1997	632	24	114	494	0
1998	209	32	137	40	0
1999	227	31	191	5	0
2000	241	29	205	7	0
2001	216	22	132	61	0
2002	190	35	155	0	0
2003	207	27	180	0	0
2004	213	18	193	2	0
2005	328	21	300	7	0
2006	373	13	330	30	0
2007	286	11	275	0	0
2008	418	17	312	101	0
2009	312	19	242	59	0
2010	305	11	285	9	0
2011	280	15	262	3	0
2012	273	14	258	1	0
2013	474	13	322	139	0
2014	311	21	281	9	0
2015	238	11	227	0	0
2016	203	11	188	4	0
2017	242	9	200	33	0
2018	202	8	183	11	0
2019	199	2	192	5	0
20 year AVE	276	16	236	25	0
5 year AVE	217	8	198	11	0

### MANHOLE OVERFLOW AND SEWER BACKUP HISTORY -

### DOWNERS GROVE SANITARY DISTRICT - OVERFLOW BACKUP HISTORY

DATE OF EVENT	11/1/2019	10/26/2019	9/15/2019	7/18/2019	5/27/2019	4/30/2019
PRECIP FOR 24 Hrs	N/A	2.65	0.79	1.99	1.72	1.51
PRECIP FOR 3 PREVIOUS DAYS	Dry Weather Overflow	2.66	Mainline Blockage Dry Weather Overflow	0.86	0.3	2.65
10- day rainfall	4.39	2.91	Overriow	3.18	3.62	4.37
PEAK WWTC FLOW		86		73.84	75.3	88.12
# OF OVERFLOWS	1	5	1	1	2	3
MH LOCATIONS	N1-025-6	1M-050 2D-001 1H-005 1H-004 1K-049	1K-046	2D-001	2D-001 1K-049	2D-001 1M-050 1K-049

# OF BACKUPS

2 5501 Farview Ave 115 S. Grant St

DATE OF EVENT	4/29/2019	11/1/2018	2/20/2018	1/26/2018	11/27/2017	10/14/2017
PRECIP FOR 24 Hrs	2.2	N/A	2.3	N/A	N/A	6.88
PRECIP FOR 3 PREVIOUS DAYS	0.56	Dry Weather Overflow	0.64	Dry Weather Overflow	Dry Weather Overflow	1.21
10- day rainfall	2.86		3.23	Liner Installation	Liner Installation	9.55
PEAK WWTC FLOW	85.59		105.33			105.91
# OF OVERFLOWS	1	1	10	1	1	15
MH LOCATIONS	2D-001	W1-076	1M-050 2D-001 2C-089-1 1H-012 1H-005 1H-004 1K-049 2C-115 G1-011	3A-014	3A-030	L1-109 1H-012 1H-004 1H-005 1K-049 2A-011 2A-011-A 2D-001 1M-034 1M-049 G1-012 H1-004 H1-005 H4-004 H4-088
# OF BACKUPS			212 S. Lincoln 4133 Saratoga 5104 DeWitt 4019 N. Washington 4804 Highland 752 Chicago 18 N. Cass 504 N. Washington 4618 Roslyn 1 N. Cummor 5730 Main 4924 Washington 115 S. Grant 4618 Roslyn 131 N. Hudson 828 Chicago 4904 Puffer 4540 Highland 3928 N. Cass 3924 Forest 326 Gierz			38 1122 60th 115 S Grant 1450 Palmer 1917 B Curtiss 1928 Curtiss 326 Gierz 3902 S Adams 4014 N Grant 4015 N Washington 4018 N Adams 4023 N Grant 4112 N Adams 4023 N Grant 4112 P Adams 4132 Roslyn 4507 Fairview 4825 Pershing 4943 Highland 5514 Grand 5501 Fairview 5713 Main 5740 Plymouth 6941 Lyman 7001 Foster 7020 Foster 733 Chicago 752 Chicago 821 Valley View 831 Valley View 831 Valley View 831 Valley View 4915 Washington 6909 Galway 4939 Wallbank 4618 Roslyn 1418 62nd 4819 Pershing 4611 Fairview 238 Chicago 3926 N. Lincoln

DATE OF EVENT	5/10/2017	4/29/2017	4/27/2017	3/30/2017	3/17/2017	3/1/2017
PRECIP FOR 24 Hrs	1.3	2.38	N/A	1.83	N/A	1.69
PRECIP FOR 3 PREVIOUS DAYS	0.52	0.54	Dry Weather Overflow	0.73	Dry Weather Overflow	0
10- day rainfall	2.49	3		2.88		2.12
PEAK WWTC FLOW	73.3	69.34		70.78		88.54
# OF OVERFLOWS	2	2		2	1	2
MH LOCATIONS	1M-049 1K-049	1M-049 2D-001	2A-072	1M-049 2D-001	B1-038-1	1M-049 2D-001

# OF BACKUPS

3 112 N. Lincoln 138 N. Lincoln 305 N. Washington

2 1165 Barberry 122 S. Cass

DATE OF EVENT	8/27/2016	7/29/2016	3/24/2016	8/29/2015	6/15/2015	5/26/2015
PRECIP FOR 24 Hrs	1.1	1.47	N/A	N/A	1.5	0.57
PRECIP FOR 3 PREVIOUS DAYS	0.47	2.27	Dry Weather Overflow	Dry Weather Overflow	1.93	0.31 Dry Weather Overflow
10- day rainfall	2.68	5.81			4	0.88
PEAK WWTC FLOW	64.07	68.33			88.4	
# OF OVERFLOWS	1	2	1	1	2	1
MH LOCATIONS	1M-049	1M-049 2D-001	2F-010 2F-011	2G-037	1M-049 2D-001	1A-021

2 115 S. Grant 130 S. Lincoln # OF BACKUPS

1165 Barberry 3524 Saratoga

DATE OF EVENT	11/28/2014	10/18/2014	8/22/2014	6/30/2014	5/20/2014	11/22/2013
PRECIP FOR 24 Hrs	N/A	N/A	1.52	2.04	1.47	N/A
PRECIP FOR 3 PREVIOUS DAYS	Dry Weather Overflow	Dry Weather Overflow	2.15	0.07	0	Dry Weather Overflow
10- day rainfall	Overriow	Overriow	3.81	2.97	3.1	OVCITIOW
PEAK WWTC FLOW			85.66	71.9	67.28	
# OF OVERFLOWS	1	1	3	1	2	1
MH LOCATIONS	H5-021-90	1H-012	1M-049 1M-050 2D-001	1M-049	1M-049 2D-001	FMCL-001

# OF BACKUPS 1 0 8 1 1230 75th

4129 Washington 1129 Barberry 115 S. Grant 117 S. Grant 5604 Carpenter 200 S. Lincoln 5436 Cumnor 1928 Curtiss 122 S. Lincoln

DATE OF EVENT	10/31/2013	4/18/2013	3/10/2013	8/26/2012	2/21/2012	6/9/2011
PRECIP FOR 24 Hrs	2.46	4.67	1.02	3.4	N/A	2.49
PRECIP FOR 3 PREVIOUS DAYS	0.65	2.59	0.4	0	Dry Weather Overflow	0.27
10- day rainfall	3.2	8.61	1.52	3.7		2.95
PEAK WWTC FLOW	75.19	116	74.79	73.26	N/A	77.56
# OF OVERFLOWS	1	?	1	0	1	6
MH LOCATIONS	1M-049	1M-049 H4-088 2C-089-1 G1-012 1H-005 2D-001 1K-049 2A-011-A 2E-023 unable to verify all locations due to surface flooding	1M-049		1H-012	1M-049 H1-003* H1-004* H1-005* 2D-001 1K-049 * Lift Station Failure
# OF BACKUPS		269	1	1	1	3
		124 N. Lincoln 5505 Dunham 4717 Main 5505 Fairview 1928 Curtiss 4936 Francisco 17 W. Naperville 6021 Grand 4832 Saratoga 6035 Dunham 3840 Florence 5320 Benton 5300 Blodgett 6941 Lyman 4535 Elm 130 N. Williams 6121 Carpenter 5236 Fairmount 917 Blanchard 301 55th 4915 Washington 3944 Main 1130 Franklin 4823 Prince 3946 Elm 1925 Prairie 3524 Saratoga 123 N. Washington 1141 Valley View 4710 Saratoga 200 S. Grant 4945 Highland 5235 Fairmount 428 S. Cass 5310 Lyman 1424 62nd 6133 Dunham 2045 Prairie 2035 Prairie	117 S. Grant	1129 Barberry	310 Otis	5701 Webster 4111 Roslyn 1165 Barberry

### MANHOLE OVERFLOW AND SEWER BACKUP HISTORY -

### DOWNERS GROVE SANITARY DISTRICT - OVERFLOW BACKUP HISTORY

DATE OF EVENT	5/25/2011	3/5/2011	1/31/2011	12/31/2010	12/14/2010	8/3/2010
PRECIP FOR 24 Hrs	N/A	N/A	N/A	0.89	N/A	1.65
PRECIP FOR 3 PREVIOUS DAYS	Dry Weather Overflow	Dry Weather Overflow	Dry Weather Overflow	0.55	Dry Weather Overflow	1
10- day rainfall				1.46		4.65
PEAK WWTC FLOW	N/A	N/A	N/A	52.38	N/A	73.52
# OF OVERFLOWS	1	2	1	0	1	1
MH LOCATIONS	V3-049	V-4-112 V-4-060	1H-055		L1-051	1M-049

1 1 405 Grant 1129 Barberry # OF BACKUPS 3840 Florence 3831 Florence

DATE OF EVENT	7/24/2010	6/23/2010	6/2/2010	5/10/2010
PRECIP FOR 24 Hrs	2.86	0.97	1.95	N/A
PRECIP FOR 3 PREVIOUS DAYS	0.79	0.59	1.26	Dry Weather Overflow
10- day rainfall	3.65	2.07	3.61	OVCILIOW
PEAK WWTC FLOW	88	71	92.98	N/A
# OF OVERFLOWS	6	1	5	1
MH LOCATIONS	1M-049 1H-012 1H-005 1H-004 1K-049 G4-004-A	1M-049	1M-049 2D-001 1K-046 2A-011-A G1-012	1D-062

# OF BACKUPS 4 0

 4032 N. Grant
 5533 Washington

 4020 Liberty
 335 S. Park

 3941 Main
 115 S. Grant

 4031 N. Grant
 109 N. Williams

DATE OF EVENT	10/30/2009	8/28/2009	3/8/2009	2/26/2009
PRECIP FOR 24 Hrs	1.32	N/A	2.21	2.46
PRECIP FOR 3 PREVIOUS DAYS	0.78	DRY WEATHER OVERFLOW	1.34	0.13
10- day rainfall	4.81		6.04	3.02
PEAK WWTC FLOW	71.05	N/A	83.04	92.57
# OF OVERFLOWS	2	1	12	6
MH LOCATIONS	1M-049 G1-012	н3-002-2	1M-049 H1-004 H1-005 1H-005 1K-049 G1-012 G1-015 2A-011-A 1M-056-A G4-004-A C1-009 H6-050	1M-049 H1-004 H1-005 1H-005 1K-049 L1-001
# OF BACKUPS	2	0	39	18
	4727 Fairview 4715 Fairview		1922 A Curtiss 1224 Brookside 917 Chicago 100 Chicago 221 Chicago 1924 Curtiss 1926 Curtiss 4132 Elm 5729 Fairmount 1441 Golden Bell 301 Indianapolis 231 James 235 James 5548 Lyman 5549 Lyman 5549 Lyman 5549 Lyman 6549 Lyman 4009 N. Washington 123N. Washington 420N. Washington 420N. Washington 4101SN. Washington 4101SN. Washington 415N. Washington 415Prairie 4151Roslyn 1178. Grant 335S. Park 1125Sixty Second PL 1020Sixty Second PL 1020Sixty Second PL 1043Sixty Second PL 105 Sixty Second PL 105 Sixty Fifth PL 105 Sixty Fifth PL 106 Sixty Fifth PL 107 Sixty Fifth PL 108 Fifty Fifth St 108 Fifty Fifth St 108 Sixty Second 119 Sixty Fifth PL 109 Fifty Fifth St 109 Sixty Fifth PL 109 Fifty Fifth St 109 Sixty Fifth PL 109 Fifty Fifth St 109 Sixty Fifth St 109 Sixty Fifth PL 109 Fifty Fifth St 109 Sixty Fifth St 109 Sixty Fifth PL 109 Fifty Fifth St 109 Sixty Fifth PL 109 Sixty Fifth St 109 Sixty Fifth St 109 Sixty Fifth PL 109 Sixty Fift	616 Rogers 125 Eight 212 Lincoln 335 S. Park 101 N. Park 430 Rogers 100 Chicago 1240 Gilbert 221 Chicago 521 N. Park 307 N. Washington 420 N. Washington 1125 Barneswood 115 S. Grant 5436 Cumnor 1924 Curtiss 4004 Washington 200 W. Chicago

YEAR		2019 2019	2017	2016 2015	2014	2013 201	2 2011	2010	2009	2009	2007	2006	2005	2004	2002	2002	2001	2000	1999	1999	1997 1996	1995	1994	1002	1992	1001	1990	1999	TOTALS	AUPPACEC
		2017 2010	2017	X010 2013	2014	2013	2011																							
NUMBE	OF EVENTS	7 3	5	4 3	8	4	2 4	7 5	4 3	9	4 3	9 7	5	7 5	3	11 3	2	4	11	8	2 3	6	4	5 5	2	3	4	0	155 110	5.0 3.5
	RY WEATHER	2 2	3	1 2	2	1	1 3	2	1	3	1	2	2	2	1	8	0	3	3	2	0 0	0	0	0	0	0	0	0	47	1.5
TOTAL	PRECIPITATION	56.22 44.57	42.23	42.28 38.93	39.04	47.21 26.1	6 43.13	40.11	45.1	47.45	36.06	47.08	26.1	37.31	32.63	29.23	33.98	33.98	31.38	45.05	34.18 37.50	29.87	33.03	40.83	30.34	39.06	43.12	25.19	$\rightarrow$	38.01
				1 1	_											-						1				1				
$\vdash$																						-							$\rightarrow$	$\vdash$
MANHO	E OVERFLOWS																													
H	M-050 -M-49	2 1		2 1	1	2	,	4	3	6	2	7	2	5	2	2	2	1	8	6	2 3	5	2	5	2	3	4		94	4.95
	-C-89-1	1	3	2 1	3	1	1				3			3	3	3	1	1			1 3	5	1	5	2	2	2		24	1.26
$\vdash$	-H-5	1 1	1			1	,	1	2	2		1				1	1	1	3	2	1 2 1 3			2		1	2		24	1.26
	-K-49 -H-4	1 1	1			-	1	1		2		1				1	1	1	2	1	1 2	2		2		2	2		26 18	1.37
	-1-4 -H-12		1				1		2	5		1	1	1	2	1	1		1	2	1 2	2			-	1	2		27	1.42
	-H-12 :-C-115 :-D-1	1	1			1		1		1		1		1		1	1	1	4	2	1 1	2		2	2	2	2		18 13	0.95
$\vdash$	-D-1 -4-4A	5 1	4	1 1	2	1	1	1		1 1	2	5	1	5		2	2	1	2	2	1 2	1			-				3.5 9	1.84
	-G-14							1	1	1							2				1 1	1		1			2		5	0.47
$\vdash$	-H-36				-		-														1	-			-	1	2		4	0.21
	- C - 8 0 - 1 - 3						1					1					1			,	1					1	2		6	0.21
	- 4 - 4 - 4 - 6		1	-			-			-							1			1	1 1	-			-				7	0.26
	-6-1									3							1			2	1 1 1 1								5	0.37
	-A-128 -L-19		$\vdash$	+			1									-					1 1	+ -	$\vdash$				1		3	0.16
																					1 2						1		3	0.16
H	-N-67 -A-11A		1	+ $T$	<u> </u>	1	+	1		2				H ==		-	1				1 1	+	$\vdash$		1	I .			8	0.42
	-F-28A -G-16																				1					1	2		3	0.16
	-1-23 (DWO) -4-5				_		+									2	,			1	1		H =		1				3	0.16
	-4-7									1							1			1									4	0.16
	-4-88		1	+ $T$	<u> </u>	1	+	$\vdash \exists$		3				H ==						1	1 1	+	$\vdash$		1				8	0.42
	-B-25 (DWO) -B-25B (DWO)															2													2	0.11
	-B-93 -A-18 (DWO)						-														1	+ -	$\vdash$		_		1	-	2	0.11
	3 10 (DMO)																	1	1										2	0.11
H	-A-19 (DNO) -A-20 (DNO) -D-40-1 -F-10			$+$ $\top$			+ -	$\vdash \exists$						H ==		$ \mp$		1	1			+ =	H .						2	0.11
	-B-40-1 -F-10			1															1		1		1	1					3	0.11
	-1-12 -5-5	1	1			1		1	1	1											1 1	1			_		2	-	7	0.37
	-1-5		1				1		2	5	1		1	1							1 1						_ Z		2 14	0.11
	- 4 - 3 - 6 - 2		<del>                                     </del>		<del></del>		+	$\vdash$											1	1	, ,	1		-	<del>                                     </del>				2	0.11
	-1-109		1																		1 1					1			3	0.16
	ENARD PS FM		<del>                                     </del>		<del>-</del>		1	$\vdash$						1		1		1			<del> </del>	1			<del>                                     </del>			$ \overline{1}$	3 2	0.16
	-A-21 (DWO) -B-63															-				1									1	0.11
	-B-65 -C-65		<u> </u>		<del>                                     </del>		+													1		1		-	<del>                                     </del>	1			1	0.05
	-D-25-1 (DWO)															1										1			1	0.05
	-F-3		<del>                                     </del>		_		1	$\vdash$													<del> </del>	1			1	1	<u> </u>	$ \overline{1}$	1	0.05
	-G-17 -H-1						1														1					_			1	0.05
	-H-6 -K-46 (DWO)	1	<del>                                     </del>				+	,			<del></del>			-		1					<del>                                     </del>	+	<b>-</b>		1	-	1		2	0.05
	-L-19-1																										1		1	0.05
$\vdash$	-M-14 -N-44 (DWO)			<del>      -</del>	1		+							<b>-</b>	,	-	1				<del>                                     </del>	1			1				1	0.05
	-3-11		1				1					1															1		3	0.16
$\vdash$	-A-11A -A-56 (DWO) -C-106A				1		1	$\vdash$	1		<del>                                     </del>	1		<b> </b>		-+			1		<del>                                     </del>	+			1				3	0.16
	-C-106A																1												1	0.05
_	-C-81 -E-23		<u> </u>			1	+				<b> </b>			-	1						<del>                                     </del>	+	<b> </b>		1	<del>                                     </del>	1		1 2	0.05
	-E-39																				1								1	0.05
$\vdash$	-E-40 -F-11		<del>                                     </del>	1	1		1							<b> </b>		-			1		1	+	<b>-</b>		1	<b>†</b>			2	0.05
	-F-12																		1										1	0.05
H	-G-21 -1-6 (DWO)		L				$\pm$									+				1	1	<u> </u>				<u> </u>			1	0.05
	-1-6A (DWO)																			1									1	0.05
	:-1-7 (DWO) :1-038-1 (DWO)		1				$\pm$									+				1									1	0.05
	-1-24-2 (DWO)												1			$\neg$						-							1	0.05
	1-009 -1-27 (DWO)						$\perp$		1									1											1	0.05
F	-1-15 -1-24				F																					1			1	0.05
	-1-25 (DWO)						$\pm$					11_														1			1	0.05
	-1-15		1		1				1												1				1				2	0.11
	-2-35 TO G-2-63 -4-6						$\pm$									+			1						$\perp$		1		1	0.05
	-5-12																										1		1	0.05
H	-5-51 -5-6				L		$\perp$																				1		1	0.05
H	-5-7 -5-8				1																1				1				1	0.05
	-5-80						$\pm$									+				1	1				$\perp$				1	0.05
F	-6-2 (DWO)				F								1																1	0.05
	:-6-2 (DWO) :-3-49 :-4-1						_													1	1								1	0.05
	-4-2																			1									1	0.05
	-7-33-3 -1-110		<del>                                     </del>		<b>!</b>		+									+					1	+			1	<b> </b>			1	0.05
	-1-111																				1								1	0.05
	1-051 (DWO) -1-50				-		+ -	1						-							<del>     </del>	1	<b> </b>		+	١,			1	0.05
	-1-55																1									_			1	0.05
	-1-9 -1-10		$\vdash$	+-	<del>                                     </del>		+	$\vdash$			<del></del>	<del></del>		-		-					1	+		-	+	<del>                                     </del>	1		1	0.05
	1-1-13																				1								1	0.05
$\vdash$	(-1-7 (-1-9 (DWO)		H-	$\vdash$	<u> </u>		+									,						_				<del>                                     </del>	1		1	0.05
	-1-2 (DWO)				_		_																		1					U.05

1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	11 1990 1989 TOTALS AVERAGES  1 0 0.95 2 2 9.11 1 1 0.05
County   C	2 0.11 2 0.11 1 0.05 1 0.05 1
Part	2 0.11 2 0.11 1 0.05 1 0.05 1
Exchange	1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1
1	1 0,05 1 1 0,05
13-13-14 13-14 13-14	1 0.05 3 0.15 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 1 0.05 1 0.05 1 1 0.05
5 1.512   1   1   1   1   1   1   1   1   1	3 0,15 1 0,05 1 1 0,05
St. 951.99   St.	1 0.05 1 0.05 1 1 0.05 1 1 0.05 1 0.05 1 0.05 1 0.05 1 1 0.05
May 1921-1961   May 1921-196	1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 1 0.05
1 1 - 1	1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 0.05 1 1 0.05 1 1 1 1 1 1 1
\$1-072 (992)	1 0.05 1 0.05 1 0.05 1 0.05 1 1 1 1
\$1-072 (992)	1 0.05 1 0.05 1 1 1 1
19-042 (1920) 19-045 (1920) 19-1048 19-1049 (1920) 19-1048 19-1049 (1920) 19-1049	1 1 1 1 1
V1-049	1 1
New	1
24-037 (DMO) 24-072 (DMO) 1 1	
1M-014   1   1   1   1   1   1   1   1   1	1 1
AA-019 (DR0) A1-014 (DR0) A1-01	1
An-014 (DMO)	1
SYME ALCOPS  214 3ED  214 3ED  315 4EE  31 5T 5EE  32 7EE  33 15 EE  33 15 EE  34 2EE  35 1 EE  36 1 EE  37 1 EE  38 1 EE  39 1 EE  30 1 EE  30 1 EE  31 1 EE  31 1 EE  32 1 EE  33 1 EE  34 1 EE  35 1 EE  35 1 EE  36 1 EE  37 1 EE  38 1 EE  38 1 EE  39 1 EE  30 1 EE  30 1 EE  30 1 EE  31 1 E	
SYME ALCOPS  214 3ED  214 3ED  315 4EE  31 5T 5EE  32 7EE  33 15 EE  33 15 EE  34 2EE  35 1 EE  36 1 EE  37 1 EE  38 1 EE  39 1 EE  30 1 EE  30 1 EE  31 1 EE  31 1 EE  32 1 EE  33 1 EE  34 1 EE  35 1 EE  35 1 EE  36 1 EE  37 1 EE  38 1 EE  38 1 EE  39 1 EE  30 1 EE  30 1 EE  30 1 EE  31 1 E	38 0 431 25.35
234 3RD  234 3RD  133 4YR  133 5 kh  14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
13   47H	
Name	
326 67H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05
326 67H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05
144 67H 125 87H 1	1 0.05
327 87K 3104 38ch 3115 38ch 1 3115 38ch 1 31 31 31 31 31 31 31 31 31 31 31 31 31 3	1 0.05
3115 38th 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05
3115 38th 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05 1 0.05
34 W SSTH PL	1 0.05
34 W SSTH PL	1 0.05 1 0.05
I have resulted	1 0.05
38 % SSTH PL	2 0.10 1 0.05
118 55T8 ST 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 0.20
113 5578 57 122 5578 57	1 0.05 1 0.05
122 SSTH ST 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05
201 SSTH ST 1	1 0.05 1 4 0.20
221 SETH ST 1 24 SETH ST 1 1106 COTH DI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05
1106 GOTH 72.	1 0.05
1122 SOTH ST.	1 0.05
1110 60TH ST 1	1 0.05
\$1. 6187 ST 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 0.10 1 0.05
33. 6187 ST 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05 1 4 0.20
1040 62ND PL 1	1 0.05
1108 SAND PL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 0.25 1 0.05
111 (200 2)	1 0.05
1213 62ND PL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 0.15 1 2 0.10
119 52nd 9L	1 0.05
1133 67MD PL 1501 62MD ST	1 1 0.05 2 2 0.10
550 5280 8T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05 1 3 0.15
740 62ND ST	1 0.05
1418 (200 ST ) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05
1430 62ND ST	1 0.05
1513 638D ST 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.05 1 0.05
741 6778 87	1 0.05
12 N ADMS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05
3902 M Mans 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 0.10
4112 K Mans 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 0.15
\$312 NAMES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05 2 0.10
4025 N ADAMS	1 1 0.05
4100 H Adams 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05 1 0.05
113 S Adams	1 0.05
210 S ADAME	1 1 0.05 1 1 0.05
AGE AUGUSTS	1 0.05
\$7 AUGUS \$13 AGREENT CT \$133 AGREENT CT \$1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.05 1 0.05
1129 BARBARRY CT	
1165 Barberry C7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.05
4507 Belmont	0
4813 REMOTE  5213 REMOTE  1 1 1	
\$128 BENTON 1 1 1 5256 BENTON 1 1	1 0.05 1 0.05
12.2 SERTUR	1 0.05

YEAR			2019 2018	8 2017	2016 201	5 2014	1 2013 20:	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	TOTALS	AVERAGES
	5440 BLODGETT 1711 BOLSON																					1	1						1		2	0.05
	1721 BOLSON																					1									1	0.05
	1740 BOLSON 5601 BROOKBANK					+																1	1								1	0.05
	5609.5 BROOKBANK 5943 BROOKBANK																						1								1	0.05
	5943 BROOKBANK 6001 BROOKBANK					+					1									1		1									2	0.10
	6005 BROOKBANK									-										1											1	0.05
	1224 Brookside 4925 BRYAN PLACE			1		+															1										1	0.05
	4925 BRYAN PLACE 5720 BUCK CT																						1								1	0.05
	5724 BUCK CT 431 BUNNING					+																	1						1		1	0.05
	26 W BURLINGTON																						1								1	0.05
	6811 CAMDEN 6843 CAMDEN					+																	1								1	0.05
	6849 CAMDEN																						1								1	0.05
	1061 Candlewood 19W744 CAROL			1		+							1												1				1		2	0.05
	19W750 CAROL																				1	1	1								3	0.15
	19W758 CAROL 19W775 CAROL	_				+	+ + + -															1	1						1		3	0.15
	5226 Carpenter			-									1																		1	0.05
	5600 CARPENTER 5604 CARPENTER					1	+ + + -	_					1										1								2	0.10
	5944 CARPENTER 6040 CARPENTER			-																		1									1	0.05
$\vdash$	6121 CARPENTER					$\pm$		$\perp$			1												1								1 2	0.05
	6121 CARPENTER 8 N CASS			$\perp$																		1									1	0.05
	18 N CASS 38 N CASS 118 N CASS					$\perp$												1					1								1	0.05
$\vdash$	118 N CASS			$\perp$											_							1									1	0.05
E	132 S CASS 122 S. Cass			1		$\perp$					1											1	1								3	0.15
	128 S CASS 250 N CASS			$\perp$																				1							1	0.05
L	340 S.Cass								2										1		1								1		3	0.15
	428 S CASS			1				1			1						$\neg$					1									2	0.10
L	4010 N CASS 100 Chicago			上一		<u> </u>		$\perp$		2						$\vdash$	+	1	1		1	1									3	0.20
	200 CHICAGO																												1		1	0.05
$\vdash$	200 CHICAGO 221 Chicago 238 Chicago			1		$\pm$																									2	0.10
	300 CHICAGO																						1			1		1			3	0.15
	301 CHICAGO 307 CHICAGO			$\pm$		$\pm$		$\pm$			1						+	2	1												2	0.10
	321 CHICAGO 327 CHICAGO																					1									1	0.05
	645 CHICAGO			$\pm$		$\pm$																	1								1	0.05
	721 CHICAGO																					1									1	0.05
	733 Chicago 737 CHICAGO	_		1		+	+	+								<del>   </del>		1													1	0.05
	752 Chicago			1									1																		1	0.05
E	832 CHICAGO 904 CHICAGO 917 Chicago			$\pm$		$\pm$		$\pm$									+	1				1									1	0.05
	917 Chicago									1																					1	0.05
H	926 CHICAGO 2033 CHICAGO			上一		$\pm$		$\pm$			1						+												1		2	0.05
	926 CHICAGO 2033 CHICAGO 136 W CHICAGO 200 W CHICAGO																											1			1	0.05
$\vdash$	200 W CHICAGO 208 W CHICAGO					$\pm$		$\perp$		1	1										1	1	1					1			5 1	0.25
	208 W CHICAGO 912 CLAREMONT 4834 Cornell			$\perp$		H			-								$\neg$						1								1	0.05
	630 CRESCENT					+																	1								1	0.05
	11 N CUMNOR												1										1								2	0.10
$\vdash$	4637 CUMNOR 5140 Cumnor			$\perp$		+					-												1								1	0.05
	5201 CUMNOR 5335 Cumnor																	1													1	0.05
<b>H</b>	5340 CUMNOR	_		+		+		1					1			<del>     </del>	-												1		1	0.05
	5340 CUMNOR 5400 CUMNOR 5436 CUMNOR			-														1													1	0.05
L	5436 CUMNOR 5507 CUMNOR					1				1								1			1		1								2	0.10
	5507 CUMNOR 5510 CUMNOR																						1								1	0.05
	5525 CUMNOR 5600 CUMNOR																				1	1							1		3	0.05
$\vdash$	1 N CUMNOR 805 CURTISS 1008 CURTISS	-+		+	+	+	+	_								$\vdash$	-												1	-	1	0.05
	1008 CURTISS																					1									1	0.05
$\vdash$	1900 CURTISS 1917 B Curtiss	$-\Gamma$		1		_	$+$ $\Gamma$	+ -								$\vdash \exists$	$ \mp$					1	-							-	1	0.05
	1922 A Curtiss			Ĺ						-																					1	0.05
	1924 Curtiss 1926 Curtiss			$\mathbf{F}$			+ $            -$	+		2						$\vdash$	-														2	0.10
	1928 Curtiss			1		1		$\pm$									+														2	0.10
	5525 Dunham												1																		2	0.10
$\vdash$	5445 DUNHAM 5513 DUNHAM 5525 DUNHAM			+	<del>                                     </del>	+	+					<b> </b>				<del>                                     </del>										,			2		2	0.10
	5525 DUNHAM																												1		1	0.05
	4107 EARLSTON 4008 ELM	_		+		+		1					$\vdash$			<del>     </del>	-					1						1			1	0.05
	4132 ELM 4505 ELM									1								1													2	0.10
	4516 RIM			上一		<u> </u>		$\pm$									+	1										1			2	0.10
	4525 ELM																		1												1	0.05
$\vdash$	4525 ELM 4601 ELM 4605 Elm	-+		+		+	+	+				<b>—</b>	1			+	$\rightarrow$	1											1		2	0.10
	4613 ELM																					1									1	0.05
$\vdash$	4625 ELM 5325 FAIRMOUNT 5729 Fairmount			+		+	+	+				-				<del>     </del>						1							1		1 2	0.05
	5729 Fairmount									'												-							-		1	0.05
H	6201 FAIRMOUNT 6204 Fairmount			+				+ -			-		1																1		2	0.10
	6213 Fairmount										-																				1	0.05
	6561 FAIRMOUNT			1		$\perp$											$\neg$									1					1	0.05
	3700 FAIRVIEW 4507 FAIRVIEW			1									1					1			1	1							1		4	0.20
	4515 FLORENCE																									1					1	0.05

_			_		_		_														_				_	_		-	
YEAR		2019 2018	8 2017	7 2016 201	5 2014	2013 201	2 2011	2010	2009	2008	2007	2006 20	05 200	0.4	2003 2002	2001	2000	1999	1998	1997 199	1995	1994	1993	1992	1991	1990	1989	TOTALS	AVERAGES
	4611 Fairview 4621 Fairview		1																										
	4621 Fairview 4643 FAIRVIEW		+	+ +	+		+						_	-+		-				,	+		2					3	0.05
	4647 FAIRVIEW																1			1			2			1		5	0.25
-	4700 FAIRVIEW		-	-	-		_							_		-									1			2	0.05
	4700 FAIRVIEW 4715 FAIRVIEW 4727 Fairview								+																			1	0.10
	4732 FAIRVIEW																		1						2	1		5	0.25
	4728 FAIRVIEW 5501 Fairview	,	,	+ +	+		+							-					1	1								2	0.10
	4737 FLORENCE	-														1												1	0.05
	4809 FLORENCE															1										2		3	0.15
	5021 FLORENCE 5325 FLORENCE		+		1		+							_											1	1		1	0.05
	5325 FLORENCE 3937 FOREST															1										1		2	0.10
	4820 FOREST		+	+ +	-		+							-						1 1	_					1		2	0.10
	4820 FOREST 4811 FOREST 4820 Forest									1		1														•		2	0.10
	4929 FOREST 7001 Foster		,							-						1												1	0.05
	7001 FOSTER		1	+ +	+									-						1								1	0.05
	7020 FOSTER 419 FRANKLIN																			1 1								2	0.10
	813 FRANKLIN 819 Franklin		+	+ +	+		+			-			_	-												1		1	0.05
	831 FRANKLIN															1												1	0.05
	1122 FRANKLIN		+	+	-	<del>                                     </del>	_							_		1					_							1	0.05
	1125 FRANKLIN 1115 GILBERT													士					ī							1		1	0.05
F	1115 GILBERT 326 Gierz 1240 Gilbert		1		$\perp$									$\equiv$															
	1307 Gilbert		+		+		+			-1				-			<del>                                     </del>					_						2	0.10
	1310 Gilbert									1																		1	0.05
H	1331 GILBERT 1441 Golden Bell		+-				1									<b>_</b>	$\vdash$				+ = =					1		1	0.05
	5143 Grand		1		+	<del>                                     </del>	+						-	-		<del>                                     </del>					+							1	0.05
	5929 Grand											1																1	0.05
$\vdash$	213 GRANT		+	+ + -	+		+ -						_	+		<u> </u>	$\vdash$			1 1	+					1		3	0.15
	229 GRANT 405 Grant		┸	<u></u>	<u> </u>		1																					1	0.05
	739 GRANT 123 N Grant																			1						1		2	0.10
	504 N GRANT			1 -	+																					1		1	0.05
	513 N GRANT 520 N GRANT																									1		1	0.05
$\vdash$	520 N GRANT 4008 N GRANT		+	+	+		1						_	+		-	$\vdash$			1 .	+				-		-	1 3	0.05
	4010 N GRANT		1															1		1								2	0.10
	4017 N Grant 4023 N Grant		-			$\perp$											-											1	0.05
	4031 N Grant		+	+ +	+	<del>                                     </del>	+			-				-														1	0.05
	105 S GRANT 111 S GRANT																			1 1								2	0.10
$\vdash$	111 S GRANT	,	,	1,	1		+		,					+		-	$\vdash$			1	-		1					1 2	0.05
	111 S GRANT 115 S GRANT 117 S Grant 123 S GRANT	-	1	1	1	1			1											1								4	
$\vdash$	123 S GRANT		+				1												1									1	0.05
	126 S GRANT 238 S GRANT													土		1				. 1								1	0.20
	1231 GREGORY 3471 Hickory		+	$+$ $\top$	+		1					,		$-\mathbb{F}$		$\vdash$				1	+					$\vdash \exists$		1	0.05
	3471 Hickory 3905 HIGHLAND		$\pm$		$\pm$		_					1		_									1					1	0.05
	3928 HIGHLAND									1						1												2	0.10
	3932 HIGHLAND 3940 HIGHLAND		+	+ +	+		1						_	+		1	1		1 1	1	+							3	0.15
	4236 HIGHLAND																			1								1	0.05
	4435 HIGHLAND 4943 Highland		,		+	_	+							+		-				1	+							1	0.05
	4943 HIGHLAND 5021 HIGHLAND 420 Hill		Ť																	1								1	0.05
$\vdash$	420 Hill 1447 HILLCREST		+	+ + -	+		1			- 1				-		-	1				-						-	1	0.05
	1447 HILLCREST 1507 HILLCREST 1519 HILLCREST													士		1				1								1	0.05
H	1519 HILLCREST				$\perp$		_							=												1		1	0.05
	5733 HILLCREST 6540 HILLCREST						$\pm$							_					1	1								1	0.05
	6550 HILLCREST									2				T					1	1 1								3	0.15
$\vdash$	1160 Hobart 23 N HUDSON		+	+ +	+	<del>                                     </del>	+			,				-		<del> </del>	<del>                                     </del>			1								2	0.10
	120 N HUDSON																1											1	0.05
	131 N HUDSON 135 N HUDSON		+	+ +	+	+ + -	+			1			_	+		<del>                                     </del>	+			1	+			<b>-</b>				2	0.10
	145 N HUDSON																			1								1	0.05
$\vdash$	135 M HUDSON 31 S HUDSON 215 S HUDSON 317 S HUDSON		+	+	+		1						_	-		١,	$\vdash$		1		+						-	1	0.05
	317 S HUDSON															1				1						1		2	0.05
	318 S HUDSON		+		+		1									<u> </u>	$\vdash$		1		_					<b>—</b>		1	0.05
	324 S HUDSON 330 S HUDSON						$\pm$							_					1							1		1	0.05
	336 S HUDSON													T					1	1 1								3	0.15
$\vdash$	337 S HUDSON 340 S HUDSON		+	+ +	+		+							+			<del>                                     </del>		1	1	+							1	0.05
	340 S HUDSON 301 Indianapolis								-																				0.00
$\vdash$	231 James 235 James		+	+ + -	+		1		1					+		-	$\vdash$				-						-	1	0.05
	244 JAMES				土					11						11												2	0.05
$\blacksquare$	244 JAMES 248 JAMES DR 256 JAMES DR 821 Jay 901 JAY			$+\Box$												-	1			1								1	0.05
$\vdash$	256 JAMES DR 821 Jay		+		+		+			-1				-			$\vdash$			1								1	0.05
	901 JAY																			1								1	0.05
	1200 Jellerson		+-	+	+	$\vdash$	1						_	-		H	$\vdash$		<b>—</b>		+				$\vdash$	$\vdash$		1	0.05
L	1320 JEFFERSON 1508 JEFFERSON		$\pm -$		$\pm -$									_		<u> </u>				1	$\perp$						+	1	0.05
	835 KENYON 5316 LANE PL																			1								1	0.05
$\vdash$	5316 LANE PL 4607 LEE		+	+ + -	+	_	+						-	+		<del>                                     </del>	<del>                                     </del>			1	+							1	0.05
	3911 N LIBERTY																			1						1		1	0.05
	3915 N LIBERTY 4020 N Liberty		+-	+	+-	$\vdash$	1 -			-				$ \vdash$		<del>                                     </del>	$\vdash$		<b>—</b>		_				$\vdash$	1		1	0.05
	212 LINCOLN		$\pm$		$\pm$				1					$\pm$						1								2	0.05
	29 N LINCOLN 101 N Lincoln													_						1								1	0.05
	101 N Lincoln		+	+ +	+	+ + -	+					1		+		-				1	+			l			-	1	0.05

MH OVERFLON SEWER BACKUP SUMMARY - 1989 THRU 2010

13																													
13		2019 2018	2017	2016 2015	2014	2013 2012	2011	2010	2009	2008	2007	2006 2	005 200	2003	2002	2001	2000 1	999	1998	1997 199	1995	1994	1993	1992	1991	1990	1989	TOTALS	AVERAGES
13	2 N LINCOLN		1																1									1	0.05
	8 N LINCOLN		1															_		1								1	0.05
13	9 N LINCOLN		-												+ +					1	_	-						1	0.05
20	8 N LINCOLN 6 N LINCOLN		1		+		+		+				1	+	+ +		<del>                                     </del>	+	-	-	+	+	<u> </u>	<del>                                     </del>				1	0.05
23	5 N LINCOLN																									1		1	0.05
24	1 N LINCOLN 5 N Lincoln																									1		1	0.05
												1		_	+ +						_	-						1	0.05
39	26 N Lincoln		1	_	+									+	+ +	-		-+	-	1	_	+					-	_	0.10
39	28 N LINCOLN 30 N LINCOLN																			1						1		2	0.10
4.0	01 N LINCOLN																			1								1	0.05
4.0	02 N LINCOLN		-											_	+ +					1	_	-						1	0.05
	03 N. Lincoln 21 N LINCOLN		-		_							1						_		_	_	<u> </u>				,		1	0.05
40	31 N LINCOLN																			1								1	0.05
12	31 N LINCOLN 2 S Lincoln				1																								
13	0 S Lincoln 3 S LINCOLN			1																									
	6 S LINCOLN											1		_				-	_		_	-						3	0.15
13	6 S LINCOLN				1										+ +			-+	1	1						,		2 2	0.10
20	0 S LINCOLN 0 S Lincoln				1															*									0.10
21	4 S LINCOLN																									2		2	0.10
31	1 S LINCOLN 45 LINDLEY																	-	1		_	-						1	0.05
41	45 LINDLEY		-																	1 ,								1	0.05
49	20 LINSCOTT																	二		1								1	0.05
49	20 LINSCOTT 20 LINSCOTT 24 Linscott							1						$\perp$	$\Box$							-							
53	09 LYMAN 36 Lyman		1		+		+		1				-	+	+			+		1	+	+	-	-	-			1	0.05
55	44 Lyman		<del>                                     </del>		1				1					1 -	1 1			-	-	_	1	<del>                                     </del>						1	0.05
5.5	48 Lyman								1																			1	0.05
5.5	49 Lyman																											1	0.05
5.7	08 Lyman		$\vdash$		1		1			- 1					+			[	Ţ			_					Ţ	1	0.05
61	27 LYMAN	<b></b>	1		+		+					<del>                                     </del>		+	+			-+	$\rightarrow$	1	+-	+	<del>                                     </del>	-	$\vdash$			1	0.05
61	30 LYMAN 35 LYMAN				1									1	+ +			-	-	1	1	<del>                                     </del>				1		2	0.05
6.2	37 LYMAN																			1								1	0.05
6.9	41 Lyman		1		1		1								+			[	Ţ			_					Ţ	1	0.05
39	37 MAIN 41 Main		-	$\vdash$	+		1			-		<del>                                     </del>		1	+ +			+		1	+	+	-	-		1		2	0.10
41	01 MAIN		$\vdash$		1				-					+	1 1			-	-	1	1	<del>                                     </del>	<b>t</b>					1	0.05
41	01 MAIN 25 MAIN 22 MAIN 13 Main																								1			1	0.05
5.5	22 MAIN				$\perp$										$+ \Box$				$\Box$			$\perp$			$\perp$	1		1	0.05
57	13 Main		1	<del> </del>	+		1		-					1	+ +			+	+		+	+	-	-		1		3	0.15
63	22 MAIN 1 MAPLE				1									1	1 1			-	-	1 1	1 -	1				1		1	0.15
64	3 MAPLE 1 MAPLE																			1						1		2	0.10
7.3	1 MAPLE		<u> </u>		1		1						_		<b></b> ∓						1	1			$\vdash$	1		1	0.05
8.4	7 MAPLE 17 MAPLE 49 MAPLE		1		+				-					+	+ +	1		+	-	1	+	1		<b>—</b>				1	0.05
12	49 MAPLE																									1		1	0.05
13	25 MAPLE																	$\exists$		1								1	0.05
6.9	12 MEADOWCREST		-		_		1	1					_		+			+		1	+	_	<u> </u>					1	0.05
5.5	13 MIDDAUGH 100 MIDHURST 10 W Naperville		<del>                                     </del>		+		+							+	+ +			+	,	- t	+	1	-	-	1			1	0.05
25	0 W Naperville											1							_		上							1	0.05
31	3 W NAPERVILLE													1 -						1						1		2	0.10
18	30 NORTHBRIDGE		-		+		-							+	+ +			+		1	+	+	-	-				1	0.05
47	05 NORTHCOTT 21 NORTHCOTT		<del>                                     </del>		1									1 -	1 1			-	-	_	1	<del>                                     </del>				1		1	0.05
47	25 NORTHCOTT 31 OAK HILL RD																									1		1	0.05
12	31 OAK HILL RD				_										$\perp = 1$	1						_						1	0.05
45	10 OAKWOOD 0 Ogden		<del>                                     </del>		+ -		1		1				_	+	+ +		<del>                                     </del>	+	-+	1	1-	1	<b>-</b>	<b>—</b>				1	0.05
60	17 OSAGE																									1		1	0.05
31	17 OSAGE 0 Otis					-																							
3.2	7 OTIS		1	-	1		1								1			<b>—</b> Г	T		1	1			1			1	0.05
94	4 OXFORD	<b></b>	+	<del> </del>	1	<del>                                     </del>	1					<b></b>		-	+ +	1		-+	-+	1	+	+	<del> </del>	-				1	0.05
14	50 PALMER		1		<u> </u>					2									1	1 1			<u>L</u>			2		7	0.35
53	50 PALMER 37 PARK 23 Park																	$\neg$		1								1	0.05
5.4	23 Park		_		_		1	<b>—</b> I				1	_		+			-				1	-	_	$\vdash$			1	0.05
10	12 PARK 1 N Park		+		+		+ -		-					+	+ +			-+	-+	1	+	+	<del>                                     </del>					1	0.05
1.2	4 N PARK											1				1				1						1		4	0.20
24	3 N Park									-2																		2	0.10
41	1 N PARK 1 N. Park		├	<b></b>	1		-		1				_	+	+-+		<del>                                     </del>	+	-+	1	+	+	-	<b>—</b>	<b>-</b>			1	0.05
52	1 N. Park 16 N PARK		<del>                                     </del>		1		1						1	+	+ +			-+	-+		+	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>				1	0.05
4.0	19 N Park							1																				-	
41	17 N PARK																			1								1	0.05
41	18 N PARK		<del>                                     </del>		+		+		-			1		+	+	1	<del>                                     </del>	+	1		+	+	-	<del></del>	<del>                                     </del>			3	0.15
41	19 N PARK 21 N PARK		<b>†</b>		1		1							+	+			-+		1	+	+	<b>-</b>					1	0.05
41	23 N PARK																		1									1	0.05
31	.23 N PARK .6 S PARK																	=		2								2	0.10
3.2	5 S PARK		+	<b></b>	+	<del>                                     </del>	+						_	+	+		<del></del>	+		1	+	+	<b>-</b>	-	1	2		4	0.20
33	1 S PARK		<b>†</b>		1		1		2	1				+	+ +			-+	1		+	<del>                                     </del>	<del>                                     </del>					4	0.05
33	5 S PARK 19 S Park								-	1				1														1	0.20
68	00 PENNER																	$\neg$		1								1	0.05
4.4	50 PERSHING		_		_		_								$\perp$					1		_						1	0.05
4.6	04 PERSHING		+	$\vdash$	+	<del>                                     </del>	1		1	,		$\vdash$		+	+ +	-, -	<b>-</b>	+		1	+	+	<del>                                     </del>	-		,		2	0.10
4.6	16 PERSHING 20 Pershing				1				-	1			_		+ +	1		-	-	1	+	<del>                                     </del>				1		1	0.20
46	24 PERSHING																	二				$\bot$				1		1	0.05
4.7	24 PERSHING 09 PERSHING													$\perp$	$\Box$					1		-				1		2	0.10
4.7	12 PERSHING		-		+		+					<b></b>		+	+ +		<del>                                     </del>	+		1	+	1	-		<b>—</b>	1		2	0.10
4.7	25 PERSHING 19 Pershing		1,		1		1		1				-	+	+ +			+	1		+	+	1	<b>.</b>				1	0.05
	125 Pershing		1															二十			$\bot$								
48	32 PLYMOUTH																	$\neg$	1									1	0.05
48			1	1 1	1	I I -	1					1			1 I		I I					1	1	1	1		T	1	0.05
48 57 57	25 Pershing 32 PLYMOUTH 36 Plymouth		١,																										
48 57 57	40 Plymouth		1							-				_				-+	-+									,	0.05
48 57 57 57	40 Plymouth 112 Powell		1															+								1		1	0.05
48 57 57 57 72	40 Plymouth		1						,																	1		1	0.05 0.05 0.05

MH OVERFLON SEWER BACKUP SUMMARY - 1989 THRU 2010

YEAR		2019 2018	2017	2016 2015	2014	2013 201:	2 2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	TOTALS	AVERAGES
	4500 PRINCE 4819 PRINCE																				1	1								2	0.05
	4823 PRINCE																											1		1	0.05
$\vdash$	4824 PRINCE 2110 Prentiss																											1		1	0.05
	4621 PROSPECT 426 ROGERS																1													1	0.05
	430 Rogers								-	-							1													2	0.05
	548 ROGERS									1												1								2	0.10
	616 ROGERS 603 ROGERS								1								1													1	0.05
	603 ROGERS 620 ROGERS																1													1	0.05
	4042 ROSLYN 4052 ROSLYN																1											1		1	0.05
	4062 Roslyn 4111 Roslyn											1																		1	0.05
	4122 ROSLYN																					1								1	0.05
	4132 Roslyn 4151 Roslyn		1																												
	41E2 BOSTVN																					1								3	0.15
	4162 ROSLYN 4618 Roslyn																1					1						1		3	0.15
	4618 Roslyn 3512 SARATOGA		1							1		1																1		3	0.15
	3524 SARATOGA			1						1		1																1		4	0.20
	3536 SARATOGA 4533 SARATOGA												1								1									1	0.05
	4710 SARATOGA		-		-												,											1		1	0.05
	4836 SARATOGA 4919 SARATOGA 4921 SARATOGA																1				1									2	0.05
$\vdash$	4921 SARATOGA 4922 SARATOGA		1	<del>                                     </del>	1		+								<del></del>		1	<b></b>	-1	1	Ī						$\vdash$	<del>- I</del>		2	0.10
_	4925 SARATOGA																1			1										1	0.05
	4425 SEELEY		1		1		+												-1			1						1		1	0.05
	4641 SEELEY 300 Sheldon									1																		-		1	0.05
$\vdash$	329 SHELDON 333 SHELDON				-		+-												-				-					2 2		2	0.10
	337 SHELDON																				1	1						1		3	0.15
	341 SHELDON		+		+		+									-+							-+					2 2		2	0.10
	345 SHELDON 6640 SPRINGSIDE 6501 STAIR									1										1										2	0.10
$\vdash$	6501 STAIR 6505 STAIR		+-		+		+			1						-+	-					1	-+							2	0.05
	6509 STAIR									1											1	1								3	0.15
Н	4339 STANLEY 4417 STONEWALL		$\pm$		L																1	1								1	0.05
	4417 STONEWALL 4431 STONEWALL																				1									1	0.05
	4905 STONEWALL 4927 STONEWALL		-		+																						1	1		1	0.05
	4930 STONEWALL																					1								1	0.05
	4937 STONEWALL 22 Tower	1	1																						1		1			2	0.10
	220 W TRAUBE 240 W TRAUBE																				1									1	0.05
																						1								1	0.05
	810 VALLEY VIEW																1													1	0.05
	820 Valley View 821 Valley View		1																												
	830 Valley View 831 Valley View		1																											1	0.05
	840 VALLEY VIEW									2											1									3	0.15
	841 VALLEY VIEW 850 VALLEY VIEW																				1	1								2	0.05
	901 VALLEY VIEW 910 VALLEY VIEW																			1	1	1								3	0.15
	931 VALLEY VIEW									1				1							1	1								3	0.15
	940 VALLEY VIEW 951 Valley View									2											1	1						1		3	0.15
	951 Valley View 1101 Valley VIEW		1																			1								1	0.10
	1101 VALLEY VIEW 1131 VALLEY VIEW 1150 Valley View									- 1												1								1	0.05
	3421 Venard				匸							1																		1	0.05
	4935 WALLBANK			$\Box$													1		-				-T						-	1	0.05
	4939 Wallbank 932-40 WARREN		<b>†</b>																			1								1	0.05
_	3925 WASHINGTON 4004 WASHINGTON		+	<del>                                     </del>	+		+		1							-+		<b></b>			1	1	-+					1		2	0.10
	4043 WASHINGTON								-												1							•		1	0.10
$\vdash$	4129 Washington 4236 Washington		+	<del>                                     </del>	1	+	+					1				-		<b>-</b>					$\rightarrow$							1	0.05
	4620 WASHINGTON 4436 Washington																					1						1		2	0.10
$\vdash$	4436 Washington 4533 WASHINGTON		+	<del>                                     </del>	1		1					1				-							-+					1		1	0.05
	4533 WASHINGTON 4537 WASHINGTON																											1		1	0.05
$\vdash$	4822 WASHINGTON 4915 Washington		1		+																							1		1	0.05
	4925 WASHINGTON																				1									1	0.05
$\vdash$	5516 WASHINGTON 5521 Washington		$\vdash$		+		1			2						-							-+					1		3	0.15
	5525 Washington											1																		1	0.05
$\vdash$	5529 WASHINGTON 5533 Washington		+		-		+			- 1											1	1	-							2	0.10
	5537 WASHINGTON																1													1	0.05
	5541 WASHINGTON 15 N Washington		<u> </u>		L					1		1				+						1	+							1	0.10
	28 N WASHINGTON																1													1	0.05
ь	24 N WASHINGTON 123 N WASHINGTON								1	2		1				_	1	1			1	1								6	0.10
	123 N WASHINGTON 128 N WASHINGTON 302 N Washington									2												1								1	0.05
	305 N Washington		$\pm$		L											+							+							2	0.10
	307 N Washington											1											-							1	0.05
Е	307 N WASHINGTON 309 N WASHINGTON		$\pm$		L				1	4										1								1		7 2	0.35
	418 N WASHINGTON																											2		2	0.10
	420 N WASHINGTON 516 N WASHINGTON								2	1							1										2	1		6	0.30
	524 N WASHINGTON 3911 N WASHINGTON																1													1	0.05
	3911 N WASHINGTON				1		1			2												1					1	1		5	0.25

MH OVERFLON SEWER BACKUP SUMMARY - 1989 THRU 2010

YEAR		2019	2019	2017	2016	2015	2014	2012	2012	2011	2010	2009	2009	2007	2006	2005	2004	2002	2002	2001	2000	1000	1000	1997	1006	1005	1004	1002	1992	1001	1990	1000	TOTALO	AVERAGES
ILAK		2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1990	1995	1774	1993	1992	1991	1990	1909	TUTALS	AVERAGES
	1009 N Washington											- 1																					1	0.05
	1015 N WASHINGTON			1								1	1			1						1								1	1		6	0.30
	1016 N WASHINGTON												1																		1		2	0.10
	1017 N WASHINGTON																								1								1	0.05
	1121 N WASHINGTON																								1								1	0.05
	332 S WASHINGTON																														2		2	0.10
	630 WEBSTER																								1								1	0.05
	5701 WEBSTER									1		1	1			1									1								4	0.20
	5704 WEBSTER											1												1									2	0.10
	5708 WEBSTER																							1	1						1		3	0.15
	718 WEBSTER																			1													1	0.05
	5732 WEBSTER																														1		1	0.05
	5700 WEBSTER																							1							1		2	0.10
	5705 WEBSTER																			1					1								2	0.10
	717 WEBSTER												1											1	1								3	0.15
	5804 WEBSTER																							1							1		2	0.10
	910 WEBSTER																						1		1								2	0.10
	5820 WEBSTER																							1									1	0.05
	911 WEBSTER																							1									1	0.05
	920 WEBSTER																								1								1	0.05
	930 WEBSTER					_																	1	1	1						1		4	0.20
	7232 WEBSTER																								1								1	0.05
	1063 WEST END					-															_			1									1	0.05
	1113 WEST END																							1									1	0.05
	1123 WEST END			-		-															_			1	1				-	-			2	0.10
	1133 WEST END 116 N West End			_		-																		1									1	0.05
				-		-									1																		2	0.10
	120 N West End			-		-									1															-			1	0.05
	124 N WEST END		-	_		-																			1								1	0.05
	128 WHIPPLE LN			_		_															_				1								1	0.05
$\vdash$	207 WHITE FAWN 3800 Wilcox		_	_		_									1										1				_	_			1	0.05
			_	_		_									1														_				1	
	1408 WILLARD 1022 Williams			-		-									1				_		_				1					-			1	0.05
			_	_		_									1						_								-				2	0.10
	1119 WILLIAMS		_	_		+						1	3											1					-		1		- 6 1	0.30
	101 S WILLIAMS			+		+																							<u> </u>		1			0.05
	205 S WILLIAMS 1636 WILSON			1		1							-												2				-		٠.		2	0.10
	POTAL	la.		Les	-	1			2	-	9	1 58	1 101		45	7	2	0		61	7	- 5	40	1 119	140	2	5		0	24	1 131		5 767	0.25 38.35
	LUIAL	3	<b>!</b>	A.T.	4	<b>t</b>	2	4	4	3	У	58	101	U	45	7	2	U	0	91	- 1	5	40	113	149	2	5	11	U	24	131	U	767	38.35
				1		t																	<b>I</b>						t					
				<del>                                     </del>		<del>                                     </del>																							<b>†</b>					-
		l				<del>                                     </del>																							<del>                                     </del>					-
				t																									<b>†</b>					
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2019 Ma	inline Blockages	Fr	iday, January 3, 2020 11:52:46 AM
Date of Backup	Name of Caller	Address	Street
3/26/2019	Jasso, Danny	5435	Carpenter
10/8/2019	Keith/DGSD	2125	Ogden
2			

# 2019 Service Line Backups

Date of Backup	Address	Street
1/1/2019	4432	Elm
1/1/2019	5724	Dunham
1/2/2019	405	N. Washington
1/2/2019	508	Forest Mews
1/2/2019	4504	Washington
1/4/2019	832	Chicago
1/9/2019	4011	N. Park
1/13/2019	2136	Maple
1/12/2019	23	S. Grant
1/16/2019	36/42	Ogden
1/17/2019	4935	Highland
1/19/2019	1920	Wellington
1/21/2019	412	Rogers
1/29/2019	5100	Main
1/30/2019	1928	Curtiss
2/1/2019	1728	Ogden
2/1/2019	6941	Lyman
2/4/2019	4902	Washington
2/4/2019	928	Clyde
2/4/2019	319	Indianapolis
2/4/2019	106	N. Washington
2/5/2019	2715	Thirty Fifth
2/6/2019	444	Prairie
2/6/2019	4412	Stanley
2/4/2019	4902	Washington
2/10/2019	319	N. Park
2/11/2019	635	Ogden
2/13/2019	4958	Forest
2/14/2019	3736	Candlewood
2/14/2019	1115	Oak Hill
2/18/2019	6030	Osage

2/18/2019   409   W. Naperville	Date of Backup	Address	Street
2/21/2019       237       Fourth         2/21/2019       4645       Forest         2/22/2019       441       Sixty Eighth         2/28/2019       120       W. Burlington         2/28/2019       3636       Saratoga         3/2/2019       115       N. Williams         3/5/2019       5141       Florence         3/7/2019       3724       Saratoga         3/8/2019       309       W. Traube         3/8/2019       309       W. Traube         3/8/2019       1921       Bending Oaks         3/10/2019       1921       Bending Oaks         3/11/2019       4907       Douglas         3/13/2019       219       W Oakley         3/13/2019       115       S. Grant         3/13/2019       115       S. Grant         3/13/2019       4931       Northcott         3/13/2019       6842       Meadowcrest         3/21/2019       5507       Aubrey         3/21/2019       914       Lincoln         3/21/2019       914       Lincoln         3/21/2019       944       S. Lindley         3/3/2019       4805       Malhank	2/18/2019	409	W. Naperville
2/21/2019       4645       Forest         2/22/2019       441       Sixty Eighth         2/28/2019       3636       Saratoga         3/2/2019       115       N. Williams         3/5/2019       5141       Florence         3/7/2019       3724       Saratoga         3/8/2019       309       W. Traube         3/8/2019       309       W. Traube         3/10/2019       1921       Bending Oaks         3/11/2019       4907       Douglas         3/13/2019       219       W. Oakley         3/13/2019       15       S. Grant         3/13/2019       15       S. Grant         3/13/2019       621       Maple         3/13/2019       6220       Fairmount         3/21/2019       6842       Meadowcrest         3/21/2019       5507       Aubrey         3/23/2019       914       Lincoln         3/21/2019       805       Oxford         3/21/2019       544       S. Lindley         3/31/2019       405       Wallbank         4/3/2019       2120       Maple         4/3/2019       207       White Birch         4/3/	2/18/2019	6748	Valley View
2/2z/2019       441       Sixty Eighth         2/2s/2019       120       W. Burlington         2/2s/2019       3636       Saratoga         3/2/2019       115       N. Williams         3/5/2019       5141       Florence         3/7/2019       3724       Saratoga         3/8/2019       309       W. Traube         3/8/2019       309       W. Traube         3/10/2019       1921       Bending Oaks         3/11/2019       4907       Douglas         3/13/2019       219       W Oakley         3/13/2019       115       S. Grant         3/13/2019       115       S. Grant         3/14/2019       4931       Northcott         3/14/2019       4931       Northcott         3/12/2019       6842       Meadowcrest         3/21/2019       6842       Meadowcrest         3/21/2019       5507       Aubrey         3/23/2019       2106       Midhurst         3/21/2019       904       Uincoln         3/21/2019       905       Oxford         3/21/2019       444       S. Lindley         3/31/2019       4029       Washington	2/21/2019	237	Fourth
2/25/2019       120       W. Burlington         2/28/2019       3636       Saratoga         3/2/2019       115       N. Williams         3/5/2019       5141       Florence         3/7/2019       3724       Saratoga         3/8/2019       309       W. Traube         3/8/2019       309       W. Traube         3/10/2019       1921       Bending Oaks         3/11/2019       4907       Douglas         3/13/2019       119       W Oakley         3/13/2019       651       Maple         3/13/2019       115       S. Grant         3/14/2019       4931       Northcott         3/12/2019       6842       Meadowcrest         3/21/2019       6842       Meadowcrest         3/21/2019       5507       Aubrey         3/23/2019       2106       Midhurst         3/21/2019       805       Oxford         3/21/2019       805       Oxford         3/21/2019       444       S. Lindley         3/31/2019       405       Wallbank         4/3/2019       127       White Birch         4/8/2019       801       Claremont	2/21/2019	4645	Forest
2/28/2019       3636       Saratoga         3/2/2019       115       N. Williams         3/5/2019       5141       Florence         3/7/2019       3724       Saratoga         3/8/2019       309       W. Traube         3/8/2019       309       W. Traube         3/10/2019       1921       Bending Oaks         3/11/2019       4907       Douglas         3/13/2019       219       W Oakley         3/13/2019       651       Maple         3/13/2019       115       S. Grant         3/14/2019       4931       Northcott         3/15/2019       6220       Fairmount         3/21/2019       6842       Meadowcrest         3/21/2019       5507       Aubrey         3/23/2019       2106       Midhurst         3/21/2019       805       Oxford         3/21/2019       544       S. Lindley         3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence	2/22/2019	441	Sixty Eighth
3/2/2019 115 N. Williams  3/5/2019 5141 Florence  3/7/2019 3724 Saratoga  3/8/2019 309 W. Traube  3/8/2019 309 W. Traube  3/10/2019 1921 Bending Oaks  3/11/2019 4907 Douglas  3/9/2019 219 W Oakley  3/13/2019 651 Maple  3/13/2019 115 S. Grant  3/14/2019 4931 Northcott  3/15/2019 6220 Fairmount  3/15/2019 6842 Meadowcrest  3/21/2019 6842 Meadowcrest  3/22/2019 5507 Aubrey  3/23/2019 2106 Midhurst  3/21/2019 805 Oxford  3/21/2019 805 Oxford  3/21/2019 544 S. Lindley  3/3/21/2019 4805 Wallbank  4/3/2019 2130 Maple  4/3/2019 127 White Birch  4/8/2019 801 Claremont  4/11/2019 5207 Florence  4/14/2019 4400 Woodward  4/12/2019 6730 Powell	2/25/2019	120	W. Burlington
3/5/2019 5141 Florence 3/7/2019 3724 Saratoga 3/8/2019 309 W. Traube 3/8/2019 309 W. Traube 3/10/2019 1921 Bending Oaks 3/11/2019 4907 Douglas 3/13/2019 651 Maple 3/13/2019 651 Maple 3/13/2019 115 S. Grant 3/14/2019 4931 Northcott 3/14/2019 642 Meadowcrest 3/21/2019 6842 Meadowcrest 3/22/2019 5507 Aubrey 3/23/2019 2106 Midhurst 3/21/2019 914 Lincoln 3/21/2019 805 Oxford 3/25/2019 544 S. Lindley 3/3/12/2019 4805 Wallbank 4/3/2019 4029 Washington 4/3/2019 127 White Birch 4/8/2019 801 Claremont 4/11/2019 5207 Florence 4/14/2019 4000 Woodward 4/12/2019 6730 Powell	2/28/2019	3636	Saratoga
3/7/2019 3724 Saratoga 3/8/2019 309 W. Traube 3/8/2019 309 W. Traube 3/10/2019 1921 Bending Oaks 3/11/2019 4907 Douglas 3/9/2019 219 W Oakley 3/13/2019 651 Maple 3/13/2019 115 S. Grant 3/14/2019 4931 Northcott 3/14/2019 6842 Meadowcrest 3/21/2019 5507 Aubrey 3/23/2019 5106 Midhurst 3/21/2019 805 Oxford 3/21/2019 805 Oxford 3/21/2019 805 Wallbank 4/3/2019 4805 Wallbank 4/3/2019 127 White Birch 4/8/2019 801 Claremont 4/11/2019 5207 Florence 4/14/2019 4000 Woodward 4/12/2019 6730 Powell	3/2/2019	115	N. Williams
3/8/2019 309 W. Traube 3/8/2019 309 W. Traube 3/10/2019 1921 Bending Oaks 3/11/2019 4907 Douglas 3/9/2019 219 W Oakley 3/13/2019 651 Maple 3/13/2019 115 S. Grant 3/14/2019 4931 Northcott 3/15/2019 6220 Fairmount 3/21/2019 6842 Meadowcrest 3/22/2019 5507 Aubrey 3/23/2019 2106 Midhurst 3/21/2019 914 Lincoln 3/21/2019 805 Oxford 3/21/2019 805 Oxford 3/25/2019 544 S. Lindley 3/31/2019 4805 Wallbank 4/3/2019 429 Washington 4/3/2019 127 White Birch 4/8/2019 801 Claremont 4/11/2019 5207 Florence 4/14/2019 4400 Woodward 4/12/2019 6730 Powell	3/5/2019	5141	Florence
3/8/2019 309 W. Traube  3/10/2019 1921 Bending Oaks  3/11/2019 4907 Douglas  3/9/2019 219 W Oakley  3/13/2019 651 Maple  3/13/2019 115 S. Grant  3/14/2019 4931 Northcott  3/15/2019 6220 Fairmount  3/21/2019 6842 Meadowcrest  3/22/2019 5507 Aubrey  3/23/2019 2106 Midhurst  3/21/2019 914 Lincoln  3/21/2019 805 Oxford  3/21/2019 805 Oxford  3/25/2019 544 S. Lindley  3/31/2019 4805 Wallbank  4/3/2019 4029 Washington  4/3/2019 127 White Birch  4/8/2019 801 Claremont  4/11/2019 5207 Florence  4/14/2019 4400 Woodward  4/12/2019 6730 Powell	3/7/2019	3724	Saratoga
3/10/2019 1921 Bending Oaks 3/11/2019 4907 Douglas 3/9/2019 219 W Oakley 3/13/2019 651 Maple 3/13/2019 115 S. Grant 3/14/2019 4931 Northcott 3/15/2019 6220 Fairmount 3/21/2019 6842 Meadowcrest 3/22/2019 5507 Aubrey 3/23/2019 2106 Midhurst 3/21/2019 914 Lincoln 3/21/2019 805 Oxford 3/25/2019 544 S. Lindley 3/31/2019 4805 Wallbank 4/3/2019 2130 Maple 4/3/2019 127 White Birch 4/8/2019 801 Claremont 4/11/2019 5207 Florence 4/14/2019 4400 Woodward 4/12/2019 6730 Powell	3/8/2019	309	W. Traube
3/11/2019 4907 Douglas  3/9/2019 219 W Oakley  3/13/2019 651 Maple  3/13/2019 115 S. Grant  3/14/2019 4931 Northcott  3/15/2019 6220 Fairmount  3/21/2019 6842 Meadowcrest  3/22/2019 5507 Aubrey  3/23/2019 2106 Midhurst  3/21/2019 805 Oxford  3/21/2019 805 Oxford  3/25/2019 544 S. Lindley  3/31/2019 4805 Wallbank  4/3/2019 2130 Maple  4/3/2019 4029 Washington  4/3/2019 801 Claremont  4/11/2019 5207 Florence  4/14/2019 4400 Woodward  4/12/2019 6730 Powell	3/8/2019	309	W. Traube
3/9/2019 219 W Oakley  3/13/2019 651 Maple  3/13/2019 115 S. Grant  3/14/2019 4931 Northcott  3/15/2019 6220 Fairmount  3/21/2019 6842 Meadowcrest  3/22/2019 5507 Aubrey  3/23/2019 2106 Midhurst  3/21/2019 914 Lincoln  3/21/2019 805 Oxford  3/25/2019 544 S. Lindley  3/3/31/2019 4805 Wallbank  4/3/2019 2130 Maple  4/3/2019 127 White Birch  4/8/2019 801 Claremont  4/11/2019 5207 Florence  4/11/2019 6730 Powell	3/10/2019	1921	Bending Oaks
3/13/2019 651 Maple 3/13/2019 115 S. Grant 3/14/2019 4931 Northcott 3/15/2019 6220 Fairmount 3/21/2019 6842 Meadowcrest 3/22/2019 5507 Aubrey 3/23/2019 2106 Midhurst 3/21/2019 914 Lincoln 3/21/2019 805 Oxford 3/25/2019 544 S. Lindley 3/31/2019 4805 Wallbank 4/3/2019 2130 Maple 4/3/2019 4029 Washington 4/3/2019 127 White Birch 4/8/2019 801 Claremont 4/11/2019 5207 Florence 4/14/2019 6730 Powell	3/11/2019	4907	Douglas
3/13/2019 115 S. Grant  3/14/2019 4931 Northcott  3/15/2019 6220 Fairmount  3/21/2019 6842 Meadowcrest  3/22/2019 5507 Aubrey  3/23/2019 2106 Midhurst  3/21/2019 914 Lincoln  3/21/2019 805 Oxford  3/25/2019 544 S. Lindley  3/31/2019 4805 Wallbank  4/3/2019 2130 Maple  4/3/2019 4029 Washington  4/3/2019 127 White Birch  4/8/2019 5207 Florence  4/14/2019 6730 Powell	3/9/2019	219	W Oakley
3/14/2019       4931       Northcott         3/15/2019       6220       Fairmount         3/21/2019       6842       Meadowcrest         3/22/2019       5507       Aubrey         3/23/2019       2106       Midhurst         3/21/2019       914       Lincoln         3/21/2019       805       Oxford         3/25/2019       544       S. Lindley         3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       801       Claremont         4/12/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/13/2019	651	Maple
3/15/2019       6220       Fairmount         3/21/2019       6842       Meadowcrest         3/22/2019       5507       Aubrey         3/23/2019       2106       Midhurst         3/21/2019       914       Lincoln         3/21/2019       805       Oxford         3/25/2019       544       S. Lindley         3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/13/2019	115	S. Grant
3/21/2019       6842       Meadowcrest         3/22/2019       5507       Aubrey         3/23/2019       2106       Midhurst         3/21/2019       914       Lincoln         3/21/2019       805       Oxford         3/25/2019       544       S. Lindley         3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/14/2019	4931	Northcott
3/22/2019       5507       Aubrey         3/23/2019       2106       Midhurst         3/21/2019       914       Lincoln         3/21/2019       805       Oxford         3/25/2019       544       S. Lindley         3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/15/2019	6220	Fairmount
3/23/2019       2106       Midhurst         3/21/2019       914       Lincoln         3/21/2019       805       Oxford         3/25/2019       544       S. Lindley         3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/21/2019	6842	Meadowcrest
3/21/2019       914       Lincoln         3/21/2019       805       Oxford         3/25/2019       544       S. Lindley         3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/22/2019	5507	Aubrey
3/21/2019       805       Oxford         3/25/2019       544       S. Lindley         3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/23/2019	2106	Midhurst
3/25/2019       544       S. Lindley         3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/21/2019	914	Lincoln
3/31/2019       4805       Wallbank         4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/21/2019	805	Oxford
4/3/2019       2130       Maple         4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/25/2019	544	S. Lindley
4/3/2019       4029       Washington         4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	3/31/2019	4805	Wallbank
4/3/2019       127       White Birch         4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	4/3/2019	2130	Maple
4/8/2019       801       Claremont         4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	4/3/2019	4029	Washington
4/11/2019       5207       Florence         4/14/2019       4400       Woodward         4/12/2019       6730       Powell	4/3/2019	127	White Birch
4/14/2019     4400     Woodward       4/12/2019     6730     Powell	4/8/2019	801	Claremont
4/12/2019 6730 Powell	4/11/2019	5207	Florence
	4/14/2019	4400	Woodward
	4/12/2019	6730	

Date of Backup	Address	Street
4/15/2019	6513	Barclay
4/15/2019	5313	Washington
4/22/2019	2200	Midhurst
4/28/2019	36	N. Park
4/29/2019	230	N. Cass
4/30/2019	4816	Highland
4/30/2019	1030	Warren
4/30/2019	3831	Florence
4/30/2019	4532	Pershing
4/30/2019	4532	Pershing
4/30/2019	3831	Florence
5/1/2019	1400-A	Butterfield
5/2/2019	28	N. Roslyn
5/1/2019	1832	Prairie
5/2/2019	5306	Washington
5/2/2019	36	Steeple Ridge
5/3/2019	1365	Turvey
5/5/2019	6025	Fairmount
5/5/2019	5201	Carpenter
5/8/2019	6948	Meadowcrest
5/11/2019	600	Sixty Eighth
5/9/2019	1135	Oxford
5/13/2019	5321	Grand
5/17/2019	5921	Main
5/20/2019	429	Hill
5/18/2019	1728	Ogden
5/20/2019	3248	Venard
5/21/2019	4149	Lindley
5/22/2019	4438	Woodward
5/23/2019	1732	Ogden
5/27/2019	331	Eighth
5/27/2019	4921	Saratoga
5/27/2019	5325	Florence

5/27/2019         1040         Claremont           5/28/2019         1212         Williamsport           5/28/2019         1917-B         Curtiss           5/28/2019         4500         Cross           5/28/2019         5344         Park           6/1/2019         1533         Seventy First           6/1/2019         980         Seventy First           6/1/2019         1130         Standard           6/4/2019         53         James           6/5/2019         6701         Briargate           6/5/2019         4733         Roslyn           6/10/2019         5527         Carpenter           6/12/2019         5527         Carpenter           6/18/2019         5001         Falrview           6/18/2019         8009         Kelly           6/21/2019         5607         Middaugh           6/27/2019         4524         Linscott           8/1/2019         5437         Brookbank           8/1/2019         5437         Brookbank           8/1/2019         5400         Main           8/1/2019         5400         Main           8/1/2019         540         Main <th>Date of Backup</th> <th>Address</th> <th>Street</th>	Date of Backup	Address	Street
5/28/2019       1917-B       Curtiss         5/28/2019       4500       Cross         5/28/2019       5344       Park         6/1/2019       1533       Seventy First         6/1/2019       980       Seventy Fifth         5/31/2019       1130       Standard         6/4/2019       53       James         6/5/2019       6701       Briargate         6/5/2019       4733       Roslyn         6/10/2019       1511       Brunette         6/12/2019       5527       Carpenter         6/18/2019       1809       Kelly         6/18/2019       1809       Kelly         6/21/2019       5607       Middaugh         6/27/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/7/2019       5437       Brookbank         8/7/2019       5437       Brookbank         8/9/2019       5448       Saratoga         8/1/2019       5400       Main         8/14/2019       760       Seventy Second         8/14/2019       760       Seventy Second         8/26/2019       318       N. Cass	5/27/2019	1040	Claremont
5/28/2019       4500       Cross         5/28/2019       5344       Park         6/1/2019       1533       Seventy First         6/1/2019       980       Seventy Fifth         5/31/2019       1130       Standard         6/4/2019       53       James         6/5/2019       6701       Briargate         6/5/2019       4733       Roslyn         6/10/2019       1511       Brunette         6/10/2019       5527       Carpenter         6/12/2019       5527       Carpenter         6/18/2019       8001       Fairview         6/18/2019       8001       Fairview         6/21/2019       5607       Middaugh         6/21/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/1/2019       5437       Brookbank         8/9/2019       5437       Brookbank         8/9/2019       5440       Main         8/12/2019       5400       Main         8/12/2019       915       Sixtleth         8/12/2019       915       Sixtleth         8/12/2019       9421       Dunham         8/26/2019	5/28/2019	1212	Williamsport
5/28/2019       5344       Park         6/1/2019       1533       Seventy First         6/1/2019       980       Seventy Fifth         5/31/2019       1130       Standard         6/4/2019       53       James         6/5/2019       6701       Briargate         6/5/2019       4733       Roslyn         6/10/2019       1511       Brunette         6/12/2019       5527       Carpenter         6/18/2019       6001       Fairview         6/18/2019       1809       Kelly         6/21/2019       5607       Middaugh         6/27/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/5/2019       5406       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       5400       Main         8/10/2019       5400       Main         8/12/2019       5400       Main         8/12/2019       5421       Dunham         8/23/2019       6421       Dunham         8/26/2019       114       W Burlington         8/26/2019	5/28/2019	1917-В	Curtiss
6/1/2019       1533       Seventy First         6/1/2019       980       Seventy Fifth         5/31/2019       1130       Standard         6/4/2019       53       James         6/5/2019       6701       Briargate         6/5/2019       4733       Roslyn         6/10/2019       1511       Brunette         6/12/2019       5527       Carpenter         6/18/2019       6001       Fairview         6/18/2019       1809       Kelly         6/21/2019       5607       Middaugh         6/27/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/5/2019       5436       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       5400       Main         8/14/2019       5400       Main         8/14/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       1516       Butterfield         9/3	5/28/2019	4500	Cross
6/1/2019       980       Seventy Fifth         5/31/2019       1130       Standard         6/4/2019       53       James         6/5/2019       6701       Briargate         6/5/2019       4733       Roslyn         6/10/2019       1511       Brunette         6/12/2019       5527       Carpenter         6/18/2019       6001       Fairview         6/18/2019       1809       Kelly         6/21/2019       5607       Middaugh         6/27/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/5/2019       5406       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       4948       Saratoga         8/11/2019       5400       Main         8/11/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       318       N. Cass         8/26/2019       316       N. Cass         8/26/2019       315       Hambletonian         9/2/2019       1516       Butterfield         9/3	5/28/2019	5344	Park
5/31/2019       1130       Standard         6/4/2019       53       James         6/5/2019       6701       Briargate         6/5/2019       4733       Roslyn         6/10/2019       1511       Brunette         6/10/2019       5527       Carpenter         6/18/2019       6001       Fairview         6/18/2019       1809       Kelly         6/21/2019       5607       Middaugh         6/27/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/5/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       4948       Saratoga         8/10/2019       5400       Main         8/14/2019       5400       Main         8/14/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       345       Hambletonian         9/2/2019       516       Butterfield         9/3/2019       623       Franklin	6/1/2019	1533	Seventy First
6/4/2019   53   James	6/1/2019	980	Seventy Fifth
6/5/2019 6701 Briargate 6/5/2019 4733 Roslyn 6/10/2019 1511 Brunette 6/12/2019 5527 Carpenter 6/18/2019 6001 Fairview 6/18/2019 1809 Kelly 6/21/2019 5607 Middaugh 6/27/2019 4524 Linscott 8/1/2019 6718 Meadowcrest 8/5/2019 5406 Webster 8/7/2019 5437 Brookbank 8/9/2019 1224 Ogden 8/10/2019 4948 Saratoga 8/12/2019 5400 Main 8/14/2019 5500 Main 8/14/2019 5600 Seventy Second 8/17/2019 5400 Main 8/14/2019 156 Sixtieth 8/17/2019 760 Seventy Second 8/23/2019 1754 Breasted 8/26/2019 114 W Burlington 8/28/2019 144 W Burlington 8/28/2019 1516 Butterfield 9/3/2019 623 Franklin	5/31/2019	1130	Standard
6/5/2019 4733 Roslyn 6/10/2019 1511 Brunette 6/12/2019 5527 Carpenter 6/18/2019 6001 Fairview 6/18/2019 1809 Kelly 6/21/2019 5607 Middaugh 6/27/2019 4524 Linscott 8/1/2019 6718 Meadowcrest 8/5/2019 5437 Brookbank 8/9/2019 1224 Ogden 8/10/2019 4948 Saratoga 8/12/2019 5400 Main 8/14/2019 5400 Main 8/14/2019 760 Seventy Second 8/17/2019 760 Seventy Second 8/23/2019 1754 Breasted 8/26/2019 1754 Breasted 8/26/2019 114 W Burlington 8/28/2019 145 Butterfield 9/3/2019 623 Franklin	6/4/2019	53	James
6/10/2019 1511 Brunette 6/12/2019 5527 Carpenter 6/18/2019 6001 Fairview 6/18/2019 1809 Kelly 6/21/2019 5607 Middaugh 6/27/2019 4524 Linscott  8/1/2019 6718 Meadowcrest  8/5/2019 5406 Webster  8/7/2019 5437 Brookbank  8/9/2019 1224 Ogden  8/10/2019 4948 Saratoga  8/12/2019 5400 Main  8/14/2019 5400 Main  8/14/2019 915 Sixtieth  8/17/2019 760 Seventy Second  8/23/2019 6421 Dunham  8/26/2019 1754 Breasted  8/26/2019 114 W Burlington  8/28/2019 345 Hambletonian  9/2/2019 1516 Butterfield  9/3/2019 623 Frankliin	6/5/2019	6701	Briargate
6/12/2019       5527       Carpenter         6/18/2019       6001       Fairview         6/18/2019       1809       Kelly         6/21/2019       5607       Middaugh         6/27/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/5/2019       5406       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       5400       Main         8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	6/5/2019	4733	Roslyn
6/18/2019       6001       Fairview         6/18/2019       1809       Kelly         6/21/2019       5607       Middaugh         6/27/2019       4524       Linscott         8/1/2019       5718       Meadowcrest         8/5/2019       5406       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       4948       Saratoga         8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	6/10/2019	1511	Brunette
6/18/2019       1809       Kelly         6/21/2019       5607       Middaugh         6/27/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/5/2019       5406       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       5400       Main         8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       318       N. Cass         8/26/2019       314       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	6/12/2019	5527	Carpenter
6/21/2019       5607       Middaugh         6/27/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/5/2019       5406       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       4948       Saratoga         8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	6/18/2019	6001	Fairview
6/27/2019       4524       Linscott         8/1/2019       6718       Meadowcrest         8/5/2019       5406       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       4948       Saratoga         8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	6/18/2019	1809	Kelly
8/1/2019       6718       Meadowcrest         8/5/2019       5406       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       4948       Saratoga         8/12/2019       5400       Main         8/14/2019       760       Seventy Second         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	6/21/2019	5607	Middaugh
8/5/2019       5406       Webster         8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       4948       Saratoga         8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	6/27/2019	4524	Linscott
8/7/2019       5437       Brookbank         8/9/2019       1224       Ogden         8/10/2019       4948       Saratoga         8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/1/2019	6718	Meadowcrest
8/9/2019       1224       Ogden         8/10/2019       4948       Saratoga         8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/5/2019	5406	Webster
8/10/2019       4948       Saratoga         8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/7/2019	5437	Brookbank
8/12/2019       5400       Main         8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/9/2019	1224	Ogden
8/14/2019       915       Sixtieth         8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/10/2019	4948	Saratoga
8/17/2019       760       Seventy Second         8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/12/2019	5400	Main
8/23/2019       6421       Dunham         8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/14/2019	915	Sixtieth
8/26/2019       1754       Breasted         8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/17/2019	760	Seventy Second
8/26/2019       318       N. Cass         8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/23/2019	6421	Dunham
8/26/2019       114       W Burlington         8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/26/2019	1754	Breasted
8/28/2019       345       Hambletonian         9/2/2019       1516       Butterfield         9/3/2019       623       Franklin	8/26/2019	318	N. Cass
9/2/2019 1516 Butterfield 9/3/2019 623 Franklin	8/26/2019	114	W Burlington
9/3/2019 623 Franklin	8/28/2019	345	Hambletonian
	9/2/2019	1516	Butterfield
9/9/2019 1410 Terrace	9/3/2019	623	Franklin
	9/9/2019	1410	Terrace

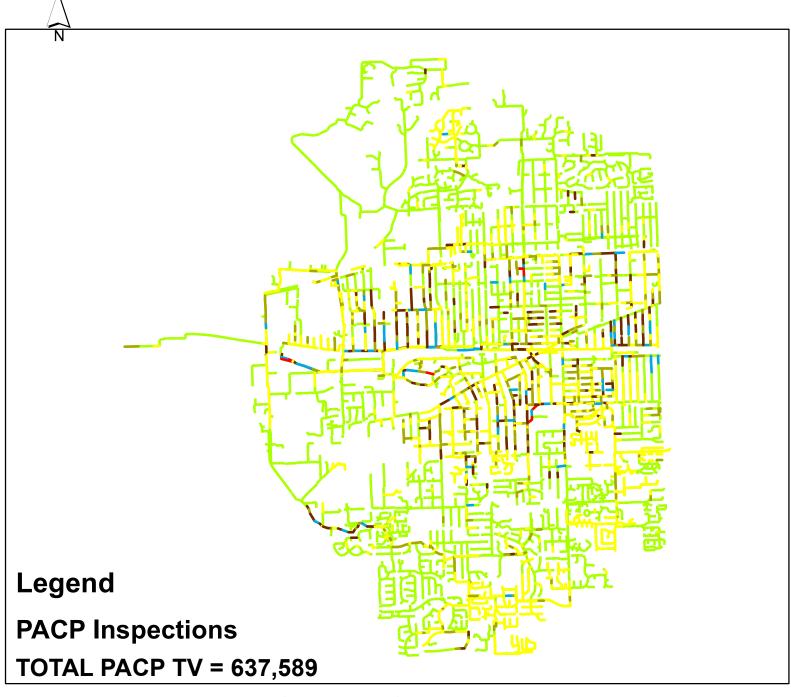
ate of Backup	Address	Street
9/9/2019	4711	Prince
9/11/2019	152	Prairie
9/16/2019	820	Prairie
9/19/2019	6412	Saratoga
9/23/2019	123	N. Lincoln
9/23/2019	1118	Curtiss
9/25/2019	5715	Fairview
9/25/2019	1214	Ross
9/26/2019	4813	Bryan
9/27/2019	5244	Fairview
9/30/2019	5333	Benton
10/3/2019	6624	Blackstone
10/3/2019	412	W. Sixty Third
7/3/2019	317	N Washington
7/3/2019	53	James
7/2/2019	4021	Roslyn
7/3/2019	4121	N Washington
7/5/2019	259	N. Washington
7/9/2019	144	N. Park
7/10/2019	3804	N. Park
7/15/2019	3802	N. Park
7/16/2019	1101	Candlewood
7/16/2019	3217	Venard
7/19/2019	625	S. Adams
7/21/2019	4804	Northcott
7/21/2019	612	Seventy Second
7/22/2019	1411	Wood
7/26/2019	6400	Powell
7/27/2019	5828	Webster
7/29/2019	1440	Spruce
10/3/2019	30	N. Washington
10/4/2019	2134	Ashley Ct
10/6/2019	7070	Foster

Date of Backup	Address	Street
10/8/2019	6340	Powell
10/8/2019	260	N. Cass
10/9/2019	6241	Main
10/10/2019	826	Red Stable Way
10/15/2019	546	Fifty Ninth
10/15/2019	1100	Norfolk
10/16/2019	1161	Black Oak
10/17/2019	201	S. Washington
10/22/2019	6208	Fairmount
10/26/2019	5143	Grand
10/27/2019	1932	Curtiss
10/26/2019	6761	Fairmount
10/28/2019	1628	Prairie
10/28/2019	63	W. Sixty Fourth
10/28/2019	445	Gierz
10/28/2019	4720	Main
10/28/2019	5812	Webster
10/31/2019	5443	Brookbank
10/31/2019	5744	Main
11/6/2019	49	W. Fifty Sixth
11/11/2019	415	W. Ogden
11/12/2019	4010	Liberty
11/13/2019	2105	Ogden
11/13/2019	3340	Pomeroy
11/15/2019	1400-A	Butterfield
11/19/2019	6861	Parker
11/21/2019	441	Franklin
11/25/2019	418	Grant
11/29/2019	4510	Downers
11/29/2019	3841	Glendenning
11/28/2019	5619	Hillcrest
11/30/2019	6725	Bunker Hill
12/3/2019	4902	N. Adams

Date of Backup	Address	Street
12/6/2019	6336	Powell
12/9/2019	6824	Meadow Crest
12/9/2019	1840	Bolson
12/10/2019	5736	Dearborn
12/19/2019	260	N. Cass
12/19/2019	36	Indian Trail
12/22/2019	1422	Gilbert
12/26/2019	5245	Fairmount
12/24/2019	5928	Carpenter
12/24/2019	812	Bonnie Brae
12/30/2019	7301	Ticonderoga

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# 2019 Mainline PACP TV Status



- Failure unlikely in the foreseeable future 399,545 Ft.
- Pipe unlikey to fail for at least 20 years 121,611 Ft.
- Pipe may fail in 10 to 20 years 72,461 Ft.
- ——— Pipe wil probably fail in 5 to 10 years 38,011 Ft.
- Pipe has failed or will fail within the next 5 years 5,961
  - PACP Observations Entered in Database -637,589 Ft. =47.36% of Total Mains
- Total District Sanitary Mainlines 1,346,197 Ft.

## **Downers Grove Sanitary District Flow Monitoring Program**

## I/I Ranking Summary - Highest I/I to Lowest I/I

Through January 2020

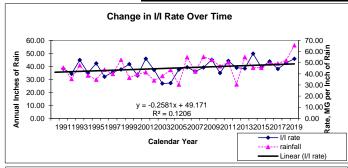
			Through	January 2020
Manhole	Choun	Dogion	Average I/I	Rank
Number	Group	Region	Number	1 = Highest I/I
2-D-16	С	Central	29.21	1
W-1-4	M	Hobson	27.67	2
1-G-18	I	Central	23.34	3
G-1-15	В	Central	22.92	4
1-L-19-1	Н	Central	21.27	5
W-2-3	M	Hobson	20.95	6
1-J-9	A	Central	20.81	7
1-M-8	Н	Central	20.00	8
2-C-25	C	Central	19.34	9
1-F-9	I	Central	18.78	10
W-1-12	M	Hobson	18.41	11
1-K-10	A	Central	17.37	12
V-2-31	O	Northwest	17.07	13
1-M-15	Н	Central	16.88	14
N-1-38	E	Northwest	16.3	15
2-D-4	C	Central	16.21	16
G-2-1	В	Central	16.21	17
1-A-3	K	Central	16.11	18
1-G-35	Н	Central	16.04	19
1-K-28	A	Central	15.69	20
V-1-15	O	Northwest	14.58	21
E-1-14	O	Central	14.54	22
2-G-5	C	Central	14.35	23
2-A-42	K	Central	14.23	24
N-1-3	E	Northwest	14.13	25
1-L-12R	В	Central	14.11	26
1-H-4	Н	Central	14.04	27
1-B-10	J	Central	13.8	28
N-1-25	E	Northwest	13.71	29
E-1-26	O	Central	13.24	30
V-4-2	N	Central	12.56	31
B-1-000	E	Northwest	12.52	32
C-1-000	L	Hobson	12.41	33
1-D-8	J	Central	12.26	34

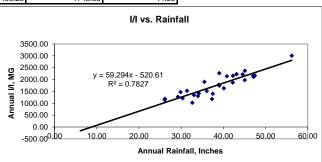
1-G-5	A	Central	12.21	35
L-1-111	N	Central	12.05	36
G-3-11	В	Central	11.66	37
1-N-11	A	Central	11.41	38
2-F-1	C	Central	11.22	39
1-E-38	I	Central	10.96	40
V-3-82	N	Central	10.75	41
L-1-000	N	Central	10.53	42
1-A-128	K	Central	10.31	43
1-G-14S	I	Central	10.14	44
W-2-42	M	Hobson	10.13	45
H-3-48	D	Hobson	10.08	46
G-5-15	В	Central	10.06	47
H-1-22	F	Hobson	10.06	48
W-2-7	M	Hobson	10.02	49
1-G-46	A	Central	9.99	50
V-3-13	N	Central	9.96	51
H-3-18	D	Hobson	9.73	52
1-B-2	J	Central	9.57	53
L-1-33	N	Central	9.45	54
1-M-12A	H	Central	9.37	55
1-J-16	A	Central	9.3	56
H-4-75	F	Hobson	9.22	57
W-1-2	M	Hobson	9.21	58
W-1-30	M	Hobson	9.19	59
L-1-17	N	Central	9.17	60
1-F-31	I	Central	9.03	61
L-1-13	N	Central	9.03	62
2-F-2	C	Central	8.96	63
G-4-4A	В	Central	8.89	64
2-A-8	L	Central	8.88	65
1-N-1A	A	Central	8.87	66
1-C-6	J	Central	8.55	67
1-C-50	K	Central	8.53	68
1-J-3-1	A	Central	8.25	69
W-2-15	M	Hobson	8.2	70
2-C-1	C	Central	8.15	71
G-6-2	В	Central	8.13	72
1-A-10	K	Central	8.07	73
W-1-65	M	Hobson	7.89	74
1-J-14	A	Central	7.75	75
G-3-3	В	Central	7.73	76
1-D-4	J	Central	7.59	77
G-5-28	В	Central	7.59	78

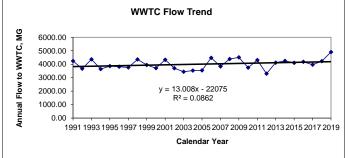
1-K-2	A	Central	7.47	79
2-E-5	C	Central	7.31	80
1-F-21S	I	Central	7.18	81
V-4-14	N	Central	7.17	82
2-G-12	C	Central	7.15	83
1-E-7	I	Central	7.12	84
H-7-9-7	G	Hobson	7.01	85
1-C-65	J	Central	7.01	86
2-B-7	L	Central	6.94	87
W-1-39	M	Hobson	6.91	88
2-A-1	L	Central	6.8	89
C-1-5	L	Hobson	6.77	90
1-E-6S	I	Central	6.69	91
1-H-9	Н	Central	6.64	92
2-A-10S	K	Central	6.61	93
G-4-12	В	Central	6.6	94
1-B-18	J	Central	6.6	95
G-2-4	В	Central	6.58	96
H-3-12	D	Hobson	6.54	97
3-B-1A	E	WWTC	6.36	98
H-2-6	F	Hobson	6.25	99
H-3-15	D	Hobson	6.21	100
N-1-76	E	Northwest	6.06	101
1-G-22S	I	Central	5.95	102
H-5-21-1	G	Hobson	5.93	103
V-1-9	O	Northwest	5.86	104
H-2-15	D	Hobson	5.84	105
1-E-80	J	Central	5.8	106
2-A-10	K	Central	5.75	107
H-2-29	D	Hobson	5.73	108
H-7-26	G	Hobson	5.65	109
1-E-4S	J	Central	5.58	110
V-3-8R	N	Central	5.41	111
2-C-54	C	Central	5.4	112
H-1-3	F	Hobson	5.35	113
2-A-1S	L	Central	5.25	114
H-5-17	G	Hobson	5.21	115
V-4-34	N	Central	5.14	116
G-5-2	В	Central	5.13	117
1-C-2	K	Central	5.13	118
H-4-46	F	Hobson	5.09	119
H-6-5	D	Hobson	5.01	120
B-1-17	E	Northwest	4.97	121
H-1-17	F	Hobson	4.89	122

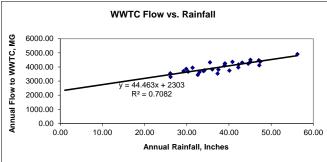
C-1-11	L	Hobson	4.83	123
V-1-000	O	Northwest	4.62	124
V-1-6	O	Northwest	4.51	125
H-6-28C	D	Hobson	4.49	126
V-2-7	O	Northwest	4.24	127
2-C-10	C	Central	4.19	128
V-3-000	I	Central	4.13	129
B-1-35	Е	Northwest	3.97	130
3-A-2	Е	WWTC	3.79	131
H-3-2-2	D	Hobson	3.74	132
3-A-8	Е	Hobson	3.68	133
H-4-29	F	Hobson	3.56	134
H-7-17	G	Hobson	3.45	135
H-5-12	G	Hobson	3.45	136
H-7-6	G	Hobson	3.37	137
V-1-17	O	Northwest	2.9	138
H-5-21-9	G	Hobson	2.78	139
1-G-28R	Н	Central	2.73	140
H-7-30A	G	Hobson	2.57	141
H-2-99	F	Hobson	2.5	142
H-5-21-17	G	Hobson	2.43	143
H-7-9-47	G	Hobson	2.39	144
H-4-12	F	Hobson	2.38	145
2-A-49	L	Central	2.12	146
H-5-2	G	Hobson	2.03	147
V-3-21	N	Central	1.67	148
H-8-1	F	Hobson	1.31	149
E-1-000	O	Central	1.07	150

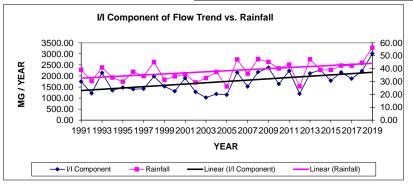
					January, 2019
				I/I Component = Flow	I/I Rate = I/I
	Annual Rainfall,	Flow to		to WWTC - Billed	Component/Rainfall
Calendar Year	Inches	WWTC, MG	Billed Flow, MG	Flow, MG	MG/Inch
2019	56.22	4905.17	1897.41	3007.76	53.5
2018	44.57	4229.45	2007.63	2221.82	49.8
2017	42.22	3967.10	2091.29	1875.81	44.4
2016	42.28	4178.33	2014.03	2164.30	51.1
2015	38.93	4105.10	2323.20	1781.90	45.7
2014	39.04	4248.30	1977.56	2270.74	58.1
2013	47.18	4117.91	2002.68	2115.23	44.8
2012	26.16	3298.75	2109.46	1189.29	45.4
2011	43.13	4310.18	2080.04	2230.14	51.7
2010	40.11	3742.26	2107.03	1635.23	40.7
2009	45.10	4507.87	2133.66	2374.21	52.6
2008	47.45	4382.37	2212.57	2169.80	45.7
2007	36.06	3831.59	2313.14	1518.45	42.1
2006	47.08	4472.81	2309.29	2163.52	45.9
2005	26.10	3546.06	2401.79	1144.27	43.8
2004	37.31	3534.37	2353.09	1181.28	31.6
2003	32.63	3442.68	2419.10	1023.58	31.3
2002	29.23	3701.50	2426.41	1275.09	43.6
2001	35.51	4329.23	2426.58	1902.65	53.5
2000	33.98	3708.38	2400.63	1307.76	38.4
1999	31.38	3945.26	2416.23	1529.03	48.7
1998	45.05	4358.23	2378.91	1979.32	43.9
1997	34.18	3760.52	2341.30	1419.22	41.5
1996	37.50	3813.92	2411.07	1402.85	37.4
1995	29.87	3859.42	2383.43	1475.99	49.4
1994	33.03	3641.37	2292.44	1348.93	40.8
1993		4363.97	2222.61	2141.36	52.4
1992	30.34	3668.68	2454.31	1214.37	40.0
1991		4238.63	2493.28		44.6











## DOWNERS GROVE SANITARY DISTRICT M E M O

DATE: January 7, 2020

TO: Nicholas Menninga General Manager

FROM: Robert Swirsky

Sewer System Maintenance Supervisor

RE: 2020 Collection System Work Plan

Proposed work on the collection system for 2020

- 1. Regular cleaning of 314,371 feet of sewers with diameter 21 inches or smaller (4 year cycle). Sewer areas C1, H1, H2, H3, H4, H5, H6, H7, H8, W2, and annual cleaning of all siphons.
- 2. Continue to heavy clean main sewers on the PM. List every 6 months (approximately 37,577 feet), and every 3 months (approximately 5,408 feet).
- 3. Continue annual monitoring and heavy cleaning if needed of 3,974' of 18" and 30" main sewer in the Denburn Woods and Gilbert Park area.
- 4. Televise 100,000 feet of main sewers (12 year cycle).
- 5. Continue the regular metering of the 50 basins for 9 weeks per basin (3 year cycle).
- 6. Continue the inspection of private property under the Private Property Infiltration and Inflow (I&I) Removal Program in the targeted basins.
- 7. Continue the Building Sanitary Service Repair Assistance Program including the removal of identified I/I sources within these buildings.
- 8. Televise and locate as needed the building services for the Private Property I/I Removal Program, Building Sanitary Service Repair Assistance Program and the Cost Reimbursement Program for the installation of Overhead Sewers or Backflow Prevention Devices.
- 9. Inspect buildings for I/I sources for the above programs.
- 10. Inspect 300 district manholes (20 year cycle)
- 11. Utilize flow meter data and other district records to prioritize main sewers for repair or rehabilitation in accordance with the I/I Removal and Sewer System Rehabilitation Policy.
- 12. Utilize the Lucity software and other district records to prioritize main sewers for repair or rehabilitation in accordance with the I/I removal and Sewer system Rehabilitation Policy.
- 13. Continue updating records and correcting errors in GIS and Lucity.

14. Continue to assist at the treatment plant and lift stations with maintenance and other tasks where the use of the Vac-Con is beneficial.

CC: WDVB, AES, PWC, RTJ, KJR, MS, TTC, WCC, MCW

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Amy E. Sejnost
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**General Manager** Nicholas J. Menninga

**Legal Counsel**Michael G. Philipp

2710 Curtiss Street P.O. Box 1412 Downers Grove, IL 60515-0703 Phone: 630-969-0664 Fax: 630-969-0827 www.dgsd.org

Providing a Better Environment for South Central DuPage County

Memo

TO: BOARD OF TRUSTEES

FROM: NICK MENNINGA, GENERAL MANAGER

DATE: JANUARY 17, 2020

SUBJECT: FOG ACCEPTANCE AND CHP OPERATION ECONOMICS

Recent expenses associated with the subject process areas have prompted a renewed look at the business economics surrounding these central pieces of the WWTC's ability to operate as a net-zero energy facility.

The District has invested in significant infrastructure in order to support this aspect of the operation. Ongoing evaluation has shown the need for additional infrastructure and equipment investments to optimize the economics surrounding these items.

#### **FOG Receiving**

The District began accepting hauled FOG in 2011 after converting the old grit tank into a receiving station using money received under the ARRA loan program. The receiving station was improved over several years, including the addition of a cover, a mixer, a grinder and a dedicated pump. A second receiving station was built adjacent to digester 4 in 2017. Overall, the District has invested \$825,000 in these facilities.

Since 2011, the District has generated significant revenue by charging a fee to dispose of FOG at the facility. Between 2011 and 2019, the District received \$1,122,000 in revenue. Future revenue is expected to remain at \$200,000 to \$220,000 per year.

Between 2011 and 2016, there did not appear to be a significant impact on sludge handling and disposal costs. However, in 2017, changes in sludge characteristics and quantities began to incur additional sludge disposal costs. Since 2017, the District has been using contracted hauling of Class B biosolids to farmland in order to meet sludge disposal needs. The additional cost from 2017-2019 was \$178,000. Without any additional investments or changes, this expense is expected to remain at roughly \$82,000 per year.

The District has awarded a \$587,700 contract to install a mechanical sludge thickener to thicken waste activated sludge, which is expected to improve anaerobic digester performance and help control future sludge disposal costs. In addition, the wet conditions of 2019 prompted further evaluation of sludge

handling operations, with a recommendation to invest \$460,000 in a cover for existing sludge storage beds, and to pilot test a sludge composting operation, as ways to further control the cost of sludge disposal in the future.

Figure 1 shows the net cumulative cash of the FOG receiving operation over time. As of 2019, the operation has generated positive cash flow. Pending investments in thickening equipment and bed covers are expected to be paid for by FOG revenues by 2026, and to overtake the cash-flow of the current unimproved operation by 2035.

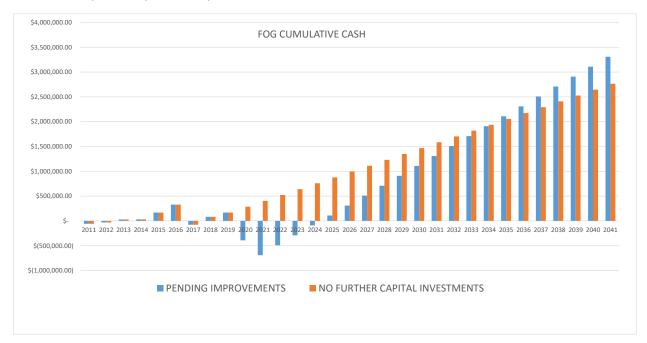


Figure 1

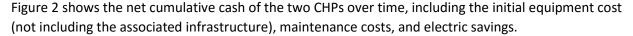
#### **Combined Heat and Power**

Accepting FOG allows for the production of digester gas sufficient to fuel a substantial combined heat and power (CHP) system. The District installed CHP facilities in 2 phases, starting with the bulk of the gas cleaning facilities and CHP #1 in 2014, followed by some improvements to the gas cleaning system and the addition of CHP #2 in 2017-18. Each of these projects included the base equipment, in addition to substantial investments in building modifications, piping and utilities needed to situate the equipment. Grant money was received to help off-set the cost of these improvements. A total of \$3.7 million has been invested, off-set partially by grants totaling \$1.2 million, for a net investment of \$2.5 million.

Operation of the facilities results in reduced electricity costs to operate the WWTC. CHP #1 has operated with adequate capacity and up-time to offset roughly \$100,000 per year in electric costs. CHP #2 has significantly more capacity and better up-time, offsetting about \$160,000 per year in electric costs. Between 2014 and the end of 2019, the CHP equipment has offset roughly \$900,000 in electric costs.

While the grease receiving operation incurs only nominal O&M costs, the CHP facilities require routine costs, including gas cleaning media replacement, as well as recurring maintenance of the CHP equipment. Since 2014, gas cleaning media replacements have cost \$94,000, with future expected annual costs of \$15,000. Since installation, CHP maintenance and repair has been \$185,000 for CHP #1, and \$70,000 for CHP #2. Expected future average annual maintenance of CHP #2 is \$42,000. Expected

future annual maintenance of CHP #1 is expected to be over \$120,000, eliminating its future economic viability, and thereby ending its expected service life.



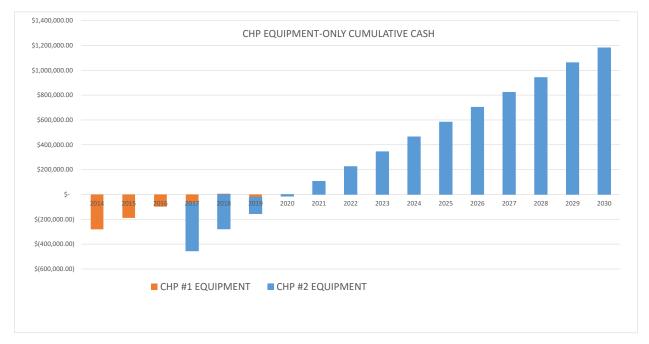


Figure 2

CHP #1 is currently idle, with the recent failure of the engine in late 2019. The engine was remanufactured by the original manufacturer in early 2019, but failed after only 6 months of operation, with a flat refusal to honor the warranty. With no future economic viability, this equipment did not quite generate positive cash-flow over its service life. The vendor has not offered an alternative product with better potential economic viability. At this time, the space is available to place a similar unit from a manufacturer with more promising economics.

CHP #2 continues to operate with a positive cash flow. It is expected to produce adequate electric savings by the end of 2020 to off-set the associated equipment purchase and maintenance costs.

Future electric savings from CHP #2 are expected to begin off-setting the \$2.5 million in infrastructure costs in 2020. Recovery of these costs will take until roughly 2038 with only CHP #2 in operation, accounting for the operational cost of gas cleaning.

In order to get closer to the originally planned pay-back schedule, the District should consider replacing the CHP #1 equipment with equipment similar to CHP #2. Such a purchase, estimated at \$550,000, would likely include available grant funding, estimated at \$275,000, to off-set as much as half the purchase price of the equipment. This would also allow for more rapid recovery of the infrastructure cost, with positive cumulative cash flow by 2031.

Figure 3 shows the net cumulative cash of the CHPs over time, including the initial equipment and infrastructure cost, maintenance costs, and electric savings over time.

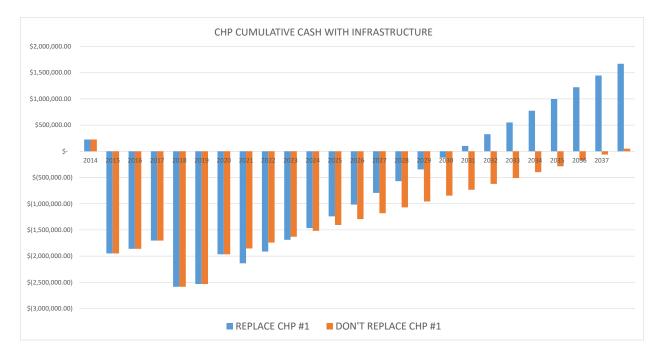


Figure 3

Replacing CHP #1 with a unit similar to CHP #2 would allow for a significantly more rapid recovery of the cost of the associated infrastructure.

### **Overall Recommended Facilities**

Overall, investments in net-zero energy facilities are expected to pay for themselves by 2028, whether further investments are made or not. The continued saving potential beyond that date would be enhanced by the addition of certain improvements over the near term. Figure 4 shows a comparison of the option of no further investments vs. improvements that are expected to improve the performance of the facilities.

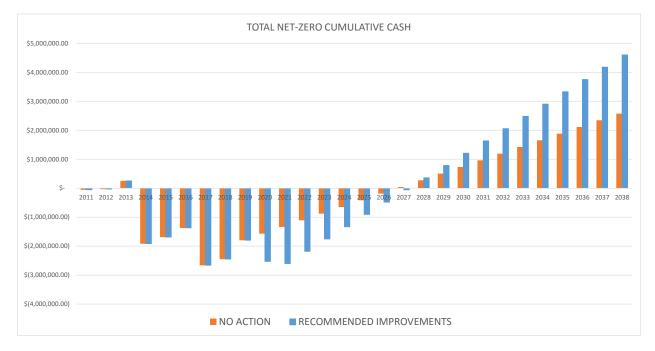


Figure 4

Recommended improvements include covering the sludge storage drying beds and replacing CHP #1 with a unit similar to CHP #2. These improvements are expected to nearly double the annual savings potential of the facilities, by about \$200,000 per year.

C: BOLI, ARU, JPB, MGP

This attachment has been removed for its contents are currently confidential.

#### DOWNERS GROVE SANITARY DISTRICT

#### <u>M E M O</u>

TO: Nicholas J. Menninga General Manager

FROM: W. Clay Campbell

Administrative Supervisor

DATE: January 17, 2020

RE: Progress Report – December, 2019

#### **ADMINISTRATIVE**

Reimbursement Program for Sanitary Sewer Backups Caused by Public Sanitary Sewer Blockages

As there was one payment made to 4948 Saratoga Avenue, Downers Grove in the amount of \$501.70 and the time limit expired for a different address, an updated summary is being provided at this time. There are currently no open claims.

#### Safety Committee and Related Safety Matters

The Safety Committee met on January 14, 2020. Jessie Gwozdz, the District's Safety Coordinator, took over as the Chair of the Committee at this meeting and did an excellent job leading. The Safety Committee reviewed any open hazard reports, provided an update on signage around the District's facilities, identified that new first-aid kit boxes were going to be distributed to all District vehicles, noted the anticipated purchase of 5 new AEDs in the upcoming FY20-21 fiscal year, the purchase of new hard hats for staff and various other items of new business.

#### IAWA General Administration Committee

Several members of IAWA's General Administration Committee met via phone conference on January 7 to discuss new IAWA potential member outreach efforts in 2020 in an effort to expand existing membership to those potential agency or affiliate members that could be benefitted by IAWA's networking and resources.

#### **IAWA Legislative Subcommittee**

As co-chair of the Subcommittee, I have been working with my fellow co-chair and IAWA's lobbyists to draft proposed legislation. This legislation would provide sanitary districts with emergency access to their facilities in utility right-of-ways that typically require a permit (such as when the District needs to access a pipe under a railroad). We are in the process of soliciting feedback from the rest of the Subcommittee to refine the proposed language and will continue to move ahead with a bill. With the new legislative session looming, I will begin heavily monitoring bills on behalf of IAWA over the next four months.

### **Technology Update**

I met with a representative of Sound Inc. on January 8 to request a proposal for a new video recording server and software to replace the existing District surveillance system. The existing system is coming up on 6 years old and while most of the cameras are still in good shape, the server and software should be updated. This project should occur sometime this spring.

I am also coordinating with Exodus Technology Service, our local IT support provider, to update all of the District's workstations and servers that need to be updated from Windows 7 and Server 2008 as those operating systems are no longer being supported by Microsoft. This work is anticipated to be completed in the next several weeks.

On January 14, Jeff Barta and I met with Larry Kravets of Concentric Integration to prioritize and refocus on several outstanding items of relevance for the District. We have a plan in place for getting many of these items accomplished over the next several months.

The following is a detailed summary of the Invoice Cloud portal's utilization in the last month and since the portal's launch in February 2015 through the end of last month:

# of Customers registered in the last month:	93
# of Customers paying their bills online in the last month:	1461
Amount of Money processed through the Portal in the last month:	\$87,726.72
# of Customers signing up for Autopay through the Portal in the last month:	39
# of Customers enrolled in paperless billing in the last month:	34
# of customers registered for pay by text in the last month:	34
Cost to District for providing Invoice Cloud service in the last month:	\$633.90
Cost to District's customers (convenience fees) in the last month:	\$1,563.90
Estimated Monthly savings from customers enrolled in paperless billing:	\$62.19
# of Customers registered from launch through last month:	4,528
# of Customers signing up for Autopay through the Portal from launch through last month:	1,218
# of Customers enrolled in paperless billing from launch through last month:	2,067
# of customers registered for pay by text from launch through last month:	1,362

#### **FINANCIAL**

#### W-2s and 1099s

Carly Shaw, Accounting Assistant for the District, and I compiled, prepared and issued both W-2s (for employees) and 1099s (for vendors) for tax year 2019 in compliance with IRS regulations.

### **User Billing**

Detailed billing information is attached to this report.

#### CODE ENFORCEMENT & UNSEWERED AREAS

<u>Building Sanitary Service Repair Assistance Program; Infiltration and Inflow Removal Program; and Overhead Sewers and Backflow Prevention Devices Reimbursement Program</u>

I have continued to perform the legal review of both Program Agreements and Access Agreements for all of the above programs as prepared by our office prior to execution by the parties.

### **Sewer Permitting Process**

I have continued to perform the legal review of Access Agreements and Annexation Petitions prepared by our office as needed by sewer permit applicants.

cc: WDVB, AES, PWC, KJR, RTJ, MJS, ARU, MGP

## REIMBURSEMENT PROGRAM FOR SANITARY SEWER BACKUPS CAUSED BY PUBLIC SANITARY SEWER BLOCKAGES

#### 01/17/20

0,11,20			DATE OF	DATE	AMOUNT OF	ADJUSTER	AMOUNT	DATE	ADJUSTER	
STREET ADDRESS	CITY	NAME			CLAIM	RECOMMENDATION	PAID	PAID	FEE	STATUS
37 56TH PLACE	WESTMONT	FEURICH	3/5/2018	4/3/2018	500.00	PAYMENT SUGGESTED - \$500.00	500.00	4/13/2018	561.90	CLOSED
46 55TH PLACE	WESTMONT	CURTIN	3/30/2018	4/19/2018	2,500.00	PAYMENT SUGGESTED - \$2500.00	2,500.00	7/24/2018	589.65	CLOSED
6017 CARPENTER STREET	DOWNERS GROVE	KOLAR	5/15/2018	9/5/2018	2,500.00	PAYMENT SUGGESTED - \$2500.00	2,500.00	10/10/2018	425.50	CLOSED
144 N. PARK STREET	WESTMONT	RUDEY	7/9/2019	TIME LIMI	T FOR CLAIM	EXPIRED.				CLOSED
4948 SARATOGA AVENUE	DOWNERS GROVE	RAINES	8/10/2019	11/7/2019	501.70	RODDING AND CLEANUP COSTS ONLY - PAY \$501	501.70	12/13/2019	0.00	CLOSED
	TOTAL NUMBER OF BACKUPS (SINCE PROGRAM START IN 1997) TOTAL NUMBER OF CLAIMS RECEIVED (SINCE PROGRAM START IN 1987) TOTAL AMOUNT OF CLAIMS RECEIVED (SINCE PROGRAM START IN 1987) TOTAL AMOUNT OF CLAIMS PAID (SINCE PROGRAM START IN 1997) TOTAL AMOUNT PAID TO ADJUSTER (SINCE PROGRAM START IN 1997)	97)	240	120	\$158,093.25		\$88,068.23		\$18,919.35	
	NUMBER OF CLAIMS (MOST RECENT 24 MOS) AVERAGE AMOUNT OF CLAIM (MOST RECENT 24 MOS) AVERAGE AMOUNT OF PAYMENT (MOST RECENT 24 MOS) AVERAGE AMOUNT PAID TO ADJUSTER PER CLAIM (MOST RECENT 24	MOS)		4	\$1,500.43		\$1,500.43		\$394.26	

#### USER BILLING SUMMARY

### User Charge System

Billings for December 2019 were as follows:

User	\$251,274.28
Surcharge	37,801.59
Monthly fees	350,384.99
Total	\$639,460.86
Summer Usage Adjustment	\$858.08
Billable Flow	148,313,153
Budgeted Billable Flow	154,801,136
% Actual/Budgeted Billable Flow	95.81%
YTD Billable Flow	1,326,110,607
YTD Budgeted Billable Flow	1,374,838,232
% Actual/Budgeted Billable Flow	96.46%

The user accounts receivable balance on 12/31/2019 is \$612,864.60 and consists of:

Current charges due 12/16/19	\$498,400.17
Past due charges and penalty	114,464.43
Total	\$612.864.60

The past due charges represent:

Age	<u>User Charges</u>	<u>Penalty</u>	<u>Totals</u>
30 days past due 60 days past due 90 days & greater past due	\$39,570.62 18,937.97 42,249.41	\$4,904.46 3,255.99 5,545.98	\$44,475.08 22,193.96 47,795.39
Totals	\$100,758.00	\$13,706.43	\$114,464.43

### Summary of Past Due Charges (90 Days and Over)

#### Five Year Comparison

#### **December**

<u>Year</u>	<u>User Charges</u>	Penalty	<u>Total</u>
2019	\$42,249.41	\$5,545.98	\$47,795.39 *****
2018	37,925.83	4,581.75	42,507.58 ****
2017	42,305.17	5,072.42	47,377.59 ***
2016	40,063.15	5,460.59	45,523.74 **
2015	45,799.46	7,635.13	53,434.59 *

\*\*\*\*\*Includes \$10,462.28 in sewer disconnection costs on 2 accounts plus late fees 
\*\*\*\*Includes \$13,020.74 in sewer disconnection costs on 4 accounts plus late fees 
\*\*\*Includes \$17,128.69 in sewer disconnection costs on 6 accounts plus late fees 
\*\*Includes \$9,256.59 in sewer disconnection costs on 3 accounts plus late fees 
\*Includes \$11,270.09 in sewer disconnection costs on 4 accounts plus late fees

#### Twelve Months Ending December 2019

<u>Month</u>	<u>User Charges</u>	<u>Penalty</u>	<u>Total</u>
12/31/19	\$42,249.41	\$5,545.98	\$47,795.39
11/30/19	44,865.08	6,235.59	51,100.67
10/31/19	44,946.81	5,708.76	50,655.57
9/30/19	49,629.96	6,354.25	55,984.21
8/31/19	46,041.82	5,990.19	52,032.01
7/31/19	44,335.90	5,529.97	49,865.87
6/30/19	44,551.56	5,596.79	50,148.35
5/31/19	41,508.51	5,098.57	46,607.08
4/30/19	37,792.28	4,731.80	42,524.08
3/31/19	39,815.02	4,905.41	44,720.43
2/28/19	43,310.88	5,149.61	48,460.49
1/31/19	40,850.54	4,813.96	45,664.50

Sixteen (16) of twenty-six (26) delinquent accounts that were scheduled for pre-enforcement conferences on December 16, 2019 have paid in full. One account from 2012 and another from 2014 are the only two remaining sewer disconnections.

To: Nick Menninga, General Manager

From: Marc Majewski, Operations Supervisor

Re: Month of December, 2019 WWTC Operations Report.

Date: January 14<sup>th</sup>, 2020

Attached please find detailed operating data and our monthly report to Illinois EPA for December. We had no excursions over our permit limit in December.

Certain highlights of operational activities included:

- Monthly flow: Average daily flows to the plant were 10.34 MGD. Total precipitation at the WWTC was 1.35". There were no excess flow events during the month of December. There were 8 days of discharge over 11 mgd.
- Activated sludge: Good operating performance continued throughout the month of December. Floc formers are predominating leading to good solids settling
- Anaerobic Digesters: Pumped a total of 995,674 gallons of primary sludge, 814,650 gallons of WAS, and 225,771 gallons of waste grease for a total of 2,036,095 gallons pumped to digesters. Total Volatile Solids destruction was calculated at 66.3% for December.
- Digester gas: Total digester gas production was 6,184,156 cubic feet. 109,560 cubic feet of gas was used for anaerobic digestion heat, and 3,569,652 cubic feet was used in the CHP facilities. 1,665,003 cubic feet of flared gas was recorded during the month. The Munters dehumidifier used 839,942 cubic feet of gas.
- Bio-solids: Bio solid drying and deliveries has come to an end for 2019. In total, there were 1,644 cubic yards distributed to the public in 2019. Please note that in the MRO's, biosolids distribution section has been modified to show Class A distribution and Class B land application and is now represented in dry tons. Biosolids mechanics completed a full rebuild of a sludge auger that was purchased as scrap. Auger #5 was completed in early December. Total cost to rebuild including purchase, parts and labor was around \$3,000. This adds one additional auger to our fleet, and saved us over \$15,000 had the auger been purchased as new.
- Miscellaneous Items: On December 3<sup>rd</sup> plant staff completed forklift training. On December 5<sup>th</sup> three tours were given to DGN students. Throughout the month Dahme mechanical completed several piping jobs in the plant that required large shutdowns. RAS #2 piping modifications, two plug valve replacements, grit system 1 piping separation, and replacement 30" piping in the bar screen. December 18<sup>th</sup> plant employees attended Storm water pollution prevention plan training in the maintenance building. This is an annual requirement of our storm water permit.
- Electricity: Overall net energy from ComEd was: 103,772 KW-Hrs. Electricity Generated by the CHP system was 269,845 KW-Hrs. Monthly net energy (including natural gas usage) was 138 MW-Hrs for the month of December.

## Downers Grove Sanitary District December 2019

	WWTC Rainfall	B01 Parshall Flume Flow Max Mgd	B01 Parshall Flume Flow Min Mgd	B01 Parshall Flume Flow Avg Mgd	A01 Parshall Flume Flow Max Mgd	A01 Parshall Flume Flow Avg Mgd	C01 Int Clar #1 Flow Max Mgd	C01 Int Clar #1 Flow Avg Mgd	Outfall 003 Flow Max Mgd	Outfall 003 Flow Avg Mgd	Total Flow Max Mgd	Total Flow Avg Mgd	002 Outfall Flow Avg Mgd
Date	inches	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD
12/1/2019	0.08	25.90	18.56	19.75	0.00	0.00	0.00	0.00	0.00	0.00	25.90	19.75	0.00
12/2/2019	0.00	19.13	13.13	15.97	0.00	0.00	0.00	0.00	0.00	0.00	19.13	15.97	0.00
12/3/2019	0.00	17.87	11.09	13.56	0.00	0.00	0.00	0.00	0.00	0.00	17.87	13.56	0.00
12/4/2019	0.00	17.49	9.12	12.26	0.00	0.00	0.00	0.00	0.00	0.00	17.49	12.26	0.00
12/5/2019	0.00	14.52	7.38	11.07	0.00	0.00	0.00	0.00	0.00	0.00	14.52	11.07	0.00
12/6/2019	0.00	14.45	7.52	10.32	0.00	0.00	0.00	0.00	0.00	0.00	14.45	10.32	0.00
12/7/2019	0.00	14.24	6.42	9.90	0.00	0.00	0.00	0.00	0.00	0.00	14.24	9.90	0.00
12/8/2019	0.00	14.72	6.49	9.84	0.00	0.00	0.00	0.00	0.00	0.00	14.72	9.84	0.00
12/9/2019	0.06	14.64	6.48	9.86	0.00	0.00	0.00	0.00	0.00	0.00	14.64	9.86	0.00
12/10/2019	0.00	13.99	5.84	9.13	0.00	0.00	0.00	0.00	0.00	0.00	13.99	9.13	0.00
12/11/2019	0.00	11.66	5.65	8.81	0.00	0.00	0.00	0.00	0.00	0.00	11.66	8.81	0.00
12/12/2019	0.00	11.63	5.53	8.86	0.00	0.00	0.00	0.00	0.00	0.00	11.63	8.86	0.00
12/13/2019	0.00	11.54	5.60	8.64	0.00	0.00	0.00	0.00	0.00	0.00	11.54	8.64	0.00
12/14/2019	0.00	11.60	5.40	8.43	0.00	0.00	0.00	0.00	0.00	0.00	11.60	8.43	0.00
12/15/2019	0.00	11.44	4.95	8.14	0.00	0.00	0.00	0.00	0.00	0.00	11.44	8.14	0.00
12/16/2019	0.00	11.42	4.95	8.18	0.00	0.00	0.00	0.00	0.00	0.00	11.42	8.18	0.00
12/17/2019	0.00	11.46	4.79	8.11	0.00	0.00	0.00	0.00	0.00	0.00	11.46	8.11	0.00
12/18/2019	0.00	11.54	4.66	7.92	0.00	0.00	0.00	0.00	0.00	0.00	11.54	7.92	0.00
12/19/2019	0.00	11.38	4.54	7.93	0.00	0.00	0.00	0.00	0.00	0.00	11.38	7.93	0.00
12/20/2019	0.00	11.09	4.34	7.75	0.00	0.00	0.00	0.00	0.00	0.00	11.09	7.75	0.00
12/21/2019	0.00	11.62	4.41	7.77	0.00	0.00	0.00	0.00	0.00	0.00	11.62	7.77	0.00
12/22/2019	0.00	11.54	4.33	7.65	0.00	0.00	0.00	0.00	0.00	0.00	11.54	7.65	0.00
12/23/2019	0.00	11.48	4.38	7.75	0.00	0.00	0.00	0.00	0.00	0.00	11.48	7.75	0.00
12/24/2019	0.00	11.76	4.37	7.80	0.00	0.00	0.00	0.00	0.00	0.00	11.76	7.80	0.00
12/25/2019	0.00	11.28	4.27	7.18	0.00	0.00	0.00	0.00	0.00	0.00	11.28	7.18	0.00
12/26/2019	0.00	11.52	4.32	7.55	0.00	0.00	0.00	0.00	0.00	0.00	11.52	7.55	0.00
12/27/2019	0.00	11.37	4.09	7.18	0.00	0.00	0.00	0.00	0.00	0.00	11.37	7.18	0.00
12/28/2019	0.29	10.57	4.16	7.18	0.00	0.00	0.00	0.00	0.00	0.00	10.57	7.18	0.00
12/29/2019	0.85	26.23	8.86	19.59	0.00	0.00	0.00	0.00	0.00	0.00	26.23	19.59	0.00
12/30/2019	0.07	26.14	18.31	21.47	0.00	0.00	0.00	0.00	0.00	0.00	26.14	21.47	0.00
12/31/2019	0.00	18.65	12.78	14.95	0.00	0.00	0.00	0.00	0.00	0.00	18.65	14.95	0.00
Minimum	0.00	10.57	4.09	7.18	0.00	0.00	0.00	0.00	0.00	0.00	10.57	7.18	0.00
Maximum	0.85	26.23	18.56	21.47	0.00	0.00	0.00	0.00	0.00	0.00	26.23	21.47	0.00
Total	1.35	443.90	216.75	320.50	0.00	0.00	0.00	0.00	0.00	0.00	443.90	320.50	0.00
Average	0.04	14.32	6.99	10.34	0.00	0.00	0.00	0.00	0.00	0.00	14.32	10.34	0.00

## Downers Grove Sanitary District December, 2019

	Tertiary Flow MGD	MLSS Avg	Activated Sludge Inventory Lbs MLSS	Activated Sludge SRT Days	15 Minutes Aeration Settling %	30 Minutes Aeration Settling %	60 Minutes Aeration Settling %	Sludge Volume Index	System 1 RAS TSS	System 2 RAS TSS	Dupage River Outfall DO
Date	MGD		LBS	DAYS	mL/L	mL/L	mL/L	mL/g	mg/l	mg/l	mg/l
	10.55										
12/1/2019	19.75		75,790	11.02							
12/2/2019	15.97	2,407	95,571	14.56	40	28	20	114		7,203	8.3
12/3/2019	13.56		94,382	13.97							8.6
12/4/2019	12.26	2,839	107,258	15.65	71	45	26	159		6,881	8.8
12/5/2019	11.07	2,681	103,350	13.80	55	38	24	140	5,872		
12/6/2019	10.32	2,633	103,709	15.92	59	40	25	153		6,064	
12/7/2019	9.90		103,709	15.84							
12/8/2019	9.84		103,709	15.55							
12/9/2019	9.86	2,525	99,961	16.82	54	38	26	150		5,114	8.7
12/10/2019	9.13	2,453	95,724	15.44	54	38	24	153	4,869		9.1
12/11/2019	8.81	2,488	96,787	13.99	56	40	26	158		5,699	9.2
12/12/2019	8.86		96,766	18.04							
12/13/2019	8.64	2,409	93,841	12.88						6,092	
12/14/2019	8.43		93,841	12.84							
12/15/2019	8.14		93,841	13.06							
12/16/2019	8.18	2,566	99,727	15.53	76	58	37	225		5,281	9.1
12/17/2019	8.11	2,607	97,115	14.20	75	60	36	228	3,819		9.0
12/18/2019	7.92	2,570	94,385	13.35	64	49	31	189		5,337	
12/19/2019	7.93	2,563	95,913	13.38	80	64	42	249	4,632		9.2
12/20/2019	7.75	2,383	90,989	13.76						4,832	
12/21/2019	7.77		90,989	14.12							
12/22/2019	7.65		90,989	14.16							
12/23/2019	7.75	2,431	93,754	14.95	87	70	49	286		4,704	9.0
12/24/2019	7.80	,	92,068	14.54						,	8.7
12/25/2019	7.18		91,988	14.57							
12/26/2019	7.55	2,525	91,930	14.35	90	79	60	312	3,640		8.6
12/27/2019	7.18	2,554	91,795	14.15	89	78	60	306	-,	4,496	
12/28/2019	7.18	_,,,,,	91,795	14.06	3.0					.,	
12/29/2019	19.59		91,795	14.18							
12/30/2019	21.47	1,309	80,158	14.32	33	22	15	168		4,784	7.6
12/31/2019	14.95	1,000	80,158	19.23	33		10	100		7,707	8.7
12/3/1/2019	14.30		00,100	19.20							0.7
Minimum	7.18	1,309	75,789.88	11.02	33.00	22.00	15.25	113.56	3,640	4,496	7.6
Maximum	21.47	2,839	107,258.04	19.23	89.50	78.75	60.25	312.45	5,872	7,203	9.2
Total	320.50	41,942	2,923,788.42		981.25	743.50	497.50	2,990.00	22,832	66,487	122.6
Average	10.34	2,467	94,315.71	14.59	65.53	49.80	33.40	199.33	4,566	5,541	8.8

	Tertiary Flow MGD	Influent BOD 5	Primary Clarifier BOD 5	Intermediate Clarifier CBOD 5	Tertiary Effluent CBOD 5	Tertiary Effluent CBOD 5 Load	BOD 5 Removal %	Ambient Air Temp Min	Ambient Air Temp Max	Influent Flow Temp
Date	MGD	mg/l	mg/l	mg/l	mg/l		%	Deg F	Deg F	Deg F
12/1/2019	19.75							32	43	
12/2/2019	15.97							30	38	58.5
12/3/2019	13.56	90		1.8	0.8	90	98.4	29	42	
12/4/2019	12.26	90		1.4	0.6	61	98.3	28	45	58.8
12/5/2019	11.07	188		1.4	0.5	46	99.4	24	48	59.0
12/6/2019	10.32							23	44	
12/7/2019	9.90							23	40	
12/8/2019	9.84							34	48	
12/9/2019	9.86							23	48	58.8
12/10/2019	9.13	188		1.8	0.5	38	99.0	14	24	58.8
12/11/2019	8.81	270	91	1.8	0.5	36.73	99.3	13	27	58.6
12/12/2019	8.86	250	81	1.9	1.2	89	99.1	19	46	58.6
12/13/2019	8.64							32	48	
12/14/2019	8.43							25	34	
12/15/2019	8.14							19	30	
12/16/2019	8.18	142			0.9	61	98.8	24	30	58.3
12/17/2019	8.11	243	85	1.6	1.2	81	99.1	18	29	58.1
12/18/2019	7.92	282	95	1.7	1.3	86	99.2	12	28	57.7
12/19/2019	7.93							16	37	58.2
12/20/2019	7.75							21	42	
12/21/2019	7.77							32	49	
12/22/2019	7.65							33	54	
12/23/2019	7.75							33	54	57.9
12/24/2019	7.80	240			0.6	39	99.0	30	56	
12/25/2019	7.18	255			0.6	36	99.3	41	61	
12/26/2019	7.55	287	120	1.7	0.5	31	99.4	38	64	57.6
12/27/2019	7.18							25	40	
12/28/2019	7.18							26	53	
12/29/2019	19.59							48	58	
12/30/2019	21.47							28	48	54.5
12/31/2019	14.95	96			0.8	100	95.6	25	29	
Minimum	7.18	90	81	1.4	0.50	31	95.6	12	24	54.5
Maximum	21.47	287	120	1.9	1.30	100	99.4	48	64	59.0
Total	320.50	2,621	472	15.1	10.00	796	1,283.9	816	1,336	813.4
Average	10.34	202	94	1.7	0.77	61	98.8	26	43	58.1

	Tertiary Flow MGD	Influent TSS	Primary Clarifier TSS	Intermediate Clarifier TSS	Tertiary Effluent	Tertiary Effluent	TSS Removal %	Influent pH	Primary Clarifier pH	Tertiary Effluent pH	Intermediate pH
					TSS	TSS Load					
Date	MGD	mg/l	mg/l	mg/l	mg/l	lbs/day	%	SU	SU	SU	SU
12/1/2019	19.75	80			0.8	132	99.0				
12/2/2019	15.97	96		3.6	0.7	93	99.3	7.7	7.7	7.3	7.5
12/3/2019	13.56	100		3.7	0.6	68	99.4	7.7	7.7	7.3	7.5
12/4/2019	12.26	76		2.6	0.6	61	99.2	7.7	7.7	7.3	7.5
12/5/2019	11.07	144		2.4	0.5	46	99.7	7.7	7.7	7.3	7.5
12/6/2019	10.32	136			0.5	43	99.6	7.7	7.7	7.2	7.4
12/7/2019	9.90	192			0.9	74	99.5				
12/8/2019	9.84				0.8	66					
12/9/2019	9.86	172		2.6	0.6	49	99.7	7.6	7.7	7.3	7.3
12/10/2019	9.13	184		4.2	0.6	46	99.7	7.7	7.7	7.2	7.3
12/11/2019	8.81	240	53	3.8	0.6	44	99.8	7.7	7.6	7.2	7.3
12/12/2019	8.86	240	54	3.6	0.4	30	99.8	7.6	7.7	7.1	7.2
12/13/2019	8.64	220			0.4	29	99.8	7.7	7.6	7.1	7.2
12/14/2019	8.43	235			0.7	49	99.7				
12/15/2019	8.14	114			0.5	34	99.6				
12/16/2019	8.18	162	44	2.8	0.3	20	99.8	7.7	7.6	7.2	7.3
12/17/2019	8.11	230	44	2.8	0.4	27	99.8	7.7	7.6	7.1	7.2
12/18/2019	7.92	230	52	3.6	0.7	46	99.7	7.8	7.7	7.1	7.2
12/19/2019	7.93	194	74	3.0	0.6	40	99.7	7.7	7.6	7.1	7.2
12/20/2019	7.75	168			0.6	39	99.6	7.6	7.6	7.1	7.1
12/21/2019	7.77	164			0.6	39	99.6				
12/22/2019	7.65	172			0.4	26	99.8				
12/23/2019	7.75	204			0.6	39	99.7	7.5	7.5	7.2	7.2
12/24/2019	7.80	176			0.5	33	99.7	7.6	7.6	7.2	7.2
12/25/2019	7.18	212			0.4	24	99.8				
12/26/2019	7.55	240	46	2.5	0.2	13	99.9	7.6	7.5	7.2	7.2
12/27/2019	7.18	216			0.4	24	99.8	7.5	7.6	7.1	7.2
12/28/2019	7.18	272			0.4	24	99.9				
12/29/2019	19.59	188			1.3	212	99.3				
12/30/2019	21.47	96			1.3	233	98.6	7.6	7.7	7.2	7.4
12/31/2019	14.95	84			0.5	62	99.4	7.7	7.8	7.5	7.5
Minimum	7.18	76	44	2.4	0.2	13	98.6	7.5	7.5	7.1	7.1
Maximum	21.47	272	74	4.2	1.3	233	99.9	7.8	7.8	7.5	7.5
Total	320.50	5,237	367	41.2	18.4	1,764	2,987.9	160.8	160.6	151.3	153.4
Average	10.34	175	52	3.2	0.6	57	99.6	7.7	7.6	7.2	7.3

Downers Grove Sanitary District December, 2019

## **MONTHLY OPERATIONS REPORT PAGE 5**

	Tertiary	Influent	Tertiary	Tertiary Effluent	Chlorine	Fecal
	Flow	Ammonia-N	Ammonia-N	Ammonia-N Load	Residual	Coliform
Date	MGD	mg/l	mg/l	lbs/day	mg/l	col/100ml
12/1/2019	19.75	11.9.1	0.06	9.9	0.05	
12/2/2019	15.97	9.86	0.08	10.7		
12/3/2019	13.56	13.58	0.04	4.5	0.02	
12/4/2019	12.26	9.86	0.05	5.1		
12/5/2019	11.07	15.90	0.06	5.5		
12/6/2019	10.32					
12/7/2019	9.90					
12/8/2019	9.84		0.03	2.5		
12/9/2019	9.86	19.88	0.03	2.5		
12/10/2019	9.13	21.08	0.09	6.9		
12/11/2019	8.81	32.76	0.11	8.1		
12/12/2019	8.86	23.08	0.28	20.7		
12/13/2019	8.64					
12/14/2019	8.43					
12/15/2019	8.14	18.44	0.01	0.7		
12/16/2019	8.18	26.64	0.02	1.4		
12/17/2019	8.11	28.48	0.11	7.4		
12/18/2019	7.92	24.76	0.09	5.9		
12/19/2019	7.93	24.00	0.06	4.0		
12/20/2019	7.75					
12/21/2019	7.77					
12/22/2019	7.65	23.38	0.04	2.6		
12/23/2019	7.75	26.06	0.03	1.9		
12/24/2019	7.80					
12/25/2019	7.18	29.38	0.06	3.6		
12/26/2019	7.55	30.22	0.06	3.8		
12/27/2019	7.18					
12/28/2019	7.18					
12/29/2019	19.59	9.24	0.12	19.6	0.04	
12/30/2019	21.47	8.56	1.03	184.4		
12/31/2019	14.95					
Minimum	7.18	8.56	0.01	0.7	0.02	
Maximum	21.47	32.76	1.03	184.4	0.05	
Total	320.50	395.16	2.46	311.6	0.11	
Average	10.34	20.80	0.12	14.8	0.04	

SLUDGE DATA					
Primary Sludge	TS	3.22	%	995,674	Gallons
WAS to Digesters	TS	2.76	%	814,650	Gallons
Hauled Grease to Digs	TS	11.06	%	225,771	Gallons
Anaerobically Digested Sludge Pur	mping				
Drying Beds	TS	3.43	%	195,720	Gallons
BFP	TS	1.83	%	980,075	Gallons
Lagoons	TS		%		Gallons
Total				1,175,795	Gallons
VS Destruction				66.3	%
Biosolids Disposal					
Class A Distrib	ution	Dec			Dry Tons
Class B Ha	auling	Dec			Dry Tons
	Total	Dec			Dry Tons
Class A Distrib	ution	YTD		938	Dry Tons
Class B Ha	auling	YTD		619	Dry Tons
	Total	YTD		1,557	Dry Tons
ENERGY DATA					
Total Digester Ga	e Droc	luction		6,184,156	SCE
Gas Volume per Volatile				, ,	Cu.Ft./Lb.
Digester Gas Utilization	Golius	s Luau		10.5	Cu.i t./Lb.
=	t Exch:	angers		109,560	SCF
		ication		839,942	
26.	iaiiiiaii	CHP		3,569,652	
		Total		4,519,154	
<u>Digester Gas Flared</u>				1,665,003	
Natural Gas Consumed				, ,	
	٧	vwtc		31,600	SCF
		MSB		43,950	
Cł	nemica	al Feed		34,700	SCF
	5006 \	Walnut		32,167	SCF
Kilowatt-hours Generated CHP				269,845	KWH
Net energy from Comed				103,772	KWH
Monthly net energy				138	MWH

Grit Removal Dec Grit Removal YTD

Anaerobic Supernate

Waste Activated Sludge City Water Consumed 20 Cu. Yds

280 Cu. Yds 814,399 Gallons

143,711 Gals/Day

15,708 Gallons

**MISCELLANEOUS** 

Downers Grove Sanitary District December, 2019

## **Monthly Operations Report Page 6**

	Tertiary Flow MGD	Influent Phosphorus	Tertiary Effluent Phosphorus	Influent Phosphorus Load	Tertiary Effluent Phosphorus Load	Phosphorus Removal %	Influent Nitrogen	Tertiary Effluent Nitrogen	Influent Nitrogen Load	Tertiary Effluent Nitrogen Load	Nitrogen Removal %	Tertiary Effluent Nitrate Grab
Date	MGD	mg/l	mg/l	lbs/day	lbs/day	%	mg/l	mg/l	lbs/day	lbs/day	%	mg/l
12/1/2019	19.75											
12/2/2019	15.97	2.60	0.98	338.9	130.50	62.3						
12/3/2019	13.56											
12/4/2019	12.26											
12/5/2019	11.07											
12/6/2019	10.32											18.14
12/7/2019	9.90											
12/8/2019	9.84											
12/9/2019	9.86						29.9	15.9	2,431.3	1,308.1	46.2	
12/10/2019	9.13											
12/11/2019	8.81											
12/12/2019	8.86	5.86	3.12	429.4	230.6	46.8						23.91
12/13/2019	8.64											
12/14/2019	8.43											
12/15/2019	8.14											
12/16/2019	8.18											
12/17/2019	8.11	6.44	2.61	441.4	176.5	59.5						
12/18/2019	7.92											
12/19/2019	7.93											
12/20/2019	7.75											25.56
12/21/2019	7.77											
12/22/2019	7.65											
12/23/2019	7.75											
12/24/2019	7.80											
12/25/2019	7.18	6.31	3.44	366.3	206.1	45.5						
12/26/2019	7.55											
12/27/2019	7.18											27.31
12/28/2019	7.18											
12/29/2019	19.59	3.87	2.84	631.8	464.0	26.6						
12/30/2019	21.47											5.27
12/31/2019	14.95											
Minimum	7.18	2.60	0.98	338.9	130.5	26.6	29.9	15.9	2,431.3	1,308.1	46.2	5.27
Maximum	21.47	6.44	3.44	631.8	464.0	62.3	29.9	15.9	2,431.3	1,308.1	46.2	27.31
Total	320.50	25.08	12.99	2,207.9	1,207.7	240.6	29.9	15.9	2,431.3	1,308.1	46.2	100.19
Average	10.34	5.02	2.60	441.6	241.5	48.1	29.9	15.9	2,431.3	1,308.1	46.2	20.04

Permit

Major:

Permit #: IL0028380

DOWNERS GROVE SANITARY DISTRICT Permittee:

2710 CURTISS STREET PO BOX 1412 Permittee Address:

DOWNERS GROVE, IL 60515

Facility: **Facility Location: 5003 WALNUT AVENUE** 

DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER

DOWNERS GROVE, IL 60515

001 **Permitted Feature:** 

External Outfall

Menninga

Yes

Discharge: 001-0

Title:

COMBINED DISCHARGE FROM A01, B01, & C01

Report Dates & Status

**Monitoring Period:** From 12/01/19 to 12/31/19 **DMR Due Date:** 01/25/20 Status: **NetDMR Validated** 

**Considerations for Form Completion** 

NUMBER OF DAYS OF DISCHARGE.COMBINED OUTFALLS: A01-MIXING CHAMBER DISCHARGE TO E BR OF DUPAGE RIVER-EFFECTIVE WHEN FLOWS TO TRT PLT ARE GREATER THAN 22 MGD & EXCESS FLOW FAC IS IN OPERATION. 002 BECOMES OPERATIONAL WHEN 001, A01,& B01 EXCEED 30 MGD.

**Principal Executive Officer** 

First Name: Nicholas General Manager

Telephone:

630-969-0664

No Data Indicator (NODI)

Last Name:

Form NODI:

Parameter	Monitoring Location	on Season # Param. NO	OI			Quantity or	r Loading					Qual	ity or Co	oncentration		# of E	Ex. Frequency of Analysis	Sample Type
Code Name				Qualifier '	Value 1 Qua	alifier 2	Value 2	Units	Qualifier '	Value 1	Qualifier :	2 Value 2	Qualif	ier 3 Value 3	Units			
			Sample						=	8.8	=	8.6	=	7.6	19 - mg/L		03/DW - 3 Days Every Week	GR - GRAB
00300 Oxygen, dissolved [DO]	1 - Effluent Gross	0	Permit Req							Req Mon MO AV MN	I	Req Mon MN WK A	/	Req Mon DAILY MN	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
			Value NOD	I														
			Sample								-	2.0	-	2.0	19 - mg/L		03/DW - 3 Days Every Week	CP - COMPOS
00310 BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	Permit Req								<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
			Value NOD	I														
			Sample						-	7.1			=	7.5	12 - SU		05/DW - 5 Days Every Week	GR - GRAB
00400 pH	1 - Effluent Gross	0	Permit Req						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	DL/DS - Daily When Discharging	GR - GRAB
			Value NOD	I														
			Sample								-	0.6	=	0.7	19 - mg/L		05/DW - 5 Days Every Week	CP - COMPOS
00530 Solids, total suspended	1 - Effluent Gross	0	Permit Req								<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
			Value NOD	I														
			Sample								=	0.12	=	1.03	19 - mg/L		05/DW - 5 Days Every Week	CP - COMPOS
00610 Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	Permit Req									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
			Value NOD	I														
			Sample										-	3.44	19 - mg/L		05/30 - 5 Times Every Month	CP - COMPOS
00665 Phosphorus, total [as P]	1 - Effluent Gross	0	Permit Req											Req Mon DAILY MX	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
			Value NOD	I														
			Sample								=	0.04			19 - mg/L		03/30 - Three Per Month	GR - GRAB
50060 Chlorine, total residual	1 - Effluent Gross	0	Permit Req								<=	0.75 MO AVG			19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
			Value NOD	I														
			Sample															
74055 Coliform, fecal general	1 - Effluent Gross	0	Permit Req										<=	400.0 DAILY MX	13 - #/100ml		DL/DS - Daily When Discharging	GR - GRAB
			Value NOD	I										9 - Conditional Monitoring - Not Required This	Period			
			Sample		-	320	0.5	80 - Mgal/m	10								99/99 - Continuous	
82220 Flow, total	1 - Effluent Gross	0	Permit Req			Red	q Mon MO TOTA	L 80 - Mgal/m	10							0	99/99 - Continuous	
			Value NOD	I														

**Submission Note** 

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors** 

No errors.

Comments

Zero days discharge combined with A01 or C01.

**Attachments** 

No attachments.

Report Last Saved By

**DOWNERS GROVE SANITARY DISTRICT** 

User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org

2020-01-15 09:18 (Time Zone: -06:00) Date/Time:

Report Last Signed By

User: reeseberry

Name: Dorrance Berry

E-Mail: rberry@dgsd.org

Date/Time: 2020-01-15 09:30 (Time Zone: -06:00)

Permit

Major:

Permit #: IL0028380

Yes

Permittee: DOWNERS GROVE SANITARY DISTRICT

Permittee Address: 2710 CURTISS STREET PO BOX 1412

DOWNERS GROVE, IL 60515

Facility: DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER

Facility Location: 5003 WALNUT AVENUE DOWNERS GROVE, IL 60515

Permitted Feature: 002 Discharge: 002-0

External Outfall MIXING CHMBR OVERFLOW TO ST. JOSEPH CRK

Report Dates & Status

Monitoring Period: From 12/01/19 to 12/31/19 DMR Due Date: 01/25/20 Status: NetDMR Validated

Considerations for Form Completion
NUMBER OF DAYS OF DISCHARGE:CS

**Principal Executive Officer** 

First Name: Nicholas Title: General Manager Telephone: 630-969-0664

Last Name: Menninga

No Data Indicator (NODI)

Pa	arameter	Monitoring Location	on Season	# Param NOD	I .			Quantity	or Loading					Quality or Conce	ntration			# of Ex.	Frequency of Analysis	Sample Typ
		morntoring Location	on ocason	# I didili. NOD						1							1	# OI LX.	1 requestey of Analysis	oampic Ty
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier :	2 Value 2	Qualifier	3 Value 3	Units			
					Sample															
00300 Oxygen, o	dissolved [DO]	1 - Effluent Gross	0		Permit Req											Req Mon DAILY MN	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
					Value NOD											C - No Discharge				
					Sample															
00310 BOD, 5-d	day, 20 deg. C	1 - Effluent Gross	0		Permit Req								<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
					Value NOD	I								C - No Discharg	е	C - No Discharge				
					Sample															
00400 pH		1 - Effluent Gross	0		Permit Req						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		DL/DS - Daily When Discharging	GR - GRAB
					Value NOD	I						C - No Discharge	Э			C - No Discharge				
					Sample															
OOESO Colido to	لدمام محمد بمامة	1 Effluent Cross	0		Dormit Dog									20 0 MO AVC		AE O MIZL V AVIC	10 ma/l		DL/DC Doily When Discharging	CD CDAD

			Tulus Ito I					0 110 Biodilaig	~	o ito biodilaigo			
			Sample										
00400 pH	1 - Effluent Gross	0	 Permit Req.		>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	DL/DS - Daily When Discharging G	R - GRAB
			Value NODI			C - No Discharge				C - No Discharge			
			Sample										
00530 Solids, total suspended	1 - Effluent Gross	0	 Permit Req.				<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L	DL/DS - Daily When Discharging G	R - GRAB
			Value NODI					C - No Discharge	е	C - No Discharge			
			Sample										
00610 Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	 Permit Req.							Req Mon DAILY MX	( 19 - mg/L	DL/DS - Daily When Discharging G	R - GRAB
			Value NODI							C - No Discharge			
			Sample										
00665 Phosphorus, total [as P]	1 - Effluent Gross	0	 Permit Req.							Req Mon DAILY MX	( 19 - mg/L	DL/DS - Daily When Discharging G	R - GRAB
			Value NODI							C - No Discharge			
			Sample										
50060 Chlorine, total residual	1 - Effluent Gross	0	 Permit Req.				<=	0.75 MO AVG			19 - mg/L	DL/DS - Daily When Discharging G	R - GRAB
			Value NODI					C - No Discharg	е				
			Sample										
74055 Coliform, fecal general	1 - Effluent Gross	0	 Permit Req.						<=	400.0 DAILY MX	13 - #/100mL	DL/DS - Daily When Discharging G	R - GRAB
			Value NODI							C - No Discharge			
			Sample										
82220 Flow, total	1 - Effluent Gross	0	 Permit Req.	Req Mon MO TOTAL 80 - Mgal	/mo							DL/DS - Daily When Discharging	

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

C - No Discharge

Value NODI

**Edit Check Errors** 

No errors.

Comments

**Attachments** 

No attachments.

Report Last Saved By

**DOWNERS GROVE SANITARY DISTRICT** 

User: reeseberry
Name: Dorrance Berry
E-Mail: rberry@dgsd.org

Date/Time: 2020-01-15 09:18 (Time Zone: -06:00)

Report Last Signed By

 User:
 reeseberry

 Name:
 Dorrance Berry

 E-Mail:
 rberry@dgsd.org

 Date/Time:
 2020-01-15 09:30 (Time Zone: -06:00)

Permit

IL0028380 Permit #:

Permittee: DOWNERS GROVE SANITARY DISTRICT

Major: Yes **Permittee Address:** 

2710 CURTISS STREET PO BOX 1412

DOWNERS GROVE, IL 60515

Facility Location: **5003 WALNUT AVENUE** DOWNERS GROVE, IL 60515

003 **Permitted Feature:** 

External Outfall

Discharge: 003-0

Title:

EXCESS FLOW TO ST. JOSEPH CRK

Report Dates & Status

**Monitoring Period:** From 12/01/19 to 12/31/19 **DMR Due Date:** 01/25/20 Status:

**NetDMR Validated** 

DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER

**Considerations for Form Completion** 

NUMBER OF DAYS OF DISCHARGE:CS

**Principal Executive Officer** 

First Name:

Nicholas Menninga General Manager

Telephone:

Facility:

630-969-0664

No Data Indicator (NODI)

Form NODI:

Last Name:

Parameter	Monitoring Location	Season #	# Param. NODI		Quantity (	or Loading				C	Quality or Conce	ntration			# of Ex.	Frequency of Analysis	Sample Typ
Code Name					Qualifier 1 Value 1 Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
				Sample													
00300 Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req.									Req Mon DAILY MN	19 - mg/L		DL/DS - Daily When Discharging	g GR - GRAB
				Value NODI									C - No Discharge				
				Sample													
0310 BOD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req.						<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L		DL/DS - Daily When Discharging	g GR - GRAB
				Value NODI							C - No Discharge	•	C - No Discharge				
				Sample													
0400 pH	1 - Effluent Gross	0		Permit Req.				>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		DL/DS - Daily When Discharging	g GR - GRAB
				Value NODI					C - No Discharge	:			C - No Discharge				
				Sample													
0530 Solids, total suspended	1 - Effluent Gross	0		Permit Req.						<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L		DL/DS - Daily When Discharging	g GR - GRAB
				Value NODI							C - No Discharge	)	C - No Discharge				
				Sample													
0610 Nitrogen, ammonia total [as N]	1 - Effluent Gross	0		Permit Req.									Req Mon DAILY MX	19 - mg/L		DL/DS - Daily When Discharging	g GR - GRAB
				Value NODI									C - No Discharge				
				Sample													
0665 Phosphorus, total [as P]	1 - Effluent Gross	0		Permit Req.									Req Mon DAILY MX	19 - mg/L		DL/DS - Daily When Discharging	g GR - GRAB
				Value NODI									C - No Discharge				
				Sample													
0060 Chlorine, total residual	1 - Effluent Gross	0		Permit Req.						<=	0.75 MO AVG			19 - mg/L		DL/DS - Daily When Discharging	g GR - GRAB
				Value NODI							C - No Discharge	•					
				Sample													
4055 Coliform, fecal general	1 - Effluent Gross	0		Permit Req.								<=	400.0 DAILY MX	13 - #/100m	L	DL/DS - Daily When Discharging	g GR - GRAB
				Value NODI									C - No Discharge				
				Sample													
S2220 Flow, total	1 - Effluent Gross	0		Permit Req.	R	eq Mon MO TOTAL	80 - Mgal/mo	0								DL/DS - Daily When Discharging	g
				Value NODI	C	- No Discharge											

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors** 

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

**DOWNERS GROVE SANITARY DISTRICT** 

User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org

Date/Time: 2020-01-15 09:18 (Time Zone: -06:00)

Report Last Signed By

 User:
 reeseberry

 Name:
 Dorrance Berry

 E-Mail:
 rberry@dgsd.org

 Date/Time:
 2020-01-15 09:30 (Time Zone: -06:00)

Permit Permittee: DOWNERS GROVE SANITARY DISTRICT DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER Permit #: IL0028380 Facility: 2710 CURTISS STREET PO BOX 1412 **Facility Location:** Major: Yes Permittee Address: **5003 WALNUT AVENUE** DOWNERS GROVE, IL 60515 DOWNERS GROVE, IL 60515 A01 Discharge: **Permitted Feature:** A01-0 EXCESS FLOW FROM EXCESS FLOW CLARIFIERS External Outfall Report Dates & Status **DMR Due Date:** Monitoring Period: From 12/01/19 to 12/31/19 01/25/20 Status: **NetDMR Validated Considerations for Form Completion** NUMBER OF DAYS OF DISCHARGE:CS **Principal Executive Officer** Title: General Manager Telephone: First Name: Nicholas 630-969-0664 Last Name: Menninga No Data Indicator (NODI) Form NODI: Monitoring Location Season # Param. NODI Parameter **Quantity or Loading Quality or Concentration** # of Ex. Frequency of Analysis Sample Type Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 3 Value 3 Code Sample 00310 BOD, 5-day, 20 deg. C 1 - Effluent Gross Req Mon DAILY MX 19 - mg/L DL/DS - Daily When Discharging GR - GRAB **Permit Red** Value NODI C - No Discharge Sample 00530 Solids, total suspended 1 - Effluent Gross Permit Req. Req Mon DAILY MX 19 - mg/L DL/DS - Daily When Discharging GR - GRAB Value NODI C - No Discharge Sample 00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross Permit Req. Req Mon DAILY MX 19 - mg/L DL/DS - Daily When Discharging GR - GRAB Value NODI C - No Discharge Sample 00665 Phosphorus, total [as P] Req Mon DAILY MX 19 - mg/L DL/DS - Daily When Discharging GR - GRAB 1 - Effluent Gross Permit Req. Value NODI C - No Discharge Sample 82220 Flow, total Reg Mon MO TOTAL 80 - Mgal/mo DL/DS - Daily When Discharging CN - CONTIN 1 - Effluent Gross Permit Rea. Value NODI C - No Discharge **Submission Note** If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type. **Edit Check Errors** No errors. Comments **Attachments** No attachments. Report Last Saved By **DOWNERS GROVE SANITARY DISTRICT** User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org Date/Time: 2020-01-15 09:19 (Time Zone: -06:00) Report Last Signed By User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org Date/Time: 2020-01-15 09:30 (Time Zone: -06:00)

Permit #:

Major:

IL0028380

Yes

Permittee:
Permittee Address:

Title:

DOWNERS GROVE SANITARY DISTRICT

2710 CURTISS STREET PO BOX 1412

DOWNERS GROVE, IL 60515

ET PO BOX 1412 Facility Location:

: 5003 WALNUT AVENUE DOWNERS GROVE, IL 60515

DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER

Permitted Feature: B01

External Outfall

Discharge: B01-0

INTERNAL MIXING CHMBR - E. BR. DUPAGE RVR

Report Dates & Status

Monitoring Period: From 12/01/19 to 12/31/19

DMR Due Date: 01/25/20

Status: NetDMR Validated

**Considerations for Form Completion** 

DMF LOAD LIMITS DISPLAYED.

**Principal Executive Officer** 

First Name: Nicholas

Nicholas Menninga General Manager

Telephone:

Facility:

630-969-0664

No Data Indicator (NODI)

Form NODI:

Last Name:

	Parameter	Monitoring Location	n Seaso	on # Param. NOD	ı		Qu	antity or Lo	ading				Q	uality or Conc	entration		# of E	x. Frequency of Analysis	Sample Type
Code	Name	5 == 5.00				Qualifier 1		Qualifier 2		Units	Qualifier '	1 Value 1	Qualifier		Qualifier 3	Value 3	Units	, , , , , , , , , , , , , , , , , , , ,	,,,,,,,
					Sample										-	52.2	15 - deg F	01/30 - Monthly	GR - GRAB
00011	Temperature, water deg. fahrenheit	1 - Effluent Gross	0		Permit Req.											Req Mon MO MAX	15 - deg F 0	01/30 - Monthly	GR - GRAB
					Value NODI	I													
					Sample						=	8.8	=	8.6	=	7.6	19 - mg/L	05/DW - 5 Days Every Week	GR - GRAB
00300	Dxygen, dissolved [DO]	1 - Effluent Gross	1		Permit Req.						>=	5.5 MO AV MN	N >=	4.0 MN WK A	V >=	3.5 DAILY MN	19 - mg/L 0	02/DA - 2 Days Every Week	GR - GRAB
					Value NODI	I													
					Sample						=	7.1			=	7.5	12 - SU	05/DW - 5 Days Every Week	GR - GRAB
00400	ÞΗ	1 - Effluent Gross	0		Permit Req						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU 0	02/DA - 2 Days Every Week	GR - GRAB
					Value NODI	l .									=	220.0	10/1	04/20 Manthly	CP - COMPOS
00440	Alkalinity, total [as CaCO3]	1 - Effluent Gross	0		Sample Permit Req.										-	Reg Mon DAILY MX	19 - mg/L	01/30 - Monthly 01/30 - Monthly	CP - COMPOS
00410	Rikalifity, total [as CaCO3]	1 - Elliuelli Gloss	U		Value NODI											Red MOIL DAILT MY	. 19 - IIIg/L 0	01/30 - Monthly	CF - COMFOS
					Sample		56.9	=	232.8	26 - lb/d			=	0.6	=	1.3	19 - mg/L	05/DW - 5 Days Every Week	CP - COMPOS
00530	Solids, total suspended	1 - Effluent Gross	0		Permit Req.		2202.0 MO AVG	<=		26 - lb/d			<=	12.0 MO AVG		24.0 DAILY MX	19 - mg/L 0	02/DA - 2 Days Every Week	CP - COMPOS
					Value NODI													., ., ., .,	
					Sample										=	15.9	19 - mg/L	01/30 - Monthly	CP - COMPOS
00600	Nitrogen, total [as N]	1 - Effluent Gross	0		Permit Req.											Req Mon DAILY MX	19 - mg/L 0	01/30 - Monthly	CP - COMPOS
					Value NODI	I													
					Sample	=	14.84	=	184.45	26 - lb/d			=	0.12	=	1.03	19 - mg/L	05/DW - 5 Days Every Week	CP - COMPOS
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	11		Permit Req.		734.0 MO AVG	<=	1376.0 DAILY MX	26 - lb/d			<=	4.0 MO AVG	<=	7.5 DAILY MX	19 - mg/L 0	02/DA - 2 Days Every Week	CP - COMPOS
					Value NODI	I													
					Sample										=	1.2	19 - mg/L	01/30 - Monthly	CP - COMPOS
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	-	Permit Req.											Req Mon DAILY MX	. 19 - mg/L 0	01/30 - Monthly	CP - COMPOS
					Sample	•									_	14.7	19 - mg/L	01/30 - Monthly	CA - CALCTD
00630	Nitrite + Nitrate total [as N]	1 - Effluent Gross	0		Permit Req.										-	Reg Mon DAILY MX	-	01/30 - Monthly	CA - CALCTD
00000	with Frittale total [do 14]	1 Emaoni Grood			Value NODI											rtoq Mon Brazilia	10 1119/2	o incoming	ON ONLOTE
					Sample										=	3.44	19 - mg/L	05/30 - 5 Times Every Month	CP - COMPOS
00665	Phosphorus, total [as P]	1 - Effluent Gross	0		Permit Req.											Req Mon DAILY MX	19 - mg/L 0	01/30 - Monthly	CP - COMPOS
					Value NODI	I													
					Sample										=	3.04	19 - mg/L	01/30 - Monthly	CP - COMPOS
00666	Phosphorus, dissolved	1 - Effluent Gross	0		Permit Req.											Req Mon DAILY MX	19 - mg/L 0	01/30 - Monthly	CP - COMPOS
					Value NODI	I													
					Sample										=	162.0	19 - mg/L	01/30 - Monthly	GR - GRAB
00940	Chloride [as Cl]	1 - Effluent Gross	0		Permit Req											Req Mon DAILY MX	19 - mg/L 0	01/30 - Monthly	GR - GRAB
					Value NODI		10.34	=	21.47	03 - MGI	n							99/99 - Continuous	
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0		Sample Permit Req.		Reg Mon MO AVO		Reg Mon DAILY MX								0	99/99 - Continuous	
30030	now, in conduit or thru treatment plant	1 - Lilluelli Gloss	U		Value NODI		Req Mon MO AV	3	Red MOII DAILT MA	( 03 - MGI							0	99/99 - Collillidous	
					Sample										=	0.05	19 - mg/L	03/30 - Three Per Month	GR - GRAB
50060	Chlorine, total residual	1 - Effluent Gross	1		Permit Req.										<=	0.05 DAILY MX	19 - mg/L 0	CL/OC - Chlorination/Occurances	
					Value NODI												Ŭ		
					Sample	=	61.24	-	99.73	26 - lb/d			=	0.8	-	1.3	19 - mg/L	03/DW - 3 Days Every Week	CP - COMPOS
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0		Permit Req.	. <=	1835.0 MO AVG	<=	3670.0 DAILY MX	26 - lb/d			<=	10.0 MO AVG	<=	20.0 DAILY MX	19 - mg/L 0	02/DA - 2 Days Every Week	CP - COMPOS
					Value NODI	I													

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors No errors. Comments Attachments No attachments. Report Last Saved By DOWNERS GROVE SANITARY DISTRICT User: reeseberry Name: Dorrance Berry rberry@dgsd.org E-Mail: Date/Time: 2020-01-15 09:29 (Time Zone: -06:00) Report Last Signed By User: reeseberry Name: Dorrance Berry

rberry@dgsd.org

2020-01-15 09:30 (Time Zone: -06:00)

E-Mail:

Date/Time:

Permit DOWNERS GROVE SANITARY DISTRICT Facility: DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER Permit #: IL0028380 Permittee: 2710 CURTISS STREET PO BOX 1412 **Facility Location: 5003 WALNUT AVENUE** Major: Yes **Permittee Address:** DOWNERS GROVE, IL 60515 DOWNERS GROVE, IL 60515 C01 Discharge: **Permitted Feature:** C01-0 External Outfall **EXCESS FLOW FROM CLARIFIER #1** Report Dates & Status **Monitoring Period:** From 12/01/19 to 12/31/19 **DMR Due Date:** 01/25/20 Status: **NetDMR Validated Considerations for Form Completion** NUMBER OF DAYS OF DISCHARGE:CS **Principal Executive Officer** Nicholas Title: General Manager Telephone: First Name: 630-969-0664 Last Name: Menninga No Data Indicator (NODI) Form NODI: Monitoring Location Season # Param. NODI Parameter **Quantity or Loading Quality or Concentration** # of Ex. Frequency of Analysis Sample Type Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 3 Value 3 Code Sample DL/DS - Daily When Discharging GR - GRAB 00310 BOD, 5-day, 20 deg. C 1 - Effluent Gross Req Mon DAILY MX 19 - mg/L **Permit Red** Value NODI C - No Discharge Sample 00530 Solids, total suspended 1 - Effluent Gross Permit Req. Req Mon DAILY MX 19 - mg/L DL/DS - Daily When Discharging GR - GRAB Value NODI C - No Discharge Sample 00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross Permit Req. Req Mon DAILY MX 19 - mg/L DL/DS - Daily When Discharging GR - GRAB Value NODI C - No Discharge Sample Req Mon DAILY MX 19 - mg/L 00665 Phosphorus, total [as P] DL/DS - Daily When Discharging GR - GRAB 1 - Effluent Gross Permit Req. Value NODI C - No Discharge Sample 82220 Flow, total Reg Mon MO TOTAL 80 - Mgal/mo DL/DS - Daily When Discharging CN - CONTIN 1 - Effluent Gross Permit Rea. Value NODI C - No Discharge **Submission Note** If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type. **Edit Check Errors** No errors. Comments **Attachments** No attachments. Report Last Saved By **DOWNERS GROVE SANITARY DISTRICT** User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org Date/Time: 2020-01-15 09:28 (Time Zone: -06:00) Report Last Signed By User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org Date/Time: 2020-01-15 09:30 (Time Zone: -06:00)

E-Mail:

Date/Time:

rberry@dgsd.org

2020-01-15 09:30 (Time Zone: -06:00)

Permit DOWNERS GROVE SANITARY DISTRICT DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER Permit #: IL0028380 Permittee: Facility: **Facility Location:** Major: Yes Permittee Address: 2710 CURTISS STREET PO BOX 1412 **5003 WALNUT AVENUE** DOWNERS GROVE, IL 60515 DOWNERS GROVE, IL 60515 INF Discharge: INF-L **Permitted Feature:** Influent Structure INFLUENT MONITORING Report Dates & Status **DMR Due Date: Monitoring Period:** From 12/01/19 to 12/31/19 01/25/20 Status: **NetDMR Validated Considerations for Form Completion Principal Executive Officer** Nicholas Title: General Manager Telephone: **First Name:** 630-969-0664 **Last Name:** Menninga No Data Indicator (NODI) Form NODI: Monitoring Location Season # Param. NODI **Quantity or Loading Quality or Concentration** # of Ex. Frequency of Analysis Sample Type Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 3 Units Sample 19 - mg/L 09/99 - See Permit CP - COMPOS CP - COMPOS 00310 BOD, 5-day, 20 deg. C G - Raw Sewage Influent 0 09/99 - See Permit Permit Red Reg Mon MO AVG 19 - mg/L 0 Value NODI Sample 175.0 19 - mg/L 09/99 - See Permit CP - COMPOS 00530 Solids, total suspended G - Raw Sewage Influent 0 Permit Reg. Req Mon MO AVG 19 - mg/L 0 09/99 - See Permit CP - COMPOS Value NODI 01/30 - Monthly CP - COMPOS Sample 19 - mg/L 00600 Nitrogen, total [as N] G - Raw Sewage Influent 0 Permit Req Req Mon DAILY MX 19 - mg/L 0 01/30 - Monthly CP - COMPOS Value NODI 05/30 - 5 Times Every Month CP - COMPOS Sample 19 - mg/L 00665 Phosphorus, total [as P] Req Mon DAILY MX 19 - mg/L 0 01/30 - Monthly CP - COMPOS G - Raw Sewage Influent 0 Permit Req. Value NODI 10.32 03 - MGD 99/99 - Continuous Sample 22.01 Reg Mon DAILY MX 03 - MGD 50050 Flow, in conduit or thru treatment plant G - Raw Sewage Influent 0 Reg Mon MO AVG 99/99 - Continuous Permit Reg. Value NODI **Submission Note** If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type. **Edit Check Errors** No errors. **Comments Attachments** No attachments. Report Last Saved By **DOWNERS GROVE SANITARY DISTRICT** User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org Date/Time: 2020-01-15 09:29 (Time Zone: -06:00) Report Last Signed By User: reeseberry Name: Dorrance Berry

#### DOWNERS GROVE SANITARY DISTRICT

#### MEMO

TO: Nicholas J. Menninga, General Manager

FROM: Jeff Barta, Maintenance Supervisor

**DATE:** January 16, 2020

SUBJECT: December 2019 Maintenance Report

Attached is a work order summary detailing equipment repair and preventive maintenance activities conducted by the maintenance/electrical department and operations during December 2019.

Special projects in December included:

### Hypochlorite & Bisulfite Storage Tanks – Inspections & Repairs

The repairs on the remaining 3 hypochlorite tanks that were mentioned in last month's report have been completed by Repair Service Corp at a revised cost of \$11,660.00 (the original quote was \$12,852.00). All of our hypochlorite and bisulfite tanks are now back in service.

## Earlston Lift Station - Pump 1 Overhaul

After 12 years of service, pump 1 was removed from service to overhaul and replace the worn out impeller. District maintenance staff removed the pump from the lift station, disassembled, cleaned and inspected all of the components. The pump was completely overhauled with new bearings, grease seals, shaft sleeve, mechanical seal and a new impeller. The pump has been re-installed and operating as expected. The overhaul parts, including the new impeller, were purchased from Flow Technics at the end of FY 18-19 at a total cost of \$10,855.16.

Additional note: A similar overhaul and impeller replacement is planned on pump 2 later this winter when the parts arrive.

## Primary Clarifier 8 - Cross Collector Replacement

The cross collector screw in the sludge pit at the bottom of the clarifier was severely rusted out and deteriorated. This screw was the original from when the tank was put into service in 1989. Stevenson Crane was hired to assist District staff with the removal of the old screw and driveshaft from the tank.

In 2012, we purchased an OEM replacement screw for primary clarifier 6 for a similar project at a cost of \$10,594.00. For this screw replacement project I took a different approach. We reached out to a couple of our bearing suppliers to see if we could get quotes from their screw manufacturers to have a new screw fabricated for us instead of going back to the OEM.

After receiving quotes from our suppliers, we placed the order for a replacement screw with Applied Industrial Technologies and received a new screw fabricated and delivered for \$4,262.23. After we receive the screw it was epoxy coated and ready to install. In addition to the new screw, we also replaced the vertical & horizontal u-joints and the right angle gear box. Stevenson Crane provided lifting services again for the installation of the screw. The total cost for this cross collector screw replacement project including the crane services was \$8,169.13.

### **Net-Zero Public Education Center**

Work has begun on our public education center room in the excess flow sludge pumping station. Drywall and painting is almost complete, education center sign and the energy scoreboard have been fabricated, media equipment has been procured and display posters have been designed and are currently in fabrication. This project is expected to be completed in January.

#### WWTC Odor Control - Bio-Filter Installation

For quite some time we have been battling with significant odor issues on the large trunk line that comes down Walnut Avenue. For the past couple of years we have been venting this trunk line at the last manhole before the siphon box inside the plant near the entry gate. Doing this has eliminated the odor issues/complaints from our customers along Walnut Avenue.

We budgeted this year to install a bio-filter similar to the ones that we have installed at our Hobson and Earlston lift stations to permanently resolve this odor issue and eliminate the temporary venting at the manhole near the siphon. The first item to install was a concrete tank (32' long x 8' wide x 5' deep) to hold the wood chip media for the bio-filter. Quotes were requested from three contractors and the lowest proposal was from Schubert Concrete in the amount of \$24,750.00.

Uno Construction was hired on a T&M basis to excavate the hole and install the drain line from the concrete structure. Schubert Concrete has completed all of the concrete work and District staff has begun the installation of the electrical work for the blower unit. Weather permitting, we anticipate this project will be completed and operational in the next few weeks.

### **WWTC – Piping Projects**

## Biological Phosphorus Removal System Upgrade – New Sludge Feed from RAS System 2

In an effort to improve the performance of our biological phosphorus removal system, we have added some new 6" sludge piping and a flow meter from RAS system 2 into aeration tank 7. The new 6" piping was connected to an existing 14" discharge piping from the return sludge pumps in the basement of the blower building. A hole was cored through the foundation wall to extend the new piping underground to aeration tank 7.

Uno Construction removed a few sections of sidewalk and excavated between the blower building and aeration tank 7 for this project. Dahme Mechanical provided all of the piping and installation of the new 6" sludge line at a total cost of \$16,775.00. The sidewalks were replaced by Schubert Concrete at a cost of \$1,500.00. The flow meter and valves for this project were purchased by the District and provided to the contractor for the installation. District electrical staff installed and configured the new flow meter transmitter and its connection into our Scada system.

### Grit Cyclones 1&2 – Discharge Piping Upgrade

During normal flow conditions the only cyclone that is in operation is cyclone 1. During excess flow events, when cyclone 2 is also in operation the 6" drain line that they share becomes restricted. When this occurs, it prevents both cyclones from operation at their full capacity.

We have resolved this issue by installing new dedicated drain piping for each cyclone. The existing drain piping was removed and new dedicated discharge piping with new valves have been installed. All of this piping work was completed by Dahme Mechanical at a cost of \$14,750.00. After this piping modification was completed, we have experienced two excess flow events and we are very pleased with the improvement performance on both cyclones.

## Operation Center – Aeration Piping Modifications & Valve Replacement for Aeration Tanks 1-4

We are currently in the process of putting aeration tanks 1-4 back into operation to improve our ammonia removal process especially during the winter months. The existing/original air piping and valves in the basement of the operations center required some piping modifications and valve replacements to prepare the air supply feed to the aeration tanks. Dahme Mechanical was contracted to perform this work and the District provided the new valves for this project to help control the costs. The valves were purchased from LAI Ltd. at a cost of \$3,398.14. The 6" & 8" piping, fittings and labor were provided by Dahme Mechanical at a total cost of \$12,285.00.

# Work Order Summary

Work Order Completion Dates from 12/3/2019 to 12/30/2019

Work Assignment	Completion Date	Equipment	NOTATIONS
Replace motor starter that failed.	03-Dec-19	Digester 1 Mixing Pump	Replace the size 3 starter that failed.
By-Weekly Fluid and Misc. Check of Generators		Emergency Generator 1	
		Emergency Generator 2	
		Emergency Generator 3	
Replace Discharge Force Main Air Relief Valves (2)	04-Dec-19	Centex Discharge Force Main	Replace all combination air relief valves on the force main with reconditioned units.
8,704/18,340 Hours. Nissen performs Bore scope examination of engine.		CHP Engine Genset #2	Performed cylinder borescope on all 8 cylinders. Performed visual inspection of engine. Replaced throttle linkage component due to wear.
Run And Inspect Generators With The Load Of The Plant		Emergency Generator 1	
		Emergency Generator 2	
		Emergency Generator 3	
Replace Discharge Force Main Air Relief Valves (2)		Hobson Discharge Force Main	Replace all combination air relief valves on the force main with reconditioned units.
		Venard Discharge Force Main	Replace all combination air relief valves on teh force main with reconditioned units.
Restore Auger #5	05-Dec-19	2019 AUGER DAWG G- 30 3F052	Complete restoration of new auger #5. Auger was purchased as scrap, disassembled, sand blasted and powder coated, replaced hydraulic hoses, bearings, seals, and motor. Rebuilt and tested.
Replace small cooling filters for ABS #2		Aeration Blower ABS #2	
Replace leaking 30" pipe sleeve on the discharge line to excess tanks.		Bar Screen Building	Dahme Mechanical fabricated a platform to access the piping above the course bar screen. Remove old leaking pipe sleeve and install new.
3 Month check and repair of Belt Press Ventilation Fans		Belt Filter Press Building	3 month check and repair of all ventilation fans at Belt Filter Press Building.
Change Pre-Filters Blowers 1 - 4.		Blower Bag Room	
Turn on and run Chlorine Contact Tank sweep arm		Chlorine Contact Tank	
Change Filters On Grit Blowers 1,2,3.		Grit Blower 1	
		Grit Blower 2	
Replace Discharge Force Main Air Relief Valves (4)		Liberty Park Dschrg Force Main	Check all aire relief valves. All operating. Service next round.
Replace Discharge Force Main Air Relief Valves (3)		Northwest Discharge Force Main	Replace all combination relief valves on the force main with the reconditioned units.
Six Month Oil Change Primaries 1 & 2 Long Collector		Primary Clarifier 1	
		Primary Clarifier 2	
Replace the size 3 Advantage motor starter that failed.		RAS Pump 3	Replace the size 3 Advantage motor starter that failed. Reorder another starter for stock.
3 Month Grease- Secondaries 1 &		Secondary Clarifier 1	
		Secondary Clarifier 2	
Exercising of bar screen sluice gates 1 and 2	06-Dec-19	Bar Screen 1	
		Bar Screen 2	

Wednesday, January 15, 2020 Page 1 of 6

Work Assignment	Completion Date	Equipment	NOTATIONS
Check V-Belt, Grease Pillow Block Bearing Heat Exchangers 2-		Digester 1 Heat Exchanger	
3		Digester 2 Heat Exchanger	
		Digester 3 Heat Exchanger	
		Digester 4 Heat Exchanger	
		Digester 5 Heat Exchanger	
EXCESS 003- Exercise 30" and 24" DEZURIK Valves		Excess Flow 003 Valves	
Exercise Ratio Valve #2		Tunnel - System 2 RAS	
Replace Discharge Force Main Air Relief Valves (2)		Wroble Discharge Force Main	Replace all combination air relief valves on the force main with reconditioned units.
Clean up all branches and brush from walnut tree nursery tree trimming.		WWTC Landscaping	Rent a chipper from Buttrey Rental. Chip all branches and brush.
Repair leaking effluent spray water piping at E Conc.	09-Dec-19	Concentration Tank 1	Replaced leaking section of PVC piping and valve.
12 Month/10,000 Mile Synthetic Oil Change (2013 GMC Van) #315-LAB	10-Dec-19	2013 Chevy Express Van CNG	Changed oil and filter using Mobil 1 full synthetic oil. Check air and cabin filter. Rotate tires and check pressure.
12 Month/10,000 Mile Synthetic Oil Change (2015 Focus) # 314 (Clay)		2015 Ford Focus	Changed oil and filter using Mobil 1 Full Synthetic oil. Check the air and cabin filters and replace if needed. ROtated tires and checked pressure.
20,000 Miles - Due for oil & filter change		2018 Ford F-150	
Monthly Liquid Status of Under Ground Diesel Tank		Emerg Gen Diesel Storage Tank	
12 Month/10,000 Mile Synthetic Oil Change (2011 F-250) #326 BIO/Maint	11-Dec-19	9 2011 Ford F-250	Replace oil and filter using mobil 1 full synthetic oil. Check air and cabin filters. Rotate tires and check pressure.
Cleaning of radiator fins on Unison, Nissen and Tech 3		CHP Engine Genset	Clean radiator fins and unison chiller.
		CHP Engine Genset #2	
		CHP Gas Cleaning System	
Replace Cyclone liners, the receptacle box and screen with new.		Grit Cyclone 3	Disassemble the cyclone, replace all rubber liners & install the new splash box and screen.
Check HVAC filters upper & lower levels - Replace as needed		Hobson Lift Station	Replace upstairs filters using filters from stock.
Replace Air Filters On Both Fume Hood Air Make Up Systems		Laboratory	Replace filters on both air make up systems for the fume hoods. Used filters from stock.
Replace Air Filters On Both Maintenance Building Furnaces		Maintenance Services Building	Replace filters on both furnaces using filters from stock.
Test and replace all burned out indication bulbs on plant equipment	12-Dec-19	Bar Screen Building	
		Belt Filter Press Building	
		Bisulfite Building	
		Blower Building	
		Digester 1 and 2 Control Bldg	

Wednesday, January 15, 2020 Page 2 of 6

Joints and gear box were also wom out. Install a new screw that was fabricated by Applied Ind. The right angle gear box, hubs and u-joints were also replaced.  Raw Sewage Pump Station Station bulbs on plant equipment 8,920/18,556 Hours. Replace spark plugs due to runtime. Operate Relief Valves On Heat Exchanger Opigester 1 Heat Exchanger Digester 2 Heat Exchanger Digester 3 Heat Exchanger Digester 4 Heat Exchanger Digester 4 Heat Exchanger Digester 5 Heat Exchanger Digester 5 Heat Exchanger Digester 6 Heat Exchanger Digester 7 Heat Exchanger Digester 8 Heat Exchanger Digester 8 Heat Exchanger Digester 9 Digester 9 Digester 1 Heat Exchanger Digester 1 Heat Exchanger Digester 1 Heat Exchanger Digester 3 Heat Exchanger Digester 6 Heat Exchanger Excess Flow Pump Station  Exercise both 24" primary influent ratio valves  Tunnel/Chan Primary Clarifiers  Six Month Oil Change Sand Filter 8 H & #2 Filter 2 Filter 3 Six Month Oil Change Change Sand Filter's #3 & #4 Filter 4 Filter 5 Filter 6 Filter 6 Filter 6 Filter 6 Filter 7 Filter 9 Fimary Sludge Pump 2	Work Assignment	Completion Date	Equipment	NOTATIONS
Digester 4 + 5 Control Building Emergency Generator Building Grit Building Grit Building Hypochlorite Feed Big Intern Clarifier Studge Bidg Microstrainer Building Operations Center Primary Clarifier 8 Digester 1 Filter 3 Station  Exercise both 24" primary influent autio valves  Exercise both 24" primary influent autio valves  Tunnel Form PS to Grit Tunnel Form PS to Gr				
Baildg Emergency Generator Bailding Excess Flow Fump Flowse Fliter Building Grit Building Hypochlorite Feed Big Interm Clarifier Studge Bidg Microstrainer Building Operations Center Primary Clarifier 8 Prim			•	
Excess Flow Pump Station Excess Flow Studge Pump House Filter Building Grit Building Hypochlorite Feed Btg Interna Clarifier Studge Bidg Microstrainer Building Operations Center Primary Clarifier 8 Filter 3 Six Month Oil Change Change Sand Filter's #1 & #2 Six Month Oil Change Change Sand Filter's #1 & #2 Six Month Oil Change Change Sand Filter's #3 & #4 Filter 5 Six Month Oil Change Change Sand Filter's #3 & #6 Sound Change Change Sunger Carinary Studge Pump Station Excess Flow Pump Station Filter 6 Filter 6 Sound House Change Sand Filter's #3 & #4 Filter 6 Sound House Change Sand Filter's #3 & #6 Sound House Change Change Sung Filter 5 Filter 6 Sound House Change Change Sung Filter 5 Filter 6 Sound House Change Change Sung Filter 5 Filter 6 Sound House Change Change Sung Filter Sunday Studge Pump 2 Sung Filter Sunday Studge Pump 2 Sung Filter Sunday Studge Pump 2 Sung Filter Sung Filter Sunday Studge Pump 2 Sung Filter Sunday Studge Pump 2 Sung Filter Sunday Studge Pump 2 Sunday			0	
Excess Flow Pump Station Excess Flow Sludge Pump House Filter Building Grit Building Hypochlorite Feed Blg Interm Clarifer Studge Bldg Microstrainer Building Operations Center Cross collector not tuming.  Primary Clarifier 8 Department and found the screw is sewerely deteriorated, u- joint and and found the screw is sewerely deteriorated, u- joint and gar box were also worn out. Install a new screw that was fabricated by Applied Ind. The right angle gear box, hubs and u-joints were also worn out. Install a new screw that was fabricated by Applied Ind. The right angle gear box, hubs and u-joints were also worn out. Install a new screw that was fabricated by Applied Ind. The right angle gear box, hubs and u-joints were also worn out. Install a new screw that was fabricated by Applied Ind. The right angle gear box, hubs and u-joints were also worn out. Install a new screw that was fabricated by Applied Ind. The right angle gear box, hubs and u-joints were also replaced.  Replaced spark plugs with new.  Perpart Relief Valves On Heat Exchanger Digester 1 Heat Exchanger Digester 2 Heat Exchanger Digester 3 Heat Exchanger Digester 4 Heat Exchanger Digester 5 Heat Exchanger Digester 6 Heat Exchanger Digester 7 Heat Exchanger Digester 7 Heat Exchanger Digester 8 Heat Exchanger Digester 8 Heat Exchanger Digester 9 Heat Exchanger Digester 1 Heat Exchanger Digester 1 Heat Exchanger Digester 1 Heat Exchanger Digester 2 Heat Exchanger Digester 3 Heat Exchanger Digester 5 Heat Exchanger Digester 5 Heat Exchanger Digester 6 Heat Exchanger Digester 6 Heat Exchanger Digester 7 Heat Exchanger Digester 1 Heat Exchanger Digester 1 Heat Exchanger Digester 1 Heat Exchanger Digester 1 Heat Exchanger Digester 2 Heat Exchanger Digester 3 Heat Exchanger Digester 3 Heat Exchanger Digester 4 Heat Exchanger Digester 5 Heat Exchanger Digester 5 Heat Exchanger Digester 1 Heat Exchanger Dig				
Station Excess Flow Studge Pump House Filter Building Grit Building Hypochlorite Feed Btg Interm Clarifier Studge Bidg Microstrainer Building Operations Center Cross collector not turning.  Cross collector not turning.  Test and replace all burned out indication bulbs on plant equipment Station Sustain Sustai				
Filter Building Grit Building Hypochlorite Feed Blg Interm Clarifier Sludge Bldg Microstrainer Building Operations Center Primary Clarifier 8 Primary Sludge Pump Station Prome Prom Ps to Grit Primary Sludge Pump Station Prom Ps to Grit Primary Sludge Pump Station Primary Clarifiers Primary Sludge Pump Primary Sludge Pump 2				
Filter Building Grit Building Hypochloric Feed Blg Interm Clarifier Sludge Bldg Microstratier Building Operations Center Cross collector not turning.  Primary Clarifier 8  Primary Clarifier 9  Prima				
Hypochlorite Feed Big Interm Clarifier Studge Bidg Microstrainer Building Operations Center  Cross collector not tuming.  Primary Clarifier 8 Prim			•	
Interm Clarifier Sludge Bidg Microstrainer Building Operations Center Cross collector not tuming.  Primary Clarifier 8 Primary			Grit Building	
Bldg Microstrainer Building Operations Center Cross collector not tuming.  Primary Clarifier 8 Primary Cla			Hypochlorite Feed Blg	
Cross collector not turning.  Primary Clarifier 8 Primary Clarifier 5 Primary Clarifier 8 Primary Clarifie			•	
Cross collector not turning.  Primary Clarifier 8  Primary Clarifier 8  Drain tank and found the screw is severely deteriorated, u- joints and gear box were also worn out. Install a new screw that was fabricated by pipeled Ind. The right angle gear box, hubs and u-joints were also replaced.  Raw Sewage Pump Station S			Microstrainer Building	
joints and gear box were also worn out. Install a new screw that was fabricated by Applied Ind. The right angle gear box, hubs and u-joints were also replaced.  Raw Sewage Pump Station  Station  Rapy Sewage Pump Station  Station  13-Dec-19 CHP Engine Genset #2  Spark plugs due to runtime.  Operate Relief Valves On Heat Exchanger  Digester 1 Heat Exchanger  Digester 2 Heat Exchanger  Digester 3 Heat Exchanger  Digester 4 Heat Exchanger  Digester 4 Heat Exchanger  Digester 5 Heat Exchanger  Digester 5 Heat Exchanger  Digester 5 Heat Exchanger  Station  Exercise both 24" primary influent ratio valves  Tunnel/Chan Primary  Clarifiers  Six Month Oil Change Sand  Filter 5  Six Month Oil Change Change Sand Filter's #3 & #4  Filter 4  Six Month Oil Change Change Sand Filter's #5 & #6  Filter 6  Month Oil Change Raw Sludge  Primary Sludge Pump 2			Operations Center	
Station subbs on plant equipment squipment squipment squipment squipment squipment squipment squipment squipment spark plugs due to runtime.  Operate Relief Valves On Heat Exchanger Digester 1 Heat Exchanger Digester 2 Heat Exchanger Digester 3 Heat Exchanger Digester 3 Heat Exchanger Digester 4 Heat Exchanger Digester 5 Heat Exchanger Polysester 5 Heat Exchanger Digester 5 Heat Exchanger Excess Flow Pump Station  Exercise both 24" primary influent ratio valves  Tunnel/Chan Primary Clarifiers  Six Month Oil Change Sand Filter's #1 & #2  Filter 2  Filter 2  Six Month Oil Change Change Sand Filter's #3 & #4  Filter 4  Filter 5  Six Month Oil Change Change Sand Filter's #5 & #6  6 Month Oil Change Raw Sludge  Pumps 2, 3, 5	Cross collector not turning.		Primary Clarifier 8	joints and gear box were also worn out. Install a new screw that was fabricated by Applied Ind. The right angle gear
Spark plugs due to runtime.  Operate Relief Valves On Heat Exchangers And Boilers  Digester 1 Heat Exchanger  Digester 2 Heat Exchanger  Digester 3 Heat Exchanger  Digester 4 Heat Exchanger  Digester 5 Heat Exchanger  Digester 5 Heat Exchanger  Digester 8 Heat Exchanger  Digester 9 Dig	Test and replace all burned out indication bulbs on plant equipment			
Exchangers And Boilers  Exchanger Digester 2 Heat Exchanger Digester 3 Heat Exchanger Digester 4 Heat Exchanger Digester 5 Heat Exchanger Excess Flow Pump Station  Exercise both 24" primary influent ratio valves  Tunnel From PS to Grit  Tunnel From PS to Grit  Tunnel From PS to Grit  Filter's #1 & #2  Filter 2  Filter 2  Filter 2  Filter 3  Sand Filter's #3 & #4  Filter 4  Filter 4  Filter 5  Sand Filter's #5 & #6  Filter 6  Month Oil Change Raw Sludge Pumps 2, 3, 5	8,920/18,556 Hours. Replace spark plugs due to runtime.	13-Dec-19	O CHP Engine Genset #2	Replaced spark plugs with new.
Exchanger Digester 3 Heat Exchanger Digester 4 Heat Exchanger Digester 5 Heat Exchanger Digester 5 Heat Exchanger Excess Flow Pump Station Exercise both 24" primary influent ratio valves Tunnel From PS to Grit ratio valves Tunnel/Chan Primary Clarifiers Six Month Oil Change Sand 14-Dec-19 Filter 1 Filter 2 Filter 2 Six Month Oil ChangeChange Sand Filter's #3 & #4 Filter 4 Filter 4 Filter 5 Sand Filter's #5 & #6 Filter 6 6 Month Oil Change Raw Sludge Pumps 2, 3, 5	Operate Relief Valves On Heat Exchangers And Boilers			
Exchanger Digester 4 Heat Exchanger Digester 5 Heat Exchanger Excess Flow Pump Station  Exercise both 24" primary influent ratio valves  Tunnel/Chan Primary Clarifiers  Six Month Oil Change Sand Filter's #1 & #2  Filter 2  Filter 2  Filter 3  Six Month Oil Change Change Sand Filter's #3 & #4  Filter 4  Filter 5  Six Month Oil Change Change Sand Filter's #5 & #6  Filter 6  Month Oil Change Raw Sludge Pumps 2, 3, 5			Exchanger	
Digester 4 Heat Exchanger Digester 5 Heat Exchanger Excess Flow Pump Station  Exercise both 24" primary influent ratio valves  Tunnel From PS to Grit  Tunnel/Chan Primary Clarifiers  Six Month Oil Change Sand Filter's #1 & #2  Filter 2  Filter 3  Sand Filter's #3 & #4  Filter 4  Filter 4  Six Month Oil Change Change Sand Filter's #5 & #6  Filter 6  Month Oil Change Raw Sludge Pumps 2, 3, 5			_	
Digester 5 Heat Exchanger Excess Flow Pump Station  Tunnel From PS to Grit  Tunnel/Chan Primary Clarifiers  Six Month Oil Change Sand Filter's #1 & #2 Filter 2 Filter 2 Filter 3  Six Month Oil ChangeChange Sand Filter's #3 & #4 Filter 4  Filter 4  Filter 4  Filter 5  Sand Filter's #5 & #6 Filter 6  Month Oil Change Raw Sludge Pumps 2, 3, 5			•	
Exchanger Excess Flow Pump Station  Exercise both 24" primary influent ratio valves  Tunnel From PS to Grit  Tunnel/Chan Primary Clarifiers  Six Month Oil Change Sand Filter's #1 & #2  Filter 2  Filter 2  Six Month Oil ChangeChange Sand Filter's #3 & #4  Filter 4  Filter 4  Six Month Oil Change Change Sand Filter's #5 & #6  Filter 6  Month Oil Change Raw Sludge Pumps 2, 3, 5			•	
Excess Flow Pump Station  Tunnel From PS to Grit  Tunnel/Chan Primary Clarifiers  Six Month Oil Change Sand Filter's #1 & #2 Filter 2 Filter 2 Six Month Oil ChangeChange Sand Filter's #3 & #4 Filter 4 Filter 4 Six Month Oil Change Change Sand Filter's #5 & #6 Filter 6 Month Oil Change Raw Sludge Pumps 2, 3, 5				
Exercise both 24" primary influent ratio valves  Tunnel/Chan Primary Clarifiers  Six Month Oil Change Sand Filter's #1 & #2  Filter 2  Filter 2  Six Month Oil ChangeChange Sand Filter's #3 & #4  Filter 4  Filter 5  Sand Filter's #5 & #6  Filter 6  Month Oil Change Raw Sludge Pumps 2, 3, 5			Excess Flow Pump	
Tunnel/Chan Primary Clarifiers  Six Month Oil Change Sand Filter's #1 & #2  Filter 2  Filter 3  Sand Filter's #3 & #4  Filter 4  Filter 4  Six Month Oil Change Change Sand Filter's #5 & #6  Filter 5  Filter 6  Month Oil Change Raw Sludge Pumps 2, 3, 5	Exercise both 24" primary influent			
Six Month Oil Change Sand  14-Dec-19 Filter 1  Filter 2  Six Month Oil ChangeChange Sand Filter's #3 & #4  Filter 4  Six Month Oil Change Change Sand Filter's #5 & #6  Filter 5  Filter 6  Month Oil Change Raw Sludge Pumps 2, 3, 5	ratio varves		•	
Filter's #1 & #2  Filter 2  Six Month Oil ChangeChange Sand Filter's #3 & #4  Filter 4  Six Month Oil Change Change Sand Filter's #5 & #6  Filter 5  Filter 6  Month Oil Change Raw Sludge Pumps 2, 3, 5	Six Month Oil Change Sand	1/L-Dec 10		
Six Month Oil ChangeChange Sand Filter's #3 & #4  Filter 4  Six Month Oil Change Change Sand Filter's #5 & #6  Filter 6  6 Month Oil Change Raw Sludge Pumps 2, 3, 5  Filter 3	Filter's #1 & #2	14-1/00-1	/ 1 Incl 1	
Sand Filter's #3 & #4  Filter 4  Six Month Oil Change Change Sand Filter's #5 & #6  Filter 6  6 Month Oil Change Raw Sludge Pumps 2, 3, 5  Filter 6			Filter 2	
Six Month Oil Change Change Sand Filter's #5 & #6  Filter 6  6 Month Oil Change Raw Sludge Pumps 2, 3, 5  Filter 5  Filter 5	Six Month Oil ChangeChange Sand Filter's #3 & #4		Filter 3	
Sand Filter's #5 & #6  Filter 6  6 Month Oil Change Raw Sludge Primary Sludge Pump 2  Pumps 2, 3, 5			Filter 4	
6 Month Oil Change Raw Sludge Primary Sludge Pump 2 Pumps 2, 3, 5	Six Month Oil Change Change Sand Filter's #5 & #6			
Pumps 2, 3, 5				
Primary Sludge Pump 3	6 Month Oil Change Raw Sludge Pumps 2, 3, 5			
			Primary Sludge Pump 3	

Wednesday, January 15, 2020 Page 3 of 6

Work Assignment	Completion Date	Equipment	NOTATIONS
		Primary Sludge Pump 5	
Install high pressure lockout switch on excess hypo feed line.	16-Dec-19	Hypochlorite Feed Blg	Install conduits and wiring for the new high pressure lockout switch on excess hypo feed line.
Replace East facing double door and frame		Raw Sewage Pump Station	Paint new doors and frame. Suburban Door installed.
Greasing of Landia mixer grease fitting on actuator and threaded stem	17-Dec-19	Digester 1 Mixing Pump	
By-Weekly Fluid and Misc. Check of Generators		Emergency Generator 1	
		Emergency Generator 2	
		Emergency Generator 3	
6 Month Oil Change On Bearings X'cess Flow Sludge Pump #1& #2		Excess Flow Sludge Pump 1	
ANNUAL SERVICE ON TOYOTA FORK LIFT	18-Dec-19	2016 Toyota Forklift	12 Month service done @ 296 hours. Fluids, filters, plugs.
Exercise Of EBARA and Excess Pumps		Excess Flow Pump 06	
		Excess Flow Pump 07	
		Excess Flow Pump 08	
		Excess Flow Pump 09	
		Excess Flow Pump 10	
		Excess Flow Pump 11	
		Excess Flow Pump 12	
Monthly Cross Collector Check		Primary Clarifier 3	
		Primary Clarifier 4	
		Primary Clarifier 5	
		Primary Clarifier 6	
		Primary Clarifier 7	
		Primary Clarifier 8	
		Primary Clarifier 9	
SWPPP Annual Training		WWTC Roadways	
12 Month/10,000 Mile Synthetic Oil Change (2011 Ford Ranger) #322 OPS	19-Dec-19	2011 Ford Ranger	Change oil and filter using mobil 1 full synthetic oil. Checair and cabin filters. Rotate tires and check pressure.
12 Month/10,000 Mile Synthetic Oil Change (2014 F-150)#302 (Electrical)		2014 Ford F-150 4x2 Shortbed	Change oil and filter using mobil 1 full synthetic oil. Checl air and cabin filter. Rotate tires and check pressure.
Replace batteries.		2014 VACCON PD3611	Remove old and install new batteries.
Month Oil Change Blower #4		Aeration Blower 04	
Run And Inspect Generators With The Load Of The Plant		Emergency Generator 1	
		Emergency Generator 2	
		Emergency Generator 3	
Exercise of Excess Influent and Effluent Gates		Excess Flow Clarifier 1	
		Excess Flow Clarifier 2	
		Excess Flow Clarifier 3	
		Excess Flow Clarifier 4	
6 Month Oil Change On Bearings,		Intermediate Sludge	
Wednesday, January 15, 2020			Page 4 of

Work Assignment	Completion Date	Equipment	NOTATIONS
Intermediate Pumps #1 & #2		Pump 1 Intermediate Sludge	
		Pump 2	
Safety lane Vehicle 317	20-Dec-19	2009 Sterling LT 7500	317 to safety lane.
9,083 / 18,719 hours. Change oil and filters. Send oil sample to lab.		CHP Engine Genset #2	Changed oil and filters. Sent oil sample to lab for analysis.
Test for H2S at Unison Gas skid		CHP Gas Cleaning System	
Separate the discharge piping & install dedicated piping into grit tank		Grit Cyclone 1	Dahme Mech. removed the ex. common discharge piping from the cyclones into the effluent side of grit tank 3&4. Install new separated discharge piping from each cyclone through the wall and into grit tank 3. New 6" plug valves were installed on each line.
		Grit Cyclone 2	
500 Hour Oil Change on Pearth 4	21-Dec-19	Digester 4 Mixing System	
Grease Pump Bearings on 1-6 RAS pumps		RAS Pump 1	
		RAS Pump 2	
		RAS Pump 3	
		RAS Pump 4	
		RAS Pump 5	
		RAS Pump 6	
Check all life ring boxes and clean if needed.	23-Dec-19	) _	
Check All Fluids In The Equipment Listed Below		2009 BOB CAT S 300 #333	
		2009 Sterling LT 7500	
		2013 Wheel Loader #334	
		2014 Freightliner M2106 6 yd d	
		2015 Wheel Loader #332	
		2017 Deere 544K Wheel Loader	
		4 inch Jaeger Pump	
		6 in CH&E DSL TRSH PMP PERKIN	
		6 in CHE Diesel Trash Pump C/P	
		6 in JAEGER PUMP ( FORD )	
Clean Office Roof Of All Debris		Administration Center	
Check All Fluids In The Equipment Listed Below		Portable Generator 150	
		Portable Generator 200	
		Portable Generator 350	
		WWTC ODS Pump Air Compressor	
Pump out old grease line valve vault		Yard Piping - Liquid Treatment	
Add wood chips to bio-filter for odor control.	26-Dec-19	Earlston Lift Station	Top off wood chips. Added 3 truck loads at Hobson & 1 truck load at Earlston.
		Hobson Lift Station	

Wednesday, January 15, 2020 Page 5 of 6

Work Assignment	Completion Date	Equipment	NOTATIONS
A/C Compressor bearing failure.	27-Dec-19	2009 Ford F350	A-Len Automotive evacuate system, replaced the A/C compressor, receiver/drier & evaporator orifice and tube. Recharge the system with refrigerant and test operation.
Replace gas pressure regulator that was bad.		Digester 3 Heat Exchanger	Burner would not stay on due to restricted gas flow. Remove gas piping to burner head, found packed with debris, clean out as much as possible to get to run. Additional work will be required after heating season.
Exercising of Raw and Excess Influent valves		Excess Flow Pump Station	
		Raw Sewage Pump Station	
Safety lane Vehicle 354	30-Dec-19	2014 Freightliner M2106 6 yd d	
Replace exhaust fan motor in men's locker room.		Maintenance Services Building	Remove roof mounted fan assembly, disassemble to replace motor and re-install on the roof.

Wednesday, January 15, 2020 Page 6 of 6

## DOWNERS GROVE SANITARY DISTRICT MEMO

DATE: January 2, 2020

Nicholas J. Menninga General Manager TO:

Manhole inspections

7.

FROM: Robert Swirsky Sewer System Maintenance Supervisor

RE:	Monthly Report – December, 2019		
1.	JULIE Line Markings: Received In District Marked Man Hours	Current 654 615 127 63	Year to Date 13,424 12,672 2,959 1,052
2.	Building Service:  a. BSSRAP TV Inspections  b. Emergency BSSRAP Repairs  c. Total BSSRAP Repairs  d. I&I inspections  e. I&I C.O. installation  f. Replace broken cleanout caps  g. OHSP TV Inspections  h. Post Rodding TV	Current 12 10 12 00 00 00 00 00 00	Year to Date 147 93 132 00 02 01 02 36
3.	Sewer backups: a. Public sewer b. Private sewer c. Surcharged main d. Pump station Total	Current 0 12 0 0 12 12 Current	Year to Date  2 192 5 0 199  Year to Date
4.	Sewer Cleaning (DGSD personnel):  a. Sewer Cleaning (outside contractors):	7,422 0	366,155 Ft. 0 Ft.
5.	Main Sewer Televising (DGSD personnel)  a. Sewer Televising (outside contractors):	0	1,999 Ft. 76,080.9 Ft.
6.	LETS TV	0	11

10

118

- 8. Sewer and manhole repairs and replacements by Uno Construction: Adjust Manhole 1M-051 due to County sidewalk work.
- 9. Miscellaneous: (sewer system personnel)
  - a. Post alley sewer repair televising for Uno Construction.
  - b. W1-031 Cleared blocked outside drop into manhole.

CC: WDVB, AES, PWC, RTJ, KJR, MS, TTC, WCC, MCW

# DOWNERS GROVE SANITARY DISTRICT MEMO

DATE: January 8, 2020

TO: Nicholas J. Menninga

General Manager

FROM: Ted Cherwak

Sewer Construction Supervisor

RE: Monthly Report: Sewer Construction \ Code Enforcement – December 2019

Per	rmits issued:	Current	Year to Date
a.	Single family	5	91
b.	Multiple family	0	0
c.	Commercial	1	14
d.	Repair	2	8
e.	Disconnection	<u>0</u>	<u>50</u>
	Total	8	163
Ins	pections made:	Current	Year to Date
a.	Connections	5	112
b.	Finals	7	62
c.	Repairs	2	7
d.	Disconnects	2	44
e.	Groundwork	1	3
f.	Walk-Thru	0	1
g.	Pre-connections	0	0
ĥ.	Overhead Sewer Program	0	1
i.	Code Enforcement	3	34
	a. b. c. d. e. d. e. f. g. h.	<ul> <li>b. Multiple family</li> <li>c. Commercial</li> <li>d. Repair</li> <li>e. Disconnection</li></ul>	a. Single family b. Multiple family c. Commercial d. Repair e. Disconnection Total  Inspections made:  Current  Current  Current  Current  Current  Disconnections b. Finals c. Repairs c. Repairs d. Disconnects e. Groundwork f. Walk-Thru g. Pre-connections h. Overhead Sewer Program  Connections Disconnects

3. New Sewer Extension Construction:

Lateral testing

a. None

Total

j.

4. New Sewer Extension Testing - air, deflection, manhole, televising and lamping:

8

<u>111</u>

376

- a. None
- 5. Code Enforcement:
  - a. Overhead Sewer Program
  - b. Grease Trap Inspections

## 6. Plan & Permit Reviews:

- a. 204 Polo Lane, single family review
- b. 4734 Stonewall, single family review
- c. 303 W Ogden, Medical Office Building, architectural & site plan review

## 7. Building Sanitary Service Access Agreements:

- a. 4628 Stonewall, Downers Grove
- b. 4734 Stonewall, Downers Grove
- c. 1128 Saylor, Downers Grove
- d. 4819 Elm, Downers Grove
- e. 2251 Midhurst, Downers Grove

### 8. Illinois EPA Permits:

- a. None
- 9. Waste Hauling Permits Issued:
  - a. None

### 10. Miscellaneous:

- a. Possible special assessment areas:
  - Puffer Road We are in the midst of doing an informal poll in the area to see if there is a majority interest in moving forward with the project.
  - Grant & Lee We have received a positive response from the Poll letters for an informational meeting, so the next step is for B&W to prepare a project cost estimate. We also met with the Village of Downers Grove to review the project as they own properties on Lee Street, which they are holding for storm water control.
- b. DuPage County sanitary manhole adjustment inspections.

CC: WDVB, AES, PWC, KJR, RTJ, MJS, RPS, WCC & MGP

# **Permits Issued: DECEMBER 2019**

YEAR	PERMIT #	ADDR	ESS	STREET	CITY	ISSUE	TYPE	TAP FEE	INSP FEE
2019	150	309	S	HUDSON	W	12/2/2019	SF-RB		\$216.00
2019	171	942		SUMMIT	DG	12/3/2019	REPAIR		
2019	149	2251		MIDHURST	DG	12/10/2019	SF	\$3,192.00	\$216.00
2019	165	4628		STONEWALL	DG	12/11/2019	SF-RB		\$216.00
2019	170	4734		STONEWALL	DG	12/11/2019	SF-RB		\$216.00
2019	173	901		OXFORD	DG	12/11/2019	REPAIR		
2019	172	303	W	OGDEN	W	12/16/2019	COMM		\$357.00
2019	126	1128		SAYLOR	DG	12/27/2019	SF-RB		\$216.00
					٦	TOTAL:	\$3	3,192.00	\$1,437.00

# **Permit Final Inspections: DECEMBER 2019**

 YEAR	PERMIT #	<b>ADDRESS</b>	STREET	CITY	<u>FINAL</u>
2018	117	1033	SAYLOR	DG	12/4/2019
2018	124	2200	WARRENVILLE	DG	12/9/2019
2018	65	922	CHICAGO	DG	12/10/2019
2018	171	4925	PROSPECT	DG	12/12/2019
2019	20	4819	ELM	DG	12/13/2019
2019	168	5904	JANES	DG	12/16/2019
2019	106	4425	WASHINGTON	DG	12/20/2019

## **Progress Report**

To: Nick Menninga, General Manager

Amy Underwood, Assistant General Manager

From: Reese Berry, Laboratory Supervisor

Date: January 15, 2020

Re: December 2019 Laboratory Report

We had no excess rain sampling events in December. We recorded no permit excursions during December 2019.

## **Semi-Annual Sampling:**

We collected samples from DGSD Effluent, Influent and Biosolids for required semi-annual analysis. All data was completed and was well below acceptable levels.

## **Surcharge:**

We have 1 sampling week remaining for 2019. I anticipate we will complete the remaining week in the early spring of 2020 before data is uploaded for billing purposes.

## **Biosolids:**

All data was finalized for 2019. We sent IEPA the required semi-annual and quarterly sludge report for 2019.

### **Pretreatment Activities:**

## **Dental Amalgam Rule:**

We have nearly 60% participation in the survey we sent out. We are following up with users that didn't respond to the survey to get 100% participation before the deadline in the federal regulation.

## **Industrial Sampling:**

All users are in compliance with their permit requirements at this time.

C: WDVB, AES, PWC, KJR, RTJ, MJS, WCC, MGP



## Downers Grove Sanitary District I&I Removal Target Area 1K-028 Parcel Status



### STATUS OF 1K-028 INSPECTIONS AND AGREEMENT ACQUISITIONS

Category	Inspections Scheduled	Inspections Completed	Application Received	Agreements Signed	Cleanout Installed	Service Rehab Done	Totals	Total as Percentage
1A	Υ	Y	N	Υ	Y	N/A	19	8%
1B	Υ	Υ	N	N	N	N/A	1	0%
2A	Υ	Υ	Υ	Υ	Υ	N	72	32%
2B	Υ	Υ	Υ	Υ	Υ	N	20	9%
2D	Υ	Υ	Υ	N	N	N	3	1%
3A	Υ	Υ	Υ	Υ	N	N	6	3%
4	Υ	Υ	N	N	N	N	34	15%
4A	N	N	N	N	N/A	N	3	1%
5	Υ	N	N	N	N	N	0	0%
5A	Υ	Υ	N	N	N	N	15	7%
5AX	Υ	Υ	N	N	N	N	0	0%
5B	Υ	N	N	N	N	N	18	8%
5BX	Υ	N	N	N	N	N	1	0%
0	N	N	N	N	N	N	30	13%
X	-	-	-	-	-	-	5	2%
5X	-	-	-	-	-	-	1	0%
<u>Ca</u>	ategory Descript	tion:					228	100%

#### **Category Description:**

1A - PVC service with cleanout(may need to be sealed at the main)

1B - All PVC no Cleanout

2A - Cleanout installed, ready for rehab

2B - Ready for rehab

2D - BSSRAP/OHSP TV done

3A - Released to contractor for cleanout installation

4 - Inspection completed (Program application needed)

4A - Has an existing cleanout

5 - Inspections scheduled

5A - Inspection done - BSSRAP needed (qualifying defects or obstructions seen during TV)

5AX - Violation, BSSRAP needed

5B - Unable to TV

5BX - Unable to TV Violation

0 - Inspection Needed

X - Demolished

5X - Inspection done - Violation not corrected

2015 Basin I&I Ranking = 1

2016 Basin I&I Ranking = 27

2018 Basin I&I Ranking = 6

Combined pit violations found and corrected to date - 0 Storm pit violations found and corrected to date - 2

11% Complete

## DOWNERS GROVE SANITARY DISTRICT CASH BALANCES AND INVESTMENT SCHEDULE DATE 12/31/2019

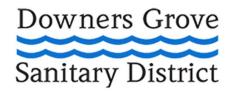
DAI	E 12/31/2019						PREVIOUS MONTH				
CAS	H BALANCES				-	TOTAL BALANCE					
۸۵۵۵	DUNT NAME	ACCOUNT NUMBI	ED	BALANCE PER BANK STATEMENT		PER BANK	MONTHLY EARNINGS CREDIT	EARNINGS CREDIT PERCENTAGE			
	OSIT					STATEMENTS	LARMINGS CREDIT	FERCENTAGE			
	BURSEMENT	XXXXXXXXXX1116 XXXXXXXXXX1111		\$919,676.42 212,705.38							
FLE.	XIBLE BENEFITS	XXXXXXXXX6025		9,826.05							
	ROLL	XXXXXXXXXX1117		201,200.98							
	TY CASH R REFUNDS	XXXXXXXXX1112 XXXXXXXXX1114		3,209.35 4,668.07							
	L - CASH AT BANK			\$1,351,286.25		\$1,256,126.86	\$407.71	0.0325%			
INVE	ESTMENTS				ANNUAL	GENERAL CORPORATE	IMPROVEMENT	CONSTRUCTION	PUBLIC BENEFIT	SEWER EXTENSION	INTEREST EARNED
TYPE	FINANCIAL INSTITUTION	TERM	MATURITY	AMOUNT	INT. RATE	FUND (01)	FUND (02)	FUND (03)	FUND (05)	FUND (71)	AT MATURITY
CD	FIRST MIDWEST BANK 1	13 MOS	2/15/2020	\$250,000.00	2.570%	\$100,000.00	\$107,719.45		\$35,260.73	\$7,019.82	\$6,960.42
CD	TRISTATE CAPITAL	5 MOS	4/9/2020	\$249,990.00	1.800%		\$249,990.00				\$1,874.93
CD	FIRST INTERNET BANK 1	12 MOS	5/13/2020	\$250,000.00	2.750%		\$250,000.00				\$6,875.00
CD	BMO HARRIS BANK 1	I1 MOS	5/17/2020	\$250,000.00	2.469%	\$250,000.00					\$5,658.13
CD	TAB BANK 1	12 MOS	5/23/2020	\$250,000.00	2.470%	\$100,000.00	\$150,000.00				\$6,175.00
CD	LISLE SAVINGS BANK 1	12 MOS	11/7/2020	\$249,000.00	1.990%	\$249,000.00					\$4,955.10
CD	CIT BANK 1	14 MOS	1/9/2021	\$245,000.00	1.700%	\$245,000.00					\$4,859.17
TOTA	L CDs			\$1,743,990.00	2.142%	\$944,000.00	\$757,709.45	\$0.00	\$35,260.73	\$7,019.82	\$37,357.73
					CURRENT						ESTIMATED
					RATE OF						ANNUAL
TYPE	FINANCIAL INSTITUTION	TERM	LAST ACTION DATE	AMOUNT*	RETURN						RETURN
MM	AXOS BANK fka Nationwide Bank	ONGOING	2/15/2019	\$1,179.95	0.300%	\$1,179.95					\$3.54
MM	BANKFINANCIAL	ONGOING	3/13/2013	\$15,495.54	0.750%	\$15,495.54					\$116.22
MM	CIT BANK	ONGOING	11/9/2016	\$5,000.00	0.450%	\$5,000.00					\$22.50
MM	LIMESTONE BANK fka PBI Bank	ONGOING	9/9/2013	\$1,077.00	0.100%	\$1,077.00					\$1.08
MM	LISLE SAVINGS BANK	ONGOING	9/2/2015	\$1,000.91	0.400%	\$1,000.91					\$4.00
MM	LUANA SAVINGS BANK	ONGOING	2/15/2019	\$2,509.47	0.550%	\$2,509.47					\$13.80
MM	ROYAL BANK fka Park Fed Saving	gs ONGOING	12/4/2012	\$1,152.34	0.149%	\$1,152.34					\$1.72
MM	STEARNS BANK	ONGOING	9/1/2015	\$250,000.00	1.750%	\$250,000.00					\$4,375.00
MM	TRISTATE CAPITAL BANK	ONGOING	11/9/2016	\$10.00	0.000%		\$10.00				\$0.00
MM	WEST SUBURBAN BANK	ONGOING	11/20/2012	\$5,143.17	0.050%		\$5,143.17				\$2.57
TOTA	L MM ACCOUNTS			\$282,568.38	1.607%	\$277,415.21	\$5,153.17	\$0.00	\$0.00	\$0.00	\$4,540.43
ILLIN	OIS FUNDS - MONEY MARKET			\$2,947,085.13	1.720%	\$1,785,312.91	\$354,884.21	\$806,888.01	\$0.00	\$0.00	\$50,689.86
TOTA	L - ALL INVESTMENTS			\$4,973,643.51	1.862%	\$3,006,728.12	\$1,117,746.83	\$806,888.01	\$35,260.73	\$7,019.82	\$92,588.03

TOTAL CASH AND INVESTMENTS

\$6,324,929.76

<sup>\*</sup>INVESTMENT ACCOUNT BALANCES ARE UPDATED QUARTERLY FOR THESE MONEY MARKET ACCOUNTS TO REFLECT NOMINAL INTEREST AMOUNTS EARNED EACH MONTH AND POSTED DIRECTLY TO THE INVESTMENT.

Board of Trustees
Wallace D. Van Buren
President
Amy E. Sejnost
Vice President
Paul W. Coultrap
Clerk



**General Manager** Nicholas J. Menninga

**Legal Counsel**Michael G. Philipp

2710 Curtiss Street P.O. Box 1412 Downers Grove, IL 60515-0703 Phone: 630-969-0664 Fax: 630-969-0827 www.dgsd.org

Providing a Better Environment for South Central Du Page County

### Memo

To: Board of Trustees

From: Nick Menninga, General Manager

Date: January 17, 2020

Subject: Treasurer's Report for December 2019

Attached please find the subject report that tracks income and expenses for the first eight months of Fiscal Year 19-20.

Totals of expenses and income are shown on the following table:

Year-to-date	Income	Expense
General Fund	\$ 6,644,706.75 (page 1)	\$ 5,660,029.63 (page 6)
Improvement Fund	\$ 62,002.80 (page 7)	\$ 49,463.02 (page 7)
Construction Fund	\$ 603,380.94 (page 8)	\$ 14,403.64 (page 9)
Public Benefit Fund	\$ 606.53 (page 10)	\$ 0.00 (page 10)
TOTAL	\$ 7,310,697.02	\$ 5,723,896.29

NJM, ARU

C: BOLI, WCC, MGP

Downers Grove Sanitary District Date: 01/08/2020

Treasurer's Report Recap for Month Ending 12/31/19

\_\_\_\_\_\_\_

Page: 1

Fund	nun	nbe	er & Description	Ending				
	Fund 1							
Fund	01	:	GENERAL FUND	\$4,262,322.24				
Fund	02	:	IMPROVEMENT FUND	\$1,174,168.66				
Fund	03	:	CONSTRUCTION FUND	\$904,348.45				
Fund	05	:	PUBLIC BENEFIT FUND	\$37,075.32				
Recar	To	ota	als	\$6,377,914.67				

DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 1 FUND 01 GENERAL FUND

COST NUMBER DESCRIPTION	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	ACTUAL- BUDGET VARIANCE	VAR %	TOTAL BUDGET
DUDE OF DESIGNATION	========		========	=======		======	=======
DEPT 05 REVENUES							
3000 PROPERTY TAXES	6,932.32-	0	1,219,187.23-	1,188,550-	30,637.23-	2.6	1,188,550-
3001 USER RECEIPTS	291,248.25-	273,521-	2,124,324.82-	2,254,476-	130,151.18	5.8-	3,315,400-
3002 SURCHARGES	25,100.86-	27,083-	228,219.02-	216,664-	11,555.02-	5.3	325,000-
3004 PLAN REVIEW FEES	.00	0	417.66-	750-	332.34	44.3-	1,000-
3005 CONSTRUCTION INSPECTION FEES	.00	0	.00	360-	360.00	100.0-	500-
3006 PERMIT INSPECTION FEES	1,437.00-	1,833-	19,103.00-	14,664-	4,439.00-	30.3	22,000-
3007 INTEREST ON INVESTMENTS	4,533.60-	2,917-	35,265.58-	23,336-	11,929.58-	51.1	35,000-
3013 SAMPLING AND MONITORING	7,890.69-	5,833-	69,793.05-	46,664-	23,129.05-	49.6	70,000-
3014 REPLACEMENT TAXES	3,749.81-	5,100-	62,823.99-	46,200-	16,623.99-	36.0	75,000-
3015 MISCELLANEOUS INCOME	646.80-	833-	3,481.89-	6,664-	3,182.11	47.8-	10,000-
3021 TELEVISION INSPECTION	.00	0	.00	150-	150.00	100.0-	150-
3023 PROPERTY LEASE PAYMENTS	2,878.78-	2,792-	22,940.39-	22,336-	604.39-	2.7	33,500-
3024 MONTHLY SERVICE FEES	391,658.28-	321,459-	2,718,433.42-	2,685,608-	32,825.42-	1.2	4,069,100-
3027 GREASE WASTE	21,251.05-	18,333-	136,994.60-	146,664-	9,669.40	6.6-	220,000-
3040 RENEWABLE ENERGY CREDITS	.00	0	3,722.10-	·	2,222.10-	148.1	3,000-
DEPT 05 TOTALS	757,327.44-	659,704-	6,644,706.75-	6,654,586-	9,879.25	.2- 9	,368,200-
FUND REVENUE TOTAL	757,327.44-	659,704-	6,644,706.75-	6,654,586-	9,879.25	.2- 9	,368,200-
SECT A SALARIES AND WAGES A001 TRUSTEES	.00	0	13,500.00	13,500	.00	. 0	18,000
A002 BOLI	.00	0	.00	675	675.00-	100.0-	900
A003 GENERAL MANAGEMENT	35,765.64	37,040	205,798.03	315,998	110,199.97-	34.9-	463,000
A004 FINANCIAL RECORDS	14,208.47	15,472	146,615.23	131,996	14,619.23	11.1	193,400
A005 ADMINISTRATIVE RECORDS	1,651.40	4,920	22,105.98	41,974	19,868.02-	47.3-	61,500
A006 ENGINEERING	900.82	0	5,549.91	0	5,549.91	.0	0
A007 CODE ENFORCEMENT	32,652.17	28,344	277,314.23	241,810	35,504.23	14.7	354,300
A008 SAFETY ACTIVITIES	1,711.31	204	5,249.92	1,740	3,509.92	201.7	2,550
A030 BUILDING AND GROUNDS	.00	0	301.91	0 ======	301.91	.0	0
SECT A TOTALS	86,889.81	85,980	676,435.21	747,693	71,257.79-		,093,650
SECT B OPERATIONS AND MAINTENANCE	=========	=======	=========	========		=======	=======
B100 ELECTRICITY	115.65	300	1,890.58	3,000	1,109.42-	37.0-	4,000
B101 NATURAL GAS	104.93	300	579.06	1,750	1,170.94-	66.9-	3,000
B102 WATER, GARBAGE AND OTHER UTILITIES	.00	0	630.36	790	159.64-	20.2-	1,150
B110 BANK CHARGES	1,513.91	1,541	8,930.63	12,328	3,397.37-	27.6-	18,500
B112 COMMUNICATION	1,276.55	1,333	10,676.00	10,664	12.00	.1	16,000
B115 EQUIPMENT/EQUIPMENT REPAIR	7,016.38	5,100	48,272.20	61,100	12,827.80-	21.0-	81,500
B116 SUPPLIES	340.59-	·	5,545.31	4,864	681.31	14.0	7,300
B117 EMPLOYEE/DUTY COSTS	889.08	1,083	14,589.56	8,664	5,925.56	68.4	13,000
B118 BUILDING AND GROUNDS	2,690.75	2,000	16,820.69	18,000	1,179.31-	6.6-	24,000
B119 POSTAGE	70.04	958	3,187.76	7,664	4,476.24-	58.4-	11,500
B120 PRINTING/PHOTOGRAPHY	980.28	300	7,550.63	10,200	2,649.37-	26.0-	11,400
	300.20	200	.,550.05	,200	-, /	_0.0	,,

DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 2 FUND 01 GENERAL FUND

COST NUMBER DESCRIPTION	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	ACTUAL- BUDGET VARIANCE	VAR %	TOTAL BUDGET
B121 USER BILLING MATERIALS	918.33	6,208	38,358.40	49,664	11,305.60-	22.8-	74,500
B124 CONTRACT SERVICES	2,935.10	9,975	55,380.35	79,800	24,419.65-	30.6-	119,700
B137 MEMBERSHIPS/SUBSCRIPTIONS	.00	0	7,933.00	8,920	987.00-	11.1-	10,700
SECT B TOTALS	18,170.41	29,706	220,344.53	277,408	57,063.47-	20.6-	396,250
SECT C VEHICLES							
C222 GAS/FUEL	234.05	175	853.96	1,100	246.04-	22.4-	1,800
C225 OPERATION/REPAIR	.00	0	1,929.95	1,050	879.95	83.8	1,400
SECT C TOTALS	234.05	175	2,783.91	2,150	633.91	29.5	3,200
DEPT 11 TOTALS	105,294.27	115,861	899,563.65	1,027,251	127,687.35-	12.4- 1	1,493,100
DEPT 12 O & M EXPENSES - WWTC	=========	:=======		=======	========	======	=======
SECT A SALARIES AND WAGES							
A006 ENGINEERING	2,024.89	0	15,217.45	0	15,217.45	.0	0
A009 OPERATIONS MANAGEMENT	9,039.24	1,876	71,132.98	16,005	55,127.98	344.4	23,450
A010 MAINTENANCE - BUDGET	.00	46,608	.00	397,625	53,541.44-	13.5-	582,600
A011 MAINTENANCE - WWTC	28,788.85	0	267,805.55	0	.00	.0	0
A012 MAINTENANCE - VEHICLES	1,205.76	0	3,236.21	0	.00	.0	0
A013 MAINTENANCE - ENERGY RECOVERY	1,585.94	0	12,996.62	0	.00	.0	0
A014 MAINTENANCE - ELECTRICAL	6,415.45	0	60,045.18	0	.00	.0	0
A020 WWTC - BUDGET	.00	49,392	.00	421,376	35,674.74-	8.5-	617,400
A021 WWTC - OPERATIONS	28,856.74	0	246,248.51	0	.00	. 0	0
A022 WWTC - SLUDGE HANDLING	9,065.34	0	131,206.97	0	.00	.0	0
A023 WWTC - ENERGY RECOVERY	752.75	0	8,245.78	0	.00	.0	0
A030 BUILDING AND GROUNDS	8,139.05	4,040	56,592.96	34,466	22,126.96 	64.2	50,500
SECT A TOTALS	95,874.01	101,916	872,728.21	869,472	3,256.21	.4 1	1,273,950
SECT B OPERATIONS AND MAINTENANCE							
B100 ELECTRICITY	5,901.08	5,000	33,863.10	50,000	16,136.90-	32.3-	72,000
B101 NATURAL GAS	455.24	1,700	2,688.89	5,500	2,811.11-	51.1-	12,000
B102 WATER, GARBAGE AND OTHER UTILITIES	777.65	1,000	11,614.76	22,100	10,485.24-	47.4-	33,000
B103 ODOR CONTROL	.00	700	4,484.91	22,100	17,615.09-	79.7-	30,000
B104 FUEL - GENERATORS	228.57	0	3,187.48	11,625	8,437.52-	72.6-	15,500
B112 COMMUNICATION	1,413.82	1,458	10,552.33	11,664	1,111.67-	9.5-	17,500
B113 EMERGENCY/SAFETY EQUIPMENT	796.20	1,433	8,258.66	11,464	3,205.34-	28.0-	17,200
B116 SUPPLIES	2,895.29	2,479	24,534.50	19,832	4,702.50	23.7	29,750
B117 EMPLOYEE/DUTY COSTS	4,142.86	2,000	13,264.89	17,500	4,235.11-	24.2-	25,000
B124 CONTRACT SERVICES	.00	0	203,705.00	203,700	5.00	.0	203,700
B130 NPDES PERMIT FEES	.00	0	53,000.00	53,000	.00	.0	53,000
B131 SLUDGE HAULING/DISPOSAL SERVICES	20,655.25	0	93,304.75	80,000	13,304.75	16.6	80,000
B400 CHEMICALS - BUDGET	.00	9,308	.00	74,464	21,821.02	29.3	111,700
B401 CHEMICALS - DISINFECTION	3,696.42	0	54,668.98	0	.00	.0	0
B402 CHEMICALS - SLUDGE DEWATERING	2,142.54	0	28,180.88	0	.00	.0	0
B403 CHEMICALS - TERTIARY TREATMENT	.00	0	3,855.78	0	.00	.0	0

DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 3

FUND 01 GENERAL FUND

NUMBER	DESCRIPTION	COST	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	ACTUAL- BUDGET VARIANCE	VAR %	TOTAL BUDGET
	======== ICALS - OTHER		.00	0	9,579.38	0	.00	.0	 0
B501 EQPT	/EQPT REPAIR -	BIOSOLIDS AGING & DISPOS	1,768.07	7,651	60,138.74	61,208	1,069.26-	1.8-	91,809
B502 EQPT	/EQPT REPAIR -	DISINFECTION	31,507.17	1,108	40,004.63	8,864	31,140.63	351.3	13,301
B503 EQPT	/EQPT REPAIR -	EXCESS FLOW	438.81	4,020	46,284.50	32,160	14,124.50	43.9	48,241
B504 EQPT	/EQPT REPAIR -	GRIT REMOVAL	6,170.43	3,213	17,549.61	25,704	8,154.39-	31.7-	38,551
B505 EQPT	/EQPT REPAIR -	INFLUENT PUMPING	12,832.50	2,700	22,007.93	40,200	18,192.07-	45.3-	51,051
B506 EQPT	/EQPT REPAIR -	PRIMARY TREATMENT	1,355.03	3,646	24,729.30	29,168	4,438.70-	15.2-	43,751
B507 EQPT	/EQPT REPAIR -	SECONDARY TREATMENT	11,667.22-	3,500	118,613.73	71,000	47,613.73	67.1	85,176
B508 EQPT	/EQPT REPAIR -	SLUDGE CONCENTRATION	3,002.50	63,134	58,694.24	505,072	446,377.76-	88.4-	757,606
B509 EQPT	/EQPT REPAIR -	SLUDGE DEWATERING	87.70	2,092	23,862.99	16,736	7,126.99	42.6	25,101
B510 EQPT	/EQPT REPAIR -	SLUDGE DIGESTION	7,602.19	5,100	43,988.43	40,800	3,188.43	7.8	61,201
B511 EQPT	/EQPT REPAIR -	TERTIARY TREATMENT	15.00	2,038	423.58	16,304	15,880.42-	97.4-	24,451
B512 EQPT	/EQPT REPAIR -	WWTC GENERAL	841.58	2,747	15,791.31	21,976	6,184.69-	28.1-	32,961
B513 EQPT	/EQPT REPAIR -	WWTC UTILITIES	10,381.52	11,158	85,656.32	89,264	3,607.68-	4.0-	133,900
B802 BLDG	AND GROUNDS -	DISINFECTION	.00	43	64.32	344	279.68-	81.3-	514
B803 BLDG	AND GROUNDS -	EXCESS FLOW	392.00	86	392.00	688	296.00-	43.0-	1,029
B804 BLDG	AND GROUNDS -	GRIT REMOVAL	11,000.00	419	11,000.00	3,352	7,648.00	228.2	5,029
B805 BLDG	AND GROUNDS -	INFLUENT PUMPING	392.00	1,020	1,273.25	8,160	6,886.75-	84.4-	12,239
B806 BLDG	AND GROUNDS -	PRIMARY TREATMENT	.00	429	.00	3,432	3,432.00-	100.0-	5,149
B807 BLDG	AND GROUNDS -	SECONDARY TREATMENT	.00	86	670.07	688	17.93-	2.6-	1,029
B809 BLDG	AND GROUNDS -	SLUDGE DEWATERING	.00	1,044	64.10	8,352	8,287.90-	99.2-	12,529
B810 BLDG	AND GROUNDS -	SLUDGE DIGESTION	.00	675	10,217.08	5,400	4,817.08	89.2	8,103
B811 BLDG	AND GROUNDS -	TERTIARY TREATMENT	.00	4,179	40,658.81	33,432	7,226.81	21.6	50,148
B812 BLDG	AND GROUNDS -	WWTC GENERAL	29,907.66	10,000	118,192.02	120,000	1,807.98-	1.5-	160,388
B813 BLDG	AND GROUNDS -	WWTC UTILITIES	.00	129	.00	1,032	1,032.00-	100.0-	1,543
SECT	B TOTALS	_	149,131.86	155,295	1,299,021.25	1,726,285	427,263.75- ========	24.8- 2	2,365,150
SECT C	VEHICLES	_							
C222 GAS/I	FUEL		2,009.62	2,500	13,779.11	20,000	6,220.89-	31.1-	30,000
C225 OPERA	ATION/REPAIR		27.49	625	3,956.44	5,000	1,043.56-	20.9-	7,500
C226 VEHIC	CLE PURCHASES		.00	0	42,746.36	41,000	1,746.36	4.3	41,000
SECT	C TOTALS	=	2,037.11	3,125	60,481.91	66,000	5,518.09-	8.4-	78,500
		=					=========		
DEPT	12 TOTALS	=					429,525.63- ========		
DEPT 13	O & M EXPEN	NSES - LABORATORY							
SECT A	SALARIES AM	ND WAGES							
A009 OPERA	ATIONS MANAGEME	ENT	6,108.33	5,168	47,839.94	44,090	3,749.94	8.5	64,600
A040 LABOR	RATORY - BUDGET	Г	.00	13,668	.00	116,605	2,730.80-	2.3-	170,850
A041 LAB -	A041 LAB - WWTC		10,457.94	0	96,584.95	0	.00	.0	0
A042 LAB - PRETREATMENT		1,364.56	0	8,492.51	0	.00	.0	0	
A043 LAB - SURCHARGE PROGRAM		.00	0	4,579.89	0	.00	.0	0	
A044 LAB - BOD			.00	0	192.57	0	.00	.0	0
A047 LAB -	- MICRO		.00	0	43.34	0	.00	.0	0
A048 LAB -	- ENERGY RECOVE	ERY	373.83	0	3,980.94		.00	.0	0
SECT	A TOTALS		18,304.66	18,836	161,714.14	160,695	1,019.14	.6	235,450
		=		========	=========	=======		:======	

MONTH ENDED 12/31/19 PAGE 4 DATE 01/08/20 FUND 01 GENERAL FUND

ACTUAL BUDGET ACTUAL-COST CURRENT CURRENT ACTUAL BUDGET BUDGET VAR TOTAL NUMBER DESCRIPTION MONTH MONTH Y-T-DY-T-DVARIANCE % BUDGET \_\_\_\_\_\_ OPERATIONS AND MAINTENANCE 9,914.09 B114 CHEMICALS .00 1,433 11,464 1,549.91-13.5-17,200 16,200 B115 EOUIPMENT/EOUIPMENT REPAIR 5,526.87 1,350 11,071.55 10,800 271.55 2.5 1,729 8,727.71 13,832 B116 SUPPLIES 409.75 5,104.29- 36.9- 20,750 1,042.69 2,621.31- 71.5- 5,500 B117 EMPLOYEE/DUTY COSTS 150.00 458 3,664 95.1-.00 0 6,750 B122 MONITORING EQUIPMENT 333.53 6,416.47-9,000 2.222.56-17.5-B123 OUTSIDE LAB SERVICES 997.22 1.588 10.481.44 12,704 19.050 \_\_\_\_\_\_ 7.083.84 SECT B TOTALS 6.558 41.571.01 59.214 17.642.99- 29.8-87 700 \_\_\_\_\_\_ SECT C VEHICLES C222 GAS/FUEL 76.59 42 358.52 336 22.52 6.7 500 C225 OPERATION/REPAIR .00 50 1,210.96 150 1,060.96 707.3 200 \_\_\_\_\_\_ SECT C TOTALS 76.59 92 1,569.48 486 1,083.48 222.9 \_\_\_\_\_\_ \_\_\_\_\_\_ 25,486 204,854.63 220,395 15,540.37- 7.1- 323,850 DEPT 13 TOTALS 25,465.09 \_\_\_\_\_\_ DEPT 14 O & M EXPENSES - SEWER SYSTEM SECT A SALARIES AND WAGES A006 ENGINEERING 0 740.40 6,582.93 0 6.582.93 . 0 Ω A050 SEWER MAINTENANCE - BUDGET .00 13,068 .00 111,486 14,843.80 13.3 163,350 118,679.12 A051 SEWER MAINTENANCE 14,454.94 0 0 .00 . 0 0 .00 0 0 .0 7,650,68 0 A054 SEWER MAINTENANCE - BACKUPS AND HIGH FLOWS 863.55 A060 INSPECTION - BUDGET .00 21,704 .00 185,162 45,946.46-24.8-271,300 A061 INSPECTION - NEW CONSTRUCTION .00 0 1,056.44 0 .00 . 0 25.591.40 .00 A062 INSPECTION - CONSTRUCTION OF DGSD PROJECTS 3.238.95 0 0 . 0 0 669.73 A063 INSPECTION - PERMIT INSPECTIONS 0 8,831.48 0 .00 . 0 0 A064 INSPECTION - MISCELLANEOUS 3,661.00 0 37.797.04 0 .00 . 0 0 54,952.77 .0 A065 INSPECTION - CONSTR BY VILLAGES, UTILITIES 6.223.87 Ω Ω .00 Ω A066 INSPECTION - CODE ENFORCEMENT 780.34 0 10,986.41 0 .00 . 0 0 A070 SEWER INVESTIGATIONS - BUDGET .00 972 .00 8,292 5,199.79- 62.7- 12,150 A072 SEWER INVESTIGATIONS .00 Ω 3,092.21 0 .00 . 0 Ω \_\_\_\_\_\_ SECT A TOTALS 30.632.78 35,744 275,220.48 304,940 29,719.52-9.8-446.800 \_\_\_\_\_\_ SECT B OPERATIONS AND MAINTENANCE 1,034.70 875 5,512.17 7,000 1,487.83-10.500 B112 COMMUNICATION 21.3-3,400 .00 606.45 2.793.55- 82.2-5.050 B113 EMERGENCY/SAFETY EQUIPMENT 425 30,304 B115 EQUIPMENT/EQUIPMENT REPAIR .00 3,788 33,807.58 3,503.58 11.6 45,450 111.87 B116 SUPPLIES 458 2,740.56 3,664 923.44-25.2-5,500 847.50 5.385.97 9.000 40.2-B117 EMPLOYEE/DUTY COSTS 1.125 3.614.03-13.500 B124 CONTRACT SERVICES 11,136.46 11,008 118,121.79 88,064 30,057.79 34.1 132,100 B127 JULIE SYSTEM 1,408 8,117.88 11,264 3,146.12-27.9- 16.900 .00 6,088.00 10,000 39.1- 15.000 B128 OVERHEAD SEWER/BACKFLOW PREVENTION PROGRAM 1.250 3,912.00-.00 B129 REIMBURSEMENT PROGRAM/PUBLIC SEWER BLOCKAGE 1,000 8,000 8,000.00- 100.0-.00 .00 12,000 B900 SEWER SYSTEM REPAIRS - BUDGET .00 150,000 .00 1,080,000 327,434.30-30.3- 1,481,600

.00

0

132.00

0

B901 SEWER SYSTEM REPAIRS - I/I PROGRAM

.00

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MONTH ENDED 12/31/19

DATE 01/08/20 MONTH ENDE FUND 01 GENERAL FUND

B826 BLDG AND GROUNDS - NORTHWEST

ACTUAL BUDGET ACTUAL-COST CURRENT CURRENT ACTUAL BUDGET BUDGET VAR TOTAL NUMBER DESCRIPTION MONTH MONTH Y-T-DY-T-DVARIANCE % BUDGET \_\_\_\_\_\_ B902 SEWER SYSTEM REPAIRS - REPLACEMENT 10,445.99 0 26,741.05 0 .00 . 0 B903 SEWER SYSTEM REPAIRS - REHABILITATION 0 .00 0 251,650.46 .00 . 0 Ω B910 SEWER SYSTEM REPAIRS - BSSRAP PROGRAM .0 0 36,204.46 0 380,035.73 .00 Ω B913 SEWER SYSTEM REPAIRS - BSSRAP-REPAIR/REPL/R .00 0 3,210.87 0 .00 .0 B929 ARRA LOAN PRINCIPAL REPAYMENT 0 90,795.59 .00 0 .00 . 0 0 \_\_\_\_\_\_ 317.749.90- 25.4- 1.737.600 SECT B TOTALS 59.780.98 171.337 932,946.10 1,250,696 SECT C VEHICLES 2,025.98 2,208 9,662.49 17,664 C222 GAS/FUEL 8,001.51-45.3- 26,500 C225 OPERATION/REPAIR 1,147.98 542 8,654.09 4,336 99.6 4.318.09 6.500 C226 VEHICLE PURCHASES .00 0 25,720.00 20,000 5,720.00 28.6 20,000 \_\_\_\_\_\_ SECT C TOTALS 3,173.96 2,750 44,036.58 42,000 2,036.58 53,000 4.9 \_\_\_\_\_\_ \_\_\_\_\_\_ DEPT 14 TOTALS 93,587.72 209,831 1,252,203.16 1,597,636 345,432.84- 21.6- 2,237,400 \_\_\_\_\_\_ O & M EXPENSES - LIFT STATIONS SECT A SALARIES AND WAGES A006 ENGINEERING 444.24 0 1,024.22 0 1.024.22 . 0 3,237.68 1,054.6 A009 OPERATIONS MANAGEMENT .00 3,544.68 307 36 450 A030 BUILDING AND GROUNDS 223.47 0 2,527.64 0 2,527.64 .0 0 A080 LIFT STATION MAINTENANCE 7,062.17 5,604 39,898.85 47,809 7,910.15-16.6-70,050 \_\_\_\_\_\_ SECT A TOTALS 5,640 46,995.39 48,116 1,120.61- 2.3- 70,500 7,729.88 \_\_\_\_\_\_ SECT B OPERATIONS AND MAINTENANCE 2.4 B100 ELECTRICITY 11,466.41 10,288 84,268.20 82,304 1,964.20 123,450 0 B104 FUEL - GENERATORS .00 .00 3,750 3,750.00- 100.0-5,000 715.53-B112 COMMUNICATION 363.08 458 2.948.47 3,664 19.5-5.500 B113 EMERGENCY/SAFETY EQUIPMENT 15.92 0 273.73 250 23.73 9.5 250 B116 SUPPLIES 12.76 0 12.76 360 347.24- 96.5-400 B520 EOPT/EOPT REPAIR - BUTTERFIELD 1,320 1,320.00- 100.0-1.981 .00 165 .00 B521 EQPT/EQPT REPAIR - CENTEX .00 379 859.35 3,032 2,172.65-71.7-4,551 B522 EQPT/EQPT REPAIR - COLLEGE .00 274 10,005.36 2,192 7,813.36 356.5 3,283 .00 B523 EOPT/EOPT REPAIR - EARLSTON 5,367.00 48,032 42,665.00- 88.8- 72,051 6.004 B524 EQPT/EQPT REPAIR - HOBSON .00 343 .00 2,744 2,744.00- 100.0- 4,119 2,249.99 2,680 430.01- 16.1-B525 EOPT/EOPT REPAIR - LIBERTY PARK .00 335 4,014 9.7- 27,021 B526 EQPT/EQPT REPAIR - NORTHWEST 16,266.35 18,016 1.749.65-3.736.19 2.252 412.92- 19.3-B527 EQPT/EQPT REPAIR - VENARD .00 268 1,731.08 2,144 3,217 B528 EQPT/EQPT REPAIR - WROBLE .00 169 15,988.18 1,352 14,636.18 1,082.6 2,033 .00 4.078 32.278.91- 98.9-48.930 B529 EOPT/EOPT REPAIR - LIFT STATIONS GENERAL 345.09 32.624 B820 BLDG AND GROUNDS - BUTTERFIELD 155.50 0 1,094.30 0 1,094.30 . 0 0 B821 BLDG AND GROUNDS - CENTEX 155.50 1,110.30 1,110.30 Ω 0 . 0 Ω B823 BLDG AND GROUNDS - EARLSTON 1,084.30 1,084.30 155.50 Ω Ο . 0 Ω B824 BLDG AND GROUNDS - HOBSON 7,367.30 7,367.30 155.50 0 0 .0 0 B825 BLDG AND GROUNDS - LIBERTY PARK 1,124.30 1,124.30 .0 155.50 0 0 0

155.50

1,250 18,593.34 10,000

8,593.34 85.9 15,000

PAGE 5

DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 6 FUND 01 GENERAL FUND

NUMBER DESCRIPTIO		ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	ACTUAL- BUDGET VARIANCE	VAR %	TOTAL BUDGET
B827 BLDG AND GROUNDS		155.50	 0	1,110.30	0	1,110.30	.0	0
B828 BLDG AND GROUNDS	- WROBLE	155.50	0	31,289.52	17,500	13,789.52	78.8	17,500
B829 BLDG AND GROUNDS	- LIFT STATIONS GENERAL	.00	1,200	124.41	9,600	9,475.59-		•
SECT B TOTALS	=	16,838.36	27,463	203,213.63	241,564	38,350.37-	15.9-	352,700
DEPT 15 TOTALS		24,568.24	33,103	250,209.02	289,680	39,470.98-	13.6-	423,200
DEPT 17 O & M EXP	= ENSES - INSURANCE & EMPLOYE		=======		=======		======	
SECT E INSURANCE	AND EMPLOYEE BENEFITS							
E452 LIABILITY/PROPERT	Ϋ́	34.02-	0	188,761.83	192,500	3,738.17-	1.9-	192,500
E455 EMPLOYEE GROUP HE	ALTH	40,207.66	44,104	317,001.03	352,832	35,830.97-	10.2-	529,250
E460 IMRF		21,377.30	22,881	170,161.99	185,683	15,521.01-	8.4-	277,350
E461 SOCIAL SECURITY		16,939.40	18,906	145,042.95	·	•		/
SECT E TOTALS	=	78,490.34	85,891	820,967.80	888,259	67,291.20-	7.6- 2	1,234,250
DEPT 17 TOTALS		78,490.34	85,891	820,967.80	888,259	67,291.20-	7.6-	1,234,250
DEPT 91 SA EXPENS			=======		=======	:========	=======	
DEPT 91 TOTALS	-	.00	0	.00	0	.00	.=======	
FUND EXPENSE TOTA	L	574,448.64	730,508	5,660,029.63	6,684,978	1,024,948.37-	15.3- 9	9,429,400
FUND 01 TOTALS	=	182,878.80-	70,804	984,677.12-	30,392	1,015,069.12-3	,339.9-	61,200

DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 7

FUND 02 IMPROVEMENT FUND

COST NUMBER DESCRIPTION	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	TOTAL BUDGET	
DEPT 05 REVENUES	========	=======		=======	=======	
3007 INTEREST ON INVESTMENTS 3010 TRUNK SEWER SERVICE CHARGES	1,983.01-		17,196.66- 36,287.14-			
3019 LATERAL SEWER CHARGE	.00	0	8,519.00-	0	0	
DEPT 05 TOTALS	1,983.01- ====================================		62,002.80-		107,150-	
DEPT 30 CAPITAL EXP - ARRA - LOAN REPAYMENT	S					
0500 PROJECT BUDGET	.00			,	93,200	
0515 PAYMENT ON LOAN PRINCIPAL	.00	0 ======	46,595.52 	0 -======	0	:=========
DEPT 30 TOTALS	.00	0	46,595.52	46,600	93,200	
DEPT 36 CAPITAL EXP - LIBERTY PARK LIFT STA	TION UPGRADE					
DEPT 36 TOTALS	.00	0	.00	0	0	
DEPT 74 CAPITAL EXP - SEWER - UNSEWERED ARE	======= AS	=======		=======	=======	
0500 PROJECT BUDGET	.00	0	.00	0	7,500	
0501 REPORT ENGINEERING/ARCHITECTURAL	.00	0	2,867.50	0	0	
DEPT 74 TOTALS	.00	0	2,867.50	0	7,500	
FUND EXPENSE TOTAL	.00	0	49,463.02	46,600	100,700	
FUND 02 TOTALS	1,983.01-				6,450-	

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DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 8

FUND 03 CONSTRUCTION FUND

NUMBER	COST DESCRIPTION	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	TOTAL BUDGET	
DEPT 05	REVENUES	=======	========	=======	=======	:=======	
3007 INTERES 3009 SEWER P 3093 GRANT F		1,194.93- 3,192.00-		5,329.24- 123,051.70- 475,000.00-	6,664- 166,664- 0	250,000-	
DEPT 05						500,000-  760,000-	
DEPT 30	CAPITAL EXP - ARRA - LOAN REPAYMENT:	======== S		========	=======		
0500 PROJECT	BUDGET	.00	0	.00	14,450	28,900	
0515 PAYMENT	ON LOAN PRINCIPAL	.00	0	14,403.64	0	0	
DEPT 30	TOTALS	.00	0	14,403.64	14,450	28,900	
DEPT 31	CAPITAL EXP - WWTC - CHP BIOGAS		=======				
DEPT 31		.00	======================================	.00	0	0	
DEPT 32	CAPITAL EXP - WWTC - SECOND TURBOBLE		========		=======		
DEPT 32		.00		.00	0	.======= 0	
DEPT 33		========	ŭ		-	ŭ	
DEPT 33	TOTALS	.00	0	.00	0	0	
DEPT 34	CAPITAL EXP - WWTC - GREASE WASTE D						
DEPT 34		.00	0	.00	0	0	
DEPT 35	CAPITAL EXP - WWTC - CHP BIOGAS PHA		=======	=======	=======	:=======	
		=========	=========		========	:=======	
DEPT 35	-	.00	0	.00	0	0	
DEPT 37	CAPITAL EXP - WWTC - GREASE RECEIVI		=			==	
DEPT 37		.00	0	.00	0	0	
DEPT 38	CAPITAL EXP - WWTC - PROPERTY ACQUI		=======		=======	=======	
			========			:=======	
DEPT 38	TOTALS	.00	0	.00	0	0	

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DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 9

FUND 03 CONSTRUCTION FUND

FUND 03 TOTALS

			ACTUAL	BUDGET				
	COST		CURRENT	CURRENT	ACTUAL	BUDGET	TOTAL	
NUMBER	DESCRIPTION		MONTH	MONTH	Y-T-D	Y-T-D	BUDGET	
=======	:=========		========	=======	========	=======	========	=======================================
DEPT 39	CAPITAL EXP - WW	TC - GRIT BLOWER REPL	ACEMENT					
		==	========	=======		========		=======================================
DEPT	39 TOTALS		.00	0	.00	0	0	
		==	========	=======	========	========	========	=======================================
DEPT 40	CAPITAL EXP - WW	TC - LOAN REPAYMENT						
		==	========	=======	========	=======	=======	=======================================
DEPT	40 TOTALS		.00	0	.00	0	0	
		==	=======	========		=======	========	
FUND	EXPENSE TOTAL		.00	0	14,403.64	14,450	28,900	

4,386.93- 21,666- 588,977.30- 158,878- 731,100-

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DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 10

FUND 05 PUBLIC BENEFIT FUND

FUND 05 TOTALS

COST NUMBER DESCRIPTION	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	TOTAL BUDGET		
DEPT 05 REVENUES		========		=======			
3007 INTEREST ON INVESTMENTS	74.57	- 46-	606.53-	368-	550-		
DEPT 05 TOTALS	74.57	- 46-	606.53-	368-	550-		
DEPT 59 CAPITAL EXP - SEWER - SEWER EXTENSIONS							
DEPT 59 TOTALS	.00	0	.00	0	0		
DEPT 65 CAPITAL EXP - SEWER - REIMB FOR ADI	ED DEPTH						
			:=======	:=======			
DEPT 65 TOTALS	.00	0	.00	0	0		
FUND EXPENSE TOTAL	.00	0	.00	0	0		

74.57- 46- 606.53- 368- 550-

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DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 11

FUND 58 SPECIAL ASSESSMENT NO. 58

	COST	ACTUAL CURRENT	BUDGET CURRENT	ACTUAL	BUDGET	TOTAL	
NUMBER D	DESCRIPTION	MONTH	MONTH	Y-T-D	Y-T-D	BUDGET	
DEPT 05	REVENUES			-========	=======	=======	=======================================
3008 INTEREST	ON ASSESSMENTS	.00	0	327.46-	0	0	
DEPT 05	TOTALS	.00	0	327.46-	0	0	
DEPT 91	SA EXPENSE						
	=		========		=======		:==========
DEPT 91	TOTALS	.00	0	.00	0	0	
FUND EXF	PENSE TOTAL	.00	0	.00	0	0	
FUND 58	TOTALS	.00	0	327.46-	0	0	

FUND 71 TOTALS

DATE 01/08/20 MONTH ENDED 12/31/19 PAGE 12 FUND 71 SEWER EXTENSIONS ESCROW

ACTUAL BUDGET COST CURRENT CURRENT ACTUAL BUDGET TOTAL Y-T-DNUMBER DESCRIPTION MONTH MONTH Y-T-D BUDGET ------3007 INTEREST ON INVESTMENTS 14.81- 0 120.46- 0 0 0 DEPT 05 TOTALS 14.81- 0 120.46-0 \_\_\_\_\_\_ DEPT 92 SEWER EXPENSE \_\_\_\_\_\_ DEPT 92 TOTALS \_\_\_\_\_\_ FUND EXPENSE TOTAL .00 \_\_\_\_\_\_

14.81- 0 120.46-

0

\_\_\_\_\_\_

0

# GENERAL MANAGER'S REPORT TO EMPLOYEES

#### WWTC Operations Data – November

The DMR for November indicates that the final effluent averaged 1.6 CBOD, 0.7 mg/l suspended solids and 0.09 mg/l ammonia nitrogen over a daily average flow of 12.22 MGD. There were no permit excursions in November.

#### Financial Data - November

In November, the District received \$700,134 in the General fund, including \$292,376 in user charges, \$38,950 in surcharges and \$319,941 in monthly fees. General fund expenses totaled \$627,850. The Improvement fund had revenues of \$12,708 and expenses of \$0. The Construction fund had revenues of \$4,380 and expenses of \$0.

## **Sewer Permits – November**

There were 15 sewer permits issued in November – 2 single family, 1 commercial, 1 repair and 11 disconnections.

## **Paid Leave Information**

A memo indicating the holidays that will be observed by the District in 2020 and the vacation leave awarded to you will be made available electronically next week. Please note that the information on this memo is accurate as of December 15, 2019 and any personal or vacation leave taken after that date is not reflected. The new personal leave and vacation time for 2020 is not reflected on the current pay stub and will be shown on the next pay stub you receive.

#### **TopHealth**

The January issue of TopHealth is enclosed.

#### Sewer Rehabilitation/Infiltration and Inflow Removal

We are targeting the 1-K-028 area for private property inspections and I/I removal. We are also monitoring the area around the 1-M-049 manhole to evaluate flows in the vicinity and impacts of the installation of a bolt-down cover at 1-M-049. Data collected during recent storms shows that the local system containing 1-M-049 appears to be operating satisfactorily. Regular flow monitoring continues.

#### **Status of Projects**

#### 1) Westmont Alley Sewer Replacement

The project consists of alley sewer replacement work in the 1-K-028 drainage area, in the vicinity of Lincoln St and Grant St between Naperville Rd and Burlington Ave. Uno Construction has begun correcting sagged sections of new pipe that did not pass post-

construction testing requirements. Uno has currently paused work and will resume after the holidays

## 2) 001 Outfall Pipe Repair

Baxter & Woodman has completed survey and geotechnical work, and is completing the design of the repairs needed for the sagged section of the outfall pipe that carries effluent flow to the East Branch of the DuPage River. Baxter & Woodman is coordinating with DuPage County to address their review comments.

## 3) WWTC WAS Mechanical Thickening

The pre-construction meeting was held with the contractor and engineer on September 23, 2019. Submittals from the contractor are still under review at Baxter & Woodman.

## HAPPY HOLIDAYS TO YOU AND YOUR FAMILY!

#### GENERAL MANAGER'S REPORT TO EMPLOYEES

#### **Personnel**

We are currently advertising for a new Permit Technician position. Please direct all interested persons for this position to submit an application electronically through the District's website at <a href="https://www.dgsd.org/opportunities//opportunities/opportunities">https://www.dgsd.org/opportunities//opportunities</a>, or to view our ad on LinkedIn.

#### **Employee W-2's**

Your W-2 for 2019 is being provided to you today in a separate envelope. Please see Carly or Clay with any questions.

## **DuPage County Ethics Training**

Employees have received an email regarding completing the online Ethics Training provided through DuPage County. Completion of this training is due no later than January 13, 2020.

## **Employee Luncheon**

An employee winter luncheon will be held in February.

## Sewer Rehabilitation/Infiltration and Inflow Removal

We are targeting the 1-K-028 area for private property inspections and I/I removal. We are also monitoring the area around the 1-M-049 manhole to evaluate flows in the vicinity and impacts of the installation of a bolt-down cover at 1-M-049. Data collected during recent storms shows that the local system containing 1-M-049 appears to be operating satisfactorily. Regular flow monitoring continues.

## **Status of Projects**

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#### 2) 001 Outfall Pipe Repair

Baxter & Woodman has completed survey and geotechnical work, and is completing the design of the repairs needed for the sagged section of the outfall pipe that carries effluent flow to the East Branch of the DuPage River. They are also coordinating with DuPage County Stormwater to address their permit review comments.

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The pre-construction meeting was held with the contractor and engineer on September 23, 2019. Submittals from the contractor are under review at Baxter & Woodman.

# GENERAL MANAGER'S REPORT TO EMPLOYEES

#### WWTC Operations Data – December

The DMR for December indicates that the final effluent averaged 0.80 CBOD, 0.60 mg/l suspended solids and 0.12 mg/l ammonia nitrogen over a daily average flow of 10.34 MGD. There were no permit excursions in December.

#### Financial Data – December

In December, the District received \$757,327 in the General fund, including \$291,248 in user charges, \$25,101 in surcharges and \$391,658 in monthly fees. General fund expenses totaled \$574,449. The Improvement fund had revenues of \$1,983 and expenses of \$0. The Construction fund had revenues of \$4,387 and expenses of \$0.

## **Sewer Permits – December**

There were 8 sewer permits issued in December – 5 single family, 1 commercial, and 2 repairs.

#### **Personnel**

We are currently advertising for a new Permit Technician position. Please direct all interested persons for this position to submit an application electronically through the District's website at <a href="https://www.dgsd.org/opportunities">https://www.dgsd.org/opportunities</a>, or to view our ad on LinkedIn.

#### **Employee Luncheon**

An employee winter luncheon will be held at the Grand Duke's restaurant at 980 75<sup>th</sup> Street, Downers Grove (same location as Bohemian Garden) on Tuesday, February 4 at 11:30 a.m.

#### **First-Aid Kits**

Safety Coordinator Jessie Gwozdz is distributing new first-aid kits to all District vehicles over the next few days.

#### Sewer Rehabilitation/Infiltration and Inflow Removal

We are targeting the 1-K-028 area for private property inspections and I/I removal. We are also monitoring the area around the 1-M-049 manhole to evaluate flows in the vicinity and impacts of the installation of a bolt-down cover at 1-M-049. Data collected during recent storms shows that the local system containing 1-M-049 appears to be operating satisfactorily. Regular flow monitoring continues.

# **Status of Projects**

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The project consists of alley sewer replacement work in the 1-K-028 drainage area, in the vicinity of Lincoln St and Grant St between Naperville Rd and Burlington Ave. Uno Construction has begun correcting sagged sections of new pipe that did not pass post-construction testing requirements. Uno paused work for the holidays and will resume shortly.

## 2) 001 Outfall Pipe Repair

Baxter & Woodman has completed survey and geotechnical work, and is completing the design of the repairs needed for the sagged section of the outfall pipe that carries effluent flow to the East Branch of the DuPage River. They are also coordinating with DuPage County Stormwater to address their permit review comments.

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