

Submitted to
Leoni Township



July 2020

Monthly Operating Summary



2960 Lucerne Dr., SE Grand Rapids, MI 49546



September 1, 2020

Mr. Howard Linnabary
Supervisor
Leoni Township Hall
913 Fifth Street
Michigan Center, MI 49201

SUBJECT: Leoni Township Monthly Operation and Maintenance Report for July 2020

Dear Mr. Linnabary:

Please find attached the Monthly Operation and Maintenance Report for the Leoni Township Wastewater Treatment Plant, Sewer collections system, drinking water distribution system and Drinking Water Well System. This report is intended to provide a brief explanation of the activities related to the operation and maintenance of the facilities. All information and data used to compile this report is available for your review upon request.

As always, if you have any questions regarding the contents of this report or our operational activities, please contact me at your convenience at 517.888.3341, or by email at kbaker@fv-operations.com.

Sincerely,

F&V OPERATIONS AND RESOURCE MANAGEMENT, INC.

A handwritten signature in blue ink that reads 'Kenneth J. Baker'.

Kenneth J. Baker
Senior Project Manager

Enclosures:

- Operations & Maintenance Highlights
- WWTP Influent and Effluent Data
- Drinking Water MOR
- Monthly Maintenance Allowance

2960 Lucerne Drive SE; Ste. 100
Grand Rapids, MI 49546
P: 734 652 7374
www.fv-operations.com

All required and routine monitoring of the wastewater treatment plant was performed in accordance with the NPDES discharge permit during this period. A copy of the WWTP Influent and final effluent data for July 2020 is provided for the Board's review in Attachment A. Please note that at the time of this report, some laboratory results were not yet available.

The total influent flow to the Leoni Township WWTP during July 2020 was 56.29 million gallons (MG). The total effluent flow was 65.647 (MG) during the same period. The average daily discharge flow from the WWTP was 2.12 MGD.

A total of 1,054,980 gallons of sludge was dewatered by centrifuge and stored in the biosolids barn then hauled to the landfill. The WWTP average percent removal during this period was 99.2% of BOD (Biochemical Oxygen Demand) and 99.8% of TSS (Total Suspended Solids).

WASTEWATER TREATMENT PLANT OPERATIONAL HIGHLIGHTS

- Merit Laboratories performed analysis for available cyanide and total selenium as required by the NPDES permit.
- 298.72 Tons of biosolids were hauled to the landfill in July.

MBR Tanks & Filters

- MBR #1 was chemically cleaned twice using Sodium Hypochlorite. The tank was then drained, filled back up and returned to normal operation.
- MBR #2 was chemically cleaned twice using sodium Hypochlorite. The tank was then drained, filled back up and returned to normal operation.
- MBR #3 was chemically cleaned twice using sodium hypochlorite. The tank was then drained, filled back up and returned to normal operation.
- MBR #4 was chemically cleaned using 300 gallons of sodium hypochlorite, then acid cleaned using oxalic acid. The tank was then drained, filled back up and returned to normal operation.
- MBR #5 was chemically cleaned using sodium hypochlorite. The tank was then drained, filled back up and returned to normal operation.

Other WWTP Plant Highlights

- July 7, 2020 staff pulled and cleaned all the aerators and cleaned the sludge out of the bottom of train 5. While the cassettes were out of the tank they were evaluated and found no bad membranes.
- July 27, 2020 staff pulled and cleaned all the aerators and cleaned the sludge out of the bottom of train 2. While the cassettes were out of the tank they were evaluated and found to have 158 bad membranes. Staff replaced 158 membranes with the used one that were available.

- UV maintenance was performed on July 21, 2020 staff pulled and cleaned all glass tubes.
- Effluent pump number 3 was pulled to get estimates for repairs as it quit pumping.
- WRAS pump three was pulled to get serviced as it quit pumping.
- PA Blower number 3 went down broken shive. Found a new shive for the blower. After further inspection found blower had slipped time. Will be getting estimates for repairs.

Sewer Collection System Events

Address Number	Street Name	Issue	Comments	Routine Maintenance	Date of event
4053	Donnely Rd	Sewer back up at home.	Checked main, no issues found problem in homeowner's lead.	N/A	7/12/2020
4131	Donnely Rd (Viking LS)	High wet well level alarm	Found a lot of grease in wet well had wet well vacuumed out.	Yes	7/12/2020
935	Ottney	Red light on high level in grinder can	Replaced start capacitor, found bad wires had contractor replace wires.	Yes	7/18/2020
Sanctuary Dr		High level alarm	Found bad motor starter and a plugged pump, replaced motor starter, and cleaned pump.	No	7/18/2020
967	Ottney	Red light on	Found bad float. Replaced start float.	Yes	7/19/2020
937	Ottney	Red light on	Found bad pump. Replaced pump	Yes	7/20/2020
935	Ottney	Red light on	Found bad pump, replaced pump	Yes	7/20/2020
1618	Donnely	Loud clicking coming from control box	Checked control box and floats. Found no problem.	Yes	7/22/2020

937	Ottney	High alarm	Found hold down rail not holding. adjusted rail working now.	Yes	7/23/2020
1009	Ottney	Red light on	Replaced start capacitor.	Yes	7/27/2020

DRINKING WATER WELL SYSTEM

The July 2020 drinking water well MOR (Monthly Operating Report) is provided in Attachment B. Well number 1A was taken offline because it was dropping production at the beginning of July. The well was put back into service August 24, 2020 flow was back up to 560 gpm.

Distribution System Events

There was a water main break on fifth street July 13, 2020 that was caused by a bad valve that had to be replaced. Because the main had to be depressurized to do the repairs a boil water notice was issued. Samples were pulled and all came back good and the boil water notice was lifted on July 15, 2020.

Distribution and Collection System Miss Dig Requests

- 188 Miss Dig requests were responded to in July.
- 100 were no conflict.
- 52 marked.
- Remainder were canceled or re-stake requests.

Attachment A

Monitoring & Reporting July 2020

FINAL EFFLUENT																				REPORTING PERIOD														
Leon Township MBR WWTP																				June 2020														
MI0045942																				James Green Project Manager														
D A Y	FLOW	BOD ₅				SUSPENDED SOLIDS				VSS				TOTAL PHOSPHORUS				AMMONIA NITROGEN				Fecal Coliform		Aveil CN		MERCURY				pH	D.O.	TEMP	Selenium	Selenium
		MGD	mil	LBS	% REM	mil	LBS	% REM	mg/l	%	mil	LBS	% REM	mil	LBS	% REM	#/100ml	cpd	lb/day	mg/l	LBS	Unrecorct	Field Dup	Field	Lab Meth	SI	mol	den C	ug/l					
1	1594	2.1	34.57	98.6	3.8	63.19	99.4			0.219	4	96.5	0.112	1.903	99.5	522												7.83	9.30	16.8				
2	1735	5.0	34.86	98.6	3.0	44.91	99.4			0.238	3	97.7	0.189	2.928	99.2	685												7.68	8.97	16.8				
3	1594	2.1	33.70	99.4	2.5	40.12	99.6			0.372	6.0	96.4	0.155	2.487	99.4	320											7.35	8.69	18.2					
4	2302																																	
5	2742																																	
6	2421	2.1	42.40	98.8	2.0	43.38	99.1			0.247	5.0	95.3	0.338	6.825	98.4	155											7.87	9.19	18.5					
7	2284	2.1	40.00	99.0	3.3	62.36	98.6			0.216	4.1	95.2	0.244	4.628	99.0	116											7.99	9.27	17.4					
8	2175	2.1	36.99	98.2	2.8	42.79	99.2			0.295	4.1	96.9	0.199	3.610	99.0	1335											7.30	9.00	17.0					
9	1776	2.1	31.19	98.4	4.5	66.65	96.7			0.313	4.6	93.6	0.315	4.696	98.8	924											7.67	8.44	17.1					
10	1780	2.4	35.23	99.1	6.0	88.07	98.5			0.299	4.4	96.0	0.358	5.642	98.5	1876											7.65	8.26	13.4					
11	1658																																	
12	1856																																	
13	1577	2.1	27.42	99.3	4.5	59.18	99.2			0.284	3.7	97.3	0.219	2.880	99.2	3200											7.56	8.29	17.1					
14	1661	2.1	29.44	99.2	4.2	58.88	99.1			0.234	3.1	96.8	0.155	2.173	99.4	1870											7.30	9.00	18.0					
15	2075	2.1	36.34	99.1	2.0	34.61	99.6			0.179	3.1	97.9	0.119	2.059	99.5	2700											7.76	8.73	18.1					
16	2031	2.1	35.57	98.6	1.8	35.49	99.5			0.229	3.0	97.2	0.131	2.219	99.4	4700											7.84	8.27	17.3					
17	2034	2.3	39.02	99.2	1.0	16.96	99.6			0.145	2.5	98.5	0.148	2.511	99.4	520											7.67	8.81	18.5					
18	2023																																	
19	1327																																	
20	2009	2.1	35.19	98.2	1.2	20.11	99.2			0.120	2.0	98.2	0.129	2.161	99.4	5800											7.71	8.50	19.4					
21	1856	2.3	34.64	98.9	4.6	69.29	98.8			0.280	4.2	95.9	0.654	9.851	96.9	4300											7.74	8.61	19.4					
22	1481	2.2	26.81	99.8	8.0	97.48	99.3			0.278	3.4	98.3	0.649	7.908	98.8	5500											7.68	7.88	20.1					
23	1892	2.1	29.63	98.2	4.8	67.73	98.8			0.254	3.6	98.6	0.184	2.586	99.3	1600	2.000	0.00022									7.66	7.76	18.6	5.0	0.0706			
24	2105	2.4	42.13	98.5	3.3	57.49	99.0			0.183	3.2	97.0	0.290	5.091	98.6	76000											7.72	8.30	19.1					
25	2028	2.1	35.57	99.3	5.0	64.57	98.8			0.154	2.6	98.3	0.316	5.345	98.7	76000											7.78	8.57	18.9					
26	2214																																	
27	2360																																	
28	2164	2.1	37.55	98.0	4.7	64.04	98.5			0.183	3.3	97.0	0.372	6.652	98.1	400											7.50	8.00	19.9					
29	2223	2.1	38.53	99.2	3.8	53.42	99.4			0.179	3	97.8	0.480	8.965	97.8	460											7.80	9.06	19.6					
30	2346	2.1	41.09	98.2	3.2	62.61	98.0			0.173	2	98.0	0.307	9.920	97.8	430											7.86	8.97	20.2					
31																																		
TOTAL	60.34		818.78							79.90			335.060			2.00	0.028																	
Ave	2.011	2.0	37.26	99.0	3.6	60.39	99.0			0.252	3.0	96.9	0.287	4.696	98.8	1952	2.00	0.028									8.07	8.85	5.0	0.0706				
WEEK AVG	2.27	45.87			5.2	78.35				0.218			0.218	7.718		1983																		
MAX	2.712	5.0	74.9		8	181.94	99.6			0.372	5.969		0.654	9.9		76000.0	2.000	0.028									8.0	9.3	20.2	5.0	0.0706			
MIN																												7.6	7.7	16.6				

Attachment B

Drinking Water System
Monthly Operating Report
July 2020

**MONTHLY OPERATION REPORT FOR
A CLASS D3 / S3 WATER TREATMENT PLANT**

**Leoni Township
Department of Public Works**

WSSN: 03837
913 Fifth Street
Leoni Twp, Michigan 49254
517-522-8446

Mo./Yr. Jul-20

Jackson
County:

Robert Jones
Certified Operator

Signature

D3/S3
Classification

August 10, 2020
Date Submitted

Designated Operator
Title

Remarks:

Report Includes:

		Bacteriological Summary and Analyses	<input checked="" type="checkbox"/>
		Well Pumpage	<input checked="" type="checkbox"/>
		Chlorination	<input checked="" type="checkbox"/>
		Fluoride	<input type="checkbox"/>
		Iron Removal	<input type="checkbox"/>
		Ion Exchange Softening	<input type="checkbox"/>
Monthly Average TCR Disinfectant Residual:	Free 0.03	Total 0.04	Chemical Analyses <input checked="" type="checkbox"/>

Mail Completed Report To:

Michigan Department of Environmental Quality
Office of Drinking Water and Municipal Assistance
Jackson District Office
301 E. Louis Glick Highway
Jackson, Michigan 49201

MDEQ, ODWMA contacts

Jeff Antil, Drinking Water Analyst	517-780-7840
Jerry Drake, PE, District Engineer	517-780-7838
Steve Busch, District Supervisor	517-780-6122
FAX	517-780-7855

Day of Month	DAILY PUMPAGE - MILLION GALLONS PER DAY						Daily Total MGD
	Well Number						
	1 WL001	1A WL002	2A & 2B WL004/WL005			System Pressure	
1	0.5290	0.056	0.013				0.598
2	0.0880	0.000	0.385				0.473
3	0.0100	0.000	0.525				0.535
4	0.0100	0.000	0.525				0.535
5	0.0100	0.000	0.525				0.535
6	0.0110	0.000	0.525				0.536
7	0.0350	0.000	0.670				0.705
8	0.4740	0.000	0.184				0.658
9	0.0630	0.000	0.438				0.501
10	0.2840	0.000	0.285				0.569
11	0.2190	0.000	0.206				0.425
12	0.2190	0.000	0.206				0.425
13	0.2210	0.000	0.207				0.428
14	0.5730	0.000	0.445				1.018
15	0.8490	0.000	0.694				1.543
16	0.7340	0.000	0.249				0.983
17	0.2020	0.000	0.248				0.450
18	0.2330	0.000	0.211				0.444
19	0.2330	0.000	0.211				0.444
20	0.2350	0.000	0.213				0.448
21	0.2060	0.000	0.205				0.411
22	0.2080	0.000	0.177				0.385
23	0.2340	0.000	0.228				0.462
24	0.2610	0.000	0.231				0.492
25	0.2750	0.000	0.255				0.530
26	0.2750	0.000	0.255				0.530
27	0.2750	0.000	0.257				0.532
28	0.1840	0.000	0.222				0.406
29	0.3430	0.000	0.283				0.626
30	0.2870	0.000	0.275				0.562
31	0.2780	0.000	0.274				0.552
Total	8.0580	0.056	9.627				17.741
Ave.	0.2599	0.002	0.311				0.572
Max.	0.8490	0.056	0.694				1.543
Min.	0.0100	0.000	0.013				0.385

**Leoni Township
Chlorination - Distribution residuals**

Day of Mo.	Chlorine Residual									
	Township Hall			O Harrow			Stand Pipe			Total mg/L
	Free mg/L	Total mg/L	Free mg/L	Total mg/L	Free mg/L	Total mg/L	Free mg/L	Total mg/L		
1	1.28	1.35	0.04	0.33	0.14	0.59	0.01	0.38		
2	0.06	0.34								
3										
4										
5										
6	0.02	0.07	0.03	0.06	0.02	0.04				
7	0.07	0.12	0.11	0.20	0.07	0.15				
8	0.05	0.21	0.12	0.33	0.13	0.51				
9	0.06	0.42	0.05	0.06	0.11	0.17				
10	0.13	0.39	0.04	0.17	0.09	0.14				
11										
12										
13	0.17	0.24	0.27	0.40	0.16	0.30				
14	0.07	0.15	0.01	0.06	0.02	0.21				
15	0.10	0.38	0.03	0.78	0.15	0.75				
16	0.07	0.49	0.07	0.14	0.10	0.11				
17	0.10	0.26	0.24	0.28	0.10	0.14				
18										
19										
20	0.14	0.41	0.06	0.11	0.05	0.10				
21	0.10	0.36	0.16	0.53	0.14	0.32				
22	0.13	0.22	0.35	0.82	0.16	0.35				
23	0.14	0.26	0.04	0.13	0.16	0.21				
24	0.10	0.22	0.03	0.11	0.12	0.22				
25										
26										
27	0.07	0.21	0.03	0.13	0.09	0.13				
28	0.05	0.07	0.15	0.16	0.10	0.12				
29	0.08	0.28	0.08	0.64	0.08	0.25				
30	0.03	0.32	0.09	0.18	0.09	0.13				
31	0.09	0.31	0.08	1.00	0.08	0.18				
Total										
Ave.	0.14	0.32	0.10	0.28	0.10	0.25				
Max.	1.28	1.35	0.35	0.82	0.16	0.75				
Min.	0.02	0.07	0.01	0.06	0.01	0.04				

Attachment C

Maintenance Allowance Report
July 2020

706020 | Leoni - 591-556 Water MAINTENANCE ALLOWANCE SPENDING 2020-2021

Contract year 2020-2021	\$	190,742.00
Remaining Fund From 2019-2020	\$	-
Beginning Total	\$	190,742.00
Total Spent 2020-2021	\$	21,995.46
Remaining Fund	\$	168,746.54

		Expense	Contract Year Running Total
March-20			
3/20 Cochran Electric Co, Inc.	Power problem at Well 1b	24392	110.25
Total March		\$ 110.25	
\$ 110.25			
April-20			
5/1 Dixon Engineering, Inc.	Ground Storage Tank Cleaning & Inspection	20-6561R	3,517.50
5/1 Dixon Engineering, Inc.	Additional Ground Storage Tank Inspections per EGLE	20-6562	3,509.50
5/1 State Of Michigan	Bacti tests	761-10508878	184.80
4/3 Etna Supply Co.	New meter head for well 1A	S103429658.001	3,186.75
4/16 State Of Michigan	Water samples for Feb-March	761-105069843	268.80
4/16 USABluebook	DPD for water testing	202544	106.64
Total April		\$ 10,773.99	
\$ 10,884.24			
May-20			
Total May		\$ -	
\$ 10,884.24			
June-20			
6/19 USA Bluebook	DPD Feed total and sample cells	251437	496.74
6/26 THE WATER STORE INC	Water for men	321656	25.46
Total June		\$ 522.20	
\$ 11,406.44			
July-20			
7/20 Cochran Electric Co, Inc.	Trouble shoot soft start issue at Viking well		216.30
7/31 Northern Pump & Well, Inc.	Troubleshoot well 2B amp problem	20-J1851	330.75
7/3 USA Bluebook	Air relief for Viking Well	277812	466.73
7/23 M&K Jetting & Televising	Vac around broken valve on watermain leak	200687	1,050.00
7/31 Lester Brothers Excavating	Watermain break	143939	8,506.60
7/20 The Water Store Inc	water		18.64
Total July		\$ 10,589.02	
\$ 21,995.46			
August-20			
Total August		\$ -	
\$ 21,995.46			
September-20			
Total September		\$ -	
\$ 21,995.46			
October-20			
Total October		\$ -	
\$ 21,995.46			

	Expense	Contract Year Running Total
November-20		
Total November	\$ -	\$ 21,995.46
December-20		
Total December	\$ -	\$ 21,995.46
January-21		
Total January	\$ -	\$ 21,995.46
February-21		
Total February	\$ -	\$ 21,995.46

706020 | Leoni - 590-549 Wastewater

MAINTENANCE ALLOWANCE SPENDING 2020-2021

Contract year 2020-2021	\$ 252,000.00
Remaining Fund From 2019-2020	\$ -
Beginning Total	\$ 252,000.00
Total Spent 2020-2021	\$ 147,055.78
Remaining Fund	\$ 104,944.22

		Expense	Contract Year Running Total
March-20			
3/27 August Environmental Services, Inc.	Samples for plant	4801	415.80
3/11 UIS SCADA, Inc.	Troubleshooting Rotork Valve #5	530359709	1,207.75
3/20 The Computer Source, LLC	Repair SCADA System	4337	330.75
3/20 Superior Industrial Sales	Annual Gen Evaluation at WWTP	468633	253.37
3/11 RNT Supply, Inc.	Breaker for Main Disconnect #2	5703	4,446.44
3/11 Michigan Pipe & Valve	Parts to fix feed forward pump	J021145	17.43
3/20 USA Bluebook	Rebuild kits for ferric pump	168722	601.25
3/20 USA Bluebook	Chem tubes for ferric	169310	208.52
3/27 Systems Specialties	Repair Train #5 effluent valve	1041246	1,998.60
Total March		\$ 9,469.91	\$ 9,469.91
April-20			
4/16 August Environmental Services, Inc.	Biosolids Testing	4824	674.10
4/3 UIS SCADA	Troubleshooting alarm problems	530359957	714.00
4/16 Superior Industrial Sales, Inc.	Service check on Gen 2A at plant	467350	262.50
4/16 UIS SCADA	Work on SCADA computer problems	530360016	535.50
5/1 Oudbier Instrument Co., Inc.	Flow meter problem	9406	284.50
5/1 UIS SCADA	Troubleshoot breaker in main power to plant	530360124	606.38
5/1 Cochran Electric Co, Inc.	Check motor connections & wire cntrl transformer	24316	210.00
5/1 M&K Jetting & Televising, Llc-S	Clean out septic rec station	200303	486.63
5/1 Minuteman Sewer & Drain Cleaning	Cleaned line from septic receivers		388.50
4/3 Printer Source Plus	CMYK toner for Printer	169853	235.91
4/3 Printer Source Plus	Waste tank for printer	170450	33.38
4/3 Printer Source Plus	Black toner for printer	170625	52.30
4/3 The Water Store Inc	Water for other building	77446	35.44
4/16 Superior Industrial Sales	Service check on Gen 1A at plant	467351	262.50
4/16 USABluebook	1/2"Air Release for plant	191616	139.46
4/16 USABluebook	Replace broken pump to transfer solids from trains	202189	3,358.36
4/16 Wesco Receivables Corp	Fuses for SCADA Panel	734818	27.89
5/1 Fastenal Company	SS nuts & bolts for feed forward pumps	MJA1163719	56.62
5/1 Lester Brothers Excavating, Inc.	Stone for Driveway	136604	233.73
5/1 Superior Industrial Sales	Replace thermostat, block heater	467501	1,722.09
5/1 Motion Industries	Mag coils for MBR air reliefs	MI11-567109	333.30
5/1 USABluebook	tub assembly for ferric pumps	208917	213.93
5/1 The Water Store Inc	Water for plant	307740	13.39
5/1 Mcgowan Electric Supply	Microfuses for SCADA	1385162	5.15
5/1 Uv Doctor Lamps	6 ballasts and sensing board for UV systems	13343	5,223.75
5/1 Uv Doctor Lamps	2 compression nuts for UV system & cleaner for system	13391	257.25
4/6 Menards	fittings to fix ferric line in	K Baker P-card	23.77
4/9 Menards	filters for shop vac, float sw	K Baker P-card	101.48
4/13 Teledyne	Influent sampler parts	J Green P-card	1,505.55
4/13 Electric Automation	Int'l Transaction Fee	K Baker P-card	0.72
4/13 Electric Automation	Scada micro contacto	K Baker P-card	72.19
4/16 Menards	Electrical plugs for ext cords	J Green P-card	17.23
4/16 Mcgowan Electric Supply	Power cable	K Baker P-card	174.85
4/20 Galco Ind Elec	connectors for transfer	K Baker P-card	1,289.13
5/1 Waste Managemen	Biosolids hauled to landfill 3/1-3/15	0011771-1708-0	7,501.15
5/1 Waste Management	Biosolids hauled to landfill 3/16-3/31	0011787-1708-6	7,315.72
5/1 Waste Management	Biosolids hauled to landfill 4/1-4/15	0011809-1708-8	6,297.20
5/1 Fleis & Vandenbrink Engineering	WWTP CIP Assistance		4,504.00
5/1 Fleis & Vandenbrink Engineering	Water System Reliability Study/AMP		4,364.59
Total April		\$ 49,533.13	\$ 59,003.04

			Expense	Contract Year Running Total
May-20				
5/29 August Environmental Services, Inc.	Effluent Testing		4862	1,675.80
5/14 Cochran Electric Co, Inc.	Fix electrical cords safety		24460	532.11
5/14 M&K Jetting & Televising, Llc-S	Clean out centrate station		200349	485.63
5/28 H&H Welding & Repair Lic	Weld for screen #2 that was broken		109754	1,129.04
5/28 UIS Scada, Inc.	Repair Screen #2 power supply		530360369	439.46
5/14 Mcmaster-Carr	3 screws pin clevis for feed forward pumps		37145304	123.24
5/14 The Water Store Inc	Water for plant		311409	18.64
5/21 Huber Technology, Inc.	Huber screen guide bots		CD10019787	518.76
5/21 Huber Technology, Inc.	Huber screen reoller & brushes for screen		CD10019788	4,487.68
5/21 RNT Supply, Inc.	Rebuild main break for wastewater plant		39324	2,625.00
5/21 Standard Electric Company, Inc.	6 fuses for MBR blowerfans		15014360-00	67.18
5/29 Facility Solutions Group	Cleaning supplies		53577	612.31
5/7 Menards	Tripple A batteries for lab, a		K Baker P-card	30.02
5/8 Coppemolls Hdwe	Plumbing pieces		K Baker P-card	20.18
5/8 Menards	Plumbing supplies for fixing f		K Baker P-card	90.96
5/11 McDowell, Aaron	Tubing for ferric		McDowell, Aaron	17.23
5/28 Waste Management	105.26 tons biosolids hauled to landfill 4/16-4/30		0011823-1708-9	4,328.09
5/28 Waste Management	112.35 biosolids hauled		0011843-1708-7	4,732.10
5/14 Fleis & Vandenbrink Engineering	Water System Reliability Study/AMP			1,109.40
Total May			\$	23,042.83

\$ 82,045.87

June-20				
6/5 M&K Jetting & Televising	Clean catch basins at plant		200427	582.75
6/19 Cochran Electric Co, Inc.	Wire up 6" bypass pump		24521	1,721.83
6/19 H&H Welding & Repair	Repair screen #1		109848	659.04
6/19 Konecranes Lifting Business	Parts for crane		154261585	234.45
6/19 Minuteman Sewer & Drain Cleaning	Jet grit lift line at headworks		20-0802	719.25
6/19 Northern Pump & Well, Inc.	Check out bad pump found not worth fixing ordered replacement		20-J1770	433.13
6/26 Cochran Electric Co, Inc.	Remove main breaker & reinstall new breaker in main power to plant		2456	987.00
6/26 Cochran Electric Co, Inc.	2 ABB modules for few water system		24570	587.35
6/26 Lester Brothers Excavating, Inc.	2 load to landfill as dumptruck in down		141878	525.00
6/26 Superior Industrial Sales	trouble shoot Loader starting problem		469640	89.25
6/26 UIS Scada	rescale influent meter at WWTP		530360425	985.95
6/5 Alloquent	More tags for new SCADA computers		706020	3,906.00
6/5 Jim'S Fire Extinguisher Service	Fire Extinguisher Service		12979	68.25
6/5 UV Doctor Lamps	4 ballasts to fix UV system		13452	3,346.64
6/5 Michigan Pipe & Valve	Flanges for 6" bypass pump for pond pump		J021875	141.59
6/19 The Computer Source	1 Backup external drive for SCADA & larger HD for Camera System		4395	774.25
5/18 Amazon.Com	adapter hose for blower blow		K Baker P-card	51.20
5/22 Menards	Hammer drill for putting down pl		K Baker P-card	128.69
5/22 O'Reilly Auto Parts	Battery for bypass p		J Green P-card	163.33
5/25 Menards	water stop for manhole back in t		K Baker P-card	97.37
5/25 Menards	more water stop to finis the pro		K Baker P-card	16.22
5/25 Doan	Concrete to fill Lagoon structure		J Green P-card	1,463.60
5/27 Sunbelt Rentals	Pump rental for emergenc		M Hosier P-card	1,070.42
5/27 Cathey	4 20 foot sections of suction of		K Baker P-card	2,322.01
6/11 Jett Pump	Anoxic Mixer parts		J Green P-card	345.05
6/15 Harbor Freight	2 drain cleaing bladdr		K Baker P-card	16.67
6/15 Menards	2 water hose nozzels for plant		K Baker P-card	22.24
6/19 Fastenal	40 bolts and 30 SS washers fo		K Baker P-card	61.65
6/19 Frank'S Shop	16 bottles of soap for MBR w		K Baker P-card	26.87
6/19 Waste Management	103.52 tons taken to landfill 5/16-5/31/2020		0011865-1708-0	4,256.54
6/26 Waste Management	6/1-6/15 hauled 109.7 tons to landfill		0011888-1708-2	4,480.09
6/26 Fleis & Vandenbrink Engineering	Leoni Twp Sewer Use Ordinance		56012	604.01
6/26 Fleis & Vandenbrink Engineering	WWTP CIP Assistance		56064	3,146.59
Total June			\$	34,044.28

\$ 116,090.15

			Expense	Contract Year Running Total
July-20				
7/20 August Environmental Services	Testing		4908	415.80
7/3 Lester Brothers Excavating	3 loads to landfill		142059	346.50
7/14 UIS SCADA	Troubleshoot screen issues at head works		530360618	926.10
7/20 Lester Brothers Excavating	haul biosolids to landfill 2		142870	577.50
7/20 Lester Brothers Excavating	1 load to landfill		142954	404.25
7/20 Lester Brothers Excavating	haul 1 load to landfill		142971	231.00
7/20 Lester Brothers Excavating	haul 1 load to landfill		143048	231.00
7/20 Lester Brothers Excavating	haul 1 load to landfill		143148	231.00
7/20 Lester Brothers Excavating	haul 1 load to landfill		143237	404.25
7/20 Lester Brothers Excavating	haul 2 loads biosolids to landfill		143286	462.00
7/23 Oudbier Instrument Co.	Annual calibration of WWTP equipment		9543	4,735.50
7/31 Oudbier Instrument Co.	Replace broken pressure switch & calibrate it to SCADA		9561	2,076.38
7/20 Jackson Truck Service	Fix exhaust and hood on dumptruck	SV001037778.01		2,525.19
7/3 Mcgowan Electric Supply	Fuses for UV System		1390212	8.07
7/3 The Water Store	Water for men		317488	30.71
7/14 Wesco Receivables Corp	Replace breaker for centrate station & cable repair kit xfer sludge pump		767134	800.75
7/20 The Water Store	water		326677	32.50
7/31 The Water Store	Water for men		331527	13.39
5/29 Jett Pump & Valve		M Bratschi P-Card		293.07
6/23 Fastenal	Stainless steel washers & bol			27.44
6/26 Menards	Rope and tie straps & bug spray	K Baker P-Card		209.66
6/29 Amzn	two pales of chlorine for few water	K Baker P-Card		244.84
6/29 Menards	penetrating oil and emory cloth	J Livemois P-Card		28.67
6/29 Menards	tools	J Livemois P-Card		118.95
7/6 Menards	tools for MBR cleaning	J Livemois P-Card		11.63
7/8 YSI	3 O2 probe rebuild kits for wasewate	K Baker P-Card		548.10
7/20 Industrial Filter Manufacturers	6 air filters for blowers		11386	1,384.45
7/14 Airgas	Refill propane for fork lift		9102242127	75.39
7/20 Waste Management	134.76 biosolids hauled	0011907-1708-0		5,417.71
7/31 Lester Brothers Excavating	Haul biosolids to landfill 7.10.20		143373	462.00
7/31 Lester Brothers Excavating	Haul biosolids to landfill 7.14.20		143710	441.00
7/31 Waste Management	171.63 tons Biosolids hauled to landfill 7.1-7.6.20	001939-1708-3		7,057.08
7/14 Fleis & Vandenbrink Eng	Sewer Use Ordinance Update		56207	193.75
Total July			\$	30,965.63
\$ 147,055.78				
August-20				
Total August			\$	-
\$ 147,055.78				
September-20				
Total September			\$	-
\$ 147,055.78				
October-20				
Total October			\$	-
\$ 147,055.78				
November-20				
Total November			\$	-
\$ 147,055.78				
December-20				
Total December			\$	-
\$ 147,055.78				
January-21				
Total January			\$	-
\$ 147,055.78				

	Expense	Contract Year Running Total
February-21		

Total February

\$ -

\$ 147,055.78

706020 | Leoni - 590-548 Collection/Distribution

MAINTENANCE ALLOWANCE SPENDING 2020-2021

Contract year 2020-2021	\$ 108,258.00
Remaining Fund From 2019-2020	\$ -
Beginning Total	\$ 108,258.00
Total Spent 2020-2021	\$ 90,308.71
Remaining Fund	\$ 17,949.29

			Expense	Contract Year Running Total
March-20				
3/20 Cochran Electric Co, Inc.	Wiring at Grinder Can	24391	300.80	
3/11 The Water Store Inc	Water for plant		19.43	
Total March			\$ 300.80	\$ 300.80
April-20				
5/1 M&K Jetting & Televising	ER Repair on Ann Arbor Road	200281	3,470.25	
5/1 M&K Jetting & Televising	Jett & inspect to sewer after repair	200304	777.00	
5/1 UIS Scada	Main LS pump control problem	530360147	1,020.60	
5/1 M&K Jetting & Televising	Clean out 4 lift stations	200310	2,039.63	
4/3 Milan Supply Co	4 Start cap kits for grinder cans	55500073-00	692.77	
4/3 Milan Supply Co	12 cap kits for grinder cans	55900029-00	2,623.77	
4/16 The Water Store Inc	Water for operators	304904	24.68	
5/1 USABluebook	Chain grabbers for lift stations	208917	342.45	
5/1 Michigan Pipe & Valve	2 Air releases for forcemains	J021491	2,567.02	
4/9 Menards	Battery for vac trailer, batte	K-Baker P-card	217.34	
Total April			\$ 13,775.51	\$ 14,076.31
May-20				
5/14 COCHRAN ELECTRIC CO, INC	Wire temp bypass pump for Thrush station	24476	214.20	
5/14 M&K JETTING & TELEVISION	Clean sewer at Delman & Ponderosa	200350	777.00	
5/14 SUPERIOR INDUSTRIAL SALE	Repair generator at Thrush lift station	468276	1,244.81	
5/14 UIS SCADA, INC.	Perform annual PM for SCAD radios	530360176	5,092.50	
5/28 M&K JETTING & TELEVISION	Investigate sink hole on Ann Arbor Rd	200395	1,554.00	
5/29 LESTER BROTHERS EXCAVA	Emergency Repair on Ann Arbor Rd	136763	13,678.72	
5/14 ETNA SUPPLY CO.	4" 90 for bypass for Thrush lift station	S103507615.001	90.30	
5/21 MICHIGAN PIPE & VALVE	Flang kits for bypass pump for thrush lift station	J021700	84.19	
5/21 MICHIGAN PIPE & VALVE	Marking paint & flags for MISSDIGS	J021774	119.53	
5/28 FERGUSON ENTERPRISES, IN	2 adapters for bypass Thrush LS	100487	84.53	
5/28 HAMMERSMITH EQUIPMENT C	Marking paint & flags for MISSDIGS	457896	260.44	
5/28 ETNA SUPPLY CO.	2 Nipples for bypass at Thrush LS	S103507431.001	72.45	
Total May			\$ 23,272.67	\$ 37,348.98
June-20				
6/5 H. SULLIVAN SERVICES, LLC	Ann Arbor sewer backup main backed up causing resident sewer to back up	1086	840.00	
6/19 H. Sullivan Services, Llc	Wire up grinder pump w new wire because of corrosion	24497	328.66	
6/19 Cochran Electric Co, Inc.	Replacement impeller for Thrush station pump #2	19962	4,022.55	
6/19 Jett Pump & Valve	Replacement pump #1 for Thrush Station	19974	15,436.69	
6/19 Jett Pump & Valve	Unplug pump #2 at Thrush Station	20131	403.20	
6/26 M&K Jetting & Televising	Emergency repair on Ann Arbor Rd sewer backup	200281	8,379.00	
6/26 UIS SCADA	Troubleshoot Jane Station and bring in contacts	530360091	2,719.82	
6/26 UIS SCADA	Troubleshoot LS at Thrush Station	530360174	1,080.45	
6/26 Detroit Pump & Manufacturing	Replace spare pump for stock	1061361	3,187.63	
6/5 The Water Store Inc	Water for men	314402	13.39	
6/19 USA Bluebook	12 NC Floats stock	252722	336.29	
6/26 Ferguson Enterprises	3 pvc parts for grinder pump builds	5640851	25.52	
6/26 USA Bluebook	12 Floats for LS	260063	614.34	
Total June			\$ 37,387.54	\$ 74,736.52
July-20				
7/31 City Of Flint - Treasurer	April, May, June Bacti Tests	2020 Coliform Bac	236.25	
7/3 Cochran Electric Co	Hook up new motor starters for Thrush Station	24587	753.42	
7/3 M&K Jetting & Televising	Televis manhole on Michigan Ave for sewer problem	200351	388.50	
7/14 JK Of Michigan	Unplug pump #2 and troubleshoot lead and log switch	20149	604.80	
7/14 JK Of Michigan	Pulled pump #1 plugged	20150	201.60	
7/14 JK Of Michigan	Cleaned out cehck valve backflushed line	20151	302.40	
7/14 Superior Industrial Sales	Annual Main for corrado LS	470364	411.11	
7/14 Superior Industrial Sales	Annual Maint Munith LS	470371	411.11	
7/14 Superior Industrial Sales	Annual main on Young LS	470379	411.11	
7/14 UIS SCADA	Help figure out flow meter problems at main Munith station	530360714	1,092.26	
7/20 JK Of Michigan	repair/rebuild air release on effluent line and reinstall	20199	3,538.50	
7/23 M&K Jetting & Televising	Clean grease out of Donnely LS	200674	945.00	
7/23 JK Of Michigan	Install IMP on #1 unable to run	20175	604.80	
7/31 Cochran Electric Co	New wire pulled for 937 Otney Dr	24646	414.61	

			Expense	Contract Year Running Total
7/20 Jackson Truck Service	fix dump truck injector failure	SV001037742.01	3,637.35	
7/3 Ferguson Enterprises	parts for grinder can builds	5640851-1	295.98	
7/3 Milan Supply Company	Parts for grinder cans	55900110-00	369.11	
7/20 The Water Store Inc	water	328355	7.35	
7/31 Milan Supply Company	6 grinder can lids for stock	55900099-00	968.10	
7/31 USA Bluebook	3 floats stock for LS	304308	252.22	
7/31 USA Bluebook	Credit for returning wrong floats	310653	(684.50)	
7/14 Superior Industrial Sales	Annual Main Zig LS	470375	411.11	
Total July			\$ 15,572.19	

\$ 90,308.71

August-20

Total August \$ -

\$ 90,308.71

September-20

Total September \$ -

\$ 90,308.71

October-20

Total October \$ -

\$ 90,308.71

	Expense	Contract Year Running Total
November-20		
Total November	\$ -	\$ 90,308.71
December-20		
Total December	\$ -	\$ 90,308.71
January-21		
Total January	\$ -	\$ 90,308.71
February-21		
Total February	\$ -	\$ 90,308.71