

WARWICK TOWNSHIP WATER AND SEWER AUTHORITY
November 20, 2023 AGENDA

- I. Call to Order 7:00 P.M. - Chairman
 - A. Pledge of Allegiance
 - B. Call of the roll
- II. Review and approval of the Meeting Minutes of October 23, 2023
- III. Public Comment
 - A. Confirmed Appointments
 - B. From the Floor
- IV. Financial Report –
 - A. November 17, 2023 Aging Report
 - B. November 2023 Financial Report
- V. Treasurer's Report
 - A. Authority
 - 1. Bill Payment List 11/23-A (FNBN Bank) in the amount of \$179,448.07
 - a. Transfer of \$233,020.94 from the Revenue Account to the Operating Account
 - b. Transfer of \$22,177.13 from the Capital Account to the Operating Account
 - c. Professional service releases (FNBN Bank) in the total amount of \$20,803.77
 - d. Escrow releases & professional service invoice (pending) in the amount of \$5,721.65
- VI. Solicitor's Report – Rudolph and Clarke
 - A. See Enclosed Report
 - B. Resolution 2023-12 – Developer Agreement- 1547-1549 Campus Dr.
- VII. Engineer's Report – Ebert Engineering
 - A. Authority Projects (See Enclosed Report)
 - B. Developments (See Enclosed Report)
- VIII. Authority Report – Executive Director
 - A. Operations
 - 1. Operations Report – Water/Sewer (Enclosed)
 - 2. FCWTP
 - a. Operations Building
 - b. Valve Replacement Project
 - B. Administrative
 - 1. Water & Sewer Tapping Fee Application- 1901 Guinea Lane
 - 2. Truck Sale – 2002 Sterling/2009 F250
 - 3. Alarm System Proposal
 - 4. Water & Sewer Tapping Fee Calculation Proposal

IX. Chairman's Minute

A. Next Scheduled Meeting is Monday, December 18, 2023

B. Adjourn

MINUTES OF THE REGULAR MEETING OCTOBER 23, 2023 WARWICK TOWNSHIP WATER AND SEWER AUTHORITY

The regular October 23, 2023 meeting of the Warwick Township Water and Sewer Authority was called to order at 7:00 p.m. by Chairman Paul Stavrides. The following Board members were present, Treasurer Richard Carlin, Secretary Kevin McGowan and Assistant Secretary/Treasurer Edward Thompson. Vice Chairman Stan Rockovich was excused from attendance.

Also present at the invitation of the Board were the following:

Lauri Halderson, Executive Director
Edward Rudolph, Rudolph Clarke LLC
Frederick Ebert, P.E., Ebert Engineering

MINUTES

Upon motion of Mr. Thompson, seconded by Mr. McGowan, the Board approved the Meeting Minutes of August 28, 2023 as amended, by a vote of 3-0-1. Mr. Carlin abstained from the vote.

Upon motion of Mr. Carlin, seconded by Mr. McGowan, the Board approved the Meeting Minutes of September 25, 2023 as amended, by a vote of 3-0-1. Mr. Stavrides abstained from the vote.

PUBLIC COMMENT

- A. Confirmed Appointments – There were no confirmed appointments.
- B. From the Floor – None

TREASURER'S REPORT

Presentation of the Draft 2024 Operating Budget – Mrs. Halderson provided a detailed review of the Draft Budget with the Board including a discussion on the 2024 insurance renewals. On motion of Mr. Carlin, seconded by Mr. McGowan the Board approved the 2024 Operating Budget with a 5% rate increase, by a vote of 5-0.

Mrs. Halderson reviewed with the Board the October 2023 Financial Report and the current Accounts Receivable aging report and the status of the delinquent accounts.

Transfers

On motion of Mr. McGowan, seconded by Mr. Thompson, Bill Payment List 10/23-A in the amount of \$249,110.46 was approved by a vote of 4-0.

On motion of Mr. McGowan, seconded by Mr. Thompson a transfer of \$40,088.00 from the Capital Account to the TD Operating Account was approved by a vote of 4-0.

Releases

On motion of Mr. McGowan, seconded by Mr. Thompson, Professional Services Releases (TD Bank) in the total amount of \$16,795.45 was approved by a vote of 4-0.

SOLICITOR'S REPORT

Mr. Rudolph provided a brief update to the Authority Board.

ENGINEER'S REPORT

Authority Projects

Mr. Ebert referred the Board to the Engineers written engineering report.

AUTHORITY REPORT

Operations – Executive Director

Operations Report – Water/Sewer – Mrs. Halderson referred the Board to the written operations reports.

FCWTP Valve Replacement – Mr. Ebert and Mrs. Halderson provided an update to the Board. The scope of work will be provided at the November meeting.

FCWTP Operations Building – The Operations building upgrade construction will begin November 6, 2023.

CHAIRMAN'S MINUTE

A. Adjournment – There being no further business, the Board, upon motion of Mr. Thompson, seconded by Mr. McGowan, and with a 4-0 aye vote, adjourned at 7:57 p.m.

Respectfully submitted,

BY: _____
Warwick Township Water and Sewer Authority

WARWICK TOWNSHIP WATER & SEWER AUTHORITY
AGED ACCOUNT REPORT
11/17/2023

	Current	30 Days	60 Days	90 Days	Total
Commercial -Flat Sewer	0.00	0.00	0.00	0.00	0.00
Commercial -Meter Sewer	0.00	0.00	0.00	0.00	0.00
Commercial -Water	99.97	0.00	0.00	0.00	99.97
Commercial -Water & Sewer	2,375.15	881.88	0.00	4,326.72	7,583.75
Total Commerical	2,475.12	881.88	0.00	4,326.72	7,683.72
Multi-Family - Water & Sewer	0.00	0.00	0.00	0.00	0.00
Public - Water & Sewer	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00
Residential - Flat Sewer	3,073.94	0.00	0.00	4,275.46	7,349.40
Residential - Meter Sewer	397.75	0.00	0.00	82.80	480.55
Residential - Water	99.50	0.00	0.00	243.40	342.90
Residential - Water & Sewer	52,384.04	0.00	0.00	17,803.06	70,187.10
Total Residential	55,955.23	0.00	0.00	22,404.72	78,359.95
TOTAL AR	58,430.35	881.88	0.00	26,731.44	86,043.67

WARWICK TOWNSHIP WATER & SEWER AUTHORITY
AR BALANCE SUMMARY
11/17/2023

21-Oct	800,061
21-Nov	104,457
21-Dec	57,008
22-Jan	710,443
22-Feb	75,863
22-Mar	39,909
22-Apr	655,234
22-May	88,021
22-Jun	37,972
22-Jul	723,810
22-Aug	101,433
22-Sep	46,684
22-Oct	834,336
22-Nov	114,481
22-Dec	57,218
23-Jan	676,501
23-Feb	98,507
23-Mar	64,636
23-Apr	672,783
23-May	78,158
23-Jun	30,913
23-Jul	777,869
23-Aug	75,459
23-Sep	30,593
23-Oct	785,446
23-Nov	86,044

WARWICK TOWNSHIP WATER & SEWER AUTHORITY
Statement of Revenues & Expenditures
For Period Ending 11/17/2023

	2023 BUDGET	YTD	PRIOR YEAR	PERCENT
OPERATING REVENUE				
WATER REVENUE	1,680,000	1,237,402	1,189,157	73.65%
SEWER REVENUE	2,310,000	1,739,517	1,652,191	75.30%
ADMINISTRATION FEES	8,500	7,922	7,206	93.20%
METER & YOKE INCOME	20,000	1,210	500	6.05%
METER INSTALLATION REVENUE	3,500	0	100	0.00%
CONSTRUCTION USAGE & CERT FEES	16,000	8,550	9,450	53.44%
INSPECTION INCOME	0	1,400	0	0.00%
TOTAL OPERATING REVENUE	4,038,000	2,996,001	2,858,604	74.20%

OPERATING EXPENSE - WATER				
SALARIES & WAGES	203,000	180,963	156,208	89.14%
EMPLOYEE BENEFITS	49,000	44,214	33,264	90.23%
PAYROLL TAXES	17,500	16,982	13,905	97.04%
PENSION PLAN	10,500	7,910	5,815	75.33%
WATER PURCHASES	775,000	603,019	639,125	77.81%
TESTING - WATER	10,000	4,460	5,645	44.60%
UTILITIES SERVICES	23,000	19,964	20,995	86.80%
SYSTEM MINOR REPAIRS & MAIN.	25,000	39,983	29,848	159.93%
OPERATING SUPPLIES - WATER	7,000	5,408	5,371	77.25%
MONITORING & REGULATING	5,000	2,495	5,272	49.90%
ENGINEERING SERVICES	7,000	5,073	6,037	72.47%
LEGAL SERVICES	1,000	0	0	0.00%
METER EXPENSE	20,000	0	0	0.00%
INSURANCE	28,164	14,894	21,730	52.88%
PA ONE CALL	500	302	239	60.48%
TRUCK EXPENSE	9,000	5,993	8,174	66.58%
UNIFORMS & CLEANING	1,700	1,781	791	104.74%
GROUND MAINTENANCE	2,000	0	1,492	0.00%
WATER PERMIT FEES	42,000	20,000	20,120	47.62%
TOTAL OPERATING EXPENSE - WATER	1,236,364	973,439	974,032	78.73%

OPERATING EXPENSE - SEWER				
SALARIES & WAGES	218,000	166,699	144,785	76.47%
EMPLOYEE BENEFITS	55,000	29,476	22,176	53.59%
PAYROLL TAXES	19,000	11,932	10,123	62.80%
PENSION PLAN	11,000	5,273	3,877	47.94%
PLANT MINOR REPAIRS & MAIN.	50,000	36,864	63,927	73.73%
TESTING - SEWER	20,000	16,079	15,649	80.40%
UTILITIES SERVICES	210,000	155,652	152,964	74.12%
CHEMICALS	115,000	96,867	85,509	84.23%
SYSTEM REPAIRS & MAIN.	80,000	94,495	75,824	118.12%
SLUDGE HAULING	360,000	248,595	278,595	69.05%
OPERATING SUPPLIES - SEWER	8,000	4,514	4,655	56.43%
ROAD MAINTENANCE/REPAIR	0	0	3,441	0.00%

ENGINEERING SERVICES	20,000	17,155	17,795	85.78%
LEGAL SERVICES	2,000	0	0	0.00%
METER EXPENSE	20,000	0	0	0.00%
INSURANCE	35,205	18,774	27,648	53.33%
PA ONE CALL	500	302	239	60.48%
TRUCK EXPENSES	13,000	8,696	12,010	66.89%
UNIFORMS & CLEANING	2,000	1,976	2,092	98.78%
GROUND MAINTENANCE	2,000	0	1,824	0.00%
PERMITS & LICENSES FEES	2,100	2,024	2,257	96.38%
TOTAL OPERATING EXPENSE - SEWER	1,242,805	915,374	925,389	73.65%

OPERATING EXPENSE - ADMIN

SALARIES AND WAGES	363,000	287,430	272,528	79.18%
EMPLOYEE BENEFITS	102,000	60,478	61,627	59.29%
PAYROLL TAXES	24,000	23,382	22,566	97.43%
PENSION PLAN	16,000	11,040	11,750	69.00%
OFFICE SUPPLIES	8,000	6,548	3,618	81.85%
OFFICE EXPENSES	21,000	23,103	15,921	110.02%
POSTAGE	12,000	10,453	9,446	87.11%
ACCOUNTING & AUDITING SERVICES	16,500	16,500	16,500	100.00%
PAYROLL SERVICES	5,000	3,890	3,375	77.80%
ENGINEERING SERVICES	2,000	0	0	0.00%
LEGAL SERVICES	50,000	64,863	44,873	129.73%
COMPUTER SUPPORT SERVICES	18,000	20,913	14,556	116.18%
COMMUNICATIONS - TELEPHONE ETC.	11,000	6,933	9,173	63.03%
INSURANCE	7,041	3,622	3,436	51.44%
ADVERTISING	2,500	2,117	1,229	84.69%
AUTO ALLOWANCE - MILEAGE REIMBURSE.	1,000	2,827	0	282.65%
RENT	48,000	44,000	44,000	91.67%
MEETINGS CONFERENCES & SEMINARS	2,500	1,661	2,631	66.44%
PERMITS & LICENSES FEES	2,000	2,000	2,000	100.00%
DUES SUBSCRIPTIONS & MEMBERSHIP	5,000	3,610	1,071	72.20%
EDUCATION & TRAINING	5,000	1,533	5,528	30.66%
DEPRECIATION	1,675,000	0	0	0.00%
TOTAL OPERATING EXPENSE - ADMIN	2,396,541	596,902	545,828	24.91%

TOTAL OPERATING EXPENSES	4,875,710	2,485,716	2,445,249	
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NET INCOME - OPERATIONS	(837,710)	510,285	413,355	
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NON-OPERATING REVENUES

INTEREST INCOME	1,000	72,723	11,834	7272.33%
WATER TAPPING FEES	75,000	9,000	18,000	12.00%
SEWER TAPPING FEES	441,000	0	18,900	0.00%
MISCELLANEOUS INCOME	617,400	28,100	30,000	0.00%
GRANT INCOME	2,500	0	0	0.00%
TOTAL NON-OPERATING EXPENSE	1,136,900	109,823	78,734	9.66%

NET INCOME	299,190	620,108	492,089	
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WARWICK TOWNSHIP WATER & SEWER AUTHORITY
SCHEDULE OF NET ASSETS
For Period Ending 11/17/2023

		CURRENT YEAR	PREVIOUS YEAR
CASH			
CASH - OPERATING	08-1000-000	0	221,944
CASH - FNBN OPERATING	08-1000-020	98,675	0
CASH - FNBN CAPITAL	08-1000-040	616,670	0
CASH - FNBN REVENUE	08-1000-060	654,712	0
CASH - FNBN CREDIT CARD	08-1000-080	795,418	0
CASH - CAPITAL	08-1000-100	0	464,074
CASH - REVENUE	08-1000-200	0	1,962,227
CASH - CREDIT CARD	08-1000-250	0	50,399
CASH - PLGIT	08-1000-510	323	310
CASH - PLGIT CAPITAL	08-1000-520	2,227,204	658,076
CASH - TD BANK INTEREST ACCOUNT	08-1000-530	0	6,728
CASH - PROVIDENT BANK	08-1000-545	0	273
CASH - PETTY CASH	08-1000-900	100	100
CASH - ESCROW CHECKING	08-1300-000	(20,804)	0
TOTAL CASH		4,372,297	3,364,131
ACCOUNTS RECEIVABLE			
ACCOUNTS RECEIVABLE - W & S REVENUE	08-1200-000	86,062	85,663
ACCOUNTS RECEIVABLE - MISC.	08-1200-020	5,927	4,230
ACCOUNTS RECEIVABLE - FETZER/PRESTIGE	08-1200-030	6,252	6,252
OTHER RECEIVALBE - NAVY PROJECT	08-1200-140	10,668	9,446
TOTAL ACCOUNTS RECEIVABLE		108,909	105,592
OTHER CURRENT ASSETS			
INVENTORY	08-1260-000	129,095	55,398
PREPAID EXPENSES	08-1270-000	47,848	15,823
TOTAL OTHER CURRENT ASSETS		176,943	71,221
TOTAL CURRENT ASSETS		4,658,149	3,540,943
RESTRICTED ASSETS			
ESCROW ACCOUNTS			
PUCI (WBC LOT 32)	08-1330-022	323	323
WARWICK OFFICE PARK -COMMONWYDDS II	08-1330-041	2,190	2,190
OXFORD LANE TMP #51-19-194-1	08-1330-046	1,500	1,500
SOMERSET TIRE SVC	08-1330-049	4,340	4,340
STS - FINANCIAL SECURITY	08-1330-050	32,696	32,696
Mearns Rd Business Campus-Lot 1 SBG	08-1330-055	2,915	2,915
Toll - Heritage Creek	08-1330-059	7,345	7,345
Woodlands at Warwick	08-1330-061	242	242
WAWA - Verrichia - Wrwk Vill Common	08-1330-062	1,547	1,547

WTWSA-Warwick Office Park - Fin Sec	08-1330-063	5,168	5,168
WARWICK BUSINESS CAMPUS - CORNELL	08-1330-079	4,434	4,434
WARWICK VILLAGE COMMONS (AKA WAWA)	08-1330-099	3,306	3,306
ESTATES AT VALLEY VIEW - FINANCIAL	08-1330-102	1,192	1,192
JAMP - 1447 ALMSHOUSE RD	08-1330-116	4,676	4,676
WARWICK MILL - DEV ESC	08-1330-117	2,274	2,274
FETZER TRACT - BLADCO	08-1330-118	4,941	4,807
GLENWOOD ESTATES - DEVELOPER	08-1330-121	4,824	4,824
DIAMOND RIDGE - PSA	08-1330-122	4,184	4,184
1825 STOUT DRIVE - AFZAL REALTY	08-1330-125	1,000	1,000
1825 STOUT DRIVE - AFZAL REALTY PSA	08-1330-126	5,000	5,000
WARWICK MILL - FOXLANE HOMES	08-1330-130	532	1,241
COSTA HOMES - SAILOR PSA	08-1330-131	1,144	1,425
KENRICH MECHANICAL - 1411 ALMSHOUSE RD	08-1330-133	1,265	1,265
TRACTOR SUPPLY - DEV ESCROW	08-1330-134	207	207
1549 STONY ROAD - SSA	08-1330-135	6,483	2,370
1700 OLD YORK ROAD - PSA	08-1330-136	2,227	2,227
KAMPUS KLOTHES	08-1330-137	2,509	2,509
1700 ALMSHOUSE RD - CARLTON POOLS	08-1330-138	920	920
GASPER LANDSCAPE	08-1330-139	700	700
SPRING DANCE HOT TUB - PSA	08-1330-140	118	118
WBC LOTS 22&23 - CNKA LP	08-1330-141	1,174	1,174
PRIME BLDR - PUMP & HAUL	08-1330-142	0	2,500
WOODLANDS - PAVING & PLOW	08-1330-143	34,650	34,650
COSTA-SAILOR DEVELOPER	08-1330-144	24,501	26,500
1547-1549 CAMPUS DRIVE LLC	08-1330-145	2,500	3,433
1908 YORK ROAD	08-1330-146	8,299	8,299
GASPER - DEVELOPER AGREEMENT	08-1330-147	2,043	9,686
KAMPUS KLOTHES - DEVELOPER	08-1330-148	6,686	15,202
1938 STOUT DRIVE - FIRE SERVICE	08-1330-149	1,000	1,000
SPRING DANCE - DEVELOPER	08-1330-150	11,913	15,374
PULTE TOWNHOMES - PSA	08-1330-151	9,067	0
PULTE/FETZER TRACT DEVELOPER	08-1330-152	76,285	0
1901 GUINEA LANE - STRAYER	08-1330-153	4,035	0

TOTAL ESCROW ACCOUNTS

292,355

224,763

TOTAL RESTRICTED ASSETS

292,355

224,763

FIXED ASSET

PROPERTY & PLANT

PLANT & FACILITY ASSETS		62,337,257	61,174,325
A/D - PLANT & SYSTEMS	08-1600-099	(30,153,256)	(28,572,424)

TOTAL PROPERTY & PLANT		32,184,001	32,601,902
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VEHICLES

VEHICLES	08-1610-000	458,371	297,749
A/D - VEHICLES	08-1610-050	(248,161)	(240,665)

TOTAL VEHICLES		210,210	57,084
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PLANT & SYSTEM EQUIPMENT

PROPERTY PLANT & EQUIPMENT	08-1640-000	489,004	489,004
A/D - PROPERTY PLANT & EQUIPMENT	08-1640-050	(417,220)	(408,770)

TOTAL PLANT & SYSTEM EQUIPMENT		71,784	80,234
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LEASEHOLD IMPROVEMENTS

LEASEHOLD IMPROVEMENTS	08-1650-000	321,627	321,627
A/D - LEASEHOLD IMPROVEMENTS	08-1650-050	(321,627)	(321,627)

TOTAL LEASEHOLD IMPROVEMENTS		0	0
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OFFICE FURNITURE & EQUIPMENT

OFFICE FURNITURE & EQUIPMENT	08-1660-000	178,951	213,336
A/D - OFFICE FURNITURE & EQUIPMENT	08-1660-050	(131,716)	(170,876)

TOTAL OFFICE FURNITURE & EQUIPMENT		47,235	42,460
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CONSTRUCTION IN PROGRESS

CIP - NAVY TCE PROJECT	08-1670-014	132	1,222
CIP - FCWTP UPGRADE II ADDED COST	08-1670-016	6,562	6,562
CIP - MANHOLE REHAB PROJECT	08-1670-018	114,607	85,148
CIP - FCWTP UPGRADE 2022	08-1670-019	484,327	53,346
CIP - LEAD & COPPER	08-1670-020	653	0

TOTAL CONSTRUCTION IN PROGRESS		606,280	146,279
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TOTAL FIXED ASSETS		33,119,510	32,927,958
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TOTAL ASSETS		38,070,014	36,693,665
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DEFERRED OUTFLOWS

DEFERRED LOSS ON BOND REFUNDINGS	08-1995-000	0	0
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TOTAL DEFERRED OUTFLOWS		0	0
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LIABILITIES**CURRENT LIABILITIES**

ACCOUNTS PAYABLE	08-2000-000	(7,379)	(4,980)
ACCRUED PAYROLL	08-2010-000	0	0
TOTAL CURRENT LIABILITIES		<u>(7,379)</u>	<u>(4,980)</u>

RESTRICTED LIABILITIES

FUNDS IN ESCROW PAYABLE	08-2240-000	(263,952)	(206,819)
TOTAL RESTRICTED LIABILITIES		<u>(263,952)</u>	<u>(206,819)</u>

OTHER LIABILITIES

DEFERRED REVENUE	08-2500-000	(1,071,600)	(237,600)
TOTAL OTHER LIABILITIES		<u>(1,071,600)</u>	<u>(237,600)</u>

TOTAL LIABILITIES

<u>(1,342,931)</u>	<u>(449,399)</u>
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FUND EQUITY

UNRESTRICTED	08-3000-000	(2,467,981)	(2,113,184)
INVESTMENT IN FIXED ASSETS	08-3100-000	(33,638,993)	(33,638,993)

FUND EQUITY SUBTOTAL		<u>(36,106,974)</u>	<u>(35,752,177)</u>
RESULTS FROM OPERATIONS (NET INCOME)		<u>(620,108)</u>	<u>(492,089)</u>
TOTAL FUND EQUITY		<u>(36,727,082)</u>	<u>(36,244,266)</u>

TOTAL LIABILITIES & FUND EQUITY

<u>(38,070,014)</u>	<u>(36,693,665)</u>
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WARWICK TOWNSHIP WATER & SEWER AUTHORITY
Schedule of Property Plant & System
For Period Ending 11/17/2023

		BALANCE PRIOR YEAR
08-1600-001	PLANT & FACILITY ASSETS	12,993,257 12,956,015
08-1600-002	FISH CREEK PLANT UPGRADE	7,986,299 7,986,299
08-1600-003	SEWER CAPITALIZED COST	1,845,189 1,817,111
08-1600-004	MILL CREEK SYSTEM	153,600 153,600
08-1600-006	WELL #4	20,071 20,071
08-1600-007	WATER CAPITALIZED COST	1,354,253 1,335,087
08-1600-008	LTL NESHAMINY CREEK WATER SUPPLY	80,330 80,330
08-1600-009	WATER SYSTEM SCADA	20,566 20,566
08-1600-010	GROUND WATER RESOURCES	4,668 4,668
08-1600-011	WATER MAIN/ROUTE 263	243,339 243,339
08-1600-012	INTERCEPTOR	424,611 424,611
08-1600-013	WATER MAIN - 12 - YORK ROAD	80,658 80,658
08-1600-014	COUNTRY CROSSING STP EXPANSION	220,376 220,376
08-1600-015	MEETINGHOUSE ROAD WATER MAIN	46,927 46,927
08-1600-017	REAL ESTATE PROPERTY - SEIFERT	10,079 10,079
08-1600-019	TURKEY TROT WATER EXTENSION	87,815 87,815
08-1600-021	GIS WATER/SEWER PLAN	14,300 14,300
08-1600-022	LAND ACQUISITION	551,571 551,571
08-1600-023	SUGARBOTTOM RD EXTENSION	221,494 221,494
08-1600-024	EDDOWES RD EXTENSION	783,785 783,785
08-1600-027	BUCKS COUNTY COUNTRY CLUB PHASE II	415,093 415,093
08-1600-028	HERITAGE CREEK I - V & CCWTP	4,460,677 4,460,677
08-1600-029	JAMISON SQUARE	3,800 3,800
08-1600-030	WOODFIELD ESTATES PHASES 1 - V	1,594,077 1,594,077
08-1600-031	FOXWOOD ESTATES	328,735 328,735
08-1600-032	MEARNS ROAD BUSINESS CAMPUS	32,801 32,801
08-1600-033	MEYER MINI WAREHOUSE	86,051 86,051
08-1600-035	BUCKS COUNTY COUNTRY CLUB	494,951 494,951
08-1600-036	COUNTY CROSSING SEWER PUMP STATION	306,440 306,440
08-1600-037	ESTATES OF DARK HOLLOW	819,000 819,000
08-1600-038	ESTATES OF DARK HOLLOW PS	263,009 263,009
08-1600-039	WARWICK GREENE	160,200 160,200
08-1600-040	WOODROSE MANOR	193,200 193,200
08-1600-041	COUNTRY CROSSING I	692,415 692,415
08-1600-042	COUNTRY CROSSING II	851,100 851,100
08-1600-043	CREEKWOOD	184,606 184,606
08-1600-044	CREEKVIEW	120,040 120,040
08-1600-045	COUNTRY CROSSING WWTP	1,180,324 1,176,624
08-1600-046	DEER RUN	321,178 321,178
08-1600-047	GODDARD SCHOOL	41,338 41,338
08-1600-048	WARWICK SQUARE	283,616 283,616
08-1600-049	WARWICK WOODS	312,803 312,803
08-1600-051	JAMISON HUNT	984,537 984,537
08-1600-052	WARWICK ESTATES	380,000 380,000

08-1600-053	STONEBRIDGE II	224,821	224,821
08-1600-054	YORK ROAD PUMP STATION	504,230	504,230
08-1600-055	JAMISON SCHOOL	77,383	77,383
08-1600-057	COUNTRY CLUB PLAZA	67,222	67,222
08-1600-058	DUNKIN DONUT	11,251	11,251
08-1600-059	HIDDEN POND	1,358,557	1,351,509
08-1600-060	COUNTRY CLUB KNOLL PHASE I	303,447	303,447
08-1600-061	CAVANAUGH TRACT	308,732	308,732
08-1600-062	YORK ROAD CAR WASH	51,960	51,960
08-1600-063	MBIT WATER MAIN EXTENSION	280,444	280,444
08-1600-064	COUNTRY CLUB KNOLL PHASE II	169,510	169,510
08-1600-065	COMMERCE BANK	43,770	43,770
08-1600-066	VALLEY ROAD LIFT STATION UPGRADE	448,610	448,610
08-1600-067	SPRING DANCE HOT TUBS	112,782	112,782
08-1600-068	RIDINGS LIFT STATION	845,296	845,296
08-1600-069	MEARNS ROAD BUSINESS CAMPUS	469,060	469,060
08-1600-070	NESTLEWOOD EST(MORRISON-BORGESON)	257,472	257,472
08-1600-071	WALGREENS	31,457	31,457
08-1600-072	WARWICK GLEN	83,278	83,278
08-1600-073	WARWICK LEA ESTATES	506,308	506,308
08-1600-074	BRIDGE VALLEY AT FURLONG	1,294,959	1,294,959
08-1600-075	HATBORO FEDERAL SAVINGS	77,508	77,508
08-1600-076	FCWTP 2008 PLANT UPGRADE	3,538,092	3,538,092
08-1600-077	HERITAGE CREEK II - PHASE I	1,220,869	1,220,869
08-1600-078	WARWICK OFFICE PARK (COMMONWYDS II)	292,803	292,803
08-1600-079	MOUNTAINVIEW II PUMP STATION	377,394	377,394
08-1600-080	CVS	44,508	44,508
08-1600-081	DEERFIELD II ESTATES	38,632	38,632
08-1600-082	WATER SYSTEM MODELING	10,881	10,881
08-1600-083	MASTROCCO SUBDIVISION	24,260	24,260
08-1600-084	WARWICK MEADOWS III	65,693	65,693
08-1600-085	NWWA INTERCONNECT	78,488	78,488
08-1600-086	SCADA SYSTEM	360,726	360,726
08-1600-087	KRUSE WATER SERVICE EXTENSION	104,855	104,855
08-1600-088	HERITAGE CREEK II - PHASE II	688,442	688,442
08-1600-089	JAMISON POUR HOUSE	44,594	44,594
08-1600-090	WARWICK COMMONS LOW PRESSURE SYSTEM	64,995	64,995
08-1600-091	ESTATES AT VALLEY VIEW	102,938	102,938
08-1600-092	CREEK ROAD WATER MAIN EXTENSION	610,990	610,990
08-1600-093	WARWICK MILL	467,565	467,565
08-1600-095	STOUT DRIVE WATER MAIN EXTENSION	47,052	47,052
08-1600-096	PENNDOT - YORK ROAD PROJECT	1,539,863	1,539,863
08-1600-097	BRISTOL ROAD WATER MAIN EXT (NAVY PROJECT)	2,012,977	2,012,977
08-1600-098	MOLAND HOUSE WATER MAIN	351,708	351,708
08-1600-100	WOODLANDS OF WARWICK	688,442	0
08-1600-101	WARWICK VILLAGE COMMONS PH I&II	379,256	0

TOTAL PROPERTY & PLANT

62,337,257 61,174,325

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Vendor No 00000AL101											
Vendor: 00000AL101 ALG Cleaning Services, LLC											
VR 00011648	08	FO	020	11/20/2023		11/20/2023	017492	O	507.50		507.50
Invoice No: SP523				Invoice Date: 11/01/2023		Invoice Description: Janitorial / Office Cleaning					
Vendor No 00000AL101 Totals:									507.50	0.00	507.50
Vendor No 00000AN100											
Vendor: 00000AN100 Anchor Pump and Engineered Equipment											
VR 00011575	08	FO	020	11/20/2023		11/20/2023	017493	O	5,890.38		5,890.38
Invoice No: 5210953-00				Invoice Date: 10/19/2023		Invoice Description: FCSTP - 3BR 3A Blower Motor					
Vendor: 00000AN100 Anchor Pump and Engineered Equipment											
VR 00011576	08	FO	020	11/20/2023		11/20/2023	017493	O	1,305.00		1,305.00
Invoice No: 5211000-00				Invoice Date: 10/19/2023		Invoice Description: FCSTP - 3BR 3A Blower Motor Installation & Parts					
Vendor: 00000AN100 Anchor Pump and Engineered Equipment											
VR 00011642	08	FO	020	11/20/2023		11/20/2023	017493	O	3,988.00		3,988.00
Invoice No: 5211047-00				Invoice Date: 11/01/2023		Invoice Description: FCSTP - Secondary Digester Motor					
Vendor No 00000AN100 Totals:									11,183.38	0.00	11,183.38
Vendor No 00000AQ102											
Vendor: 00000AQ102 Aqua Pennsylvania Inc.											
VR 00011684	08	FO	020	11/20/2023		11/20/2023	017494	O	46,092.68		46,092.68
Invoice No: 7970 2023-11-05				Invoice Date: 11/14/2023		Invoice Description: Monthly Water Purchase					
Vendor: 00000AQ102 Aqua Pennsylvania Inc.											
VR 00011685	08	FO	020	11/20/2023		11/20/2023	017495	O	2,504.50		2,504.50
Invoice No: 7970 2023-11				Invoice Date: 11/14/2023		Invoice Description: Monthly Water Purchase - Overages					
Vendor No 00000AQ102 Totals:									48,597.18	0.00	48,597.18
Vendor No 00000BM100											
Vendor: 00000BM100 BMO Mastercard											
VR 00011668	08	FO	020	11/20/2023		11/20/2023	E00018	R	84.93		84.93
Invoice No: 2768 2023-10				Invoice Date: 10/27/2023		Invoice Description: Monhly Credit Card Charges					
Vendor: 00000BM100 BMO Mastercard											
VR 00011678	08	FO	020	11/20/2023		11/20/2023	E00018	R	111.88		111.88
Invoice No: 2438 2023-10				Invoice Date: 10/27/2023		Invoice Description: Monthly Credit Card Charges					

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Vendor: 00000BM100 BMO Mastercard											
VR 00011679	08	FO	020	11/20/2023		11/20/2023	E00018	R	1,150.72		1,150.72
Invoice No: 2756 2023-10				Invoice Date: 10/27/2023		Invoice Description: Monthly Credit Card Charges					
Vendor No 00000BM100 Totals:									1,347.53	0.00	1,347.53
Vendor No 00000BU110											
Vendor: 00000BU110 Bucks County Water & Sewer Authority											
VR 00011620	08	FO	020	11/20/2023		11/20/2023	017496	O	161.45		161.45
Invoice No: 6134 2023-10				Invoice Date: 10/27/2023		Invoice Description: Sewer Revenue					
Vendor: 00000BU110 Bucks County Water & Sewer Authority											
VR 00011621	08	FO	020	11/20/2023		11/20/2023	017497	V	87.65		87.65
Invoice No: 6137 2023-10				Invoice Date: 10/27/2023		Invoice Description: Sewer Revenue					
Vendor: 00000BU110 Bucks County Water & Sewer Authority											
VR 00011713	08	FO	020	11/20/2023		11/20/2023	017533	O	87.65		87.65
Invoice No: 6137 2023-10				Invoice Date: 10/27/2023		Invoice Description: Sewer Revenue					
Vendor No 00000BU110 Totals:									336.75	0.00	336.75
Vendor No 00000CL100											
Vendor: 00000CL100 Clearfly											
VR 00011647	08	FO	020	11/20/2023		11/20/2023	017498	O	221.65		221.65
Invoice No: INV557663				Invoice Date: 11/20/2023		Invoice Description: Monthly Telephone Service					
Vendor No 00000CL100 Totals:									221.65	0.00	221.65
Vendor No 00000CO110											
Vendor: 00000CO110 Cobra Enviromental Inc											
VR 00011643	08	FO	020	11/20/2023		11/20/2023	017499	O	1,705.00		1,705.00
Invoice No: 3142				Invoice Date: 11/01/2023		Invoice Description: Cleaning Pump Stations					
Vendor No 00000CO110 Totals:									1,705.00	0.00	1,705.00
Vendor No 00000CO115											
Vendor: 00000CO115 Comcast Cablevision											
VR 00011688	08	FO	020	11/20/2023		11/20/2023	017500	O	1,144.23		1,144.23
Invoice No: 2023-11				Invoice Date: 11/15/2023		Invoice Description: Scada					

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Vendor No 00000CO115 Totals:									1,144.23	0.00	1,144.23
Vendor No 00000DE115											
Vendor: 00000DE115 Ready Refresh											
VR 00011686	08	FO	020	11/20/2023		11/20/2023	017501	O	19.99		19.99
Invoice No: 13J8227636142				Invoice Date: 11/02/2023		Invoice Description: Admin Water Cooler					
Vendor: 00000DE115 Ready Refresh											
VR 00011687	08	FO	020	11/20/2023		11/20/2023	017501	O	102.90		102.90
Invoice No: 13K8227636159				Invoice Date: 11/10/2023		Invoice Description: CCWTP - Water Cooler					
Vendor No 00000DE115 Totals:									122.89	0.00	122.89
Vendor No 00000DV102											
Vendor: 00000DV102 Delaware Valley Health Trust											
VR 00011619	08	FO	020	11/20/2023		11/20/2023	017502	O	11,095.38		11,095.38
Invoice No: 25846				Invoice Date: 11/01/2023		Invoice Description: Employer Benefits - Medical / RX / Dental					
Vendor No 00000DV102 Totals:									11,095.38	0.00	11,095.38
Vendor No 00000EB100											
Vendor: 00000EB100 Ebert Engineering Inc.											
VR 00011681	08	FO	020	11/20/2023		11/20/2023	017503	O	922.26		922.26
Invoice No: 10-23-080				Invoice Date: 11/14/2023		Invoice Description: WTWSA - 09/25 & 10/23 Prep & Attend, Staff Meeting					
Vendor: 00000EB100 Ebert Engineering Inc.											
VR 00011682	08	FO	020	11/20/2023		11/20/2023	017503	O	1,292.29		1,292.29
Invoice No: 10-23-081				Invoice Date: 11/14/2023		Invoice Description: Sludge Hauling Services					
Vendor: 00000EB100 Ebert Engineering Inc.											
VR 00011683	08	FO	020	11/20/2023		11/20/2023	017503	O	2,800.86		2,800.86
Invoice No: 10-23-086				Invoice Date: 11/14/2023		Invoice Description: FCSTP - Upgrade Tanks					
Vendor No 00000EB100 Totals:									5,015.41	0.00	5,015.41
Vendor No 00000GE102											
Vendor: 00000GE102 Gempler's											
VR 00011590	08	FO	020	11/20/2023		11/20/2023	017504	O	633.90		633.90
Invoice No: INV0004566694				Invoice Date: 10/26/2023		Invoice Description: Uniforms					
Vendor No 00000GE102 Totals:									633.90	0.00	633.90

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Vendor No 00000GE105											
Vendor: 00000GE105 GenServe, Inc.											
VR 00011582	08	FO	020	11/20/2023		11/20/2023	017505	O	625.37		625.37
Invoice No: 0386022-IN				Invoice Date: 10/23/2023		Invoice Description: Hidden Pond West - Generator Repair					
Vendor: 00000GE105 GenServe, Inc.											
VR 00011583	08	FO	020	11/20/2023		11/20/2023	017505	O	442.80		442.80
Invoice No: 0386027-IN				Invoice Date: 10/23/2023		Invoice Description: Windrush - Generator Repair					
Vendor: 00000GE105 GenServe, Inc.											
VR 00011667	08	FO	020	11/20/2023		11/20/2023	017505	O	4,664.68		4,664.68
Invoice No: 0390728-IN				Invoice Date: 11/13/2023		Invoice Description: Hidden Pond East - Generator Deep Sea Controller					
Vendor No 00000GE105 Totals:									5,732.85	0.00	5,732.85
Vendor No 00000GG100											
Vendor: 00000GG100 G & G ELECTRICAL CONSTRUCTION, LLC											
VR 00011591	08	FO	020	11/20/2023		11/20/2023	017506	O	2,236.32		2,236.32
Invoice No: 03847				Invoice Date: 10/09/2023		Invoice Description: Hidden Pond West - Pump Starter					
Vendor: 00000GG100 G & G ELECTRICAL CONSTRUCTION, LLC											
VR 00011592	08	FO	020	11/20/2023		11/20/2023	017506	O	3,674.69		3,674.69
Invoice No: 03848				Invoice Date: 10/09/2023		Invoice Description: FCSTP - Lakeside Unit Repair					
Vendor No 00000GG100 Totals:									5,911.01	0.00	5,911.01
Vendor No 00000HA101											
Vendor: 00000HA101 Hajoca Corporation											
VR 00011692	08	FO	020	11/20/2023		11/20/2023	017507	O	1,476.25		1,476.25
Invoice No: S032359732.001				Invoice Date: 10/30/2023		Invoice Description: Curb Boxes, Misc Items for Public Works					
Vendor No 00000HA101 Totals:									1,476.25	0.00	1,476.25
Vendor No 00000HC100											
Vendor: 00000HC100 Harris Computer Systems											
VR 00011641	08	FO	020	11/20/2023		11/20/2023	017508	O	3,176.63		3,176.63
Invoice No: TBPM00002857				Invoice Date: 10/31/2023		Invoice Description: Quarterly Utility Billing					
Vendor No 00000HC100 Totals:									3,176.63	0.00	3,176.63
Vendor No 00000HO101											
Vendor: 00000HO101 Home Depot Credit Services											

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VR 00011613	08	FO	020	11/20/2023		11/20/2023	017509	O	39.94		39.94
Invoice No: 6032178				Invoice Date: 10/23/2023		Invoice Description: Paper Towels					
Vendor No 00000HO101 Totals:									39.94	0.00	39.94
Vendor No 00000IC100											
Vendor: 00000IC100 Mission Square -304464											
VR 00011579	08	FO	020	10/27/2023		10/27/2023	017487	R	1,268.80		1,268.80
Invoice No: 2023-10-27				Invoice Date: 10/27/2023		Invoice Description: PPE 10/15/23 457 Plan - Employee Contribution					
Vendor: 00000IC100 Mission Square -304464											
VR 00011614	08	FO	020	10/30/2023		10/30/2023	017488	O	1,346.94		1,346.94
Invoice No: 2023-10-30				Invoice Date: 10/30/2023		Invoice Description: PPE 10/29/23 457 Plan - Employee Contribution					
Vendor: 00000IC100 Mission Square -304464											
VR 00011631	08	FO	020	11/07/2023		11/07/2023	017489	O	1,349.04		1,349.04
Invoice No: 2023-11-07				Invoice Date: 11/07/2023		Invoice Description: PPE 11/05/23 457 Plan - Employee Contribution					
Vendor: 00000IC100 Mission Square -304464											
VR 00011669	08	FO	020	11/14/2023		11/14/2023	017491	O	1,355.19		1,355.19
Invoice No: 2023-11-12				Invoice Date: 11/13/2023		Invoice Description: PPE 11/12/23 457 Plan - Employee Contribution					
Vendor No 00000IC100 Totals:									5,319.97	0.00	5,319.97
Vendor No 00000IN250											
Vendor: 00000IN250 Invoice Cloud, Inc											
VR 00011645	08	FO	020	11/20/2023		11/20/2023	E00019	R	597.80		597.80
Invoice No: 3608-2023_10				Invoice Date: 10/31/2023		Invoice Description: Monthly Biller Portal Fee - October					
Vendor No 00000IN250 Totals:									597.80	0.00	597.80
Vendor No 00000JJ100											
Vendor: 00000JJ100 J & J Auto and Truck Repairs											
VR 00011581	08	FO	020	11/20/2023		11/20/2023	017510	O	1,366.43		1,366.43
Invoice No: 202416				Invoice Date: 10/19/2023		Invoice Description: 2021 F250 - Oil Change, Filter, Tires					
Vendor: 00000JJ100 J & J Auto and Truck Repairs											
VR 00011629	08	FO	020	11/20/2023		11/20/2023	017510	O	409.30		409.30
Invoice No: 202597				Invoice Date: 10/30/2023		Invoice Description: 2009 F250 - Lift Gate Removal					

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Trans No	No	Id	Id	Date	No	Date	No	Status	Amount	Taken	Paid
Vendor No 00000JJ100 Totals:									1,775.73	0.00	1,775.73
Vendor No 00000LE100											
Vendor: 00000LE100 Leck Waste Services											
VR 00011622	08	FO	020	11/20/2023		11/20/2023	017511	O	391.25		391.25
Invoice No: 415837				Invoice Date: 11/02/2023		Invoice Description: Monthly Trash Service - 11/02 to 11/29					
Vendor No 00000LE100 Totals:									391.25	0.00	391.25
Vendor No 00000LU100											
Vendor: 00000LU100 LUV Car Wash											
VR 00011690	08	FO	020	11/20/2023		11/20/2023	017512	O	9.00		9.00
Invoice No: 2023-10				Invoice Date: 10/25/2023		Invoice Description: Vehicle Washes					
Vendor No 00000LU100 Totals:									9.00	0.00	9.00
Vendor No 00000MC110											
Vendor: 00000MC110 McMaster-Carr											
VR 00011691	08	FO	020	11/20/2023		11/20/2023	017513	O	188.95		188.95
Invoice No: 17201905				Invoice Date: 11/07/2023		Invoice Description: FCSTP & CCSTP - Sampler Tubing					
Vendor No 00000MC110 Totals:									188.95	0.00	188.95
Vendor No 00000MJ100											
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011584	08	FO	020	11/20/2023		11/20/2023	017515	O	157.00		157.00
Invoice No: 23J1842				Invoice Date: 10/20/2023		Invoice Description: CCWTP - Lab & Testing					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011585	08	FO	020	11/20/2023		11/20/2023	017515	O	115.00		115.00
Invoice No: 23J1843				Invoice Date: 10/20/2023		Invoice Description: FCWTP - Lab & Testing					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011611	08	FO	020	11/20/2023		11/20/2023	017515	O	140.00		140.00
Invoice No: 23J2125				Invoice Date: 10/25/2023		Invoice Description: Water Sampling					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011612	08	FO	020	11/20/2023		11/20/2023	017515	O	20.00		20.00
Invoice No: 23J2488				Invoice Date: 10/27/2023		Invoice Description: Hydrant Testing - Jamison Place					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											

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VR 00011617	08	FO	020	11/20/2023		11/20/2023	017515	O	157.00		157.00
Invoice No: 23J2675				Invoice Date: 10/31/2023		Invoice Description: CCWTP - Lab & Testing					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011618	08	FO	020	11/20/2023		11/20/2023	017515	O	115.00		115.00
Invoice No: 23J2674				Invoice Date: 10/31/2023		Invoice Description: FCWTP - Lab & Testing					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011640	08	FO	020	11/20/2023		11/20/2023	017515	O	157.00		157.00
Invoice No: 23K0353				Invoice Date: 11/03/2023		Invoice Description: CCWTP - Lab & Testing					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011644	08	FO	020	11/20/2023		11/20/2023	017515	O	115.00		115.00
Invoice No: 23K0332				Invoice Date: 11/03/2023		Invoice Description: FCWTP - Lab &Testing					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011663	08	FO	020	11/20/2023		11/20/2023	017515	O	157.00		157.00
Invoice No: 23K0880				Invoice Date: 11/10/2023		Invoice Description: CCWTP - Lab & Testing					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011664	08	FO	020	11/20/2023		11/20/2023	017515	O	178.00		178.00
Invoice No: 23K0870				Invoice Date: 11/10/2023		Invoice Description: FCWTP - Lab & Testing					
Vendor: 00000MJ100 M.J. Reider Associates, Inc.											
VR 00011665	08	FO	020	11/20/2023		11/20/2023	017515	O	160.00		160.00
Invoice No: 23K0854				Invoice Date: 11/10/2023		Invoice Description: Water Sampling					
Vendor No 00000MJ100 Totals:									1,471.00	0.00	1,471.00
Vendor No 00000MS100											
Vendor: 00000MS100 Microsoft											
VR 00011630	08	FO	020	10/26/2023		11/02/2023	E00017	R	2,472.00		2,472.00
Invoice No: E0300OF6DL				Invoice Date: 07/26/2023		Invoice Description: Microsoft 365 - 07/25/23 to 07/24/24					
Vendor No 00000MS100 Totals:									2,472.00	0.00	2,472.00
Vendor No 00000NO100											
Vendor: 00000NO100 NORTHEAST CHEMICAL AND SUPPLY CO., INC.											
VR 00011616	08	FO	020	11/20/2023		11/20/2023	017516	O	4,130.56		4,130.56
Invoice No: 48490				Invoice Date: 10/18/2023		Invoice Description: FCWTP - Soda Ash					

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Vendor No 00000NO100 Totals:									4,130.56	0.00	4,130.56
Vendor No 00000NW100											
Vendor: 00000NW100 North Wales Water Authority											
VR 00011705	08	FO	020	11/20/2023		11/20/2023	017517	O	9,101.17		9,101.17
Invoice No: 7192 2023-10				Invoice Date: 11/02/2023		Invoice Description: Monthly Water Purchase					
Vendor No 00000NW100 Totals:									9,101.17	0.00	9,101.17
Vendor No 00000PA100											
Vendor: 00000PA100 Pennsylvania One Call System Inc.											
VR 00011712	08	FO	020	11/20/2023		11/20/2023	017534	O	74.10		74.10
Invoice No: 0001029296				Invoice Date: 10/31/2023		Invoice Description: Monthly PA One Call					
Vendor No 00000PA100 Totals:									74.10	0.00	74.10
Vendor No 00000PC102											
Vendor: 00000PC102 PC Burbs, Inc.											
VR 00011689	08	FO	020	11/20/2023		11/20/2023	017518	O	480.00		480.00
Invoice No: 1787				Invoice Date: 11/01/2023		Invoice Description: Computer Monitoring & Support					
Vendor No 00000PC102 Totals:									480.00	0.00	480.00
Vendor No 00000PE151											
Vendor: 00000PE151 PECO Energy Company											
VR 00011680	08	FO	020	11/20/2023		11/20/2023	017519	O	13,657.47		13,657.47
Invoice No: 0602 2023-11				Invoice Date: 11/08/2023		Invoice Description: Electric Service - 09/29 to 10/30					
Vendor No 00000PE151 Totals:									13,657.47	0.00	13,657.47
Vendor No 00000PM102											
Vendor: 00000PM102 PMAA U.C. Fund											
VR 00011615	08	FO	020	11/20/2023		11/20/2023	017520	O	270.00		270.00
Invoice No: 2023 - 3rd Quarter				Invoice Date: 11/20/2023		Invoice Description: 2023 - 3rd Quarter UC Tax					
Vendor No 00000PM102 Totals:									270.00	0.00	270.00
Vendor No 00000RU103											
Vendor: 00000RU103 Rudolph Clarke LLC											
VR 00011670	08	FO	020	11/20/2023		11/20/2023	017521	O	100.00		100.00
Invoice No: 13757				Invoice Date: 11/14/2023		Invoice Description: WTWSA - Dark Hallow					

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Vendor: 00000RU103 Rudolph Clarke LLC											
VR 00011671	08	FO	020	11/20/2023		11/20/2023	017521	O	4,000.00		4,000.00
Invoice No: 13758				Invoice Date: 11/14/2023		Invoice Description: General Rep - Staff Meeting, RTK, Misc					
Vendor: 00000RU103 Rudolph Clarke LLC											
VR 00011672	08	FO	020	11/20/2023		11/20/2023	017521	O	4,550.00		4,550.00
Invoice No: 13762				Invoice Date: 11/14/2023		Invoice Description: Open Records					
Vendor: 00000RU103 Rudolph Clarke LLC											
VR 00011673	08	FO	020	11/20/2023		11/20/2023	017521	O	850.00		850.00
Invoice No: 13761				Invoice Date: 11/14/2023		Invoice Description: Navy - PFOS / PFOA					
Vendor No 00000RU103 Totals:									9,500.00	0.00	9,500.00
Vendor No 00000SI102											
Vendor: 00000SI102 Sigma Controls Inc.											
VR 00011610	08	FO	020	11/20/2023		11/20/2023	017522	O	1,042.00		1,042.00
Invoice No: 032315				Invoice Date: 10/24/2023		Invoice Description: CCSTP - EQ Tank Transducer					
Vendor: 00000SI102 Sigma Controls Inc.											
VR 00011632	08	FO	020	11/20/2023		11/20/2023	017522	O	1,128.00		1,128.00
Invoice No: 032342				Invoice Date: 11/02/2023		Invoice Description: CCSTP - Transducer Rebuild (SBR A & Spare)					
Vendor No 00000SI102 Totals:									2,170.00	0.00	2,170.00
Vendor No 00000TH101											
Vendor: 00000TH101 Thompson Networks											
VR 00011666	08	FO	020	11/20/2023		11/20/2023	017523	O	92.34		92.34
Invoice No: 13516				Invoice Date: 11/09/2023		Invoice Description: Wildix Communication System - Monthly License Fee					
Vendor No 00000TH101 Totals:									92.34	0.00	92.34
Vendor No 00000TO105											
Vendor: 00000TO105 Towne Answering Service											
VR 00011649	08	FO	020	11/20/2023		11/20/2023	017524	O	131.80		131.80
Invoice No: 121910302023				Invoice Date: 10/30/2023		Invoice Description: Monthly Answering Service					
Vendor No 00000TO105 Totals:									131.80	0.00	131.80
Vendor No 00000WA100											
Vendor: 00000WA100 Warwick Township											

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VR 00011574	08	FO	020	11/20/2023		11/20/2023	017525	O	4,000.00		4,000.00
Invoice No: 2023-11				Invoice Date: 11/20/2023		Invoice Description: Rent - November					
Vendor No 00000WA100 Totals:									4,000.00	0.00	4,000.00
Vendor No 00000WA112											
Vendor: 00000WA112 Warwick Township											
VR 00011580	08	FO	020	11/20/2023		11/20/2023	017526	O	1,456.25		1,456.25
Invoice No: 1210				Invoice Date: 10/20/2023		Invoice Description: Life Insurance / Gas					
Vendor No 00000WA112 Totals:									1,456.25	0.00	1,456.25
Vendor No 00000WI100											
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011577	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6071586				Invoice Date: 10/17/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011578	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6072127				Invoice Date: 10/17/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011586	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6072045				Invoice Date: 10/17/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011587	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6071326				Invoice Date: 10/17/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011588	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6072533				Invoice Date: 10/17/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011589	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6070799				Invoice Date: 10/17/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011593	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6072784				Invoice Date: 10/18/2023		Invoice Description: CCSTP - Sludge Hauling					

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Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011594	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6074847				Invoice Date: 10/19/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011595	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6075831				Invoice Date: 10/19/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011596	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6075134				Invoice Date: 10/19/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011597	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6074831				Invoice Date: 10/19/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011598	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6075277				Invoice Date: 10/19/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011599	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6081880				Invoice Date: 10/24/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011600	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6082840				Invoice Date: 10/24/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011601	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6083000				Invoice Date: 10/24/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011602	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6082379				Invoice Date: 10/24/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											

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VR 00011603	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6081864				Invoice Date: 10/24/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011604	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6083811				Invoice Date: 10/25/2023		Invoice Description: CCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011605	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6086782				Invoice Date: 10/26/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011606	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6085964				Invoice Date: 10/26/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011607	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6085786				Invoice Date: 10/26/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011608	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6085752				Invoice Date: 10/26/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011609	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6086433				Invoice Date: 10/26/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011623	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6092290				Invoice Date: 10/31/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011624	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6092782				Invoice Date: 10/31/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011625	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6093053				Invoice Date: 10/31/2023		Invoice Description: FCSTP - Sludge Hauling					

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Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011626	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6091813				Invoice Date: 10/31/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011627	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6093271				Invoice Date: 10/31/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011628	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6091790				Invoice Date: 10/31/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011633	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6093863				Invoice Date: 11/01/2023		Invoice Description: CCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011634	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6096972				Invoice Date: 11/02/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011635	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6096415				Invoice Date: 11/02/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011636	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6095703				Invoice Date: 11/02/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011637	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6095845				Invoice Date: 11/02/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011638	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6096767				Invoice Date: 11/02/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											

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VR 00011639	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6096413				Invoice Date: 11/02/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011650	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6102269				Invoice Date: 11/07/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011651	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6102836				Invoice Date: 11/07/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011652	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6102489				Invoice Date: 11/07/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011653	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6101979				Invoice Date: 11/07/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011654	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6103094				Invoice Date: 11/07/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011655	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6101953				Invoice Date: 11/07/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011656	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6104092				Invoice Date: 11/08/2023		Invoice Description: CCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011657	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6106586				Invoice Date: 11/09/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011658	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6107253				Invoice Date: 11/09/2023		Invoice Description: FCSTP - Sludge Hauling					

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Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011659	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6105958				Invoice Date: 11/09/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011660	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6106485				Invoice Date: 11/09/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011661	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6105969				Invoice Date: 11/09/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011662	08	FO	020	11/20/2023		11/20/2023	017531	O	442.80		442.80
Invoice No: 6106864				Invoice Date: 11/09/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011706	08	FO	020	11/20/2023		11/20/2023	017535	O	442.80		442.80
Invoice No: 6112781				Invoice Date: 11/14/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011707	08	FO	020	11/20/2023		11/20/2023	017535	O	442.80		442.80
Invoice No: 6112855				Invoice Date: 11/14/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011708	08	FO	020	11/20/2023		11/20/2023	017535	O	442.80		442.80
Invoice No: 6113225				Invoice Date: 11/14/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011709	08	FO	020	11/20/2023		11/20/2023	017535	O	442.80		442.80
Invoice No: 6113760				Invoice Date: 11/14/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor: 00000WI100 Wind River Environmental LLC											
VR 00011710	08	FO	020	11/20/2023		11/20/2023	017535	O	442.80		442.80
Invoice No: 6113349				Invoice Date: 11/14/2023		Invoice Description: FCSTP - Sludge Hauling					
Vendor No 00000WI100 Totals:									23,911.20	0.00	23,911.20

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Trans Type Trans No	Fund No	Bank Id	Cash Id	Trans Date	Po No	Check Date	Check No	Check Status	Total Amount	Discount Taken	Amount Paid
Report Totals:									179,448.07		179,448.07

EXPENSE CALCULATION

November 20, 2023

Bill Payment List Total		\$179,448.07
Less Capital Expense		(\$22,177.13)
Payroll Estimated at :	\$15,000.00 X 5 weeks	\$75,000.00
Payroll Processing at:	\$150.00 X 5 weeks	\$750.00
TOTAL EXPENSES		<u>\$233,020.94</u>

WARWICK TOWNSHIP WATER & SEWER AUTHORITY

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Time: 12:36:48PM

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Trans Type Trans No	Fund No	Bank Id	Cash Id	Trans Date	Po No	Check Date	Check No	Check Status	Total Amount	Discount Taken	Amount Paid
Vendor No 00000EB100											
Vendor: 00000EB100 Ebert Engineering Inc.											
VR 00011695	08	FE	133	11/20/2023		11/20/2023	011144	O	13,538.51		13,538.51
Invoice No: 10-23-083				Invoice Date: 11/14/2023		Invoice Description: Fetzer Tract					
Vendor: 00000EB100 Ebert Engineering Inc.											
VR 00011697	08	FE	133	11/20/2023		11/20/2023	011144	O	1,942.50		1,942.50
Invoice No: 10-23-084				Invoice Date: 11/14/2023		Invoice Description: 1549 Stony Road					
Vendor: 00000EB100 Ebert Engineering Inc.											
VR 00011699	08	FE	133	11/20/2023		11/20/2023	011144	O	342.50		342.50
Invoice No: 10-23-085				Invoice Date: 11/14/2023		Invoice Description: Gasper Landscaping - WBC Lot # 4					
Vendor: 00000EB100 Ebert Engineering Inc.											
VR 00011701	08	FE	133	11/20/2023		11/20/2023	011144	O	309.75		309.75
Invoice No: 10-23-087				Invoice Date: 11/14/2023		Invoice Description: 1547-1549 Campus Drive					
Vendor: 00000EB100 Ebert Engineering Inc.											
VR 00011703	08	FE	133	11/20/2023		11/20/2023	011144	O	131.75		131.75
Invoice No: 10-23-088				Invoice Date: 11/14/2023		Invoice Description: 1901 Guinea Lane - Stayer					
Vendor No 00000EB100 Totals:									16,265.01	0.00	16,265.01
Vendor No 00000RU103											
Vendor: 00000RU103 Rudolph Clarke LLC											
VR 00010999	08	FE	133	07/24/2023		11/20/2023	011146	O	-95.00		-95.00
Invoice No: 08537				Invoice Date: 06/20/2023		Invoice Description: Fetzer Tract (Rate Correction)					
Vendor: 00000RU103 Rudolph Clarke LLC											
VR 00011001	08	FE	133	07/24/2023		11/20/2023	011146	O	-25.00		-25.00
Invoice No: 08538				Invoice Date: 06/20/2023		Invoice Description: Fetzer Tract (Rate Correction)					
Vendor: 00000RU103 Rudolph Clarke LLC											
VR 00011003	08	FE	133	07/24/2023		11/20/2023	011146	O	-175.00		-175.00
Invoice No: 08536				Invoice Date: 06/20/2023		Invoice Description: Sailor Subdivision (Rate Correction)					
Vendor: 00000RU103 Rudolph Clarke LLC											
VR 00011676	08	FE	133	11/20/2023		11/20/2023	011146	O	2,942.50		2,942.50
Invoice No: 13760				Invoice Date: 11/14/2023		Invoice Description: 1549 Stony Road					

WARWICK TOWNSHIP WATER & SEWER AUTHORITY

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Trans Type Trans No	Fund No	Bank Id	Cash Id	Trans Date	Po No	Check Date	Check No	Check Status	Total Amount	Discount Taken	Amount Paid
Vendor No 00000RU103 Totals:									2,647.50	0.00	2,647.50
Vendor No 00000WA200											
Vendor: 00000WA200 Warwick Twp Water & Sewer Authority											
VR 00011000	08	FE	133	07/24/2023		11/20/2023	011147	O	-9.50		-9.50
Invoice No: 08537				Invoice Date: 06/20/2023		Invoice Description: Fetzer Tract - Admin Fee (Rate Correction)					
Vendor: 00000WA200 Warwick Twp Water & Sewer Authority											
VR 00011002	08	FE	133	07/24/2023		11/20/2023	011147	O	-2.50		-2.50
Invoice No: 08538				Invoice Date: 06/20/2023		Invoice Description: Fetzer Tract - Admin Fee (Rate Correction)					
Vendor: 00000WA200 Warwick Twp Water & Sewer Authority											
VR 00011004	08	FE	133	07/24/2023		11/20/2023	011147	O	-17.50		-17.50
Invoice No: 08536				Invoice Date: 06/20/2023		Invoice Description: Sailor Subdivision - Admin Fee (Rate Correction)					
Vendor: 00000WA200 Warwick Twp Water & Sewer Authority											
VR 00011677	08	FE	133	11/20/2023		11/20/2023	011147	O	294.25		294.25
Invoice No: 13760				Invoice Date: 11/14/2023		Invoice Description: 1549 Stony Road - Admin Fee					
Vendor: 00000WA200 Warwick Twp Water & Sewer Authority											
VR 00011696	08	FE	133	11/20/2023		11/20/2023	011145	O	1,353.85		1,353.85
Invoice No: 10-23-083				Invoice Date: 11/14/2023		Invoice Description: Fetzer Tract - Admin Fee					
Vendor: 00000WA200 Warwick Twp Water & Sewer Authority											
VR 00011698	08	FE	133	11/20/2023		11/20/2023	011145	O	194.25		194.25
Invoice No: 10-23-084				Invoice Date: 11/14/2023		Invoice Description: 1549 Stony Road - Admin Fee					
Vendor: 00000WA200 Warwick Twp Water & Sewer Authority											
VR 00011700	08	FE	133	11/20/2023		11/20/2023	011145	O	34.25		34.25
Invoice No: 10-23-085				Invoice Date: 11/14/2023		Invoice Description: Gasper Landscaping - WBC Lot # 4 Admin Fee					
Vendor: 00000WA200 Warwick Twp Water & Sewer Authority											
VR 00011702	08	FE	133	11/20/2023		11/20/2023	011145	O	30.98		30.98
Invoice No: 10-23-087				Invoice Date: 11/14/2023		Invoice Description: 1547-1549 Campus Drive - Admin Fee					
Vendor: 00000WA200 Warwick Twp Water & Sewer Authority											
VR 00011704	08	FE	133	11/20/2023		11/20/2023	011145	O	13.18		13.18
Invoice No: 10-23-088				Invoice Date: 11/14/2023		Invoice Description: 1901 Guinea Lane - Stayer Admin Fee					

WARWICK TOWNSHIP WATER & SEWER AUTHORITY

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Trans Type Trans No	Fund No	Bank Id	Cash Id	Trans Date	Po No	Check Date	Check No	Check Status	Total Amount	Discount Taken	Amount Paid
Vendor No 00000WA200 Totals:									1,891.26	0.00	1,891.26
Report Totals:									20,803.77		20,803.77

WARWICK TOWNSHIP WATER & SEWER AUTHORITY
 ESCROW RELEASES (Pending) - PSA INVOICES - BILL DEVELOPER INVOICES
 August 28, 2023

DEVELOPMENT	INVOICE #	INVOICE DATE		WTW&SA	
				AMOUNT	ADMIN FEE
Warwick Village Commons - Tractor Supply	10-23-082	11/14/23	Ebert Engineering, Inc	206.50	20.65
1547-1549 Campus Drive	13759	11/14/23	Rudolph Clark, LLC	4,995.00	499.50
Subtotal				<u>\$ 5,201.50</u>	<u>\$ 520.15</u>
TOTAL				\$	5,721.65

- * TD Escrow Savings - When fund is replenished, this invoice will be paid.
 ** Escrow Release - When the Authority receives money, this invoice will be paid.
 *** Bill Developer - When the Authority receives money for this invoice, it will be paid.

DEVELOPMENTS – 11/15/2023

1. SAILOR PROPERTY SUBDIVISION

- On 10/21/15, this office reviewed the application filed by Developer with the Authority.
- On 1/27/16, this office reviewed Ebert Engineer's review letter.
- On 4/8/15, the Authority advised Developer that upon receipt of the required items, this office will be able to proceed with the preparation of a Contract for Professional Services.
- On 4/22/15, this office prepared a Development Agreement with Warwick Commons Lot Owners Association regarding their construction along Stout Drive of a two (2") inch sanitary sewer line within the right-of-way of eight properties owned by the Association members, to allow access to public sanitary sewer facilities. The motion was approved at the 4/27/15 meeting.
- On 6/10/15, this office forwarded the Development Agreement to Attorney Benstead for review.
- The Authority has received requested modifications to the Development Agreement, which are being reviewed by this office.
- As of this date, the Authority and Authority's Engineer are working with Developer to finalize details of the project to finalize the Development Agreement.
- On 8/7/15, the Authority received the executed Development Agreements. Since the Agreement was previously approved at the 4/27/15 meeting, no formal Board action is needed.
- On 9/3/15, this office forwarded the Development Agreement to the Bucks County Recorder of Deeds Office for recording, which was returned as there was a tax map parcel number included in the Development Agreement that was deleted and combined with an existing tax map parcel not contained in the Agreement.
- On 9/16/15, the Amended Development Agreement was sent to the Authority for forwarding to the Developer for execution. The motion was approved at the 9/28/2015 meeting.
- On 9/30/2015, this office recorded the Development Agreement with the Bucks County Recorder of Deeds Office.
- On 10/13/2015, this office forwarded the originally recorded Development Agreement to the Authority.
- Upon receipt of the approved legal descriptions, this office will prepare the necessary dedication documents.
- On or about January 15, 2019, this office was advised that the developer desires to proceed with the construction of six (6) new homes. A developer's agreement has been prepared awaiting additional information.

DEVELOPMENTS – 11/15/2023– (CONTINUED)

- On February 21, 2019, this office received correspondence from Ebert Engineering providing the construction cost estimate and other information which will permit this office to prepare a Developer's Agreement. Such Agreement will be prepared within the next week.
- This office is awaiting financial information from Ebert Engineering and terms from the Developer regarding its easement upon the Authority property related to the Walking Trail.
- Received financial information from Ebert Engineering. Awaiting easement and cost information from the Developer regarding the Walking Trail.
- No further events have occurred since the previous report. Further additional information will be provided at the Board Meeting, if such information occurs.
- As of this date, the Authority and this office awaits requested communications and information from the Developer (Costa).
- This office has received sufficient information and documentation to complete the water and sewer improvement agreement along with the appropriate easements. These easements include a water and sewer easement over the development property and an easement to the development Homeowners Association to construct and maintain a walking path along the front portion of the Authority's property, which is contiguous to the development. We will await the appropriate responses from the developer regarding execution of documents, payment of funds and presentation of other requirements set forth in the agreement.
- Since the previous entry, it was determined that the Developer failed to provide to the Authority engineer the latest revised plans, which were approved by the Township. Accordingly, this office awaits applicable revision review by the Authority engineer regarding the modifications of the Project.
- The Authority has received the executed Development Agreements and Easements. We are still awaiting all payments for tapping fees, escrows and necessary documents to proceed.
- This office has received executed Improvements Agreements, but is awaiting payment as required under the Agreement along with other documentations as may be necessary.
- As of this date, no further activity has been indicated. Attorney has been advised that no further action will occur until payments and appropriate documents are received.
- As of this date, the Authority has received all payments and Agreements from the Developer.
- Based upon additional information provided, an amended Deed of Dedication was recorded in the office of the Recorder of Deeds related to the Authority's public water and sanitary sewer facilities to be constructed to serve this Project.

DEVELOPMENTS – 11/15/2023– (CONTINUED)

2. STOUT DRIVE

- It is anticipated that PDC Machine, Inc. located at 1707 Stout Drive will be seeking an eight (8) inch public water line connection from the Authority's existing gate valve located adjacent to Stout Drive. This office awaits information necessary to provide an improvement agreement for execution and approval by the parties.

3. KAMPUS KLOTHES

- This project requires water and sewer connection along Campus Drive into the property which proposes construction of a 42,000 square foot warehouse building. This office has received sufficient information and documentation and has completed the Development Agreement, which has been submitted to the Developer. We await a response.

- As of this date, the Authority has received the Development Agreement from the Developer. This office awaits receipt for recording.

- This office has been advised that the Project is currently delayed due to current steel prices. It is noted that the Developer's Agreement has been sent to the property owner.

4. PUCCI TRACT

- This project requires water and sewer connection along Campus Drive known as Pucci Tract. The developer proposes to construct a 15,480 square foot flex/office building. We will submit the Development Agreement (which has been substantially completed) once a final review has occurred by the Authority engineer.

- This project requires water and sewer connection along Campus Drive into the property which proposes construction of a 15,480 square foot flex/office building. This office has received sufficient information and documentation and has completed the Development Agreement, which has been submitted to the developer. We await a response.

- The Authority has not received any communication from the Developer regarding the execution of the Development Agreement.

- As of this date, no further action has occurred.

DEVELOPMENTS – 11/15/2023– (CONTINUED)

5. 1549 STONY ROAD

- This office has received preliminary information regarding 1549 Stony Road, which is proposing construction of 13 new homes, connection of 10 adjoining lots to the public water and sanitary sewer system and the construction of a new sanitary sewer pump station and appurtenances. The project is

located in the Hidden Pond East Pump Station service area. We will await further necessary information to provide a Development Agreement for execution and approval by the parties.

- This office has reviewed the latest plans submitted by the developer.

- As of this date, final plans are to be provided prior to preparation of the appropriate developer's agenda.

- This office awaits the final review by Ebert Engineering of the pump station design submitted by Developer. Thereafter, it is anticipated that the Developer's Agreement and related documents will be prepared by this office and submitted to the Developer.

6. WARWICK BUSINESS CAMPUS - SPRING DANCE HOT TUB

- This project requires water and sewer connection along Campus Drive into the property which proposes construction of a 17,174 square foot warehouse building. We await further information from the developer.

- This project requires water and sewer connection along Campus Drive into the property which proposes construction of a 17,174 square foot warehouse building. This office has received sufficient information and documentation and has completed the Development Agreement, which has been submitted to the Developer. We await a response.

7. GASPER LANDSCAPING

- This office has reviewed initial documentation provided by the developer.

- As of this date, the Authority has received the Water Easement from the Developer. This office awaits receipt for recording.

8. 1547-1549 CAMPUS DRIVE

- The Developer, 1547-49 Campus Drive, LLC, has executed the Development Agreement to provide public water and sanitary sewer to 1547 and 1549 Campus Drive. It has provided the required compensation and documents pursuant to the terms of the Agreement.

RESOLUTION NO. 2023-12

**RESOLUTION OF THE WARWICK TOWNSHIP WATER AND SEWER AUTHORITY
BOARD TO ENTER INTO A DEVELOPMENT AGREEMENT WITH
1547-49 CAMPUS DRIVE**

BE IT RESOLVED, that the Warwick Township Water and Sewer Authority (“Authority”) hereby approves the Development Agreement for 1547-49 Campus Drive and that the appropriate officers of the Authority are authorized and directed to execute the Agreement on behalf of the Authority.

IN WITNESS THEREOF, I affix my hand and attach the seal of the Warwick Township Water and Sewer Authority this 20th day of November, 2023.

Warwick Township Water and Sewer Authority

Kevin McGowan, Secretary

**WARWICK TOWNSHIP WATER AND SEWER AUTHORITY
ENGINEER'S REPORT – NOVEMBER 16, 2023**

I. AUTHORITY BUSINESS

A. STOUT DRIVE WATER AND SEWER PROJECT (EE, Inc No. 050-004)

The Construction is now complete on this project and the property owners can begin to connect once they have purchased their respective edus from the Authority.

B. GERMINAL COLONY SERVICE AREA (EE, Inc. No. 050-015)

The Warwick Township Board of Supervisors has decided to update their Act 537 Plan. This will provide the Authority with updated information for our long-term planning.

The Warwick Township Board of Supervisors is reviewing the current sanitary sewer service areas and will provide EE, Inc. with input on any changes that they would like to incorporate and also provide feedback on servicing the Germinal Colony area.

2/21/20

The PA DEP has indicated that the Germinal Colony area needs to be placed on a monitoring program where it is evaluated every six years. The PA DEP has requested that a conceptual low pressure layout be included in the Act 537 Plan. The PA DEP has also requested that the Act 537 Plan include a trigger point that will require that public sanitary sewer service be extended to this area. The approval will allow for individuals to extend sanitary sewers into this area like has been done with the Stout Drive area without any additional PA DEP Sewage Facilities Planning.

8/20/21

The PA DEP approved the Act 537 Plan by letter dated August 11, 2021. The approval of the Act 537 Plan includes the planning approval for the installation of a low pressure sanitary sewer system to service the Germinal Colony area.

2/25/22

EE, Inc. is applying for a Local Shares Grant for the construction of the low pressure sanitary sewer system to service this area. The Local Shares Grant requires that the project be for the community good. The Act 537 Plan approval requires that the Authority apply for grants for the construction of this system and report on any grants applied for as part of the Act 537 Plan approval.

5/19/22

The DCED has started their review of the grant application. EE, Inc. received on minor request for additional information which was immediately answered. It is our understanding that the earliest that the grants will be awarded will be in

EE, Inc.

November. There was a tremendous number of applications that were received and need to be reviewed.

3/24/23

The LSA Grants were awarded. The Authority did not receive a grant. This was expected as the Authority has voiced its preference for the H2O Grant program for the Fish Creek WWTP Upgrade.

C. FISH CREEK WWTP UPGRADE (EE, Inc. 050-041)

12/17/21

EE, Inc. will be working with the Authority on the replacement of the existing valves and the structural analysis of the existing SBRs 1 and 2. The goal is to be able to take the tanks down individually in order to replace the existing isolation valves in the pump gallery, clean out the accumulated grit in the bottom of the tanks and potentially replace the fiberglass aeration and sludge distribution and collection manifold. This will be tracked under a separate item in future Engineer's Reports.

This work will start in early 2022 so that the work can be completed for a full evaluation of options on how to address the structural issues with the existing tanks.

2/25/22

EE, Inc. met with the Authority staff to discuss the options for the Upgrade to the Fish Creek WWTP. The Executive Director is reaching out to the structural consultant to identify the next steps in the structural evaluation of the existing tanks. EE, Inc. is reaching out to a WWTP vendor (Aqua Aerobics Systems) to discuss and get budgetary pricing on replacement equipment to allow for better long term operate and maintenance of the WWTP.

4/21/22

EE, Inc. is working on two analyses. The first is to identify to evaluate what flows can be diverted from the Fish Creek WWTP service area to the Country Crossing WWTP service area. This will allow for the analysis of any changes in the capacity of the Fish Creek WWTP to identified. This will also include the costs for the required conveyance lines. The second will be an analysis to determine the feasibility and costs to convey all of the flows to the County Crossing WWTP and be able to have one WWTP on a larger parcel. This will minimize the long term expenses of operating two WWTPs. It will also allow for a single sludge processing facility as well as room for additional upgrade to meet future regulatory changes.

In the meantime, EE, Inc. and the Authority will be meeting with Aqua Aerobics Systems to discuss options to upgrade the treatment equipment and to identify the size of the tanks required for their treatment process.

EE, Inc. and the executive Director also had a conversation with a structural engineer from HRG and will be continuing discussions with them on their capabilities to assist the Authority.

5/19/22

EE, Inc. has created a plan identifying the potential route to convey all of the flows to the County Crossing WWTP. EE, Inc. is now working on a preliminary cost estimate as well as a hydraulic model to determine the feasibility of phasing out the Fish Creek WWTP.

The Authority is also working on the replacement of the existing UV Disinfection equipment with newer technology by Trojan Manufacturing.

EE, Inc. is also working with the Authority on the review of new technology to enhance the operation of the SBRs to increase the capacity and settling ability of the wastewater.

6/23/22

EE, Inc. will review the conceptual design and preliminary cost estimate of the diversion of the wastewater flows from the Fish Creek WWTP to the Country Crossing WWTP. It does not appear that this is economically feasible as the overall cost is approximately \$18,000,000.00 and the costs could increase depending on the type of sludge processing facility that would be included. EE, Inc. and the Authority staff are still evaluating the merits of diverting either or both the Meeting House Road Pump Station and the Ridings Pump station to the Country Crossing WWTP as part of the Germinal Colony sanitary sewer extension project. The diversion of either of these two pump stations will require the upgrade of the Creek Road Pump Station. There are also concerns about the ability of the controls of the Country Crossing WWTP to handle the storm flows from these two pump stations.

The focus is now on the feasibility and estimated costs to replace the tanks at the Fish Creek WWTP. The Authority will be considering a proposal from a structural engineer to perform the analysis and design of the best option to replace the existing tanks at the Fish Creek WWTP. The current concept is to be able to construct new interior walls inside of the existing tanks. This will reduce the usable volume which may impact the capacity of the WWTP. The existing WWTP while permitted at 850,000 gpd has a 1,200,000 gpd design capacity.

The upgrade of the Fish Creek WWTP will also evaluate the ability to convert one of the existing steel tanks back to a influent equalization tank after the upgrade of

the two SBRs. The feasibility study will also look at options to provide a sludge dewatering facility so that the long term operating costs of the sludge removal can be reduced. It is anticipated that hauling costs of liquid sludge will increase with the increase in fuel costs. The ability to dewater the sludge will significantly decrease the cost of hauling away the sludge.

7/21/22

The structural engineer will be performing the physical inspection of the existing tanks on August 2 and 3, 2022. The Authority will have the water level in the first tank lowered for their inspection the first day. Once the inspection is completed then the wastewater from the second tank will be transferred to the first SBR Tank so then can inspect the second tank the next day. While the tanks are lowered, we will have the interior of the tanks videoed to document the condition. The Authority will also have the sides of the tanks pressure washed. The purpose of the inspection is for the structural engineers to inspect the condition of the tanks to determine if there is any additional structural damage and to determine the condition of the concrete. The initial thoughts are to utilize the existing tanks as forms and pour new tanks inside of the existing tanks.

EE, Inc. and the Authority operations staff meet with representatives of Aqua Aerobics Systems at the WWTP on July 14, 2022 to perform a site visit of the Fish Creek WWTP. Aqua Aerobic Systems is performing preliminary process calculations based upon new tank walls with a thickness of two feet. The goal is to identify what treatment capacity will be available with the smaller tanks. The original design of the WWTP was for 1.2 MGD but the WWTP was rated at 0.85 MGD. Aqua Aerobic Systems will also be providing a preliminary budget estimate for the treatment equipment based upon the preliminary process calculations. This will enable an overall construction cost estimate to be developed.

EE, Inc. and Aqua Aerobic Systems will also be arranging a site visit to the two Aqua Aerobic Systems SBR WWTPs in East Brandywine Township and New Morgan Borough for the operations staff to see the SBR equipment in operation.

8/17/22

EE, Inc. and operations staff did a site visit of Applecross WWTP in East Brandywine Township to see the Aqua Aerobics SBR Equipment in operation on August 9.

EE, Inc. prepared a preliminary project timeline for the design, permitting and construction of the Fish Creek WWTP Upgrade. The proposed timeline has construction starting in May 2024 and wrapping up in August 2025. EE, Inc. anticipates that it will take about 6 months to retrofit each concrete tank.

Aqua Aerobics provided their initial process calculations for EE, Inc. and Authority Staff to review. There were a couple things that EE, Inc. asked for clarification on. The cost of the equipment from the based on the process calculations is estimated to be \$885,080 per Aqua Aerobics.

Ebert Engineering and the WTWSA met with WJE for the phase one analysis of the SBR tanks. Observations and measurements were taken on the partially drained tanks as well as the outside of the tanks. WJE will submit their preliminary report by the end of August.

9/21/22

EE, Inc has received the initial process design calculations from Aqua Aerobics Systems, Inc. These process design calculations will be refined based upon the design of the structural upgrades to the tanks.

WJE has provided their initial design report that will become the basis of the structural design of the upgrades to the existing tanks. The design recommends the installation of a waterproof liner and a eighteen inch concrete liner wall for the bottom one third of the tank and a six inch liner for the top two thirds of the tank. There is also a significant top support that will be included in the design.

The CFA has announced that the H2O grant program will open on October 1, 2022. The upgrades to the Fish Creek WWTP will be an excellent application for this grant program. EE, Inc. will discuss this grant program at the meeting.

10/21/22

EE, Inc. is working on updating the construction cost estimate for the grant application. The Authority will be applying for an H2O grant for the Upgrade to the Fish Creek WWTP.

EE, Inc. is working on the temporary control scenario to allow for the WWTP to utilize the new Aqua Aerobic Systems controls for the existing jet Tech SBR during the improvements to the second SBR tank.

EE, Inc. will be updating the design and construction schedule once we have completed the scope of improvements to the existing control building as well as how we will incorporate influent equalization and potentially post equalization into the final design. The construction will most likely need to span at least two construction seasons due to the amount of time required to have the existing tank rehabilitated and the new treatment equipment started up. The key will be the timing for equipment delivery compared to the timing for the curing of the new concrete and installation of the liner.

11/17/22

The current cost estimate is \$9,844,138.00. This is composed of a construction cost of \$8,560,120.00, design cost of \$428,006.00 (5%), Inspection cost of \$428,006.00 (5%) and a five percent contingency of \$428,006.00. This cost estimate is a conservative cost estimate that will be utilized for the grant application. The cost estimate will be refined as we proceed through the design process where we can better identify the construction costs as well as the cost of materials.

EE, Inc. is requesting that the Authority pass a Resolution authorizing the submission of the H2O Grant to the Commonwealth Financing Authority. The Resolution will contain the above referenced construction cost estimate. EE, Inc. is requesting authorization to amend the cost estimate prior to the submission of the grant with the Board's acknowledgement. The grants are due by December 21, 2022.

EE, Inc. and the Authority met with Eastern Environmental Contractors, Inc. to discuss some piping modifications that will allow for the isolation of existing leaking valves and the contractors to better isolate the flows to each SBR for the Upgrade to the WWTP. The contractor is currently working on a cost estimate to perform this work.

EE, Inc. and the Authority met with the process engineer for Aqua Aerobics twice during the past month. During these meetings we were able to confirm the process calculations and method of control of the SBRs during the construction. The control of the SBRs will be by the new Aqua Aerobic System controller. The controller will be programmed to control the SBRs during construction and then modified for the final control. The process calculations are based upon only utilizing SBR 3A and one of the two existing SBRs during construction with an equal volume in each tank. The control will include a storm mode to process up to 1.7 MGD without having to modify the number of cycles per day.

12/14/22

EE, Inc. will be making the grant application on December 20, 2022 ahead of the dealing on December 21, 2022.

EE, Inc. is coordinating with Aqua Aerobic System on the final loading rates for the process calculations. This will then allow Aqua Aerobic Systems to finalize the equipment selection. Once the equipment selection is finalized, EE, Inc. will work with Aqua Aerobic Systems on the location of pipe penetrations and location of the equipment inside of the tank. This will allow EE, Inc. to finalize the type and location of the crane.

The next step will be to coordinate the pipe penetrations, equipment locations and loading requirements for the crane with the structural engineer. As soon as we receive the information, we will coordinate a meeting with the structural engineer.

EE, Inc. will also be incorporating the piping modifications that are being proposed by Eastern Environmental Contractors into the system. Eastern Environmental Contractors is scheduled to complete their Co-Stars proposal on December 19, 2022 and provide a final drawing of the proposed piping modifications.

The Authority had a contractor provide a profile of the level of the existing grit in the two SBR tanks. EE, Inc. is now analyzing the profile to calculate the amount of grit in the tanks.

1/19/23

EE, Inc. and Aqua Aerobic Systems have finalized the process calculations and are working on finalizing all of the equipment selection. The next step will be to identify and coordinate the pipe penetrations and equipment locations with the structural engineer. This will also include the means for maintaining and removing all of the equipment.

The Authority has received 70% design drawings from the structural engineer. These drawings are being utilized as the base drawings for the mechanical design to avoid any conflicts with dimensions and the location of equipment and structural components. These drawings were provided to Aqua Aerobic Systems for their use in locating all of the proposed treatment equipment.

The schedule is for Aqua Aerobic Systems to provide all of the final equipment selections to EE, Inc. by January 27, 2023 and Aqua Aerobic Systems has confirmed that they are schedule for that deliverable. This will allow EE, Inc. to complete the PA DEP permit applications during the month of February for submission to the PA DEP in March. EE, Inc. will review the overall schedule with the Authority at the meeting.

EE, Inc. and the Authority have continued to follow up with Eastern Environmental Contractors on the SBR feed piping modifications. The objective of this work is to allow for the isolation of existing valves that do not seal so that the SBRs can be taken offline as part of the upgrade and to perform any necessary maintenance on the pumps prior to the upgrade. The contractor has represented that the proposal and any changes to the piping modifications proposed by EE, Inc. will be submitted to the Authority by January 23, 2023.

2/24/23

EE, Inc. has received the Aqua Aerobic Systems, Inc. final equipment information and is currently coordinating the pipe penetrations and locations of all of the

equipment inside of the tanks. EE, Inc. is working on the preparation of the PA DEP Water Quality Management permit application.

The Authority has received the Eastern Environmental Contractors proposal for the installation of the SBR feed piping and valving modifications. This work is required to be able to isolate each of the SBRs for the future work as well as to allow for the maintenance of the existing pumps and valves. It is noted that the existing valves no longer seal and the pumps cannot be properly maintained until the valves are replaced. This project will include isolation valves in front of the proposed motorized valves so that the valves can be replaced in the future.

The Authority will also consider a proposal from Worth & Company for the rehabilitation of the roof and exterior of the existing control building. The work is required on this building due to the existing materials reaching the end of their useful life. The ability to complete this work now will help with the timing and coordination of the work associated with the upgrade to the tanks and treatment equipment.

3/24/23

The Authority had a coordination call with WJE on the remaining items for the structural design. The majority of the pipe penetrations were coordinated. The majority of the call revolved around the design of the crane and trolley system to remove the equipment from the tank without the need to bring in an outside. The design will utilize a I-Beam system that will span the entire tank. There will be one for each tank. EE, Inc. is now working on the sludge management system.

EE, Inc. is coordinating with Eastern Environmental Contractors on the locations of the influent pipe penetrations as well as the necessary shop drawings. The final design of all piping and valves will be included in the detailed drawings. The PA DEP Water Quality management permit will not be submitted until later in April so that all of the components will be in their final location.

EE, Inc. responded to requests for additional information on the H2O grant application. It appears that the grants may be awarded at the July 2023 CFA meeting. EE, Inc. will provide a one page summary of the grant for the board members to reach out to the local politicians to gain support for the grant.

4/21/23

EE, Inc. has prepared a one page summary of the talking points for obtaining grant support from the local politicians. EE, Inc. will provide hard copies of this one page summary to the Board at the meeting and also email a pdf to all board members so that they can also attach it to any email to the local politicians.

EE, Inc. has completed the design of the crane and support system and is providing it to WJE.

EE, Inc. is working on the Design Engineer's Report and finalizing the Water Quality Management permit application for submission to the PA DEP. The design plans are currently being reviewed by Aqua Aerobic Systems, Inc. and their review comments will be incorporated into the design plans.

5/19/23

EE, Inc. has followed up with Eastern Environmental Contractors on the status of the shop drawings as well as an update to their construction schedule.

EE, Inc. had a very productive call with the PA DEP on the permit application. There are some changes that the PA DEP want to make to help consolidate all of the existing permits. This is causing a slight delay in the submission but will help the PA DEP in their review of the application.

EE, Inc. is working on a update to the overall schedule and will be reviewing this with the Authority at the meeting.

6/23/23

EE, Inc. has completed the PA DEP Water Quality Management Permit applications. They will be submitted electronically to the PA DEP during the week of June 26, 2023. The permit applications have already discussed with the PA DEP. We will follow up with the PA DEP on their anticipated review time after they are submitted. The PA DEP has recently lost some permit reviewers and their reviews are now taking longer.

EE, Inc. is currently coordinating with Keystone Engineering, Inc. on the electrical design. EE, Inc. now that the permit application has been completed with now concentrate on the detailed mechanical design. This is where we will need to coordinate with the operations staff on the location of all equipment and controls as well as work on the detailed sequence of construction.

The H2O grant awards have been delayed until the September 19, 2023 CFA meeting. We have also recently heard that all of the available monies will be distributed during this round and that subsequent rounds have not been funded. This was a result of a combination of the demand as well as requirements from the Federal Government to either utilize the monies or return them. We have not had this confirmed yet nor have we heard if they increased the amount of money allocated to the H2O program for this round above the previously discussed 200 million dollars.

7/21/23

The Board requested that we evaluate the immediate need for the WWTP Upgrade and if the project could be delayed or phased over time if we are not successful in obtaining a grant. EE, Inc. is working with the Authority on this

issue. The main concern is that due to the isolation valves to the recirculation pump and motorized valves not being able to seal it is very hard to work on either the recirculation pump or the motorized valves. If the isolation valve can be replaced then the Authority could delay doing the entire upgrade at this time.

There are two main options to be able to replace the isolation valves between the pump gallery and the SBR Tanks. The first and safest option is to take the entire tank down and replace the valves. This would have to be done as part of the construction project. The main purpose of the last upgrade to the WWTP was to provide this ability through the creation of SBRs 3A and 3B. The other option would be to freeze the piping between the SBR and pump building. This has some concerns about the danger of the freezing not working and the entire tank draining out into the building and then into the stream. This risk can be minimized by partially draining the tank and/or sending in a diver to also install a mechanical plug in the line.

The other concerns about delaying the upgrade are as follows:

- The fiberglass aeration header is at the end of its life and is not transferring oxygen as designed. It is, however, still working and we are meeting our permit.
- There is an accumulation of grit in the SBRs that will need to be removed at some point to avoid continued damage to the aeration header and the valves in the pump gallery. The amount of grit was previously identified and was not as bad as anticipated. It is the grit being pumped by the recirculation pump that is wearing out the seat on the valves and the aeration header.
- The controls for the SBR are getting to the end of their design life and were not previously upgraded. We have two interconnected control systems of different ages. The PLC still works without issue but it is reaching the end of its design life.
- The replacement valves will start to wear again and over time the valves will not properly seat and will start to leak.

While we have not yet completed the evaluation of options there do appear to be options to delay the upgrade of the WWTP. It will cost money to perform the interim steps that will enable us to delay the upgrade but it may be less than the interest expenses of doing the full upgrade now. EE, Inc. will explain in greater detail at the Authority meeting.

EE, Inc and the executive director had a virtual meeting with Penn Vest to understand their approval process and timelines for submission as well as the requirements for a Penn Vest loan. The current interest rate is 1.743% for the first five years and then 2.179% for years six through twenty. There is also the ability to be interest only for the first three years. The permits need to be in hand in

order to have Penn Vest approve the loan application. The loan applications are accepted four times a year.

8/25/23

EE, Inc. and our electrical engineer have placed the design on hold. EE, Inc. will continue to follow up with the PA DEP on the Water Quality Management (Part II).

The next step will be the design of the replacement for the existing valves in the pump room between the two tanks. This will allow for the existing pumps to be replaced and will provide isolation valves for the future maintenance of the motorized valves.

The contract with Eastern Environmental Contractors for the new influent piping system was canceled and the manager is working on the resolution of that contract.

The H2O Grant award date has not been confirmed but the next meeting of the Commonwealth Financing Authority is on September 19, 2023.

9/21/23

The CFA postponed the award of the H2O Grants from September 19, 2023 to November 21, 2023.

The PA DEP is still reviewing the Water Quality Management (Part II) permit application.

10/20/23

EE, Inc. is meeting with the Authority on October 24, 2023 to discuss the scope of work for the upgrades to the piping and valves to isolate each SBR and replacement of the existing equipment.

11/16/23

In order to coordinate the overall construction schedule with the weather windows to take down the tanks and perform the work during the summer of 2024, the Authority should consider authorizing the purchase of the long lead items utilizing the Co-Stars program at the November 2023 meeting. This would allow for the equipment to be manufactured and delivered in time for the installation during the lower flow period during the summer. It is noted that some of the items have twenty week long lead time.

EE, Inc. has requested the formal Co-Stars proposal from Riordan Materials for the purchase of the two Motive Pumps and the two replacement Jet Aeration and Influent Distribution and Sludge Collection headers. The equipment would be purchased by the Authority but installed by a

contractor as part of the public bidding process. This is how the last upgrade was performed and it worked successfully. The goal is to have the equipment supply timeline started now and not have to wait for the award of the public bids. This will allow the Authority to meet the overall construction schedule.

EE, Inc. met with the Authority's operation staff and reviewed the design plans and received their input on the design plans and is now working on the detailed design as well as bid documents. EE, Inc. would like to have Authorization to bid the publicly bid the installation of the equipment which will also include the necessary piping and cleaning of the tanks. EE, Inc. will provide the Authority with an overall construction schedule at the board meeting. The goal is to order the equipment in November and then publicly bid the construction in either late December or early January for award at the February 2024 Authority meeting. This will allow for the equipment to be delivered in May for installation during the summer of 2024.

D. 2022 CHAPTER 94 REPORTS

The Chapter 94 reports will be reviewed at the February 2022 Authority meeting and authorization was provided to submit to the PA DEP prior to the March 31, 2023 deadline.

The following is the summary from last year for each WWTP:

Fish Creek WWTP

Year	Annual Average Flow (gpd)	Max Three Month Flow (gpd)
2018	738,000	853,000
2019	692,000	821,000
2020	637,000	720,000
2021	627,000	791,000
2022	619,000	745,000

Country Crossing WWTP

Year	Actual Annual Average (gpd)	Max Three Month Flow (gpd)
2018	156,000	163,000
2019	141,000	146,000

2020	154,000	165,000
2021	156,000	173,000
2022	151,000	164,000

E. ACT 537 PLAN

The PA DEP approved the Warwick Township Act 537 Plan by letter dated August 11, 2021.

The approval of the Act 537 Plan provided the following six approvals:

1. The expansion of the Fish Creek and Country Crossing WWTPs Service Areas as shown on the current public sanitary sewer service plan.
2. The planning approval for the increase in capacity of the Fish Creek WWTP from 850,000 gpd to 879,000 gpd. It is noted that we would need to amend the NPDES and WQM permits in order to increase the permitted capacity as this is planning approval only.
3. Planning approval for a low pressure sanitary sewer collection system to service the 23 properties in the Valley Road area.
4. Planning approval for a low pressure sanitary sewer collection system to service the 65 properties in the Germinal Colony area.
5. Commitment by the Township to provide an annual update on the grant application progress as part of the annual Chapter 94 Report.
6. Commitment by the Township to provide data and results of the upcoming 2022 and 2023 sewage management cycle for the Valley Road Study Area and Germinal Colony Study Area.

F. Mountain View Pump Station (aka Luginbuhl Pump Station)

The Authority had a break in the existing force main from the pump station. The force main break was immediately reported to the PA DEP and the spill was cleaned up and the repair completed to the force main. The issue is that the section of the force main that was broken was constructed using SDR35 PVC. This type of pipe is normally only utilized for gravity sanitary sewers and not force mains. While the repair was completed to put the pump station back on line this will be a continuing issue until all of the SDR 35 PVC pipe is replaced with either ductile iron pipe or other suitable force main material. This is significant concern as there will most likely be similar breaks in the force main. The section of pipe where the break occurred was not properly supported and the pipe sagged until the pressure of the pump station caused a material failure at a joint.

This project will be included in the Authority's capital budget that is currently being updated.

G 2023 SLUDGE CONTRACT

The solicitor's office is currently reviewing the bid documents for the sludge removal contract. The bid will be for either a 1, 2 or 3 year contract. EE, Inc. will incorporate the construction impacts notification into the sludge contract. This is a little complicated as we do not know when or if construction will be occurring at the Fish Creek WWTP.

8/25/23

EE, Inc. has received the review comments from the operations staff and has made the revisions. The scope of work is simplified now that the Fish Creek WWTP Upgrade project has been delayed. EE, Inc. will incorporate the review comments from the solicitor's office and then publicly bid the sludge contract utilizing the Penn Bid electronic bidding program. We will need to advertise the bid in a local newspaper.

9/21/22

The sludge bids are due at 2 pm on September 21, 2023. EE, Inc. will review the bids and prepare a recommendation letter for the Authority meeting conditioned upon final review by the solicitor's office and the executive director.

10/20/23

The notice of award was sent out by letter dated September 27, 2023. The agreement was signed by the contractor. EE, Inc. will coordinate with the Authority to sign the Agreement and a copy will be sent back to the Contractor along with a Notice to Proceed.

II. DEVELOPER PROJECTS

A. SAILOR PROPERTY

Ebert Engineering, Inc. (EE, Inc.) has conducted a review of plans entitled "Sailor Property Subdivision" prepared by Holmes Cunningham, LLC, dated June 30, 2015. The project proposes construction of a residential subdivision consisting of six proposed single-family homes in addition to the existing single-family home that is to remain. The subdivision proposes to extend the existing WTW&SA public water and sanitary sewer mains located in Buckingham Drive.

EE, Inc. received plans dated June 30, 2015. EE, Inc performed a review of the land development plans and issued a review letter dated September 29, 2015.

EE, Inc. received revised plans dated December 31, 2015. EE, Inc performed a second review of the land development plans and issued a review letter dated January 22, 2016.

EE, Inc. performed a review of the PA DEP Sewage Facilities Planning Module and issued a review letter dated March 25, 2016.

EE, Inc. has issued Review No. 2 on the PA DEP Sewage Facilities Planning Module by letter dated April 22, 2016.

EE, Inc. is currently working with the developer on the planning module. The issue is identifying open space within the Fish Creek WWTP service area that was not developed so that the capacity can be transferred to this property.

The developer is responding to questions from the PA DEP on their planning module.

12/14/18

The engineer for the project has informed us that a new developer is considering purchasing the property.

4/19/19

EE, Inc. reviewed the construction cost estimate and issued an escrow certification by letter dated April 16, 2019.

11/20/20

EE, Inc. is currently reviewing the easements for the project.

10/21/21

EE, Inc. while working with the solicitor's office on the easements learned from Warwick Township that the developer received the land development plans and never provided an updated copy to the Authority for review. EE, Inc. has requested a copy of the most recent land development plans from the land development engineer. Once these are received then the easements can be reviewed and approved. This is required in order to complete the developer's agreement.

11/18/21

EE, Inc. received a revised set of plans along with easements for review. EE, Inc. is currently reviewing the plans and easement information so that the developer's agreement may be completed.

12/17/21

EE, Inc. has reviewed the easement plans and requested the Developer's Engineer to provide plans that are suitable for recording purposes at the Bucks County Courthouse. Once received, EE, Inc. will be releasing their review letter recommending approval of the submitted easements. EE, Inc. is finalizing their review letter of the recent plan submission and will be issuing a draft letter for the Authorities review by the week of December 20, 2021.

1/21/22

EE, Inc. received plot pans on revised paper sizes suitable for recording at the Bucks County Courthouse. Easement Review Letter No. 1 was issued by letter dated January 18, 2021. EE, Inc. also finalized their review on the latest plan submission and recommended plan approval by letter dated January 18, 2021.

B. WARWICK MILLS

The construction of the water and sanitary sewer (low pressure) mains has been completed. The developer is in the processes of selling the development as an improved development to another developer that will perform the construction of the houses.

The developer has completed the majority of the public sanitary sewer and water main improvements. The developer has requested the EE, Inc. perform a punch list inspection so that he can proceed with the dedication process.

A final punch list inspection was performed and the developer is currently working to resolve current issues.

9/21/22

EE, Inc. received revised as-built drawings which addressed all comments noted in our previous review letter. As-Built Review No. 3 was issued by letter dated September 21, 2022 recommending approval of the plans.

10/21/22

The developer requested an escrow withdraw now that the as-builts have been reviewed and approved. EE, Inc. issued Escrow Release No. 3 by letter dated October 17, 2022. The escrow recommended release of \$7,496.75 which brings the remaining escrow balance down to the required 15% maintenance amount of \$75,009.75. The maintenance amount is to remain in escrow until end of the 18 month maintenance period and a successful end of maintenance inspection.

7/21/23

EE, Inc. is scheduling the end of maintenance inspection for this project.

C. FETZER TRACT

1/21/22

EE, Inc. issued Plan Review No. 8 recommending plan approval by letter dated January 3, 2022.

12/6/22

EE, Inc. received revised plans from the Authority. The plans are noted to be revision 24 with a last revised date of 11/30/22. EE, Inc. will be reviewing the plans for any changes to water and sewer facilities.

3/24/23

EE, Inc. has started shop drawing reviews for this development.

5/19/23

EE, Inc. was in contact with the developer on potentially reducing the water service size based upon the approval of the fire marshal.

7/21/23

EE, Inc. issued Plan Review No. 9 recommending plan approval by letter dated July 10, 2023. This plan review was performed as a result of revised plans received from the developer's engineer.

EE, Inc. has scheduled a pre-construction meeting with EE, Inc., Authority, contractor, and developer personnel on July 24, 2023. No construction schedule has been received yet from the contractor.

8/25/23

The contractor has started work on the installation of the sanitary sewers for this project.

10/20/23

The contractor is currently performing the bacteriologic testing of the water main. The first set of samples did not meet the requirements. The contractor has taken a second set of samples and is awaiting the results.

D. WOODLANDS AT WARWICK

3/25/22

The developer has requested the Woodlands at Warwick Sewer and Water facilities to be dedicated to WTW&SA as well as a drawdown of their construction escrow. EE, Inc. issued Escrow Release No. 3 by letter dated March 25, 2022 recommending release of \$142,044.16.

It is noted that dedication has been requested prior to final paving being completed throughout the development. As such, the authority requested an additional escrow that would cover all sanitary and water facilities located within the roadway. These items include manhole frame / covers and valve boxes. EE, Inc. created an additional escrow certification for final paving in the amount of

\$34,650.00 and issued the certification to the Authority by letter dated March 25, 2022.

3/24/23

EE, Inc. has performed a final inspection and issued all comments from final inspection to the developer.

5/19/23

EE, Inc. completed an inspection prior to the final paving and there were no issues identified that needed to be resolved prior to final paving.

E. 1549 Stony Road Subdivision

EE, Inc. received land development plans for a residential subdivision located at 1549 Stony Road. The project consists of a 12 lot single family home subdivision and is proposed to be serviced by public water and gravity sanitary sewers. EE, Inc. is working on completing Plan Review No. 1.

6/25/21

EE, Inc. completed and issued Plan Review No.1.

12/17/21

EE, Inc. received revised plans by letter dated December 1, 2021. A draft plan review has been created on December 17, 2021 and will be distributed to the Authority for review prior to release.

1/21/22

Plan Review No. 2 was issued by letter dated January 4, 2022.

3/25/22

EE, Inc. received revised plans and issued Plan Review No. 3 by letter dated March 15, 2022. The Authority also received a planning module to review. EE, Inc. reviewed the planning module and issued Review Letter No. 3 by letter dated March 23, 2022.

7/21/22

EE, Inc. received easement exhibits for two (2) private properties along Breton Hill Drive that would allow the proposed gravity sewer main to enter into the proposed pump station. EE, Inc. reviewed the easement exhibits and provided draft review letters to the Authority for review on June 23, 2022. Upon review and approval of the draft letters, EE, Inc. will release the letters.

EE, Inc. received a planning module re-submission by letter dated June 6, 2022. EE, Inc. is currently reviewing the submission and creating a draft review letter

for the Authorities review. The draft review letter has been sent to the Authority for review.

8/17/22

EE, Inc. released Planning Module Review No. 2 by letter dated July 21, 2022. The review letter contained 10 comments and is currently being reviewed by the developers engineer.

9/21/22

EE, Inc. released Easement Review No. 1 by letter dated September 16, 2022. The easement review pertained to two (2) properties located on Breton Hill Road that are to be affected by the location of the proposed gravity sewer main which enters into the proposed pump station.

10/21/22 & 11/17/22

EE, Inc. Received a part II permit application and a pump station design which is currently under review. A draft review letter for both of these items are to be presented to the Authority for review prior to finalizing the letters.

12/14/22

The pump station was reviewed with Authority staff and provided comments on the permit, mechanical drawings and electrical drawings. EE, Inc. issued Review Letter No. 1 dated December 8, 2022 for the pump station design (Breton Hill Pump Station) containing 24 comments.

3/24/23

EE, Inc. is reviewing the revised pump station design and the PA DEP Water Quality Management permit application and will be issuing a review letter next week.

7/21/23

EE, Inc. is reviewing the revised pump station design and the PA DEP Water Quality Management permit application and will be issuing a review letter.

EE, Inc. issued Plan Review No. 5 by letter dated June 28, 2023.

EE, Inc. released Easement Review No. 3 by letter dated June 27, 2023. The easement review pertained to two (2) properties located on Breton Hill Road that are to be affected by the location of the proposed gravity sewer main which enters into the proposed pump station and three (3) easements within the project site for the installation of sanitary sewer mains, sanitary sewer force main and water service from the proposed pump station, and the water system extension to service the project site.

8/25/23

The applicants engineer was notified that the PA DEP Sewage Facilities planning module must be revised to identify the service area for the proposed pump station and include the necessary information on the proposed pump station.

10/20/23

The applicant submitted revised land development plans on September 12, 2023. The revisions changed the location of one of the sanitary sewer mains and the number of units that will flow to the pump station.

EE, Inc. rescinded the previous approval letter for the easements by letter dated October 5, 2023. The revised easements were reviewed and approved by letter dated October 19, 2023.

EE, Inc. issued a letter dated October 19, 2023 approving the land development plans. EE, Inc. also issued a review letter dated October 19, 2023 on the planning module that had to be revised due to the change in the flows to the proposed pump station and to address previous review comments.

F. Kampus Klothes

EE, Inc. received land development plans for construction of a 42,000 square foot warehouse building serviced by an existing sewer lateral stub connected in Campus Drive and a new water service to connect to the existing water main located in Campus Drive. EE, Inc. reviewed the plans and issued Plan Review No. 1 dated July 1, 2021 which consisted of 14 outstanding comments.

EE, Inc. received revised plans on August 25, 2021 which addressed all outstanding comments. A draft letter has been created and circulated to the Authority on September 22, 2021 for review prior to release.

10/20/21

EE, Inc. completed and issued Plan Review No.2 dated September 24, 2021 which recommended approval of the plans. EE, Inc. received a construction cost estimate from the Developer and is currently working on finalizing an Escrow Certification.

11/18/21

EE, Inc. completed and issued a Construction Escrow Certificate by letter dated October 21, 2021.

G. PUCCI TRACT

EE, Inc. received land development plans for construction of a 15,480 square foot flex / office building that is to be serviced by existing water service and sewer lateral stubs connected in Campus Drive. EE, Inc. reviewed plans and previously issued plan approval by letter dated May 27, 2021.

The developer's engineer submitted a payment request for water and sanitary sewer related facilities. EE, Inc. reviewed the payment request and issued an Escrow Certification by letter dated December 10, 2021.

H. Lot 22 & 23 Warwick Business Campus

EE, Inc. received land development plans for construction of a 21,600 square foot Flex space building serviced by an existing sewer lateral stub connected in Campus Drive and a new water service to connect to the existing water main located in Campus Drive. A Draft review letter is created and expected to be issued by the week of January 24, 2022.

3/25/22

Plan Review No. 1 was issued by review letter dated February 24, 2022. EE, Inc. is waiting on revised plans at this time.

4/21/22

EE, Inc. received revised plans by letter dated April 8, 2022. A draft review letter has been created and is expected to be released by the week of April 25, 2022.

6/23/22 & 7/21/22

EE, Inc. created a draft review letter offering comments regarding proposed wastewater flow verification and fire flows for the proposed building. The Developer's engineer is working on providing flow verification at this time for our review.

I. Lot 18 – Spring Dance Hot Tub

EE, Inc. received land development plans for construction of a 17,174 square foot warehouse building serviced by an existing sewer lateral stub connected in Campus Drive and a new water service to connect to the existing water main located in Campus Drive. EE, Inc. reviewed the plans and issued Plan Review No. 1 by letter dated January 17, 2022.

3/25/22 & 4/21/22 & 5/19/22 & 6/23/22 & 7/21/22

Plan Review No. 2 was issued by review letter dated March 07, 2022. EE, Inc. is waiting on revised plans at this time.

8/17/22

EE, Inc. received revised plans and issued Plan Review No. 3 by letter dated August 12, 2022. The letter offered contingent approval which required fire flow requirements to be provided. The developers engineer provided the fire flow requirements shortly after the letter was released and is in compliance with water demands.

On August 16, 2022, EE, Inc. issued a Construction Escrow Certification and also issued Shop Drawing Review No. 1 for sanitary sewer and water submittals. The shop drawing review had minor comments which required new submittals for review. Of those submittals is a water tight frame and cover for the sampling manhole that is located within the grass area.

9/21/22 & 10/21/22

EE, Inc. performed construction inspections on September 15, 2022 for the sewer lateral connection. At this time EE, Inc. is waiting on the contractor to schedule inspections for the water connection.

11/17/22 & 12/14/22

On November 3, 2022 EE, Inc. performed inspections during the connection of the water service for this project. The water service is currently installed and waiting to receive authority testing including pressure testing and water samples. The contractor will notify EE, Inc. when they finalize their schedule.

1/19/23

The contractor performed a hydrostatic pressure testing on January 10 which yielded passing test results. The contractor also scheduled water sampling of the water service on Thursday, January 12th and Friday, January 13th. EE, Inc. performed inspections on both days during the water samples. At this time we are waiting for the contractor to provide results of the sample so that the service may be turned on.

J. Lot 4 – Gasper Landscape Development

EE, Inc. received land development plans for construction of a 26,002 square foot warehouse building on Mearns Road Business Campus Lot No. 4 that is to be serviced by an existing sewer lateral stub connected in Camars Drive (Mearns Road Business Campus Existing Common Access Easement) and a new water service to connect to the existing water main located in the Mearns Road Business Campus Existing Common Access Easement, crossing Camars Drive onto the site. EE, Inc. reviewed the plans and issued Plan Review No. 1 by letter dated January 20, 2022.

3/25/22

Plan Review No. 1 was issued by review letter dated March 07, 2022. EE, Inc. is waiting on revised plans at this time. EE, Inc. also received an easement legal description for the project and issued Easement Review No. 1 by letter dated March 23, 2022.

4/21/22

The developers engineer provided a construction cost estimate for the proposed water and sanitary sewer improvements. EE, Inc. is reviewing the cost estimate and generating a Construction Escrow Certification that should be used within the developer's agreement. A draft is created and expected to be released by the week of April 25, 2022.

5/19/22

EE, Inc. issued a Construction Escrow Certification by letter dated May 11, 2022. An easement review letter was also issued by letter dated May 5, 2022 offering approval of the proposed easement exhibit. Since then, the Authority had requested dedication of the proposed water service and hydrant assembly. The developer is working on generating an additional easement to cover the water service and will be submitting legal description and plot plans for review.

6/23/22

EE, Inc. received an additional easement exhibit pertaining to the proposed water line servicing the building. An easement review letter was issued by EE, Inc. by on June 13, 2022 recommending approval of the easement exhibit.

9/21/22

EE, Inc. issued Shop Drawing Review No. 1 by letter dated September 16, 2022. The shop drawings requested a revised manhole frame / cover to accommodate water tight requirements and requested additional manhole components. EE, Inc. received additional submittals on September 19, 2022 and is currently under review.

10/21/22 & 11/17/22

EE, Inc. hosted a preconstruction meeting on Thursday, October 13, 2022. Construction is intended to begin within 3-4 weeks and the contractor is to keep EE, Inc. aware of any schedule changes so that inspections may be scheduled accordingly.

12/14/22

Construction is currently ongoing for the water and sewer services. The sanitary sewer sampling manhole and lateral was installed on site. The wet tap on the existing water main was performed and water main was continued to be installed into the property. The contractor was taken off of water and sewer utilities and

will notify EE, Inc. when construction is to begin. We currently have to complete installation of the water main and perform all authority testing requirements.

1/19/23

EE, Inc. is waiting on the contractor to schedule work for the remainder of construction. As of today, we are waiting on sanitary and water testing to be performed on the site.

The developer requested an escrow release for work that has been completed thus far. An escrow request in the amount of \$44,440.40 was submitted via email on 1/13/23. EE, Inc. reviewed the escrow request and agree with the requested amount. Escrow Release No. 1 was issued by letter dated January 19, 2023 recommending release in the amount of \$44, 440.40.

8/25/23

The developer is installing a separate water service for irrigation.

K. 1547 – 1549 Campus Drive Development

EE, Inc. received land development plans for construction of a 24,267 square foot warehouse building on Campus Drive. The proposed warehouse building is intended to be serviced by an existing sanitary sewer and water main located on Campus Drive. EE, Inc. will be working on a review letter of the plans and will send a draft copy to the Authority to review when completed.

8/18/22 & 9/21/22 & 10/21/22 & 11/17/22 & 12/6/22 & 1/19/23

EE, Inc. reviewed the submitted plans and issued Plan Review No. 1 containing 27 comments by letter dated August 18, 2022.

7/21/2023

EE, Inc. forwarded the PA DEP Capacity Certification that was executed by the Authority to the Applicant's engineer on July 13, 2023.

L. 1908 York Road Development

EE, Inc. received land development plans for construction of a 6,770 square foot daycare, three (3) new homes, and connection of an existing home to public water and sanitary sewer system. Water services are to be provided through a 655 linear foot water main extension composed of eight inch (8") ductile iron pipe. Sanitary sewer services are to be provided through a 730 linear foot gravity extension composed of 8" SDR-26 PVC material and three proposed manholes.

EE, Inc. is working on finalizing a plan review and will have a draft letter for the Authorities review prior to releasing.

8/18/22 & 9/21/22 & 10/21/22 & 11/17/22 & 12/6/22 & 1/19/23

EE, Inc. finalized Plan Review No. 1 by letter dated August 18, 2022. The letter contained 41 outstanding comments pertaining to the design of the water and sewer system and the methods of connection to existing utilities.

M. Kampus Klothes – Lot 29

EE, Inc. received land development plans for construction of a 12,000 square foot warehouse building on Campus Drive. The proposed warehouse building is intended to be serviced by an existing sanitary sewer and water main located on Campus Drive. EE, Inc. will be working on a review letter of the plans and will send a draft copy to the Authority to review when completed.

10/21/22

EE, Inc. created a draft plan review No. 1 and sent to the Authority for review on October 21, 2022. The letter will be released upon approval of the authorities review.

11/17/22

EE, Inc. finalized Plan Review No. 1 by letter dated October 27, 2022.

12/6/22

EE, Inc. received revised plans for review on the first week of December. We are currently reviewing the plans and creating an Escrow Certificate for the project.

1/19/23

EE, Inc. issued Plan Review No. 2 by letter dated January 10, 2023.

1/19/23

EE, Inc. issued Plan Review No. 3 by letter dated June 28, 2023.

EE, Inc. issued Easement Review No. 1 by letter dated June 28, 2023. The easement review pertained to an easement required for the installation of the water service for the proposed building and a new fire hydrant to be installed at the terminus of the water service.

EE, Inc. issued a Construction Escrow Certification by letter dated July 5, 2023.

ESCROW RELEASES

A. WARWICK OFFICE PARK

EE, Inc. has reviewed the developer's escrow request and is recommending that the construction escrow be released in the amount of \$28,245.43. This will reduce the available escrow from \$33,412.93 to \$5,167.50.

B. WARWICK VILLAGE COMMONS

The Warwick Village Commons project has two separate construction escrow accounts. There is one construction escrow account for the On-Site work and a separate Off-Site account for the work being performed in the Authority's easement.

EE, Inc. is recommending approval of Escrow Release No. 1 for the Off-Site Improvements in the amount of \$38,750.00 of the \$46,885.30 remaining in the construction escrow fund for this portion of the project.

EE, Inc. is recommending approval of Escrow Release No.1 for the On-Site Improvements in the amount of \$270,377.75 of the \$334,759.70 remaining in the construction escrow fund for this project.

EE, Inc. is recommending the approval of Escrow Release No. 2 for the Off-Site Improvements in the amount of \$1,102.50.

EE, Inc. is recommending the approval of Escrow Release No. 2 for the On-Site Improvements in the amount of \$14,167.99.

C. WOODLANDS AT WARWICK

EE, Inc. has reviewed the developer's escrow request number one and is recommending that the construction escrow be released in the amount of \$466,643.23. This will reduce the available escrow from \$833,735.71 to \$367,092.48.

EE, Inc. has reviewed the developer's escrow request for the Country Crossing Effluent Pump Station. The developer posted a separate bond for this work as it was previously escrowed by the previous developer (Mignatti Ventures Inc.) and is recommending that the construction escrow be released in the amount of \$215,815.00. Since this is a bond, the developer will need to post a new bond in the amount of 15% (\$38,085.00) for the eighteen-month maintenance period.

EE, Inc. has reviewed the developer's escrow request number two and is recommending that the construction escrow be released in the amount of \$225,048.32. This will reduce the available escrow from \$367,092.48 to \$142,044.16.

EE, Inc. has reviewed the developer's escrow request number three and is recommending that the construction escrow be released in the amount of \$142,044.16. The Authority will be holding the final paving escrow until all construction has been completed, and approved by WTW&SA.

D. WARWICK MILLS

EE, Inc. has reviewed the developer's Escrow Request No. 1 and is recommending that the construction escrow be released in the amount of \$420,610.00. This will reduce the available escrow from \$550,071.50 to \$129,461.50.

EE, Inc. has reviewed the developer's Escrow Request No. 2 and is recommending that the construction escrow be released in the amount of \$46,955.00. This will reduce the available escrow from \$129,461.50 to \$82,506.50.

10/21/22

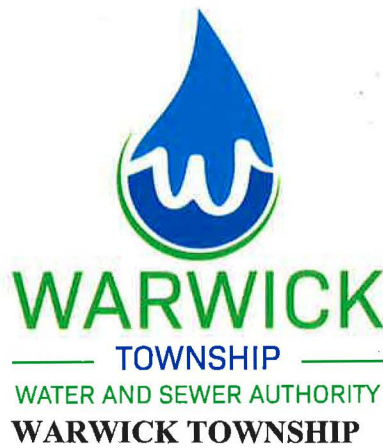
EE, Inc. issued Escrow Release No. 3 by letter dated October 17, 2022. The escrow recommended release of \$7,496.75 which brings the remaining escrow balance down to the required 15% maintenance amount of \$75,009.75. The maintenance amount is to remain in escrow until end of the 18 month maintenance period and a successful end of maintenance inspection.

E. LOT 4 – GASPER LANDSCAPE

EE, Inc. has reviewed the developer's Escrow Request No. 1 and is recommending that the construction escrow be released in the amount of \$44,440.40. This will reduce the available escrow from \$61,985.00 to \$17,545.00.

III. PAYMENT REQUESTS

A. NONE THIS PERIOD



WATER AND SEWER AUTHORITY

Operation report for the month of October 2023

This is the monthly report for the Warwick Township water distribution systems for October 2023. Enclosed are the Pa. Department of Environmental Protection Daily Water Withdrawal Report and laboratory analysis reports. The meter log sheets for Aqua Pennsylvania and North Wales as well. Charts showing monthly and yearly water demands are also included.

Water purchased for the Warwick Township Water and Sewer Authority from Aqua Pennsylvania Water and North Wales Water Authority is reported as a combined system total as seen on the Pa. Department of Environmental Protection Daily Water Withdrawal Report.

The combined system total for the month of October 2023 was 22,870,209 gallons. The average daily demand was 737,749 gallons for the month. Peak demand of 942,793 occurred on October 25th. Minor seasonal adjustments are being made to pressures and pump settings at the water booster stations to ensure proper storage tank levels.

Throughout the month water meters were installed, service calls and customer complaints answered and analysis of the water was performed as required.

Sincerely,

Daniel B. Ervin
Director of Operations
License # W10098



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT

DAILY WATER WITHDRAWAL/INSTREAM FLOW REQUIREMENT REPORT

WARWICK TWP W AND S AUTHORITY
NAME-PUBLIC WATER SUPPLY AGENCY

BUCKS
COUNTY

WA Permit No. 1001

TELEPHONE NO. 215-343-3584

SF Permit ID 536524

Report For MONTH: OCTOBER

2023

Daniel Ervin

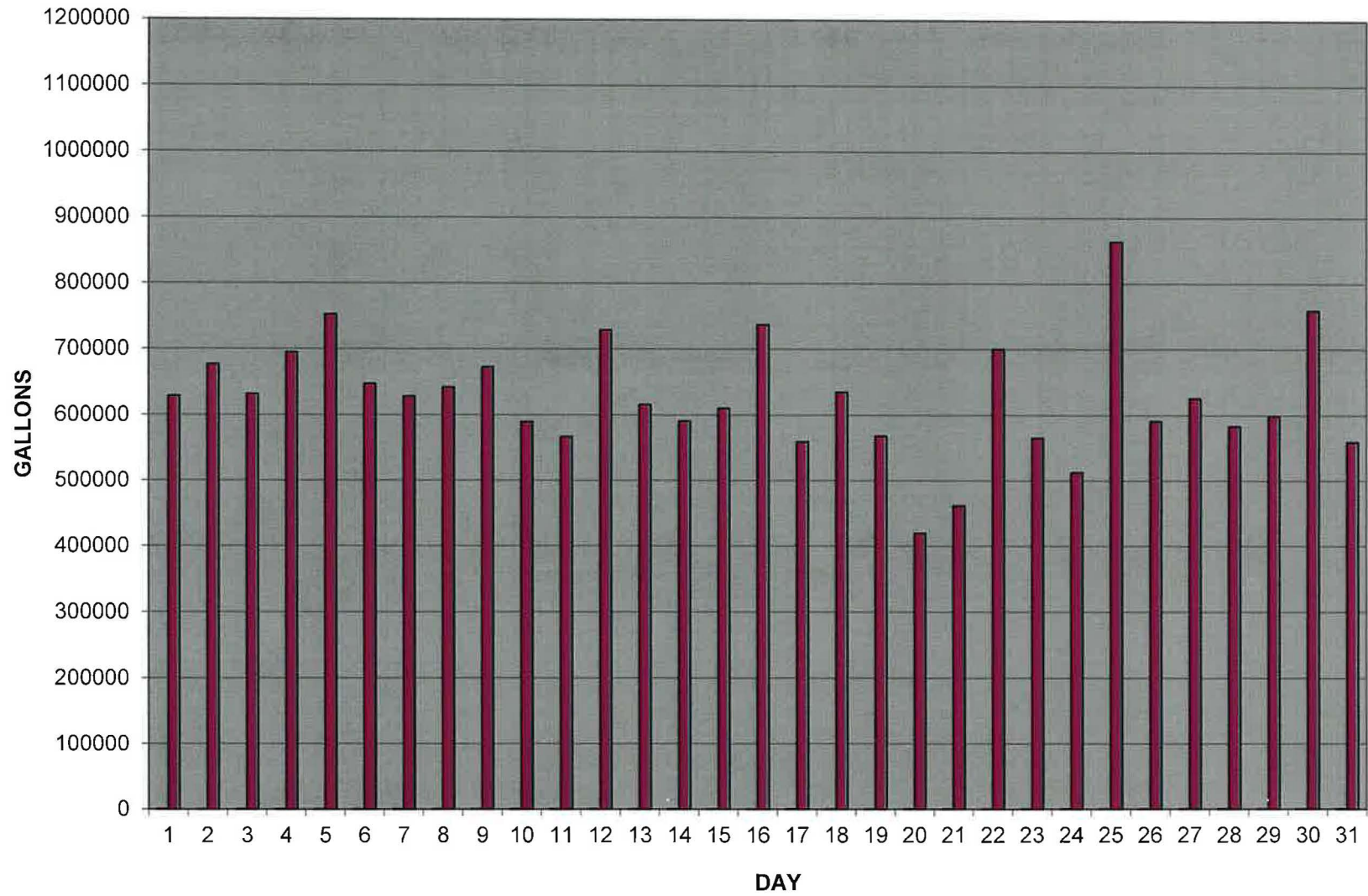
REPORT PREPARER NAME (print)

PREPARER SIGNATURE

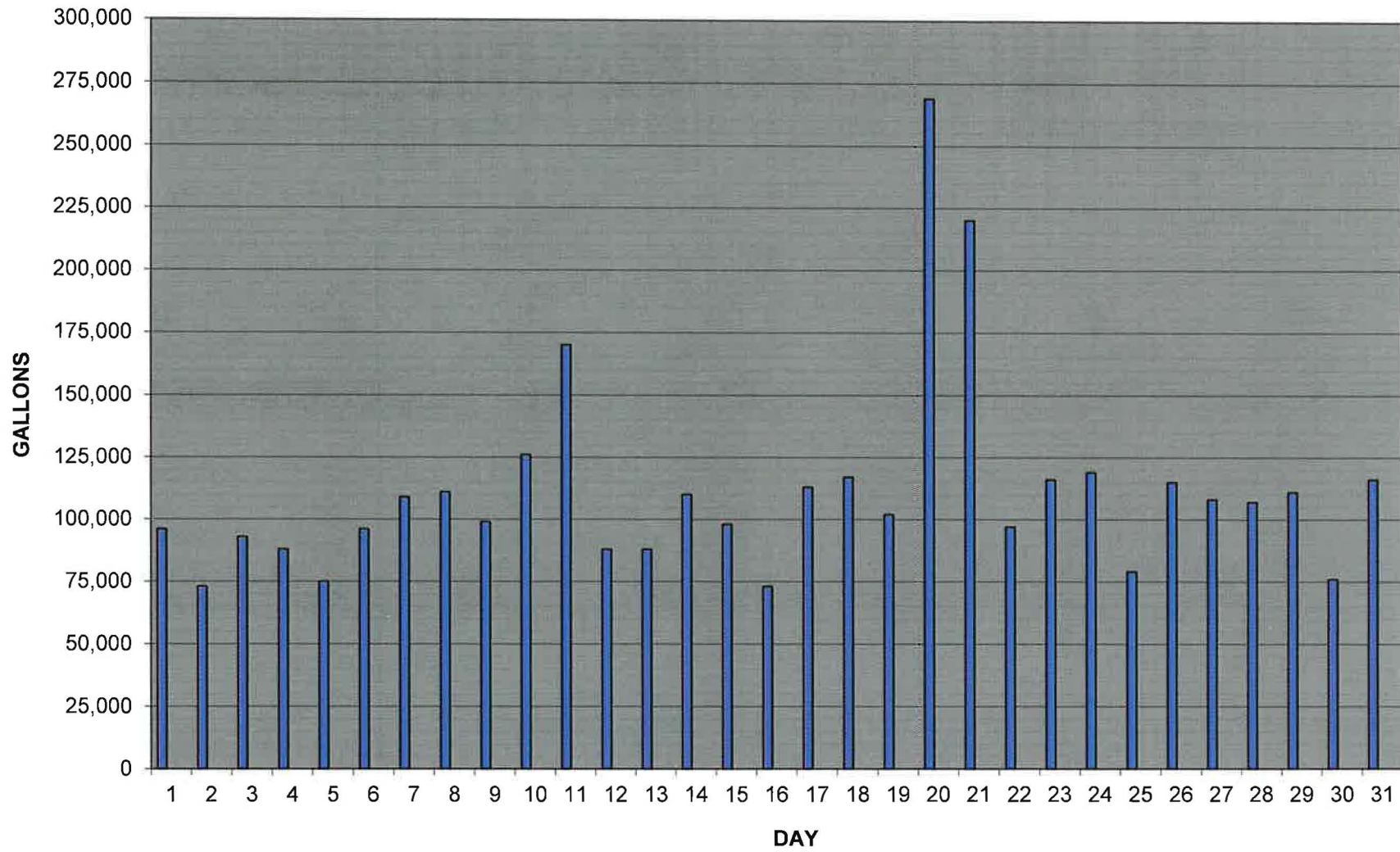
SOURCE ID	19413	1460048			
Day \ Name	PA SUB WATER CO MAIN SYS	NORTH WALES INTERCONNECT	TOTAL FOR COMBINED SYSTEMS		
1	628,304	96,000	724,304		
2	676,445	73,000	749,445		
3	631,242	93,000	724,242		
4	694,816	88,000	782,816		
5	752,455	75,000	827,455		
6	647,059	96,000	743,059		
7	627,818	109,000	736,818		
8	641,881	111,000	752,881		
9	672,163	99,000	771,163		
10	589,306	126,000	715,306		
11	566,692	170,000	736,692		
12	728,575	88,000	816,575		
13	616,148	88,000	704,148		
14	590,529	110,000	700,529		
15	610,113	98,000	708,113		
16	736,764	73,000	809,764		
17	559,061	113,000	672,061		
18	634,872	117,000	751,872		
19	568,028	102,000	670,028		
20	419,572	269,000	688,572		
21	461,791	220,000	681,791		
22	700,209	97,000	797,209		
23	565,501	116,000	681,501		
24	512,636	119,000	631,636		
25	863,793	79,000	942,793		
26	590,926	115,000	705,926		
27	625,923	108,000	733,923		
28	583,326	107,000	690,326		
29	598,696	111,000	709,696		
30	758,521	76,000	834,521		
31	559,044	116,000	675,044		
TOTAL	19,412,209	3,458,000	22,870,209		
AVERAGE	626,200	111,548	737,749		
MAXIMUM	863,793	269,000	942,793		
MINIMUM	419,572	73,000	631,636		
DAYS USE	31	31	31		

Return completed form to: Division of Water Use Planning, P.O. Box 8555, Harrisburg, PA 17105 - 8555

WTWSA WATER SYSTEM DEMAND TOTALS - AQUA - OCTOBER 2023



WTWSA WATER SYSTEM DEMAND TOTALS - NORTH WALES - OCTOBER 2023





Certificate of Analysis

M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2337013

Reported: 10/09/23

Lab Contact: Christina M Kistler

Attention: Daniel Ervin
Reported To: Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929

Project: DW- Monthly TC Week #1

Lab ID: 2337013-01 **Collected By:** Client
Sample Desc: 710 Bridge Valley School
Notes:

Sampled: 10/02/23 08:10 **Received:** 10/02/23 13:06
PADEP Type: D-Distribution
PWSID: 1090127 **Loc ID:** 710

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/2/23 16:12	10/3/23 10:30		MAC	N/A 1

Lab ID: 2337013-02 **Collected By:** Client
Sample Desc: 711 Jamison Elementary School
Notes:

Sampled: 10/02/23 08:25 **Received:** 10/02/23 13:06
PADEP Type: D-Distribution
PWSID: 1090127 **Loc ID:** 711

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/2/23 14:38	10/3/23 9:12		MAC	N/A 1

Lab ID: 2337013-03 **Collected By:** Client
Sample Desc: 712 Heritage Creek Community Center
Notes:

Sampled: 10/02/23 07:50 **Received:** 10/02/23 13:06
PADEP Type: D-Distribution
PWSID: 1090127 **Loc ID:** 712

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/2/23 14:38	10/3/23 9:12		MAC	N/A 1

Lab ID: 2337013-04 **Collected By:** Client
Sample Desc: 713 Wawa
Notes:

Sampled: 10/02/23 07:30 **Received:** 10/02/23 13:06
PADEP Type: D-Distribution
PWSID: 1090127 **Loc ID:** 713

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
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Additional accreditations by MD (261)

M.J. Reider Associates, Inc.

Lab ID: 2337013-04 Continued

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/2/23 14:38	10/3/23 9:12		MAC	N/A 1

Lab ID: 2337013-05 **Collected By:** Client **Sampled:** 10/02/23 07:10 **Received:** 10/02/23 13:06
Sample Desc: 714 Bucks Club **PADEP Type:** D-Distribution
Notes: **PWSID:** 1090127 **Loc ID:** 714

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/2/23 16:12	10/3/23 10:30		MAC	N/A 1

Lab ID: 2337013-06 **Collected By:** Client **Sampled:** 10/02/23 06:25 **Received:** 10/02/23 13:06
Sample Desc: 715 NWWA Interconnect **PADEP Type:** D-Distribution
Notes: **PWSID:** 1090127 **Loc ID:** 715

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/2/23 16:12	10/3/23 10:30		MAC	N/A 1

Lab ID: 2337013-07 **Collected By:** Client **Sampled:** 10/02/23 06:50 **Received:** 10/02/23 13:06
Sample Desc: 716 Windrush Booster **PADEP Type:** D-Distribution
Notes: **PWSID:** 1090127 **Loc ID:** 716

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/2/23 16:12	10/3/23 10:30		MAC	N/A 1

Lab ID: 2337013-08 **Collected By:** Client **Sampled:** 10/02/23 06:10 **Received:** 10/02/23 13:06
Sample Desc: 717 Mountainview Booster **PADEP Type:** D-Distribution
Notes: **PWSID:** 1090127 **Loc ID:** 717

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/2/23 14:38	10/3/23 9:12		MAC	N/A 1



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003**Certificate of Analysis****Laboratory No.:** 2337014**Reported:** 10/11/23**Lab Contact:** Christina M Kistler**Attention:** Daniel Ervin**Reported To:** Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929**Project:** DW-Q TTHM & HAA5 Jan 4, Apr 4, Jul 4, Oct 4**Lab ID:** 2337014-01 **Collected By:** Client
Sample Desc: 701 Hydrant 1329 Meetinghouse Road**Sampled:** 10/02/23 05:30**Received:** 10/02/23 13:06**PADEP Type:** D-Distribution**Notes:****PWSID:** 1090127**Loc ID:** 701

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Organics									
Bromoacetic acid	<0.001	mg/l	0.001	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A
Chloroacetic Acid	<0.002	mg/l	0.002	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A
Dibromoacetic Acid	<0.001	mg/l	0.001	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A
Dichloroacetic Acid	0.001	mg/l	0.001	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A
Total Haloacetic Acids (HAA)	0.00148	mg/l	0.00100	CALCULATED	10/07/23		TWH	N/A	0.06
Trichloroacetic Acid	<0.001	mg/l	0.001	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A
Surrogates									
2,3-Dibromopropionic acid	110%		70-130	EPA 552.2 Rev 1.0	10/07/23		TWH		
Volatiles									
Bromodichloromethane	0.0076	mg/l	0.0005	EPA 524.2 Rev 4.1	10/03/23		WJS	N/A	N/A
Bromoform	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	10/03/23		WJS	N/A	N/A
Chloroform	0.0317	mg/l	0.0005	EPA 524.2 Rev 4.1	10/03/23		WJS	N/A	N/A
Dibromochloromethane	0.0011	mg/l	0.0005	EPA 524.2 Rev 4.1	10/03/23		WJS	N/A	N/A
Total Trihalomethanes (TTHMs)	0.0404	mg/l	0.000500	CALCULATED	10/03/23		WJS	N/A	0.08

Lab ID: 2337014-02 **Collected By:** Client
Sample Desc: 704 Hydrant #1288 Land Road**Sampled:** 10/02/23 05:55**Received:** 10/02/23 13:06**PADEP Type:** D-Distribution**Notes:****PWSID:** 1090127**Loc ID:** 704

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Organics									
Bromoacetic acid	<0.001	mg/l	0.001	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A
Chloroacetic Acid	<0.002	mg/l	0.002	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A
Dibromoacetic Acid	<0.001	mg/l	0.001	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A
Dichloroacetic Acid	0.005	mg/l	0.001	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A
Total Haloacetic Acids (HAA)	0.0259	mg/l	0.00100	CALCULATED	10/07/23		TWH	N/A	0.06
Trichloroacetic Acid	0.020	mg/l	0.001	EPA 552.2 Rev 1.0	10/07/23		TWH	N/A	N/A



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M.J. Reider Associates, Inc.

Lab ID: 2337014-02 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max
Organics								
Surrogates								
2,3-Dibromopropionic acid	118%		70-130	EPA 552.2 Rev 1.0	10/07/23		TWH	
Volatiles								
Bromodichloromethane	0.0057	mg/l	0.0005	EPA 524.2 Rev 4.1	10/03/23		WJS	N/A N/A
Bromoform	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	10/03/23		WJS	N/A N/A
Chloroform	0.0286	mg/l	0.0005	EPA 524.2 Rev 4.1	10/03/23		WJS	N/A N/A
Dibromochloromethane	0.0007	mg/l	0.0005	EPA 524.2 Rev 4.1	10/03/23		WJS	N/A N/A
Total Trihalomethanes (TTHMs)	0.0350	mg/l	0.000500	CALCULATED	10/03/23		WJS	N/A 0.08

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2337014-01			
EPA 552.2 Rev 1.0	EPA 552.2 Rev 1.0	10/06/2023	JLS
2337014-02			
EPA 552.2 Rev 1.0	EPA 552.2 Rev 1.0	10/06/2023	JLS



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Additional accreditations by MD (261)



Certificate of Analysis

M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2339425

Reported: 10/25/23

Lab Contact: Christina M Kistler

Attention: Daniel Ervin
Reported To: Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929

Project: DW- Monthly TC Week #3

Lab ID: 2339425-01 **Collected By:** Client
Sample Desc: 718 Country Crossing Wastewater Treatment Facility
Notes:

Sampled: 10/16/23 05:45 **Received:** 10/16/23 14:17
PADEP Type: D-Distribution
PWSID: 1090127 **Loc ID:** 718

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/16/23 17:28	10/17/23 11:33		MAC	N/A 1

Lab ID: 2339425-02 **Collected By:** Client
Sample Desc: 719 Sherwin Williams (2395 York Road)
Notes:

Sampled: 10/16/23 07:00 **Received:** 10/16/23 14:17
PADEP Type: D-Distribution
PWSID: 1090127 **Loc ID:** 719

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/16/23 17:28	10/17/23 11:33		MAC	N/A 1

Lab ID: 2339425-03 **Collected By:** Client
Sample Desc: 720 Warwick Township Building
Notes:

Sampled: 10/16/23 06:30 **Received:** 10/16/23 14:17
PADEP Type: D-Distribution
PWSID: 1090127 **Loc ID:** 720

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/16/23 17:28	10/17/23 11:33		MAC	N/A 1

Lab ID: 2339425-04 **Collected By:** Client
Sample Desc: 721 Warwick Township Public Works
Notes:

Sampled: 10/16/23 06:00 **Received:** 10/16/23 14:17
PADEP Type: D-Distribution
PWSID: 1090127 **Loc ID:** 721

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
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Additional accreditations by MD (261)

M.J. Reider Associates, Inc.

Lab ID: 2339425-04 Continued

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/16/23 17:28	10/17/23 11:33		MAC	N/A 1

Lab ID: 2339425-05 **Collected By:** Client **Sampled:** 10/16/23 07:35 **Received:** 10/16/23 14:17
Sample Desc: 722 Moland House **PADEP Type:** D-Distribution
Notes: **PWSID:** 1090127 **Loc ID:** 722

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/16/23 17:28	10/17/23 11:33		MAC	N/A 1

Lab ID: 2339425-06 **Collected By:** Client **Sampled:** 10/16/23 06:45 **Received:** 10/16/23 14:17
Sample Desc: 723 Middle Bucks Institute of Technology **PADEP Type:** D-Distribution
Notes: **PWSID:** 1090127 **Loc ID:** 723

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/16/23 17:28	10/17/23 11:33		MAC	N/A 1

Lab ID: 2339425-07 **Collected By:** Client **Sampled:** 10/16/23 07:20 **Received:** 10/16/23 14:17
Sample Desc: 724 Tractor Supply **PADEP Type:** D-Distribution
Notes: **PWSID:** 1090127 **Loc ID:** 724

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	10/16/23 17:28	10/17/23 11:33		MAC	N/A 1



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NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.

Additional accreditations by MD (261)



**WARWICK TOWNSHIP
WATER AND SEWER AUTHORITY**

Operation report for the month of October 2023

This is the monthly report for the operation of the Country Crossing Treatment Plant and the collection system for the month of October 2023. It includes the analysis reports, the monthly report to the PADEP, and the NPDES Discharge Monitoring Report.

We treated 4.824 gallons of sewage for the month. This is an average of .155 MGD. The Peak flow for the month was .196 MGD. Cycle times are adjusted as needed to meet these requirements. We currently operate only three of the four SBR units.

Cobra Environmental performed routine cleaning of all sewage pump stations.

Operations staff cleaned post equalization tank. Vessel was put back online without incident following cleaning.

Main control panel screen for PLC failed. Unit was original unit and compatible replacement needs to be found. Currently operations are using remote access to make all changes needed at facility. New unit will be installed when found.

Throughout the month routine maintenance was done on all the equipment and facilities associated with this treatment plant and collection system.

Sincerely,

Daniel B. Ervin
Director of Operations
License #T3504

**SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING**

3800-FM-BCW0435 3/2012

Facility Name: Country Crossing WWTP
Municipality: Warwick County: Bucks
Watershed: 2-F
Laboratories: MJ Reider

Month: 10 (select number) Year: 2023
Permit No.: PA00056421 Outfall: 002
Renewal application due 180 days prior to expiration.
This permit will expire on: November 30, 2024

Parameter			Flow	pH	Dissolved Oxygen	CBOD5	BOD5	TSS	TSS	Fecal Coliform	UV Transmittance	NO3-N	Total Nitrogen	NH3-N	Total Phosphorus	Total Phosphorus	CBOD5						
Stage			1	1	1	RI	RI	RI	1	1	1	1	1	1	1	1	1						
Week	Day	Date	MGD	q	S.U.	q	mg/L	q	mg/L	q	CFU/100 ml	q	%	q	mg/L	q	mg/L	q	mg/L	q	lbs/day	q	mg/L
1	Sun	10/1/23	0.1879		7.7		9.2						0.2										
	Mon	10/2/23	0.1584		7.9		8.3						0.2										
	Tue	10/3/23	0.1626		7.9		8.4						0.2										
	Wed	10/4/23	0.1902		8.0		82.0						0.2										
	Thu	10/5/23	0.1589		8.1		9.0	117.0	153.0	146.0	1.0	<	2.0	0.2	<	3.5	<	4.32	0.09	0.23	0.3048	<	2.0
	Fri	10/6/23	0.1968		8.3		8.3						0.2										
	Sat	10/7/23	0.1606		8.1		8.5						0.2										
2	Sun	10/8/23	0.1597		8.2		9.0						0.2										
	Mon	10/9/23	0.1634		8.0		8.9						0.2										
	Tue	10/10/23	0.1408		8.1		8.8						0.2										
	Wed	10/11/23	0.1439		8.1		9.2						0.2										
	Thu	10/12/23	0.1501		8.2		9.0	266.0	304.0	316.0	2.0	<	2.0	0.2	<	3.94	<	4.56	0.04	0.18	0.2253		2.1
	Fri	10/13/23	0.1472		8.1		8.8						0.2										
	Sat	10/14/23	0.147		8.1		9.1						0.2										
3	Sun	10/15/23	0.1358		8.1		9.0						0.2										
	Mon	10/16/23	0.1611		8.2		9.0						0.2										
	Tue	10/17/23	0.1938		8.2		8.9						0.2										
	Wed	10/18/23	0.1491		7.6		9.0						0.2										
	Thu	10/19/23	0.1772		8.2		9.3	150.0	168.0	64.0	1.0	<	2.0	0.2	<	4.88	<	5.66	0.05	0.16	0.2364		2.5
	Fri	10/20/23	0.1486		8.0		9.6						0.2										
	Sat	10/21/23	0.1884		8.1		9.4						0.2										
4	Sun	10/22/23	0.1565		8.2		8.7						0.2										
	Mon	10/23/23	0.135		8.2		9.2						0.2										
	Tue	10/24/23	0.1331		8.1		8.7						0.2										
	Wed	10/25/23	0.1348		7.6		8.7						0.2										
	Thu	10/26/23	0.15		8.2		9.8	164.0	223.0	142.0	2.0	<	2.0	0.2	<	5.28	<	6.14	0.04	0.17	0.2126		3.6
	Fri	10/27/23	0.1356		8.2		9.5						0.2										
	Sat	10/28/23	0.131		8.2		9.3						0.2										
5	Sun	10/29/23	0.1405		8.2		8.9						0.2										
	Mon	10/30/23	0.1613		7.7		8.6						0.2										
	Tue	10/31/23	0.1347		8.2		9.6						0.2										

Statistics for Data																												
Daily Minimum (Conc.):		7.6		8.3		117		153		54		1	<	2		0.2	<	3.5	<	4.32		0.04		0.16		0.2126	<	2
Daily Maximum (Conc.):		8.3		82		266		304		316		2	<	2		0.2	<	5.28	<	6.14		0.09		0.23		0.3048		3.6
Max Avg Weekly (Conc.):				19.1		286		304		316		2				0.2	<	5.28	<	6.14		0.09		0.23		0.3048		4
Avg Monthly (Conc.):				11.3		174		212		165		2				0.2	<	4.4	<	5.17		0.1		0.2		0.2448	<	3
Geometric Mean (Conc.):													<	2														
Max Avg Weekly (Load):	0.1722			28		333		381		396		3					<	7	<	8		0.1		0.3		0.4		5
Avg Monthly (Load):	0.1556			15		229		278		212		2					<	5.8	<	7		0.07		0.2		0.3	<	3
Total Monthly (Load):	4.824			471		7090		8607		6560		61					<	181.3	<	213		2.3		8		10	<	104
Daily Minimum (Load):	0.131			10		155		203		80		1					<	5	<	6		0.05		0.2		0.3		3
Daily Maximum (Load):	0.1968			123		333		381		396		3					<	7	<	8		0.1		0.3		0.4		5

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

Prepared By: Daniel B. Ervin License No.: T3504
Title: Operations Manager Date: 11/6/2023



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

NAME: WARWICK TWP WATER & SEW AUTH BUCKS CNTY

ADDRESS: PO BOX 3151733 TOWNSHIP GREENE, JAMISON, PA , 18929-0315

FACILITY: COUNTRY CROSSING STP

LOCATION: 1530 MEARNS RD, JAMISON, PA , 18929

STAGE: Final Effluent

PA0056421
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 10/01/2023

DMR Effective To: 10/31/2023

Permit Expires: 11/30/2024

Permit Application Due: 06/03/2024

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2023	10	01	FROM	2023	10	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***				***			
	PERMIT REQUIREMENT	***	***		5.0 Inst Min	Monitor & Report Avg Mo	***	mg/L	1/day	Grab
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/day	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT				***					
	PERMIT REQUIREMENT	53 Avg Mo	80 Wkly Avg	lbs/day	***	20 Avg Mo	30 Wkly Avg	mg/L	1/week	24-Hr Composite
Total Nitrogen (00600)	SAMPLE MEASUREMENT		***		***		***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/week	24-Hr Composite
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT		***		***		***			
	PERMIT REQUIREMENT	5.3 Avg Mo	***	lbs/day	***	2.0 Avg Mo	***	mg/L	1/week	24-Hr Composite
Nitrate-Nitrite as N (00630)	SAMPLE MEASUREMENT		***		***		***			
	PERMIT REQUIREMENT	24.0 Avg Mo	***	lbs/day	***	9.0 Avg Mo	***	mg/L	1/week	24-Hr Composite
Total Phosphorus (00665)	SAMPLE MEASUREMENT		***		***		***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	.6 Avg Mo	***	mg/L	1/week	24-Hr Composite

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Ultraviolet light intensity (49607)	SAMPLE MEASUREMENT	***	***			***	***			
	PERMIT REQUIREMENT	***	***		Monitor & Report Daily Min	***	***	mW/cm ²	1/day	Recorded
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		Continuous	Metered
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	200 Geo Mean	1000 IMAX	No./100 ml	1/week	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD ₅) (80082)	SAMPLE MEASUREMENT				***					
	PERMIT REQUIREMENT	53 Avg Mo	80 Wkly Avg	lbs/day	***	20 Avg Mo	30 Wkly Avg	mg/L	1/week	24-Hr Composite
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

NAME: WARWICK TWP WATER & SEW AUTH BUCKS CNTY

ADDRESS: PO BOX 3151733 TOWNSHIP GREENE, JAMISON, PA , 18929-0315

FACILITY: COUNTRY CROSSING STP

LOCATION: 1530 MEARNS RD, JAMISON, PA , 18929

STAGE: Final Effluent

PA0056421
PERMIT NUMBER

002
OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	10	01	FROM	2023	10	31
			TO			

Reporting Frequency: Monthly

DMR Effective From: 10/01/2023

DMR Effective To: 10/31/2023

Permit Expires: 11/30/2024

Permit Application Due: 06/03/2024

No Discharge: ☐

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***		8.3	11.3	***		1/day	Grab
	PERMIT REQUIREMENT	***	***		5.0 Inst Min	Monitor & Report Avg Mo	***	mg/L	1/day	Grab
pH (00400)	SAMPLE MEASUREMENT	***	***		7.6	***	8.3		1/day	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/day	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	2	3		***	2	2		1/week	24-Hr Composite
	PERMIT REQUIREMENT	53 Avg Mo	80 Wkly Avg	lbs/day	***	20 Avg Mo	30 Wkly Avg	mg/L	1/week	24-Hr Composite
Total Nitrogen (00600)	SAMPLE MEASUREMENT	<7	***		***	<5.17	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/week	24-Hr Composite
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	.07	***		***	.1	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	5.3 Avg Mo	***	lbs/day	***	2.0 Avg Mo	***	mg/L	1/week	24-Hr Composite
Nitrate-Nitrite as N (00630)	SAMPLE MEASUREMENT	<5.8	***		***	<4.4	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	24.0 Avg Mo	***	lbs/day	***	9.0 Avg Mo	***	mg/L	1/week	24-Hr Composite
Total Phosphorus (00665)	SAMPLE MEASUREMENT	.2	***		***	.2	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	.6 Avg Mo	***	mg/L	1/week	24-Hr Composite
Ultraviolet light intensity (49607)	SAMPLE MEASUREMENT	***	***		.2	***	***		1/day	Recorded
	PERMIT REQUIREMENT	***	***		Monitor & Report Daily Min	***	***	mW/cm ²	1/day	Recorded
Flow (50050)	SAMPLE MEASUREMENT	.1556	.1968		***	***	***		Continuous	Metered
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		Continuous	Metered
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	<2	<2		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	200 Geo Mean	1000 IMAX	No./100 ml	1/week	Grab

**COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	<3	5	lbs/day	***	<3	4	mg/L	1/week	24-Hr Composite
	PERMIT REQUIREMENT	53 Avg Mo	80 Wkly Avg		***	20 Avg Mo	30 Wkly Avg		1/week	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

NAME: WARWICK TWP WATER & SEW AUTH BUCKS CNTY

ADDRESS: PO BOX 3151733 TOWNSHIP GREENE, JAMISON, PA , 18929-0315

FACILITY: COUNTRY CROSSING STP

LOCATION: 1530 MEARNS RD, JAMISON, PA , 18929

STAGE: Raw Sewage Influent

PA0056421
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 10/01/2023

DMR Effective To: 10/31/2023

Permit Expires: 11/30/2024

Permit Application Due: 06/03/2024

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2023	10	01	FROM	2023	10	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Biochemical Oxygen Demand (BOD5) (00310)	SAMPLE MEASUREMENT		***		***		***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	2/month	24-Hr Composite
Total Suspended Solids (00530)	SAMPLE MEASUREMENT		***		***		***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT		***		***		***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/week	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

NAME: WARWICK TWP WATER & SEW AUTH BUCKS CNTY

ADDRESS: PO BOX 3151733 TOWNSHIP GREENE, JAMISON, PA , 18929-0315

FACILITY: COUNTRY CROSSING STP

LOCATION: 1530 MEARNS RD, JAMISON, PA , 18929

STAGE: Raw Sewage Influent

PA0056421
PERMIT NUMBER

002
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 10/01/2023

DMR Effective To: 10/31/2023

Permit Expires: 11/30/2024

Permit Application Due: 06/03/2024

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2023	10	01	FROM	2023	10	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Biochemical Oxygen Demand (BOD5) (00310)	SAMPLE MEASUREMENT	278	***		***	212	***		2/month	24-Hr Composite
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	2/month	24-Hr Composite
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	212	***		***	165	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	229	***		***	174	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/week	24-Hr Composite
Facility Comments										

ATTACHMENT DETAILS

FILE NAME	ATTACHMENT TYPE	UPLOADED TIME	ATTACHMENT COMMENT
CC Daily Oct 2023	Daily Effluent Monitoring Form	11/6/2023 1:51:53 PM	
CC Inf Process Oct 2023	Influent and Process Control Form	11/6/2023 1:52:17 PM	
CC Biosolids Oct 2023	Sewage Sludge / Biosolids Production and Disposal Form	11/6/2023 1:52:47 PM	

COMMENT DETAILS

COMMENTS	OPERATOR NAME	OPERATOR CERTIFICATION NUMBER	OPERATOR CONTACT NUMBER
	Daniel B. Ervin	T3504	(215)-343-3584

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

3800-FM-WSFR0436 7/2009

Facility Name: Country Crossing WWTP
Municipality: Warwick Township County: Bucks
Watershed: _____

Month: October Year: 2023
NPDES Permit No.: PA0056421
Renewal application due 180 days prior to expiration.
This permit will expire on: November 30, 2024

Day	Influent					Process Control				
	Flow (MGD)	BOD ₅ (mg/l)	BOD ₅ (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	0.1705							3,500.0		
2	0.1682							3,500.0		
3	0.1636							3,500.0		
4	0.152							3,500.0		
5	0.1527	153.0	195	146.0	186			3,500.0		
6	0.1746							3,500.0		
7	0.1713							3,500.0		
8	0.165							3,500.0		
9	0.1611							3,500.0		
10	0.152							3,500.0		
11	0.1508							3,500.0		
12	0.1501	304.0	381	316.0	396			3,500.0		
13	0.1766							3,500.0		
14	0.1357							3,500.0		
15	0.1564							3,500.0		
16	0.1509							3,500.0		
17	0.1394							3,500.0		
18	0.1592							3,500.0		
19	0.145	168.0	203	54.0	65			3,500.0		
20	0.1381							3,500.0		
21	0.1542							3,500.0		
22	0.1412							3,500.0		
23	0.1413							3,500.0		
24	0.1398							3,500.0		
25	0.1392							3,500.0		
26	0.1416	223.0	263	142.0	168			3,500.0		
27	0.1459							3,500.0		
28	0.1364							3,500.0		
29	0.149							3,500.0		
30	0.1488							3,500.0		
31	0.1291							3,500.0		
Avg	0.152	212	260	165	204			3,500		
Max	0.177	304	381	316	396			3,500		

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

Prepared By: Daniel B Ervin
Title: Director of Operations

License No.: T3504
Date: 11/6/2023



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

SUPPLEMENTAL REPORT
SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Facility Name: Country Crossing WWTP
Municipality: Warwick Township County: Bucks
Watershed: _____

Month: October Year: 2023
NPDES Permit No.: PA0056421
Renewal application due 180 days prior to expiration
This permit will expire on: November 30, 2024

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)

☐ Check here if there were no off-site removal events during the month

Date	Liquid Sewage Sludge/Biosolids Hauled Off-site			Dewatered Sewage Sludge/Biosolids Hauled Off-site			Sewage Sludge/Biosolids Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
10/4/23	6,000	4.00	1.001						
10/11/23	6,000	4.00	1.001						
10/18/23	6,000	4.00	1.001						
10/25/23	6,000	4.00	1.001						
TOTAL:			4.003	TOTAL:			TOTAL:		

SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION
(Identify all sites where biosolids or ash were disposed or land applied)

Site Name	Pottstown STP	DELCORA		
Municipality	Pottstown	City of Chester		
County	Montgomery	Deleware County		
DEP Permit No.	PA0026786	PA0027103		
Type of Material*	sewage sludge	sewage sludge		
Dry Tons Applied/Disposed	3.0	1.0		
Type of Disposal/Use*	landfill	landfill		
Hauler Name	United Services Inc.	United Services Inc		

* See Instructions for explanation.

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

Prepared By: **Daniel B Ervin**
Title: **Director of Operations**

License No.: T3504
Date: November 6, 2023

WARWICK TOWNSHIP WATER AND SEWER AUTHORITY

RAW SEWAGE PUMPING STATION REPORT - COUNTRY CROSSING S.T.P. AND COLLECTION SYSTEM

MONTH: October 2023

	CREEK ROAD	COUNTRY CROSSING	MEARNS ROAD
Pump Hours #1	104.0	51.0	43.0
Pump Hours #2	121.0	54.0	37.0
Hours Per Day			
Monthly Q (MG)	2.7180	1.4670	0.4510
Avg. Q (MGD)	0.0877	0.0473	0.0145

EFFLUENT METER FLOW:

	COUNTRY CROSSING	COMBINED FLOW FROM LIFT STATION HOUR METER
TOTAL MONTHLY (MG):	4.824	4.6360
AVERAGE DAILY (MG):	0.1556	0.1495
Percent deviation - Plant Flow Meter vs. Pumping Station Pump Hours as related to Flow Meter: (EFF METER - LIFT STATION FLOW) / L.S. FLOW)		
	4.06%	

FLOW FIGURES USED:

CREEK ROAD	464 GPM EACH	Metered
COUNTRY CROSSING	246 GPM EACH	Metered
MEARNS ROAD	129 GPM EACH	Metered

**M.J. Reider Associates, Inc.**ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003**Certificate of Analysis****Laboratory No.:** 2339053**Report:** 10/13/23**Lab Contact:** Richard A Wheeler**Attention:** Daniel Ervin
Reported To: Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929**Project Info:** Country Crossing Outfall ____ NPDES - wkly**Lab ID:** 2339053-01 **Collected By:** Client
Sample Desc: Country Crossing Influent (Composite)**Sampled:** 10/05/23 09:30 **Received:** 10/05/23 14:12
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	57.8	mg/l	0.40	EPA 350.1 Rev 2.0	10/05/23		JMW	
Biochemical Oxygen Demand	153	mg/l	2.0	SM 5210 B	10/06/23 13:34		EAK	
Carbonaceous Biochemical Oxygen Demand	117	mg/l	2.0	SM 5210 B	10/06/23 12:29		EAK	
Solids, Total Suspended	146	mg/l	1	SM 2540 D	10/06/23		ALD	

Lab ID: 2339053-02 **Collected By:** Client
Sample Desc: Country Crossing Effluent Outfall 001 (Composite)**Sampled:** 10/05/23 09:30 **Received:** 10/05/23 14:12
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	0.09	mg/l	0.02	EPA 350.1 Rev 2.0	10/05/23		JMW	2
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	10/06/23 12:57		KMS	20
Nitrate as N	3.40	mg/l	1.00	EPA 300.0 Rev 2.1	10/05/23 19:06		KCS	
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	10/05/23 19:06		KCS	
Nitrate+Nitrite as N	<3.50	mg/l	1.10	CALCULATED	10/05/23 19:06		KCS	
Nitrogen, Total	<4.32	mg/l	1.60	CALCULATED	10/07/23 2:04		SNF	
Nitrogen, Total Kjeldahl (TKN)	0.82	mg/l	0.50	EPA 351.2 Rev 2.0	10/07/23		SNF	
Phosphorus as P, Total	0.23	mg/l	0.01	SM 4500-P F	10/05/23		JMW	0.6
Solids, Total Suspended	1	mg/l	1	SM 2540 D	10/06/23		ALD	20



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Additional accreditations by MD (261)



M.J. Reider Associates, Inc.

Lab ID: 2339053-03 Collected By: Client
Sample Desc: Country Crossing Effluent Outfall 001 (Grab)

Sampled: 10/05/23 09:30 Received: 10/05/23 14:12
Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	Action Level
Microbiology									
Fecal Coliform	<2	/100ml	2	SM 9222 D	10/5/23 14:36	10/6/23 14:21		RMB	200

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2339053-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3J0406	10/05/2023	JMW



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003**Certificate of Analysis****Laboratory No.:** 2335739**Report:** 10/20/23**Lab Contact:** Richard A Wheeler**Attention:** Daniel Ervin
Reported To: Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929**Project Info:** Country Crossing Outfall ____ NPDES - wkly**Lab ID:** 2335739-01 **Collected By:** Client
Sample Desc: Country Crossing Influent (Composite)**Sampled:** 10/12/23 09:30 **Received:** 10/12/23 13:42
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	41.2	mg/l	0.40	EPA 350.1 Rev 2.0	10/16/23		JMW	
Biochemical Oxygen Demand	304	mg/l	2.0	SM 5210 B	10/13/23 11:40	B-01, B-02	EAK	
Carbonaceous Biochemical Oxygen Demand	266	mg/l	2.0	SM 5210 B	10/13/23 11:30		EAK	
Solids, Total Suspended	316	mg/l	1	SM 2540 D	10/16/23		ALD	

Lab ID: 2335739-02 **Collected By:** Client
Sample Desc: Country Crossing Effluent Outfall 001 (Composite)**Sampled:** 10/12/23 09:30 **Received:** 10/12/23 13:42
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	0.04	mg/l	0.02	EPA 350.1 Rev 2.0	10/12/23		JMW	2
Carbonaceous Biochemical Oxygen Demand	2.1	mg/l	2.0	SM 5210 B	10/13/23 9:55		KMS	20
Nitrate as N	3.84	mg/l	1.00	EPA 300.0 Rev 2.1	10/12/23 17:31		KCS	
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	10/12/23 17:31		KCS	
Nitrate+Nitrite as N	<3.94	mg/l	1.10	CALCULATED	10/12/23 17:31		KCS	
Nitrogen, Total	<4.56	mg/l	1.60	CALCULATED	10/13/23 18:24		SNF	
Nitrogen, Total Kjeldahl (TKN)	0.62	mg/l	0.50	EPA 351.2 Rev 2.0	10/13/23		SNF	
Phosphorus as P, Total	0.18	mg/l	0.01	SM 4500-P F	10/12/23		JMW	0.6
Solids, Total Suspended	2	mg/l	1	SM 2540 D	10/16/23		ALD	20



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M.J. Reider Associates, Inc.

Lab ID: 2335739-03 Collected By: Client
Sample Desc: Country Crossing Effluent Outfall 001 (Grab)

Sampled: 10/12/23 09:30 Received: 10/12/23 13:42
Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	Action Level
Microbiology									
Fecal Coliform	<2	/100ml	2	SM 9222 D	10/12/23 15:17	10/13/23 13:51		RMB	200

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2335739-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3J0866	10/12/2023	JMW

Notes and Definitions

- B-01 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L.
B-02 The Glucose-Glutamic Acid check was above the acceptable criteria of 198 ± 30.5 mg/L.



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003**Certificate of Analysis****Laboratory No.:** 2340976**Report:** 10/31/23**Lab Contact:** Richard A Wheeler**Attention:** Daniel Ervin
Reported To: Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929**Project Info:** Country Crossing Outfall ____ NPDES - wkly**Lab ID:** 2340976-01 **Collected By:** Client
Sample Desc: Country Crossing Influent (Composite)**Sampled:** 10/19/23 09:30 **Received:** 10/19/23 15:20
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	65.2	mg/l	0.40	EPA 350.1 Rev 2.0	10/23/23		JMW	
Biochemical Oxygen Demand	168	mg/l	2.0	SM 5210 B	10/20/23 12:05		KMS	
Carbonaceous Biochemical Oxygen Demand	150	mg/l	2.0	SM 5210 B	10/20/23 11:05		KMS	
Solids, Total Suspended	54	mg/l	1	SM 2540 D	10/20/23		ALD	

Lab ID: 2340976-02 **Collected By:** Client
Sample Desc: Country Crossing Effluent Outfall 001 (Composite)**Sampled:** 10/19/23 09:30 **Received:** 10/19/23 15:20
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	0.05	mg/l	0.02	EPA 350.1 Rev 2.0	10/20/23		JMW	2
Carbonaceous Biochemical Oxygen Demand	2.5	mg/l	2.0	SM 5210 B	10/20/23 17:02	B-04	KMD	20
Nitrate as N	4.78	mg/l	1.00	EPA 300.0 Rev 2.1	10/20/23 16:31		KCS	
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	10/20/23 16:31		KCS	
Nitrate+Nitrite as N	<4.88	mg/l	1.10	CALCULATED	10/20/23 16:31		KCS	
Nitrogen, Total	<5.66	mg/l	1.60	CALCULATED	10/20/23 17:31		SNF	
Nitrogen, Total Kjeldahl (TKN)	0.78	mg/l	0.50	EPA 351.2 Rev 2.0	10/20/23		SNF	
Phosphorus as P, Total	0.16	mg/l	0.01	SM 4500-P F	10/20/23		JMW	0.6
Solids, Total Suspended	1	mg/l	1	SM 2540 D	10/20/23		ALD	20



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M.J. Reider Associates, Inc.

Lab ID: 2340976-03 **Collected By:** Client
Sample Desc: Country Crossing Effluent Outfall 001 (Grab)

Sampled: 10/19/23 09:30 **Received:** 10/19/23 15:20
Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	Action Level
Microbiology									
Fecal Coliform	<2	/100ml	2	SM 9222 D	10/19/23 16:04	10/20/23 14:34		MAC	200

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2340976-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3J1384	10/20/2023	JMW

Notes and Definitions

B-04 The difference between the highest and lowest results were greater than 30%.



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003**Certificate of Analysis****Laboratory No.:** 2341903**Report:** 11/03/23**Lab Contact:** Richard A Wheeler**Attention:** Daniel Ervin**Reported To:** Warwick Twp. Water & Sewer Authority

PO Box 315

Jamison, PA 18929

Project Info: Country Crossing Outfall ____ NPDES - wkly**Lab ID:** 2341903-01**Collected By:** Client**Sampled:** 10/26/23 09:30**Received:** 10/26/23 13:31**Sample Desc:** Country Crossing Influent (Composite)**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	53.4	mg/l	0.40	EPA 350.1 Rev 2.0	10/30/23		JMW	
Biochemical Oxygen Demand	223	mg/l	2.0	SM 5210 B	10/27/23 14:49	B-01, B-03	KMS	
Carbonaceous Biochemical Oxygen Demand	164	mg/l	2.0	SM 5210 B	10/27/23 13:55	B-03	KMS	
Solids, Total Suspended	142	mg/l	1	SM 2540 D	10/27/23		ALD	

Lab ID: 2341903-02**Collected By:** Client**Sampled:** 10/26/23 09:30**Received:** 10/26/23 13:31**Sample Desc:** Country Crossing Effluent Outfall 001 (Composite)**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	0.04	mg/l	0.02	EPA 350.1 Rev 2.0	10/26/23		JMW	2
Carbonaceous Biochemical Oxygen Demand	3.6	mg/l	2.0	SM 5210 B	10/27/23 12:22	B-04	KMS	20
Nitrate as N	5.18	mg/l	1.00	EPA 300.0 Rev 2.1	10/26/23 16:36		KCS	
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	10/26/23 16:36		KCS	
Nitrate+Nitrite as N	<5.28	mg/l	1.10	CALCULATED	10/26/23 16:36		KCS	
Nitrogen, Total	<6.14	mg/l	1.60	CALCULATED	10/27/23 13:57		JMW	
Nitrogen, Total Kjeldahl (TKN)	0.86	mg/l	0.50	EPA 351.2 Rev 2.0	10/27/23		JMW	
Phosphorus as P, Total	0.17	mg/l	0.01	SM 4500-P F	10/26/23		JMW	0.6
Solids, Total Suspended	2	mg/l	1	SM 2540 D	10/27/23		ALD	20



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M.J. Reider Associates, Inc.

Lab ID: 2341903-03 Collected By: Client Sampled: 10/26/23 09:30 Received: 10/26/23 13:31
Sample Desc: Country Crossing Effluent Outfall 001 (Grab) Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	Action Level
Microbiology									
Fecal Coliform	<2	/100ml	2	SM 9222 D	10/26/23 14:48	10/27/23 13:48		RMB	200

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2341903-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3J1834	10/26/2023	JMW

Notes and Definitions

- B-01 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L.
B-03 The Glucose-Glutamic Acid check was below the acceptable criteria of 198 ± 30.5 mg/L.
B-04 The difference between the highest and lowest results were greater than 30%.

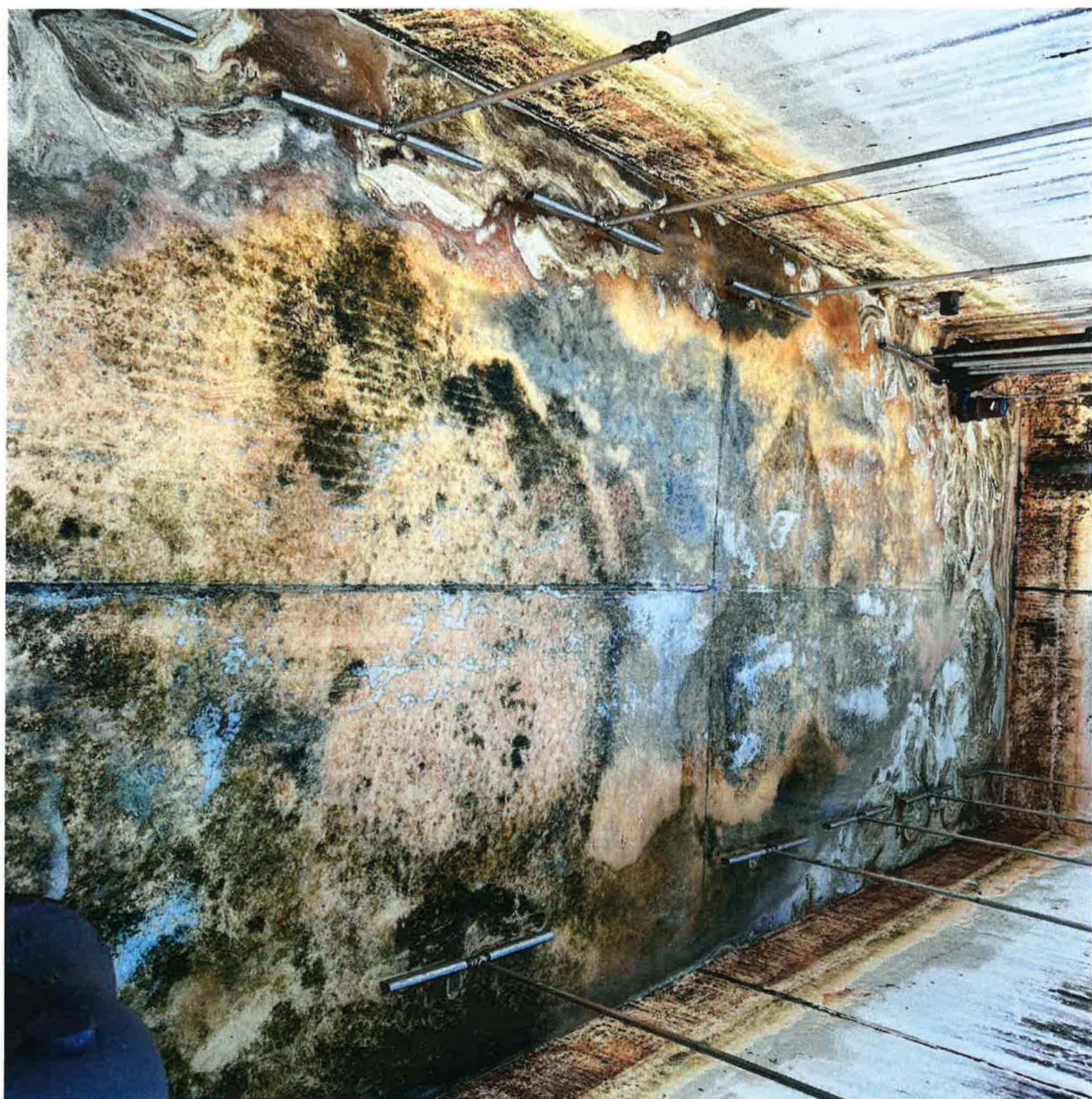


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**WARWICK TOWNSHIP
WATER AND SEWER AUTHORITY**

Operation report for the month of October 2023

This is the monthly report for the operation of the Fishcreek Wastewater Treatment Plant and the collection system for the month of October 2023. It includes the analysis reports, the monthly report to the PADEP and the NPDES Discharge Monitoring Report.

During the month we treated 18.57 MG of raw sewage at the Fishcreek Treatment Plant. This is a daily average of 0.59 MGD. Peak flow for the month was 0.921 MGD. Minor changes to the treatment plant program were made to ensure all permit requirements would be met.

Cobra Environmental performed routine cleaning of all sewage pump stations.

Motors were replaced for SBR 3A and Secondary Digester. New motors are VFD compatible. This will increase life of motors moving forward.

Operations building construction is scheduled to start November 6th. Total construction time will be 4-5 weeks.

Throughout the month routine maintenance was performed on all equipment and facilities associated with this wastewater system.

Sincerely,

A handwritten signature in black ink, appearing to read 'Daniel B. Ervin'.

Daniel B. Ervin
Director of Operations
License #T3504

Facility Name: Fishcreek STP
Municipality: Warwick County: Bucks
Watershed: 2-F
Laboratories: MJ Reider

Month: 10 (select number) Year: 2023
 Permit No.: PA0050148 Outfall: 001
 Renewal application due 180 days prior to expiration.
 This permit will expire on: March 31, 2027

[illegible]

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

Prepared By: Daniel B. Ervin
Title: Director of Operations

License No.: T3504
Date: 11/6/2023



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DISCHARGE MONITORING REPORT (DMR)

NAME: WARWICK TWP WATER & SEW AUTH BUCKS CNTYADDRESS: 1733 TOWNSHIP GREENE, JAMISON, PA , 18929FACILITY: FISH CREEK STPLOCATION: 1980 DEER RUN DRIVE, JAMISON, PA , 18929STAGE: Final Effluent

PA0050148

PERMIT NUMBER

001

OUTFALL NUMBER

Reporting Frequency: MonthlyDMR Effective From: 10/01/2023DMR Effective To: 10/31/2023Permit Expires: 03/31/2027Permit Application Due: 10/02/2026No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	10	01	FROM	2023	10	31 TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***		6.0	***	***		1/day	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	***	mg/L	1/day	Grab
pH (00400)	SAMPLE MEASUREMENT	***	***		6.9	***	7.8		1/day	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/day	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	<9	16		***	<2	3		1/week	24-Hr Composite
	PERMIT REQUIREMENT	212 Avg Mo	319 Wkly Avg	lbs/day	***	30 Avg Mo	45 Wkly Avg	mg/L	1/week	24-Hr Composite
Total Nitrogen (00600)	SAMPLE MEASUREMENT	<23	***		***	<3.91	***		1/month	Calculation
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/month	Calculation
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	.7	***		***	.1	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	10.6 Avg Mo	***	lbs/day	***	1.5 Avg Mo	***	mg/L	1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	SAMPLE MEASUREMENT	<3	***		***	<.5	***		1/month	24-Hr Composite
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/month	24-Hr Composite
Nitrate-Nitrite as N (00630)	SAMPLE MEASUREMENT	22.7	***		***	4.5	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	67.4 Avg Mo	***	lbs/day	***	9.5 Avg Mo	***	mg/L	1/week	24-Hr Composite

**COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Phosphorus (00665)	SAMPLE MEASUREMENT	2	***	lbs/day	***	.4	***	mg/L	1/week	24-Hr Composite
	PERMIT REQUIREMENT	8.5 Avg Mo	***		***	1.2 Avg Mo	***		1/week	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.599	.921	MGD	***	***	***		Continuous	Metered
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Metered
E. Coli (51040)	SAMPLE MEASUREMENT	***	***		***	***	<1	No./100 ml	1/month	Grab
	PERMIT REQUIREMENT	***	***		***	***	Monitor & Report IMAX		1/month	Grab
Ultraviolet light transmittance (51043)	SAMPLE MEASUREMENT	***	***		90	***	***	%	1/week	Measured
	PERMIT REQUIREMENT	***	***		Monitor & Report Daily Min	***	***		1/week	Measured
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	<2	<2	No./100 ml	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	200 Geo Mean	1000 IMAX		1/week	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	<10	<12	lbs/day	***	<2	<2	mg/L	1/week	24-Hr Composite
	PERMIT REQUIREMENT	106 Avg Mo	163 Wkly Avg		***	15 Avg Mo	23 Wkly Avg		1/week	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

NAME: WARWICK TWP WATER & SEW AUTH BUCKS CNTY

ADDRESS: 1733 TOWNSHIP GREENE, JAMISON, PA , 18929

FACILITY: FISH CREEK STP

LOCATION: 1980 DEER RUN DRIVE, JAMISON, PA , 18929

STAGE: Raw Sewage Influent

PA0050148
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 10/01/2023

DMR Effective To: 10/31/2023

Permit Expires: 03/31/2027

Permit Application Due: 10/02/2026

No Discharge: ☐

MONITORING PERIOD								
YEAR		MO	DAY		YEAR		MO	DAY
2023		10	01		2023		10	31

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Biochemical Oxygen Demand (BOD5) (00310)	SAMPLE MEASUREMENT	1105	***		***	221	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/week	24-Hr Composite
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	1201	***		***	240	***		1/week	24-Hr Composite
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	***	lbs/day	***	Monitor & Report Avg Mo	***	mg/L	1/week	24-Hr Composite
Facility Comments										

ATTACHMENT DETAILS

FILE NAME	ATTACHMENT TYPE	UPLOADED TIME	ATTACHMENT COMMENT
FC Daily Oct 2023	Daily Effluent Monitoring Form	11/6/2023 1:42:04 PM	
FC Inf Process 2023	Influent and Process Control Form	11/6/2023 1:42:57 PM	
FC Biosolids Oct 2023	Sewage Sludge / Biosolids Production and Disposal Form	11/6/2023 1:42:31 PM	

COMMENT DETAILS

COMMENTS	OPERATOR NAME	OPERATOR CERTIFICATION NUMBER	OPERATOR CONTACT NUMBER
	Daniel B. Ervin	T3504	(215)-343-3584

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

3800-FM-WSFR0436 7/2009

Facility Name: Fish Creek STP
Municipality: Warwick Township County: Bucks
Watershed: _____

Month: October Year: 2023
NPDES Permit No.: PA 0050148
Renewal application due 180 days prior to expiration.
This permit will expire on: March 31, 2027

Day	Influent					Process Control				
	Flow (MGD)	BOD ₅ (mg/l)	BOD ₅ (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	0.651							15,000.0		
2	0.609							15,000.0		
3	0.605							15,000.0		
4	0.469							15,000.0		
5	0.586	169.0	826	182.0	889			15,000.0		
6	0.518							15,000.0		
7	0.532							15,000.0		
8	0.545							15,000.0		
9	0.543							15,000.0		
10	0.499							15,000.0		
11	0.509							15,000.0		
12	0.492	253.0	1,038	293.0	1,202			15,000.0		
13	0.576							15,000.0		
14	0.555							15,000.0		
15	0.658							15,000.0		
16	0.55							15,000.0		
17	0.524							15,000.0		
18	0.534							15,000.0		
19	0.519	164.0	710	200.0	866			15,000.0		
20	0.456							15,000.0		
21	0.527							15,000.0		
22	0.518							15,000.0		
23	0.507							15,000.0		
24	0.483							15,000.0		
25	0.481							15,000.0		
26	0.499	296.0	1,232	284.0	1,182			15,000.0		
27	0.516							15,000.0		
28	0.448							15,000.0		
29	0.529							15,000.0		
30	0.48							15,000.0		
31	0.455							15,000.0		
Avg	0.528	221	951	240	1,035			15,000		
Max	0.658	296	1,232	293	1,202			15,000		

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

Prepared By: Daniel B Ervin
Title: Director of Operations

License No.: T3504
Date: 11/6/2023

SUPPLEMENTAL REPORT
SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Month: October Year: 2023
NPDES Permit No.: PA0050148
Renewal application due 180 days prior to expiration
This permit will expire on: March 31, 2027

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)

☐ Check here if there were no off-site removal events during the month

SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION
(Identify all sites where biosolids or ash were disposed or land applied)

Site Name	Pottstown STP	DELCORA		
Municipality	Pottstown	City of Chester		
County	Montgomery	Deleware		
DEP Permit No.	PA0026786	PA0027103		
Type of Material*	sewage sludge	sewage sludge		
Dry Tons Applied/Disposed	22.7	27.0		
Type of Disposal/Use*	landfill	landfill		
Hauler Name	Windriver	Windriver		

* See Instructions for explanation.

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

Prepared By: **Daniel B Ervin**
Title: **Director of Operations**

License No.: **T3504**
Date: **November 6, 2023**

WARWICK TOWNSHIP WATER AND SEWER AUTHORITY

RAW SEWAGE PUMPING STATION REPORT - FISHCREEK S.T.P. AND COLLECTION SYSTEM

MONTH: October 2023

	VALLEY ROAD	MT. VIEW II	YARD PUMPING*	MEETING HOUSE	H' POND EAST	H' POND WEST	MILL/DEER RUN	MAIN	Bridge Valley	Ridings of Warwick
Pump Hours #1	43.0	40.0	19.8	69.0	28.0	22.0	39.0	91.6	24.0	64.0
Pump Hours #2	55.0	39.0	23.5	69.0	34.0	7.0	49.0	88.2	26.0	57.0
Pump Hours #3								102.0		
Hours Per Day										
Monthly Q (MG)	3.0658	0.8856	1.5068	1.5969	0.3610	1.2113	1.3906	17.584	0.299	1.224
Avg. Q (MGD)	0.0989	0.0286	0.0486	0.0515	0.0116	0.0391	0.0449	0.5672	0.0097	0.0395

*Includes the decant water from the digesters

EFFLUENT METER FLOW: **FISHCREEK**

TOTAL MONTHLY (MG): **18.573**

AVERAGE DAILY (MG): **0.599**

Percent deviation - Plant Flow Meter vs. Pumping Station Pump Hours as related to Flow Meter:

(EFF METER - MAIN) / MAIN)

(EXCLUDING COUNTRY CROSSING) **6%**

FLOW FIGURES USED:

RIDINGS	105 GPM EACH	(Metered)
VALLEY	282 GPM EACH	(Metered)
MOUNTAIN	131 GPM EACH	(Metered)
YARD PUMPING	580 GPM EACH	
MEETING HOUSE	215 GPM EACH	
H' POND EAST	130 GPM EACH	
H' POND WEST	190 GPM EACH	metered
MILL RIDGE	233 GPM EACH	metered
MAIN	1040 GPM EACH	
BRIDGE VALLEY	289 GPM EACH	Metered

**M.J. Reider Associates, Inc.**ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003**Certificate of Analysis****Laboratory No.:** 2339054**Report:** 10/13/23**Lab Contact:** Richard A Wheeler**Attention:** Daniel Ervin**Reported To:** Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929**Project Info:** Fish Creek NPDES - mnthly**Lab ID:** 2339054-01**Collected By:** Client**Sampled:** 10/05/23 09:30**Received:** 10/05/23 14:12**Sample Desc:** Fish Creek Influent (Composite)**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	48.8	mg/l	0.40	EPA 350.1 Rev 2.0	10/05/23		JMW	
Biochemical Oxygen Demand	169	mg/l	2.0	SM 5210 B	10/06/23 11:30		KMS	
Solids, Total Suspended	182	mg/l	1	SM 2540 D	10/06/23		ALD	

Lab ID: 2339054-02**Collected By:** Client**Sampled:** 10/05/23 09:30**Received:** 10/05/23 14:12**Sample Desc:** Fish Creek Effluent (Composite)**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	0.04	mg/l	0.02	EPA 350.1 Rev 2.0	10/05/23		JMW	1.5
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	10/06/23 12:57		KMS	15
Total Nitrate-Nitrite	3.41	mg/l	0.40	EPA 353.2 Rev 2.0	10/05/23		NJG	
Nitrogen, Total	<3.91	mg/l	0.500	CALCULATED	10/07/23		NJG	
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	10/07/23		SNF	
Phosphorus as P, Total	0.18	mg/l	0.01	SM 4500-P F	10/05/23		JMW	1.2
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	10/06/23		ALD	30
Total Metals								
Aluminum	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	10/10/23		HRG	
Iron	0.05	mg/l	0.02	EPA 200.7 Rev 4.4	10/10/23		HRG	



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Additional accreditations by MD (261)



M.J. Reider Associates, Inc.

Lab ID: 2339054-03 Collected By: Client Sampled: 10/05/23 09:30 Received: 10/05/23 14:12
Sample Desc: Fish Creek Effluent (Grab) Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	Action Level
Microbiology									
Escherichia coli	<1	mpn/100ml	1	SM 9223	10/5/23	10/6/23		MAC	
				B/Quantitray	15:46	10:05			
Fecal Coliform	<2	/100ml	2	SM 9222 D	10/5/23	10/6/23		RMB	200
					14:36	14:21			

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2339054-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3J0406	10/05/2023	JMW
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3J0446	10/06/2023	HRG



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003**Certificate of Analysis****Laboratory No.:** 2340064**Report:** 10/20/23**Lab Contact:** Richard A Wheeler**Attention:** Daniel Ervin**Project Info:** Fish Creek NPDES - wkly**Reported To:** Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929**Lab ID:** 2340064-01 **Collected By:** Client
Sample Desc: Fish Creek Influent (Composite)**Sampled:** 10/12/23 09:30 **Received:** 10/12/23 13:42
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	33.0	mg/l	0.40	EPA 350.1 Rev 2.0	10/13/23		JMW	
Biochemical Oxygen Demand	253	mg/l	2.0	SM 5210 B	10/13/23 11:24		ZJB	
Solids, Total Suspended	293	mg/l	1	SM 2540 D	10/13/23		ALD	

Lab ID: 2340064-02 **Collected By:** Client
Sample Desc: Fish Creek Effluent (Composite)**Sampled:** 10/12/23 09:30 **Received:** 10/12/23 13:42
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	0.08	mg/l	0.02	EPA 350.1 Rev 2.0	10/12/23		JMW	1.5
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	10/13/23 9:55		KMS	15
Total Nitrate-Nitrite	4.35	mg/l	0.40	EPA 353.2 Rev 2.0	10/17/23		NJG	
Phosphorus as P, Total	0.26	mg/l	0.01	SM 4500-P F	10/12/23		JMW	1.2
Solids, Total Suspended	2	mg/l	1	SM 2540 D	10/13/23		ALD	30

Lab ID: 2340064-03 **Collected By:** Client
Sample Desc: Fish Creek Effluent (Grab)**Sampled:** 10/12/23 09:30 **Received:** 10/12/23 13:42
Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	Action Level
Microbiology									
Fecal Coliform	<2	/100ml	2	SM 9222 D	10/12/23 14:18	10/13/23 13:51		RMB	200



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003**Certificate of Analysis****Laboratory No.:** 2340977**Report:** 10/31/23**Lab Contact:** Richard A Wheeler**Attention:** Daniel Ervin
Reported To: Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929**Project Info:** Fish Creek NPDES - wkly**Lab ID:** 2340977-01 **Collected By:** Client
Sample Desc: Fish Creek Influent (Composite)**Sampled:** 10/19/23 09:30 **Received:** 10/19/23 15:20**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	32.6	mg/l	0.40	EPA 350.1 Rev 2.0	10/23/23		JMW	
Biochemical Oxygen Demand	164	mg/l	2.0	SM 5210 B	10/20/23 12:40	B-04	KMS	
Solids, Total Suspended	200	mg/l	1	SM 2540 D	10/23/23		ALD	

Lab ID: 2340977-02 **Collected By:** Client
Sample Desc: Fish Creek Effluent (Composite)**Sampled:** 10/19/23 09:30 **Received:** 10/19/23 15:20**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	0.02	mg/l	0.02	EPA 350.1 Rev 2.0	10/20/23		JMW	1.5
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	10/20/23 13:58		KMS	15
Total Nitrate-Nitrite	5.18	mg/l	0.40	EPA 353.2 Rev 2.0	10/20/23		NJG	
Phosphorus as P, Total	0.60	mg/l	0.01	SM 4500-P F	10/20/23		JMW	1.2
Solids, Total Suspended	3	mg/l	1	SM 2540 D	10/23/23		ALD	30

Lab ID: 2340977-03 **Collected By:** Client
Sample Desc: Fish Creek Effluent (Grab)**Sampled:** 10/19/23 09:30 **Received:** 10/19/23 15:20**Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	Action Level
Microbiology									
Fecal Coliform	<2	/100ml	2	SM 9222 D	10/19/23 16:24	10/20/23 14:34		MAC	200

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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003**Certificate of Analysis****Laboratory No.:** 2341904**Report:** 11/03/23**Lab Contact:** Richard A Wheeler**Attention:** Daniel Ervin**Reported To:** Warwick Twp. Water & Sewer Authority
PO Box 315
Jamison, PA 18929**Project Info:** Fish Creek NPDES - wkly**Lab ID:** 2341904-01 **Collected By:** Client
Sample Desc: Fish Creek Influent (Composite)**Sampled:** 10/26/23 09:30 **Received:** 10/26/23 13:31**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	33.8	mg/l	0.40	EPA 350.1 Rev 2.0	10/30/23		JMW	
Biochemical Oxygen Demand	296	mg/l	2.0	SM 5210 B	10/27/23 14:00		KMS	
Solids, Total Suspended	284	mg/l	1	SM 2540 D	10/27/23		ALD	

Lab ID: 2341904-02 **Collected By:** Client
Sample Desc: Fish Creek Effluent (Composite)**Sampled:** 10/26/23 09:30 **Received:** 10/26/23 13:31**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	Action Level
General Chemistry								
Ammonia as N	0.42	mg/l	0.02	EPA 350.1 Rev 2.0	10/26/23		JMW	1.5
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	10/27/23 12:22		KMS	15
Total Nitrate-Nitrite	4.93	mg/l	0.40	EPA 353.2 Rev 2.0	10/27/23	Q-10	NJG	
Phosphorus as P, Total	0.53	mg/l	0.01	SM 4500-P F	10/26/23		JMW	1.2
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	10/27/23		ALD	30

Lab ID: 2341904-03 **Collected By:** Client
Sample Desc: Fish Creek Effluent (Grab)**Sampled:** 10/26/23 09:30 **Received:** 10/26/23 13:31**Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	Action Level
Microbiology									
Fecal Coliform	<2	/100ml	2	SM 9222 D	10/26/23 14:48	10/27/23 13:48		RMB	200

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Additional accreditations by MD (261)



WARWICK TOWNSHIP WATER & SEWER AUTHORITY

BILL OF SALE

Sold To:
Brent Zeiders

DATE: October 25, 2023

DESCRIPTION:

2002 Sterling
VIN# 12FZAATAK12AK93890
Title# 57373743602 WA

AMOUNT: \$8,000.00

Sold As Is/Where Is

Transportation is the responsibility of buyer.

Terms: Cash or Certified Check Due on Receipt

Payable to: Warwick Township Water & Sewer Authority
P.O. Box 315
Jamison, PA 18929

Truck and Title Received by: _____

A handwritten signature in black ink, appearing to be "BA 31", is written over a horizontal line.

BILL OF SALE

Sold To:
Gavin Lingo

DATE: November 8, 2023

DESCRIPTION:

2009 Ford F250
VIN# IFDNF215X9EA40818
Title# 67012400401 WA

AMOUNT: \$8,000.00

Sold As Is/Where Is

Transportation is the responsibility of buyer.

Terms: Cash or Certified Check Due on Receipt

Payable to: Warwick Township Water & Sewer Authority
P.O. Box 315
Jamison, PA 18929

Truck and Title Received by: _____





Intrusion

Warwick Township Water and Sewer Authority

Proposed to:

Dan Ervin

dervin@wtwsa.org

Submitted by:

Isaiah Lewis-Harris

Senior Account Executive

ilewis@accesssecurity.com

(267) 983-5036

The data contained in all pages of this proposal has been submitted in confidence and contains trade secrets and/or privileged or confidential commercial or financial information. Such data shall be used or disclosed only for evaluation purposes, provided a contract is awarded to this proposer as a result of or in connection with the submission of this proposal, the Customer shall have the right to use or disclose the data herein to the extent provided in the contract. This restriction does not limit the Customer's right to use or disclose data obtained without restriction from any source, including the proposer.



October 03, 2023

Dan Ervin
Warwick Township Water and Sewer Authority
1530 Mearns Rd
Warminster, PA

Re: Intrusion

Dear Dan,

Access Security is pleased to have the opportunity to submit our proposal for your review. The information provided herein is our response to your request for a proposal to install a new DMP Intrusion and Fire Alarm System at Warwick Township Water and Sewer Authority

This proposal has been organized to address the technical requirements identified during our walk through.

I look forward to working with you throughout the approval process and making sure all of your security needs are met. Please contact me if you have any questions regarding our proposal or any of the supporting documentation.

Sincerely,

Isaiah Lewis-Harris
Senior Account Executive
Access Security Corp.

Executive Summary

Our company is an experienced Security Systems Integrator, with more than fifteen years of experience in implementing Access Control, Photo ID Badging, and Closed Circuit Television Systems, integrated into Command and Control Centers. We have an established track record of successful project completion with a broad range of satisfied clients including, Colonial School District, Penn's Landing, and ADP.

Based upon your request for a proposal, we have identified that you need a strong security provider to supply an Integrated Security System. The security partnership will serve two major purposes. First, it will provide a single source for all security service requests. Access Security provides you with:

- 24/7 Live Receptionist to place service requests
- Local Company with Dedication to Quality Products and Service
- In-house Service Technicians available 365 days a year

Second, Access Security will be able to complete all new installations and any upgrades to the security systems that Warwick Township Water and Sewer Authority may need utilizing our in-house technician staff. (NO SUBCONTRACTORS)

The Technical Service Solution

Access Security is uniquely qualified to meet the Warwick Township Water and Sewer Authority needs. Our standardized approach to service utilizes in-house certified technicians to reduce costs.

- **Certified Technical Staff.** Access Security ensures that our service technicians are best in class. Each service technician receives a minimum of 50 hours of continuing education along with certification class of each of our partner manufacturers. This ensures that if you have a service call it is resolved quickly and efficiently, saving both time and money.
- **Standardized Quality Products.** Access Security has standardized its product line to include only products that provide the highest performance and offer our clients the greatest return on investment. Utilizing standard, high quality products ensures that our systems work properly and our technicians are well versed and certified on the products we have installed.

Access Security's technical knowledge and customer centric service solution, combined with our in-house infrastructure, is why Access Security Corp. is the best value, and the risk-free choice to meet the needs of Warwick Township Water and Sewer Authority.

Corporate Overview

Access Security Corp. is a Security Systems Integration firm with over fifteen years of experience in the quality design, assembly, testing, installation, maintenance, and management of high-level Integrated Security Systems for commercial, industrial, and government agency projects.

Our success in the marketplace has evolved from experience of structuring our company's services and resources to meet the needs of the security industry. This calls for an infrastructure capability of delivering systems within the allocated time schedule, and within the client's budget. Most important, since security systems never sleep, our resources also must be readily available to resolve problems quickly, 24 hours a day, 7 days a week.

We are uniquely qualified to perform this project for your organization for several reasons:

1. Feature: Proven Track Record

We have been in business since 1972 and have designed and installed multiple systems for a broad range of clients, including St. Joseph's University, Holy Redeemer Hospital, and Charles River Laboratories.

Benefit: When it comes to understanding and meeting security requirements, there is no substitute for experience. We have been there before and know how to install these systems while meeting your time schedule requirements and avoiding disruption to your daily operations.



2. Feature: Brand Name Equipment from Industry Leaders

Access Security only uses the finest security equipment manufacturers such as: Exacq, Samsung, S2 Security, and Digital Monitoring Products (DMP) to ensure that our systems have a long life expectancy and manufacturers will be around to stand behind their warranty.

Benefit: Buying a security system means entering into a long-term relationship. Making sure that the manufacturer will be around to support the warranty is critical when selecting a system.

3. Feature: Financial Stability

Our company, with over 40 years in business, has been through the ups and downs of the economy and has been consistently profitable, and has the ability to meet all project requirements, large or small.

Benefit: Buying a security system means entering into a long-term relationship. Typically this is a partnership that will last more than ten years. We have the financial fortitude and strength to grow with your organization. Our proven track record of existing customers and years of service makes Access Security an excellent security partner for your organization.

4. Feature: Maintenance Services

We will perform maintenance and warranty work on all components of your system using our own technicians and software engineers. We have developed in-house experts so our clients do not have to wait for a manufacturer's representative to resolve their problems.

Benefit: Access to in-house technical resources will enable us to affect repair quickly, resolving your problems as your single-source supplier. Quick problem resolution will minimize disruption and inconvenience to your daily routine.

5. Feature: Experienced Personnel Resources

We maintain an extensive infrastructure of qualified and factory certified personnel. In-house technicians and experienced technical IT staff are trained regularly on the ever changing security products and industry solutions.

Benefit: This enables us to become a single turnkey source for meeting all your security needs. Our experienced labor pool of technical personnel allows us to resolve problems quickly, and cost-effectively, reducing the overall costs of the system delivery.

6. Feature: Customer Demonstrations

As the saying goes, "A picture is worth a thousand words." Access Security offers excellent product demonstrations, whether it is cameras, digital video recorders, or access control software. Demonstrations are offered at our facility or at your site.

Benefit: These demonstrations ensure that your system will meet your expectations. Seeing exactly how the system will perform and how it will be used makes all of the difference.



Understanding Your Security Needs

Based upon our review of your needs, your organization has a requirement to provide an Integrated Security System for its facilities.

The general security system requirements as understood by Access Security are as follows:

Provide and Install an Integrated Security System. The system should be capable of meeting the rigid performance standards as discussed in our meeting and outlined in your RFP as well as provide flexibility for your organization.

Be Highly Reliable, Easy to Maintain System. Since your organization will be automating security functions, the new integrated security system must be highly reliable, with a demonstrated track record of performance.

Deliver Reliable Service Support. The Maintenance Services for both hardware and software elements of the system should be designed to provide quick response to a service problem, with a maximum downtime of twenty-four (24) hours or less.

Avoid Disruption of Working Environment. Most of the work will be performed in space currently occupied by your organization's employees. Disruption to daily business activities, such as noise or physical impediments, is not acceptable.

Adhere to Project Schedule and Phasing. Time is of the essence. The system must be installed within the established time schedule.

Be Modularly Expandable. The system should be modularly expandable, both via software and hardware, to accommodate future growth without making the head-end server or software obsolete.

Provide Ease of Use. The system should be easy to use, enabling Operators to quickly learn system operation without referring to manuals. The entire process should be accompanied by a well-conceived training program specifically structured for the system purpose.

DMP Intrusion Alarm System

Access Security will provide a new DMP Intrusion and Fire alarm system. The Panel will be connected to a network for primary communication and a cellular unit as its back-up path. New Burglar Alarm Devices will be provided as outlined below.

1530 Mearns Rd.

Keypads to be replaced at the following locations:

- Front Entrance

All man doors to have door contacts replaced

All devices to be rewired back to control panel

! [Existing motion sensors, and fire devices to be used and assumed to be in proper working order. If new equipment is needed a change order will be required.

Panel to be programmed by Access Security

Monitoring to be done by Access Security Central Monitoring Station and to be billed quarterly

1980 Deer Run Dr.

Keypads to be replaced at the following locations:

- Front Entrance

! [All existing intrusion and fire alarm devices and wiring to be used and assumed to be in proper working order. If new equipment is needed a change order will be required

Panel to be programmed by Access Security

Notes:

- Network connection provided by others

Maintenance and Support Services

Our Approach to Service

By purchasing a security system, you are investing in technology to help automate your security operations and lower your operating costs. We recognize that your system is an "automation" system and, as a result, have designed our Service Department accordingly, with the primary focus on minimizing system downtime.

As part of our scope of work, Access Security will perform maintenance on all components of your system using our own certified technical resources. We have developed our own in-house expertise to increase our ability to resolve problems quickly, independent of a manufacturer's representative, which may be located in a remote part of the country. We are your local single point of responsibility. Our approach to system documentation is second to none. Our documentation includes as built CAD drawings and detailed spreadsheets that all of technicians to support any size system.

Technical Resources

To meet your service needs, we have equipped our Service Department with the following technical resources:

In-house Technical Work Force. Over the years, we have developed and nurtured a group of technical personnel who are trained in servicing Integrated Security Systems. We continually train our personnel to keep them current in the best techniques to service our systems.

Spare Parts Inventory. To provide quick service, we maintain an extensive inventory of loaner replacement equipment. This enables us to bring your system online without waiting for replacement parts from our suppliers, who may be located in remote parts of the country.



Blue Diamond Customer Protection Plan

Schedule of Service

Availability:	Seven days a week, 24 hours a day.
Response Time Range:	Two to Four working hours following receipt of a service call. An authorized person must place the call.
Response Status:	Priority Response
Defect Correctable Response Time:	Defective equipment will be replaced with loaner equipment from our Service Pool. Resolution of the problem will be within 24 hours following the receipt of a service call.
Parts Coverage:	All parts are covered as part of this plan.
Labor Coverage:	All labor is covered under this plan.
Instant Loaner:	We maintain a service pool of loaner equipment specifically designed to support our Full Service Plan clients. <u>If our field technicians are not able to repair a piece of faulty equipment at your location, then we will replace it with a loaner, keeping your system up and running.</u> The defective equipment will be repaired at our facility, and returned to your site accordingly.
Items Not Covered:	This includes damage caused by misuse, abuse, accident, disaster, fire, flood, water, wind, lightning, and Acts of God. In addition, items designed to fail in order to protect the equipment, such as power and/or lightning suppressors, are also not covered by this plan.
Preventative Maintenance:	Provided Annually



Evaluation Criteria

The purchase of an Integrated Security System is the beginning of a relationship which will typically endure a system life cycle of eight (8) years or more. Since the relationship is long-term, there are many factors which should be considered in your decision.

In comparing Access Security with other security firms, we recommend that you establish Evaluation Criteria to measure expected performance for the life of the project. We have assembled Evaluation Criteria that are most commonly noted by our clients when selecting a security vendor. These are described below.

Track Record with Clients

Access Security Corp. was established in 1997, and has been designing, installing and maintaining Integrated Security Systems since then. We have successfully performed work for firms, including: Nestle Purina, Council Rock School District, and Mercy Health System.

Maintenance Support Capabilities

Access Security will perform maintenance and warranty work on all components of your system, using in-house technicians and software engineers. We have developed in-house experts so that our clients do not have to wait for a manufacturer's representative to solve problems. We are your single point of contact, so you do not have to endure endless repair delays while your suppliers sort out responsibility in the event that a problem occurs.

Training

Training is a critical component of every successful installation. Access Security has an established Training Program, consisting of several technical personnel available to provide System Operations training. Training will be conducted at two levels: System Administration and System Operation. Depending upon the needs of your organization, training can be conducted at our facility or on-site.

Engineering Documentation

In the security industry, one of the key criteria for the long-term success of System Integrators is based upon their ability to develop standards, which are translated to documentation. Access Security maintains a fully-staffed engineering department, which develops written standards for system implementation.



In-house Technical Work Force

Over the years, we have developed and nurtured a group of technical personnel who are trained in servicing Integrated Security Systems. We continually.

Bill of Materials

1530 Mearns Rd Intrusion

QTY	Manufacturer	Part #	Description
1	DMP	DPPKG-XR150DNF	XR150 Fire Alarm Control Panel Kit
1	DMP	DP263LTE-V/381-2	LTE CDMA Cellular Communicator
6	GRI	GR199-12WG-WHI	1" Recessed DPDT Contact - White
6	GRI	GRMC-180-W	Door Channel Magnet for Steel Doors
1	DMP	DP715-16	16 Zone Fire Expansion Module w/Enclosure
1	Altronix	AXAL400ULX	12/24 VDC Power Supply w/Cab
2	PowerSonic	PS1272	12 Volt 7.2 AH Battery
1	DMP	DP7873-W	Touchscreen Keypad w/ Prox Reader & Wiegand

Bill of Materials

1980 Deer Run Intrusion

QTY	Manufacturer	Part #	Description
1	DMP	DPPKG-XR150DNF	XR150 Fire Alarm Control Panel Kit
1	DMP	DP263LTE-V/381-2	LTE CDMA Cellular Communicator
1	DMP	DP715-16	16 Zone Fire Expansion Module w/Enclosure
1	Altronix	AXAL400ULX	12/24 VDC Power Supply w/Cab
2	PowerSonic	PS1272	12 Volt 7.2 AH Battery
1	DMP	DP7873-W	Touchscreen Keypad w/ Prox Reader & Wiegand

System Investment Summary

Our price for the system outlined in the proposal is as follows:

Base System Investment

As Per above Bill of Materials *(initial for approval)*:

1530 Mearns Rd Intrusion	\$6,190.00	_____
1980 Deer Run Intrusion	\$4,342.00	_____
<hr/>		
Security System Total:	\$10,531.00	

Recommended System Enhancements: *(Initial Option for approval)*

1530 Mearns Rd Monitoring (Required)	\$50.00 per month	_____
1980 Mearns Rd Monitoring (Required)	\$50.00 per month	_____
1530 Mearns Rd DMP App (Optional)	\$10.00 per month	_____
1980 Deer Run DMP App (Optional)	\$10.00 per month	_____
Gold Protection Plan (Optional)	\$29.00 per month	_____

Please specify the quantity of each:

Standard Clamshell Proximity Cards:	\$3.00 each	_____
Photo ID Proximity Cards (Glossy PVC):	\$5.00 each	_____
Proximity Keytag:	\$5.25 each	_____

NOTE: Payment Terms - 40% Deposit, and balance Net 30 days (see next page)

All Applicable Taxes are in addition to the above prices.

Prices are valid for 30 days from date on this proposal.

Terms and Conditions

The following Terms and Conditions are part of our Proposal.

Sales & Service Agreement

Access Security's Sales & Service Agreement, attached, is hereby included as a part of this proposal.

Deposit

Forty Percent (40%) of Total Installation Price.

Progress Payments (Only for projects extending over 30 days)

Customer to be billed for materials ordered and labor completed for this specific project by the 25th of the month. All progress invoices will be paid 10 days from the date of the invoice. Delayed or late payment may delay the project, and work may stop, until the outstanding balance has been resolved.

Final Payment

Payment is due with the following terms: Net 30 from substantial completion or first beneficial use of the system. All overdue payments are subject to 1.5% monthly service charge from date of invoice. Late payments of invoices will void material and labor warranty and all service requests will be held until payment is received. All material and equipment remains the property of Access Security Corp. until final payment has been received. Any and all legal fees required to collect outstanding balance will be added to the final payment.

Delivery

To be established based upon mutually acceptable dates.

Re-Stocking Fee

Any order or part of an order that is cancelled by the customer is subject to a 25% restocking fee, of the total amount cancelled.

Network Setup

Access Security Corp. is only responsible for configuring the network settings of its own devices. All other network settings and components required to complete communication over the client's network is the responsibility of the client. All additional time required to complete communication between devices due to customer's network issues will be billed (at standard hourly rates) in addition to the system price. The client agrees that it will not hold Access Security Corp. responsible for disruptions in network service and will not withhold payment due to client network connection issues.

Owner Provided Items

The customer will be responsible for providing the following before and during installation of the system(s) by Access Security Corp.:

Power

At our designated locations, regulated, clean 110VAC power and an isolated ground connected to the cold water building entry or equivalent.

Equipment Installation

Provision of space for mounting our electronic equipment. The space must have an operating environment suitable for the specified equipment.

Governmental Fees and Taxes

Sales and user taxes, permits and fees to the appropriate governmental authority.

Documentation

As-Built drawings, and other detailed engineering. These can be provided as an above contract item.

Lightning Protection

Although our equipment includes the original manufacturer's standard lightning and power protection, there is no guarantee provided against damage due to either of these sources. Additional protection is available and may be desirable.

Parking Area

Parking must be provided for 2 full size vans during the time of installation. If parking can not be provided it will be billed as an additional cost for the project.

Equipment Storage Area

Provide a secure location in which all equipment for the job can be stored while the installation is in progress.

LAN Connections or Telephone Jacks

Provide the appropriate number of jacks at specified locations for connection of devices to the Local Area Network or telephone system.

Data Entry

Owner is responsible for all data entry required to complete system operation. This includes but is not limited to setting up of user records, photo ID's, and basic system controls. This service can be provided by Access Security Corp. at an additional cost to the system price, but is not included in the base price.

De-installation and Relocation of Equipment

Patching and/or repair/painting of holes exposed after the removal of existing equipment.

Warranty Conditions

We warrant this installation to the original purchaser to be free from defects in material and workmanship under normal use during the warranty period. This period will be as follows:

Materials

Products will be repaired or replaced, at our option, without charge for a period of 1 year for all security system products.

Labor

Products will be repaired or replaced at our option without charge for a period of 1 year from completion of work.

Labor to correct warranty problems is provided during normal business hours.

Monday - Friday 9:00am to 5:00pm

Clarification

Consumable items such as batteries, will be warranted in accordance with the original manufacturer's warranty only. Devices including, but not limited to, fuses and/or power and/or lightning transient protectors/suppressors, which are designed to fail in order to protect the security system equipment(s) are not included in the warranty.

The warranty will not apply to any product or installation which has been misused, abused, or altered.

THE ONLY WARRANTY PROVIDED BY ACCESS SECURITY IS THE LIMITED WARRANTY STATED ABOVE WHICH SHALL NOT EXTEND BEYOND THE PERIOD STATED ABOVE. ACCESS SECURITY MAKES NO OTHER WARRANTIES, EXPRESSED, IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO RESPONSIBILITY IS ASSUMED FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES EVEN IF ACCESS SECURITY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THIS WARRANTY WILL BE VOIDED IF, DURING THE WARRANTY PERIOD, THE PURCHASER CONNECTS TO OR INTERCONNECTS WITH SUBSEQUENT TO THE INITIAL INSTALLATION, DEVICES NOT SUPPLIED OR INSTALLED BY ACCESS SECURITY. THE WARRANTY WILL ALSO BE VOIDED IF WARRANTED EQUIPMENT IS SERVICED BY A NON-ACCESS SECURITY AUTHORIZED ORGANIZATION.

THE WARRANTY OR SERVICE CONTRACT PERIOD SHALL COMMENCE WHEN CUSTOMER HAS BENEFICIAL USE OF THE SYSTEM, OR COMPLETION OF SYSTEM INSTALLATION, WHICHEVER OCCURS FIRST.

This proposal is subject to final acceptance by both parties stated below.

ATTACHMENTS

Proposal

Appendices

Sales and Service Agreement

Proposal Acceptance

The specifications, conditions, prices, and Sales and Service Agreement (attached) presented in this proposal are accepted as indicated by the signatures below. Access Security Corp. is authorized to perform the project as specified within this proposal, with payment made as outlined in the System Investment section of this document.

ACCEPTED BY:

Warwick Township Water and Sewer Authority:

Authorized
Signature: _____

Printed
Name, Title: _____

Date: _____

Access Security Corporation:

Authorized
Signature: Daniel E. Cogan President

Printed
Name, Title: _____

Date: _____

Sales and Service Agreement

1. **SERVICES:** Access Security Corporation shall install, service, and warranty the system(s) as designed by ASC and approved by Customer, in accordance with ASC's Proposal (attached).
2. **INSTALLATION CHARGES:** The Customer agrees to pay ASC, its agents or assigns, the installation charge and, if applicable, the maintenance, and/or lease charge as listed in the Proposal, subject to the terms and conditions as listed in the Proposal and Sales and Service Agreement.
3. **INSTALLATION, MAINTENANCE, SERVICE:** Customer hereby authorizes and empowers ASC to perform or cause to be performed the work necessary to fulfill the terms of this Agreement, including but not limited to installation, maintenance, inspection, testing, and repair of the systems on its premises. Such work shall be performed in a workmanlike manner in accordance with ASC's standard practices and shall be completed in accordance with a mutually agreed upon schedule, unless stated otherwise in the Proposal. The obligation of ASC to provide service related to the maintenance of the system pertains solely to the items specified in the Bill of Materials as listed in the Proposal. ASC is not obligated to maintain, repair, service, replace, operate or assure the operation of any device, system, or property belonging to Customer or to any third party to which such specified systems or components are attached, unless specifically agreed upon in the Proposal. In order to protect Customer from losses resulting from, damage to, or destruction of ASC systems, Customer shall include such systems in the coverage provided in its liability and fire insurance policies. ASC will provide service availability in accordance with the coverage requirements listed in the Proposal and defined under "coverage type" while the equipment is located on the premises upon which it was installed. The service to be provided is intended to keep the equipment in, or restore the equipment to, good working order. Unscheduled, on-call remedial maintenance, is also to be provided by ASC under this Agreement as necessary. Service provided by ASC under this Agreement does not assure against, nor does ASC assume any liability for, interruptions in operation of the equipment covered by this Agreement. When covered by our Full Service Agreement, the service also includes preventative maintenance based upon the specific needs of the individual equipment as determined by ASC.
4. **ACCESS:** ASC's technicians shall have full and free access upon their arrival to the equipment covered under this Agreement to provide service thereon.
5. **OWNERSHIP:** For existing installations, the Customer represents that it is the owner of the equipment to be serviced under this Agreement, or, if not the owner, has authority from the owner to include such equipment under this Agreement.
6. **DELAYS - INTERRUPTION OF SERVICE:** ASC shall not be liable for any delays, however caused, or for interruptions of service caused by strikes, riots, floods, acts of God, loss of communication and or other signal transmission lines, or by any event beyond the control of ASC. ASC will not be required to furnish service to Customer while such interruption shall continue.
7. **TERM OF AGREEMENT: RENEWALS:** The term of this agreement shall be for a period of five years. This agreement shall renew annually thereafter under the same terms and conditions, unless either party gives written notice to the other by certified mail, return receipt requested, of their intention not to renew the contract at least 90 days prior to the expiration of any term.
8. **INCREASES OF MONTHLY CHARGE:** After the expiration of one year from the date hereof ASC shall be permitted once per year to increase the monthly charges by an amount not to exceed five percent each year and Subscriber agrees to pay such increase as invoiced.
9. **EQUIPMENT COVERED:** Refer to Proposal or Schedule "A," as applicable.
10. **EXCLUSIONS:** Services to be provided by ASC pursuant to this Agreement do not include and ASC shall not be liable for:
 - a) Repair of damage or increase in service time caused by failure to continually provide a suitable operating environment with all facilities as prescribed by ASC and/or the equipment manufacturer, including, but not limited to, the failure to provide, or the failure of, adequate and regulated electrical power, air conditioning or humidity control; or such special requirements as contained in Rider "A" or the Proposal hereto.
 - b) Repair of damage or increase in service time caused by use of the equipment for other than the ordinary use for which the equipment was designed or purpose for which it was intended.
 - c) Repair of damage, replacement parts (due to other than normal wear) or repetitive service calls caused by the use of unauthorized supplies or equipment.
 - d) Repair of damage or increase in service time caused by: accident, disaster, which shall include, but not be limited to, fire, flood, water, wind and lightning; transportation, neglect or misuse, alterations, which shall include, but not be limited to, any deviation from ASC's physical, mechanical or electrical machine design; attachments, which are defined as the mechanical, electrical or electronic interconnecting to non-ASC equipment and devices not supplied by ASC.
 - e) In the event that the equipment covered by this agreement becomes worn out due to the normal wear and tear, or becomes obsolete (end of life and no longer manufactured) or outdated due to advances in technology, ASC will submit to the Customer a cost estimate for replacement of the equipment.
 - f) ASC shall not be responsible for providing maintenance service on any equipment that is not listed in Schedule A, which includes pre-existing cables and connections unless specifically identified in Schedule A.
 - g) Electrical work external to the equipment or accessories furnished by ASC.

Sales and Service Agreement

11. **ADDITIONAL CHARGES:** Unless otherwise specified in the Proposal, service charges for the system are based upon coverage as specified in the "hours of operation." Service performed outside this window, or as a result of the failure of the Customer to adhere to the requirements as specified by either the manufacturer or outside the scope of the Agreement, shall be chargeable at ASC's prevailing rates. Customer shall not tamper with, adjust, alter, move, remove, or otherwise interfere with equipment without ASC's specific permission, nor permit the same by other Contractors. Any work performed by ASC to correct Customer's breach of the foregoing obligation shall be corrected and paid for by Customer at ASC's prevailing rates. Remedial maintenance due to Acts of God or events beyond the control of ASC shall be corrected by ASC and paid for by Customer in accordance with ASC's prevailing rates.

12. **TESTING OF SYSTEM:** The parties hereto agree that the equipment, once installed, is in the exclusive possession and control of the Subscriber, and it is Subscriber's sole responsibility to test the operation of the equipment and to notify ASC if any equipment is in need of repair. ASC shall not be required to service the equipment unless it has received notice from Subscriber, and upon such notice, ASC shall, during the warranty period or if service has been contracted under this agreement, service the equipment to the best of its ability within 36 hours, exclusive of Saturday, Sunday and legal holidays, during the business hours of 9 a.m. and 5 p.m. Subscriber agrees to test and inspect the equipment and to advise ASC of any defect, error or omission in the equipment. In the event Subscriber complies with the terms of this agreement and ASC fails to repair the equipment within 36 hours after notice is given, excluding Saturdays, Sundays, and legal holidays, Subscriber agrees to send notice that the equipment is in need of repair to ASC, in writing, by certified or registered mail, return receipt requested, and Subscriber shall not be responsible for payments due while the equipment remains inoperable. In any lawsuit between the parties in which the condition or operation of the equipment is in issue, the Subscriber shall be precluded from raising the issue that the equipment was not operating unless the Subscriber can produce a post office certified or registered receipt signed by ASC, evidencing that service was requested by Subscriber.

13. **ALTERATION OF PREMISES FOR INSTALLATION:** ASC with prior written approval is authorized to make preparations such as drilling holes, driving nails, making attachments or doing any other thing necessary for the installation and service of the equipment, and ASC shall not be responsible for any condition created thereby as a result of such installation, service, or removal of the equipment, and Subscriber represents that the owner of the premises, if other than Subscriber, authorizes the installation of the equipment under the terms of this agreement.

14. **SUBSCRIBER RESPONSIBLE FOR FALSE ALARMS/PERMIT FEES:** Subscriber is responsible for all alarm permits and permit fees, agrees to file for and maintain any permits required by applicable law and indemnify or reimburse ASC for any fines relating to permits or false alarms. ASC shall have no liability for permit fees, false alarms, false alarm fines, fire response, any damage to personal or real property or personal injury caused by fire department response to alarm, whether false alarm or otherwise, or the refusal of the fire department to respond. In the event of termination of fire response by the fire department this contract shall nevertheless remain in full force and Subscriber shall remain liable for all payments provided for herein. Should ASC be required by existing or hereinafter enacted law to perform any service or furnish any material not specifically covered by the terms of this agreement Subscriber agrees to pay ASC for such service or material.

15. **INDEMNITY/WAIVER OF SUBROGATION RIGHTS/ASSIGNMENTS:** Subscriber agrees to and shall indemnify and hold harmless ASC, its employees, agents and subcontractors, from and against all claims, lawsuits, including those brought by third parties or Subscriber, including reasonable attorneys' fees and losses asserted against and alleged to be caused by ASC's performance, negligent performance, or failure to perform any obligation. Parties agree that there are no third party beneficiaries of this contract. Subscriber on its behalf and any insurance carrier waives any right of subrogation Subscriber's insurance carrier may otherwise have against ASC or ASC's subcontractors arising out of this agreement or the relation of the parties hereto. Subscriber shall not be permitted to assign this agreement without written consent of ASC. ASC shall have the right to assign this contract and shall be relieved of any obligations created herein upon such assignment.

16. **EXCULPATORY CLAUSE:** ASC and Subscriber agree that the equipment, once installed, becomes the personal property of the Subscriber; that the equipment is not permanently attached to the realty and shall not be deemed fixtures. Subscriber agrees that ASC is not an insurer and no insurance coverage is offered herein. The equipment is designed to reduce certain risks of loss, though ASC does not guarantee that no loss will occur. ASC is not assuming liability, and, therefore shall not be liable to Subscriber for any loss, personal injury or property damage sustained by Subscriber as a result of fire, smoke or water, equipment failure, or any other cause, whatsoever, regardless of whether or not such loss or damage was caused by or contributed to by ASC'S negligent performance, failure to perform any obligation or strict products liability except that ASC will be responsible for any property damage or personal injury negligently caused by its employees while actually working on the premises. The parties do not intend for ASC to have any consequential damages arising by reason of failure of any security system or services. Subscriber releases ASC from any claims for contribution, indemnity or subrogation.

17. **INSURANCE:** Contractor shall, at all times during the term of this Agreement, maintain the following insurance coverage for itself and its employees and agents:

- a) Commercial general liability insurance coverage with a minimum of \$1,000,000 each occurrence, \$2,000,000 in the annual aggregate, applying to bodily injury, property damage, and liability assumed under any contract plus a five million (\$5,000,000) umbrella coverage. General liability insurance coverage may be satisfied by a combination of primary and excess or umbrella coverage.
- b) If applicable, Workers' Compensation and employer's liability for Contractor's legal and statutory obligations as required by the laws of the jurisdiction in which the services are performed, and Contractor shall waive its right of subrogation; Except as otherwise provided herein, neither party waives its rights (or the rights of its insurer) of subrogation.

Sales and Service Agreement

The above coverage amounts shall be the actual indemnity coverage limit and shall not be reduced by any expense or costs of litigation including attorney's fees. In the event that such insurance is purchased on a "claims-made" basis, upon termination of this Agreement, Contractor shall either purchase extended reporting period endorsement ("tail") insurance coverage or continue the claims made policy for services rendered during the term of this Agreement in an amount equal to and otherwise upon the same terms identified herein.

Except for workers compensation insurance, all insurance required of Contractor shall not be cancelled with impact to this Agreement or not renewed without at least thirty (30) days advance written notice to Facility. CONTRACTOR SHALL PROVIDE CERTIFICATES EVIDENCING THE ABOVE COVERAGE(S). FACILITY SHALL HAVE THE RIGHT TO TERMINATE THIS AGREEMENT UPON WRITTEN NOTICE TO CONTRACTOR FOR ANY BREACH OF THIS SECTION. Contractor shall provide that no policy of insurance will be changed in a manner that would materially reduce the coverage provided to the facility without first giving facility at least 30 days written notice thereof.

18. LIMITATION OF LIABILITY: Subscriber agrees that should there arise any liability on the part of ASC as a result of ASC'S negligent performance to any degree, failure to perform any of ASC'S obligations, equipment failure or strict products liability, that ASC'S liability shall be limited to the sum of 5% of the sale price. If Subscriber wishes to increase ASC'S maximum amount of ASC'S limitation of liability, Subscriber may, as a matter of right, at any time, by entering into a supplemental contract, obtain a higher limit by paying an annual payment consonant with ASC'S increased liability. This shall not be construed as insurance coverage.

19. LEGAL ACTION: In the event ASC refers this contract to an attorney, to recover any amounts owed by Subscriber to ASC hereunder, the parties agree that the amount to be recovered, and any judgment to be entered, shall include interest at the rate of 1 1/2% per month from the date payment is due, and Subscriber shall pay ASC's legal fees. The parties waive trial by jury in any action between them. In any action commenced by ASC against Subscriber, Subscriber shall not be permitted to interpose any counterclaim. Any action by Subscriber against ASC must be commenced within one year of the accrual of the cause of action or shall be barred. All actions or proceedings against ASC must be based on the provisions of this agreement. Any other action that Subscriber may have or bring against ASC in respect to other services rendered in connection with this agreement shall be deemed to have merged in and be restricted to the terms and conditions of this agreement. Any action or dispute between the parties, including issues of arbitrability, shall, at the option of either party, be determined by arbitration administered by the Arbitration Services Inc., under its Commercial Arbitration Rules. Any service of process or papers in any action, proceeding, arbitration or proceeding to confirm an arbitration award or enforce a judgment of any court may be served by first class mail delivered by the U.S. Post Office or overnight carrier to addresses in this agreement. Subscriber submits to the jurisdiction of Pennsylvania and agrees that any litigation between the parties must be commenced and maintained exclusively in the State of Pennsylvania and in the County where ASC's principal place of business is located. In addition to the balance due for the purchase and installation of the equipment and any extras, the parties agree that due to the nature of the services to be provided by ASC, the payments to be made by subscriber for the term of this agreement are an integral part of ASC's anticipated profits and in the event of subscriber's breach of this agreement it would be difficult if not impossible to reasonably estimate ASC's actual damages. Therefore, in the event of subscriber's default of this agreement subscriber shall pay to Alarm Company 80% of the balance due for the term of this agreement as liquidated damages. ASC may, without prior notice, suspend or terminate its services in event of Subscriber's default in performance of this agreement and shall be permitted to terminate all its services under this agreement without relieving Subscriber of any obligation herein.

20. ASC'S RIGHT TO SUBCONTRACT SPECIAL SERVICES: Subscriber agrees that ASC is authorized and permitted to subcontract these services to be provided by ASC to third parties who may be independent of ASC, and that ASC shall not be liable for any loss or damage sustained by Subscriber by reason of fire, theft, burglary or any other cause whatsoever caused by the negligence of third parties and that Subscriber appoints ASC to act as Subscriber's agent with respect to such third parties, except that ASC shall not obligate Subscriber to make any payments to such third parties. ASC shall be permitted to assign this contract and upon such assignment shall have no further obligation hereunder. Subscriber acknowledges, that this agreement, and particularly those paragraphs relating to ASC's disclaimer of warranties, exemption from liability, even for its negligence, limitation of liability and indemnification, inure to the benefit of and are applicable to any assignee, subcontractors and communication centers of ASC.

21. FULL AGREEMENT/SEVERABILITY/ CONFLICTING DOCUMENTS. This agreement constitutes the full understanding of the parties and may not be amended or modified or canceled except in writing signed by both parties, except ASC will comply with requirements regarding items of protection provided for in this agreement imposed by Authority Having Jurisdiction. Should there arise any conflict between this agreement and Subscriber's purchase order or other document, this agreement will govern, whether such purchase order or document is prior to or subsequent to this agreement. Should any provision of this agreement be deemed void, all other provisions will remain in effect.

22. SUCCESSORS: The Agreement is not assignable by Customer except upon the written consent of ASC, which consent will not unreasonably be withheld.

23. ENTIRE AGREEMENT: This Agreement is to govern the providing of services by ASC to Customer as described herein. Nothing in this Agreement is to be construed as creating a lease or a leasehold agreement between the parties. This Agreement is not binding unless approved in writing by an authorized representative of ASC. If approval is not obtained, the only liability of ASC shall be to return to Customer the amount, if any, paid to ASC upon the signing of the Agreement by its Sales Representative. This writing, together with any individually signed acceptance of Proposals, rider, other attachments pertaining to this Agreement is intended by the parties as the final expression of their agreement with respect to the subject matter contained herein and also as the complete and exclusive statement of the terms and such Agreement, notwithstanding any prior, contemporaneous or subsequent purchase order or other document relating to said subject matter. There is no course of dealing or usage of the trade what would supplement or conflict with its terms. This Agreement may only be amended in writing signed by both parties.

KEYSTONE ALLIANCE

CONSULTING, Inc.

October 30, 2023

Ms. Lauri Halderson
Executive Director
Warwick Township Water and Sewer Authority
1733 Township Greene, Third Floor
Jamison, PA 18929

Subject: Water Tapping Fee Calculation Proposal for
Warwick Township Water and Sewer Authority – Water System
Keystone Alliance Proposal No. P23-10-06

Dear Lauri:

Keystone Alliance Consulting, Inc. (Keystone Alliance) is pleased to submit this proposal to provide the Warwick Township Water and Sewer Authority with an updated Water Tapping Fee Study in accordance with PA Act 57 of 2003. Our proposal has been prepared in order to provide a written report with the necessary financial analysis to support the water tapping fees imposed by Warwick Township Water and Sewer Authority. With over 35 years of financial experience with water and wastewater utilities, Keystone Alliance is well qualified to perform this service. In preparing this proposal we have provided an outline for the services to be provided.

We have determined the level of effort required to perform this service based on our review of available information and our discussion of the project with you. The preparation of a report of our findings and presentation of these findings at a public meeting of the Authority is included in this proposal. This process will provide valuable information to determine the maximum justified tapping fee in accordance with Pennsylvania Act 57.

Keystone Alliance will provide the following services:

- Review the existing tapping fees of the water system for compliance with Act 57.
- Review and classify to appropriate categories the fixed property inventory records.
- Review capital improvement plan for possible inclusion in the tapping fee calculation.
- Review available data to identify federal and state grants and developer contributions by year and associated project.
- Working with staff to develop revised tapping fees for the sewer system that are in compliance with Act 57 including the connection fee, customer facilities fee, and tapping fee excluding the reimbursement part.
- Develop the necessary justification for the proposed tapping fee charges.
- Submit pertinent documentation of tapping fee charges with a detailed written report explaining the tapping fee calculations.
- Attend one meeting of the Authority to review the findings of the study and the written report.

We propose that the services outlined be performed at a lump sum fee of \$5,000.

We gratefully acknowledge your request for proposal and look forward to building a strong working relationship with and continued commitment to the Warwick Township Water and Sewer Authority. Keystone Alliance is uniquely qualified to perform this service, because of our experience in the water and wastewater field specializing on system finances. We have included an Authorization to Proceed as an attachment to this letter. Please execute the Authorization to Proceed and return it to us. Upon receipt of the Authorization, we will apply our full resources to this project and anticipate that it will be completed within 90 days of your Authorization and receipt of the required information. A list of the required information is attached to this proposal.

If you have any questions regarding this proposal, please do not hesitate to call us.

Very truly yours,

David L. Busch

David L. Busch
Keystone Alliance Consulting, Inc.

TAPPING FEE CALCULATIONS LIST OF REQUIRED INFORMATION

Required Information	Possible Data Source	Explanation
Capital Cost of Facilities	Contractor Pay Estimates Financing Documents Act 339 Grant Applications Grant Applications Pennvest Payment Requests Detailed engineering estimates of facility replacement cost (if original costs are not available)	Capital costs provide the basis for the tapping fee calculation. Original costs are trended to current dollars using ENR indices.
Contributed Assets	Grant Applications Financing Documents Developer Agreements	Contributed assets must be subtracted from capital facilities to determine the tapping fee.
Capacity of Facilities	Treatment Facility Permits Inter-municipal Agreements	Permits are preferred; however if treatment facilities are owned jointly, inter-municipal agreements will be required. Documents provide the capacity of the system.
Debt History of System	Bonds, Notes, Loans (including refinanced debt) Current Debt Service Schedules showing principal and interest payments Prior Debt Service Schedules showing principal and interest payments	Outstanding principal on current debt is subtracted from the trended capital costs Interest paid to date is added to the original capital costs
Capital Improvement Plan	Information of any planned capital improvements over the next 7 years related to the treatment facility	Only those facilities that would increase system capacity can be included.

WATER AND SEWER SYSTEM TAPPING FEE CALCULATION

REQUIRED INFORMATION

- ◆ Most recently completed tapping fee calculation and associated backup information. Additional tapping fee calculations prepared prior to the most current if available. **We have this information.**
- ◆ Detailed map (plan) of the sewer system including pipe sizes. **We should not need this information.**
- ◆ Detailed physical sewer system inventory including description of the system components (capacity, length, etc.) and year and cost of installation; to the extent this information is available. **Should only need capital additions completed since 2005 as well as any capital facilities that were removed or replaced since the beginning of 2005.**
- ◆ Audited financial statements for 2022. **We have this information.**
- ◆ Water and Sewer system debt service schedules for the Authority. Both current debt and prior debt, including all principal and interest payment dates.
- ◆ Copy of current schedule of rates and charges, including tapping fees.
- ◆ Copy of service agreements with customers that address tapping fee or the transfer of system capacity, if applicable.
- ◆ Copy of permits for wells, pump/booster stations and treatment facilities.
- ◆ If the Authority has been or will be impacted by PFAS and wells or other facilities will be impacted, information on this matter would need to be considered.

AUTHORIZATION TO PROCEED

SEWER SYSTEM TAPPING FEE STUDY

WARWICK TOWNSHIP WATER AND SEWER AUTHORITY

I have reviewed Keystone Alliance Consulting, Inc. Proposal No. P23-10-06, agree to the terms and conditions, and hereby authorize Keystone Alliance Consulting, Inc. to proceed with the outlined services.

10/31/2023

Date

Lauri Halderon

Authorized Representative for
Warwick Township Water and
Sewer Authority

Lauri Halderon

Name (print or type)

Executive Director

Title (print or type)

KEYSTONE ALLIANCE

CONSULTING, Inc.

October 30, 2023

Ms. Lauri Halderson
Executive Director
Warwick Township Water and Sewer Authority
1733 Township Greene, Third Floor
Jamison, PA 18929

Subject: Water Tapping Fee Calculation Proposal for
Warwick Township Water and Sewer Authority – Sewer System
Keystone Alliance Proposal No. P23-10-07

Dear Lauri:

Keystone Alliance Consulting, Inc. (Keystone Alliance) is pleased to submit this proposal to provide the Warwick Township Water and Sewer Authority with an updated Sewer Tapping Fee Study in accordance with PA Act 57 of 2003. Our proposal has been prepared in order to provide a written report with the necessary financial analysis to support the water tapping fees imposed by Warwick Township Water and Sewer Authority. With over 35 years of financial experience with water and wastewater utilities, Keystone Alliance is well qualified to perform this service. In preparing this proposal we have provided an outline for the services to be provided.

We have determined the level of effort required to perform this service based on our review of available information and our discussion of the project with you. The preparation of a report of our findings and presentation of these findings at a public meeting of the Authority is included in this proposal. This process will provide valuable information to determine the maximum justified tapping fee in accordance with Pennsylvania Act 57.

Keystone Alliance will provide the following services:

- Review the existing tapping fees of the sewer system for compliance with Act 57.
- Review and classify to appropriate categories the fixed property inventory records.
- Review capital improvement plan for possible inclusion in the tapping fee calculation.
- Review available data to identify federal and state grants and developer contributions by year and associated project.
- Working with staff to develop revised tapping fees for the sewer system that are in compliance with Act 57 including the connection fee, customer facilities fee, and tapping fee excluding the reimbursement part.
- Develop the necessary justification for the proposed tapping fee charges.
- Submit pertinent documentation of tapping fee charges with a detailed written report explaining the tapping fee calculations.
- Attend one meeting of the Authority to review the findings of the study and the written report.

We propose that the services outlined be performed at a lump sum fee of \$5,000.

We gratefully acknowledge your request for proposal and look forward to building a strong working relationship with and continued commitment to the Warwick Township Water and Sewer Authority. Keystone Alliance is uniquely qualified to perform this service, because of our experience in the water and wastewater field specializing on system finances. We have included an Authorization to Proceed as an attachment to this letter. Please execute the Authorization to Proceed and return it to us. Upon receipt of the Authorization, we will apply our full resources to this project and anticipate that it will be completed within 90 days of your Authorization and receipt of the required information. A list of the required information is attached to this proposal.

If you have any questions regarding this proposal, please do not hesitate to call us.

Very truly yours,

David L. Busch

David L. Busch
Keystone Alliance Consulting, Inc.

TAPPING FEE CALCULATIONS LIST OF REQUIRED INFORMATION

Required Information	Possible Data Source	Explanation
Capital Cost of Facilities	Contractor Pay Estimates Financing Documents Act 339 Grant Applications Grant Applications Pennvest Payment Requests Detailed engineering estimates of facility replacement cost (if original costs are not available)	Capital costs provide the basis for the tapping fee calculation. Original costs are trended to current dollars using ENR indices.
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Debt History of System	Bonds, Notes, Loans (including refinanced debt) Current Debt Service Schedules showing principal and interest payments Prior Debt Service Schedules showing principal and interest payments	Outstanding principal on current debt is subtracted from the trended capital costs Interest paid to date is added to the original capital costs
Capital Improvement Plan	Information of any planned capital improvements over the next 7 years related to the treatment facility	Only those facilities that would increase system capacity can be included.

WATER AND SEWER SYSTEM TAPPING FEE CALCULATION

REQUIRED INFORMATION

- ◆ Most recently completed tapping fee calculation and associated backup information. Additional tapping fee calculations prepared prior to the most current if available. **We have this information.**
- ◆ Detailed map (plan) of the sewer system including pipe sizes. **Should not need this information.**
- ◆ Detailed physical sewer system inventory including description of the system components (capacity, length, etc.) and year and cost of installation; to the extent this information is available. **Should only need capital additions completed since 2005 as well as any capital facilities that were removed or replaced since the beginning of 2005.**
- ◆ Audited financial statements for 2022.
- ◆ Water and Sewer system debt service schedules for the Authority. Both current debt and prior debt, including all principal and interest payment dates.
- ◆ Copy of current schedule of rates and charges, including tapping fees.
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- ◆ Copy of permits for wells, pump/booster stations and treatment facilities.
- ◆ If the Authority has been or will be impacted by PFAS and wells or other facilities will be impacted, information on this matter would need to be considered.

AUTHORIZATION TO PROCEED

SEWER SYSTEM TAPPING FEE STUDY

WARWICK TOWNSHIP WATER AND SEWER AUTHORITY

I have reviewed Keystone Alliance Consulting, Inc. Proposal No. P23-10-07, agree to the terms and conditions, and hereby authorize Keystone Alliance Consulting, Inc. to proceed with the outlined services.

10/31/2023
Date

Lauri Halderson
Authorized Representative for
Warwick Township Water and
Sewer Authority

Lauri Halderson
Name (print or type)

Executive Director
Title (print or type)