



GAS & WATER COMMITTEE AGENDA

DATE: November 19, 2020

TIME: 3:45 p.m.

LOCATION: Via Google Meet

IN AN EFFORT TO FACILITATE THE RESPONSE TO CORONAVIRUS DISEASE 2019 (COVID-19), THIS MEETING WILL BE CONDUCTED VIA GOOGLE MEETS. AN AUDIO RECORDING OF THE PROCEEDINGS WILL BE MADE AVAILABLE TO THE PUBLIC WITHIN 48 HOURS. MEMBERS OF THE PUBLIC ARE, BY LAW, ALLOWED TO ATTEND MEETINGS OF THE CITY OF CLARKSVILLE GAS & WATER COMMITTEE, BUT ARE STRONGLY DISCOURAGED TO DO SO AT THIS TIME.

I. CALL TO ORDER

II. ANNOUNCE MEMBERS IN ATTENDANCE (VERIFY QUORUM)

III. APPROVAL OF ELECTRONIC MEETING

In order to comply with the technical aspects of the Governor's Executive Order regarding holding open meetings in a forum other than in the open and in public, this governing body determines that meeting electronically is necessary to protect the health, safety, and welfare of its citizens due to the COVID-19 outbreak.

IV. ADOPTION OF MINUTES: August 20, 2020, September 17, 2020, and October 22, 2020

V. DEPARTMENT REPORTS:

1. Bad Debt – Fred Klein (attached)
2. Financials – Fred Klein (attached)
3. Bid – Summary – Camille Thomas (attached)
4. Professional Services – Camille Thomas (attached)
 - Ringgold Road Equalization, Ringgold Creek Force Main and the Sherwood Forest Lift Station Improvements & Force Main from AECOM Technical Services, Inc. in the total amount of \$2,640,600.00.
5. Sale of surplus property on GovDeals.com for the months of September and October 2020 - \$2,985.00. – Camille Thomas (attached)
6. Department Reports – Mark Riggins (attached)

VI. COMMITTEE ACTION REQUIRED

VII. CITY COUNCIL ACTION REQUIRED

VIII. ADJOURNMENT

IX. PUBLIC COMMENTS (5 minutes each)



GAS & WATER COMMITTEE

August 20, 2020

MINUTES

CALL TO ORDER

A meeting of the City of Clarksville Gas & Water Committee was called to order by Chairwoman Valerie Guzman on Thursday, August 20, 2020, at 3:45 p.m. This meeting was conducted via Google Meets.

ATTENDANCE

The following members responded to roll call and were connected to the meet:

Chairwoman Valerie Guzman, Gary Norris, Ron Erb

Mark Riggins, Fred Klein, Camille Thomas, Stephanie Fox, and Mandy Phillips were also connected to the meet.

APPROVAL OF ELECTRONIC MEETING

In order to comply with the technical aspects of the Governor's Executive Order regarding holding open meetings in a forum other than in the open and in public, the Gas & Water Committee determines that meeting electronically is necessary to protect the health, safety, and welfare of its citizens due to the COVID-19 outbreak.

Councilman Gary Norris made a motion to approve the electronic meeting, Councilman Ron Erb seconded it, and the motion passed unanimously.

ADOPTIONS OF MINUTES

Councilman Ron Erb made a motion to approve the minutes of the May 21, 2020 committee meeting, Councilman Gary Norris seconded it, and the motion passed unanimously.

DEPARTMENT REPORTS

Bad Debt was reported by Fred Klein by explaining the write-off report for the month of July 2020.

Fred Klein also reported the Financials for the month of July 2020.

Camille Thomas reported the Bid-Summary for the month.

Camille Thomas also reported the following Professional Services for the month:

- New North Service Center Renovation Design from Lyle-Cook-Martin in the amount of \$40,000.00.
- Miscellaneous Advisory & Consulting Services from D2 Energy, LLC in the amount of \$25,000.00.
- Miscellaneous Engineering Services from TTL, Inc. in the amount of \$50,000.00.

Mark Riggins presented and discussed the department reports included in the packet.

COMMITTEE ACTION REQUIRED

N/A

CITY COUNCIL ACTION REQUIRED

ORDINANCE 18-2020-21 Authorizing extension of utilities to Garrettsburg Road, Cmap 029, parcels 10.00 & 65.00; request of Vernon Weakley. Councilman Ron Ern made a motion for approval, Councilman Gary Norris seconded it, and the same passed unanimously to full City Council.

ORDINANCE 20-2020-21 Amending Part II, Title 13(Uilities and Service), Chapter 3 (Gas, Water, and Sewer Service) and Chapter 4 (Water and/or Sewer Service to Particular Areas or Subdivisions) of the City of Clarksville Code of Ordinances relative to charges, deposits, programs, adjustments, installment plans, and service extension approval. Councilman Gary Norris made a motion for approval, Councilman Ron Erb seconded it, and the same passed unanimously to full City Council.

ADJOURNMENT

The meeting was adjourned at 4:15 p.m.



GAS & WATER COMMITTEE September 17, 2020

MINUTES

CALL TO ORDER

A meeting of the City of Clarksville Gas & Water Committee was called to order by Councilman Ron Erb Thursday, September 17, 2020, at 3:54 p.m. This meeting was conducted via Google Meets.

ATTENDANCE

The following members were connected to the meet:

Ron Erb and Gary Norris

Mark Riggins, Fred Klein, Camille Thomas, Stephanie Fox, and Mandy Phillips were also connected to the meet.

Councilman Rob Erb announced the lack of a quorum and the meeting was cancelled.



GAS & WATER COMMITTEE

October 22, 2020

MINUTES

CALL TO ORDER

A meeting of the City of Clarksville Gas & Water Committee was called to order by Councilwoman Valerie Guzman Thursday, October 22, 2020, at 3:58 p.m. This meeting was conducted via Google Meets.

ATTENDANCE

The following were also connected to the meet:

Councilman Ron Erb, Mark Riggins, Fred Klein, Camille Thomas, Stephanie Fox, and Mandy Phillips were also connected to the meet.

Councilwoman Valerie Guzman announced the lack of a quorum and the meeting was cancelled.

Clarksville Gas & Water Department **12 Month Rolling Collections/Write-offs**

Date	Total Turned Over	# of Accounts	Avg Acct Turned Over	Total Collected		Total Write-offs	# of Write-Offs	Avg Acct Write-off
Nov-19	\$ 17,998.88	101	\$ 178.21	\$ 992.64		\$ 10,994.34	64	\$ 171.79
Dec-19	\$ 16,288.88	99	\$ 164.53	\$ 2,097.21		\$ 7,879.44	57	\$ 138.24
Jan-20	\$ 13,136.12	103	\$ 127.54	\$ 4,109.73		\$ 15,343.37	85	\$ 180.51
Feb-20	\$ 8,080.67	75	\$ 107.74	\$ 4,394.14		\$ 8,397.22	71	\$ 118.27
Mar-20	\$ -			\$ 4,378.79		\$ 10,755.11	72	\$ 149.38
Apr-20	\$ 24,150.83	165	\$ 146.37	\$ 4,076.06		\$ 8,402.79	100	\$ 84.03
May-20	\$ 10,665.92	75	\$ 142.21	\$ 5,337.53		\$ 4,984.85	49	\$ 101.73
Jun-20	\$ 5,511.01	59	\$ 93.41	\$ 5,349.91		\$ 6,391.85	53	\$ 120.60
Jul-20	\$ 3,583.19	43	\$ 83.33	\$ 4,172.42		\$ 23,920.03	101	\$ 236.83
Aug-20	\$ 5,806.25	46	\$ 126.22	\$ 5,853.15		\$ 17,057.35	88	\$ 193.83
Sep-20	\$ 9,388.82	78	\$ 120.37	\$ 3,911.12		\$ 11,862.94	71	\$ 167.08
Oct-20	\$ 19,212.62	123	\$ 156.20	\$ 4,228.98		\$ 8,320.33	73	\$ 113.98
	\$ 133,823.19	967	\$ 138.39	\$ 48,901.68		\$ 134,309.62	884	\$ 151.93
				36.54%				

CGW Water Department
October, 2020

	Month			Year to Date		
	<u>Actual</u>	<u>Budget</u>	<u>Fav/(Unfav)</u>	<u>Actual</u>	<u>Budget</u>	<u>Fav/(Unfav)</u>
Sales to Customers	1,909,436	1,916,458	(7,022)	8,082,123	7,665,833	416,290
Penalties	32,007	27,500	4,507	106,565	110,000	(3,435)
Other Income	367,900	243,958	123,941	1,280,857	975,833	305,024
Gross Revenue	2,309,343	2,187,917	121,427	9,469,545	8,751,667	717,878
Water Plant 1	276,606	372,726	96,119	1,290,799	1,490,904	200,105
Water Plant 2	-	-	-	1,200	-	(1,200)
Water Transmission	385,225	464,855	79,630	1,760,960	1,859,421	98,461
Water Administration	29,438	26,030	(3,408)	124,983	104,121	(20,862)
Customer Service	322,583	263,487	(59,096)	1,285,514	1,053,948	(231,566)
Accounting	47,020	51,704	4,683	197,731	206,815	9,084
Engineering	125,411	119,276	(6,135)	410,318	477,105	66,787
Admin & General	64,075	71,049	6,974	253,316	284,197	30,881
Other Expenses	15,438	12,083	(3,355)	57,322	48,333	(8,989)
Depreciation	509,157	541,667	32,510	2,031,963	2,166,667	134,704
Total Operating Expenses	1,774,954	1,922,878	147,924	7,414,106	7,691,511	277,405
Income from Operations	534,389	265,039	269,350	2,055,439	1,060,156	995,284
Interest Income	6,635	36,500	(29,865)	31,334	146,000	(114,666)
Other Income (Expense)	452	1,667	(1,215)	1,252	6,667	(5,415)
Interest Expense	(78,732)	(78,981)	250	(315,045)	(315,925)	880
Debt Amortization Income	18,124	18,120	4	72,495	72,478	17
PILOT	(82,672)	(82,672)	(0)	(330,690)	(330,690)	0
Total Other Income (Expense)	(136,194)	(105,367)	(30,826)	(540,654)	(421,470)	(119,185)
Total Income / (Loss)	398,196	159,672	238,524	1,514,785	638,686	876,099
Capital Spend	829,520	1,127,000	297,480	2,409,517	4,567,000	2,157,483
Contributed Capital - Cash	-	-	-	-	-	-
Contributed Capital - Non-Cash	-	1,000,000	(1,000,000)	-	4,000,000	(4,000,000)

CGW Wastewater Department
October, 2020

	Month			Year to Date		
	<u>Actual</u>	<u>Budget</u>	<u>Fav/(Unfav)</u>	<u>Actual</u>	<u>Budget</u>	<u>Fav/(Unfav)</u>
Sales to Customers	3,303,158	3,330,250	(27,092)	13,810,796	13,321,000	489,796
Penalties	55,041	50,000	5,041	184,023	200,000	(15,977)
Other Income	677,945	235,725	442,220	1,863,200	942,900	920,300
Gross Revenue	4,036,144	3,615,975	420,169	15,858,019	14,463,900	1,394,119
Wastewater Plant	389,691	442,601	52,910	1,419,368	1,770,405	351,037
Wastewater Collection	470,511	558,047	87,535	1,988,070	2,232,186	244,116
Wastewater Administration	42,527	34,932	(7,595)	168,268	139,728	(28,540)
Customer Service	160,050	167,995	7,945	642,973	671,979	29,007
Accounting	50,505	56,662	6,157	208,969	226,647	17,678
Engineering	146,511	133,700	(12,811)	482,845	534,798	51,953
Admin & General	64,032	62,871	(1,161)	253,018	251,483	(1,534)
Other Expenses	15,438	12,083	(3,355)	57,322	48,333	(8,989)
Depreciation	963,766	1,033,333	69,567	3,847,015	4,133,333	286,318
Total Operating Expenses	2,303,032	2,502,223	199,191	9,067,848	10,008,893	941,045
Income from Operations	1,733,112	1,113,752	619,360	6,790,171	4,455,007	2,335,165
Interest Income	8,227	32,083	(23,856)	41,655	128,333	(86,679)
Other Income (Expense)	267	667	(400)	1,067	2,667	(1,600)
Interest Expense	(542,210)	(563,934)	21,724	(2,170,696)	(2,255,736)	85,041
Debt Amortization Income	103,446	103,446	(0)	413,784	413,784	(0)
PILOT	(162,616)	(162,616)	-	(650,465)	(650,465)	-
Total Other Income (Expense)	(592,887)	(590,355)	(2,532)	(2,364,656)	(2,361,418)	(3,238)
Total Income / (Loss)	1,140,225	523,397	616,828	4,425,515	2,093,589	2,331,926
Capital Spend	852,821	1,781,000	928,179	3,944,857	8,246,000	4,301,143
Contributed Capital - Cash	-	-	-	-	-	-
Contributed Capital - Non-Cash	-	833,333	(833,333)	-	3,333,333	(3,333,333)

CGW Gas Department
October, 2020

	Month			Year to Date		
	<u>Actual</u>	<u>Budget</u>	<u>Fav/(Unfav)</u>	<u>Actual</u>	<u>Budget</u>	<u>Fav/(Unfav)</u>
Sales to Customers	1,346,002	1,535,996	(189,994)	4,596,280	5,318,675	(722,395)
Penalties	6,799	16,667	(9,867)	24,767	66,667	(41,900)
Other Income	99,125	99,674	(549)	437,436	398,697	38,739
Gross Revenue	1,451,927	1,652,337	(200,410)	5,058,483	5,784,039	(725,556)
Cost of Gas	718,988	754,578	35,590	2,227,435	2,532,312	304,877
Gas Distribution	226,999	236,999	10,000	899,191	947,995	48,804
Gas Administration	162,580	210,049	47,469	578,173	840,198	262,025
Ft. Campbell Operations	45,850	41,774	(4,076)	195,588	167,096	(28,492)
Customer Service	118,478	100,534	(17,943)	409,511	402,137	(7,374)
Accounting	51,880	50,619	(1,261)	316,334	202,477	(113,857)
Engineering	43,749	59,795	16,046	182,598	239,179	56,581
Admin & General	63,888	58,527	(5,361)	252,556	234,107	(18,449)
Other Expenses	14,215	10,417	(3,798)	53,083	41,667	(11,416)
Depreciation	153,700	191,667	37,967	613,088	766,667	153,579
Total Operating Expenses	1,600,326	1,714,959	114,633	5,727,557	6,373,834	646,277
Income from Operations	(148,399)	(62,622)	(85,777)	(669,075)	(589,796)	(79,279)
Interest Income	6,186	32,500	(26,314)	28,295	130,000	(101,705)
Other Income (Expense)	267	2,083	(1,817)	1,067	8,333	(7,267)
Interest Expense	(16,278)	(16,051)	(226)	(65,110)	(64,206)	(905)
Debt Amortization Income	3,982	3,982	-	15,926	15,926	0
PILOT	(57,099)	(57,099)	-	(228,395)	(228,395)	-
Total Other Income (Expense)	(62,943)	(34,585)	(28,357)	(248,218)	(138,342)	(109,876)
Total Income / (Loss)	(211,341)	(97,207)	(114,134)	(917,292)	(728,137)	(189,155)
Capital Spend	52,928	623,000	570,072	965,280	2,696,000	1,730,720
Contributed Capital - Cash	-	-	-	-	-	-
Contributed Capital - Non-Cash	-	-	-	-	733,333	(733,333)

FY 2021 Debt Coverage

October, 2020

YTD Net Revenue through

Fiscal Period

4

Actual

System Gross Revenue	\$	30,386,047
System Operating Expenses		22,209,511
		8,176,536
Add: Depreciation Expense		6,492,065
Other Revenue (Expense)		104,669
Net Revenues	\$	14,773,271

Debt Coverage Ratio	2.19
Debt Coverage Ratio Goal	1.70
<i>FY 2020 Coverage Ratio</i>	<i>2.09</i>
<i>FY 2019 Coverage Ratio</i>	<i>2.12</i>

>2.00 = Aaa rating

1.70-2.00 = Aa rating

Debt to Operation Revenue Ratio

October, 2020

FY 2021 Budget

Total Debt	\$	177,406,199
Operating Revenue	\$	91,158,140
Debt/Operating Revenue		1.95

FY 2020 Budget

Total Debt	\$	189,626,801
Operating Revenue	\$	91,158,140
Debt/Operating Revenue		2.08

FY 2019 Actual

Total Debt	\$	210,708,804
Operating Revenue	\$	93,864,185
Debt/Operating Revenue		2.24

FY 2018 Actual

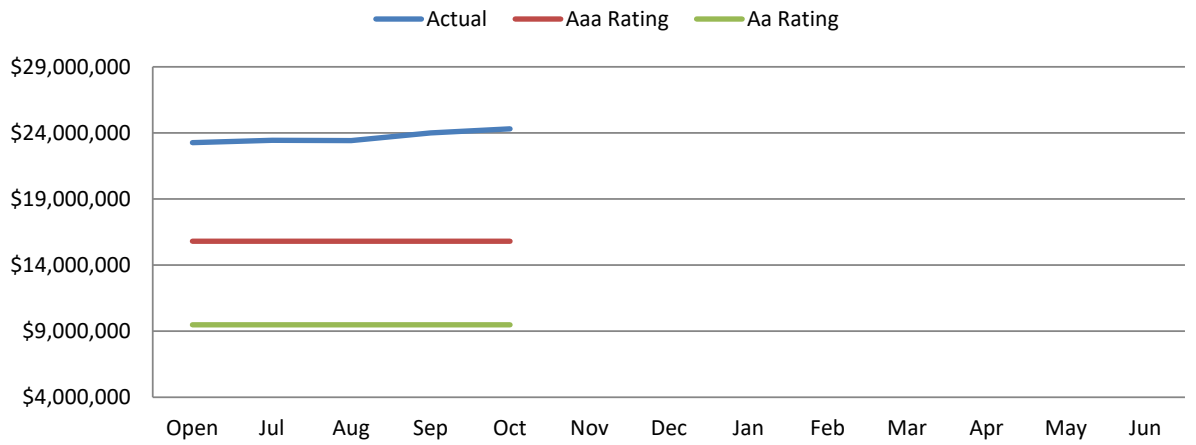
Total Debt	\$	237,996,422
Operating Revenue	\$	90,487,961
Debt/Operating Revenue		2.63

<2.00 = Aaa

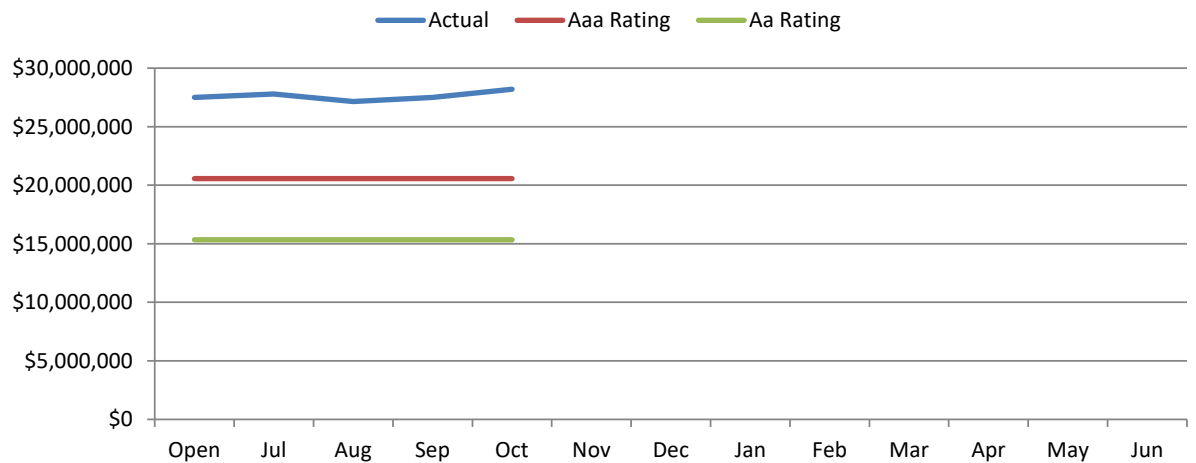
2.00 - 4.00 = Aa

Clarksville Gas & Water FY 2021

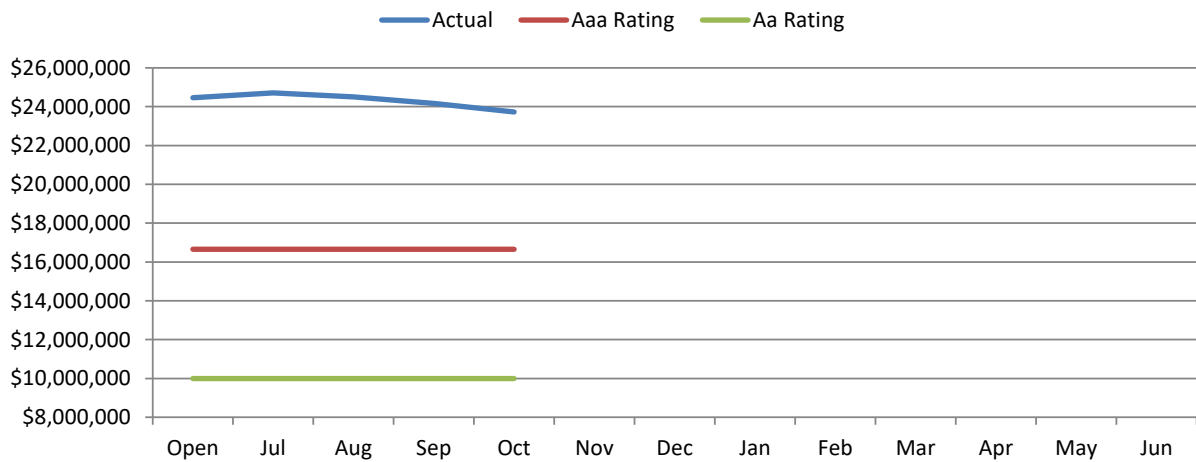
FY 2021 Available Cash - Water



FY 2021 Available Cash - Wastewater



FY 2021 Available Cash - Gas



**GAS & WATER DEPARTMENT
BID SUMMARY
November 19, 2020**

The following bids/proposals have been solicited, opened and have been approved by the Purchasing Director. All are low bid/proposal except where noted.

<u>BID #</u>	<u>DESCRIPTION</u>	<u>AWARDED TO</u>	<u>AMOUNT</u>
4106	Highway 41A Natural Gas Expansion	James N Bush Construction	\$ 497,175.20
4103-P-RB	Industrial Electrical Maintenance	Shermco Industries	See Attached

SOLE SOURCE PURCHASES

1. Future purchases of Sewer Equipment Company of America parts and service from Jet-Vac Equipment Company.
2. Future purchases of John Deere parts, service and equipment from Meade Equipment.
3. Future purchases of Bobcat parts, service and equipment from Bobcat of Nashville.

Bid 4106-Highway 41A Natural Gas Expansion

James N Bush Construction	\$497,175.20*	
King Pipeline & Utility	\$610,545.00	
Mark Rowe Construction	\$626,182.50	
Cleary Construction	\$673,525.00	
Morris Wall Construction Co	\$717,421.34	Local
Progressive Pipeline Construction	\$724,330.00	
Electricom	\$732,838.57	
Equix Energy Services LLC	\$977,345.00	
Roese Construction	\$984,792.50	
Martin Contracting Inc.	No Contractor License information on envelope	
ECS Southeast	No Response	Local
Energy Solutions LLC	No Response	
English Mountain Construction	No Response	
Enterprise Oil	No Response	
Parchman Construction Co	No Response	Local
Reed Construction	No Response	
T.W. Frierson Contractor Inc.	No Response	
Tecs LLC	No Response	
Western Construction Inc.	No Response	

Proposal 4103-P-RB- Industrial Electrical Maintenance

Shermco Industires	See Attached*	
Rains Electric	See Attached	
English Mountain Construction	No Response	
CE Power	No Response	
HS Maintenance	No Response	
Moore Construction Co	No Response	Local
S&W Contracting Co	No Response	
Cliff Corey General Contractors	No Response	
Garney Construction	No Response	
Siemens Industry Inc.	No Response	

*This was a proposal where price was not the only factor in the award.

*Department Recommendation

3. Vendor must be a licensed electrical contractor in Tennessee and Kentucky.

5. RATES

Hourly Rates*:

Engineering

Registered Engineer

\$ 150.00 /hour

Electrical Engineer

\$ 140.00 /hour

Protective Relay / NERC Compliance

Protection & Controls Technician

\$ 150.00 /hour

Electric Motor Field Services & Motor Control

Motor Testing & Maintenance Technician

\$ 120.00 /hour

Motor Control / Drives Technician

\$ 140.00 /hour

LV/MV Motor Control, Drives & Automation

Sr. Drives & Automation Technician

\$ 150.00 /hour

Drives & Automation Technician

\$ 140.00 /hour

Electrical Testing & Maintenance

Project Manager

\$ 140.00 /hour

NETA Certified Technician

\$ 130.00 /hour

Apprentice Level Technician

\$ 110.00 /hour

Materials**

Cost plus** 15 %

Overtime and Double Time***

*When problems are found during scheduled maintenance or additional work needs to be completed to restore equipment to service (emergency or nonemergency), Vendor will present quote (verbal or written) to complete work (based on hourly labor cost and materials prices listed above) to Clarksville Gas and Water representative (see contact below) for authorization to perform work. One hour drive time from and to Vendor's shop to jobsite shall be accepted.

**See Section 6 regarding approved markup of materials.

***Overtime rates (1.5 times the base hourly rates shown above) are acceptable between the hours of 4:00 p.m. and 7:00 a.m., Monday-Friday. Saturdays are also OT.

Double-time rates (2.0 times the base hourly rates shown above) are acceptable in this contract and apply to shifts exceeding 12 hours, Sundays, and holidays.

Clarksville Gas and Water Electrical PM Bid with Rains Electric

RATES

Hourly Rates

Engineering

Registered Engineer \$ 208.00/hour

Electrical Engineer \$ 150.00/hour

Protective Relay / NERC Compliance

Protection & Controls Technician \$ 150.00/hour

Electric Motor Field Services & Motor Control

Motor Testing & Maintenance Technician \$ 150.00/hour

Motor Control/Drives Technician \$ 150.00/hour

LV/MV Motor Control, Drives & Automation

Sr. Drives & Automation Technician \$ 150.00/hour

Drives & Automation Technician \$ 150.00/hour

Electrical Testing & Maintenance

Project Manager \$ 125.00/hour

NETA Certified Technician \$ 108.00/hour

Apprentice Level Technician \$ 67.00/hour

Materials

Cost plus 15%

Criteria

1. NETA firm and key staff. CE Power is an independent, third party entity which meets all (5) requirements in section 1.0 Testing Organization and all (2) requirements in section 1.1 Testing Personnel. We have a total of (12) technicians in our Nashville shop: (3) of which are level III technicians.
2. Project Approach- adhere to NETA testing standards, Clarksville Water scope of work, and our safety procedures.
3. Capacity to Perform- We have 12 local technicians in Nashville and offices in Knoxville with 5 technicians and Louisville with 10 technicians. Engineers in each location.
4. Ability to mobilize and start work. We are an emergency 24/7/365 company and can have at least (1) one technician onsite within 4 hours of call out.
5. Recent firm experience on similar projects. We continue to perform electrical testing for Nashville airport, several water plants including KR Harrington, Omohundro WTP, Murfreesboro Water, etc. We continue to do work on low, medium, and high voltage equipment for utilities, large industrials, commercial buildings and healthcare facilities in the local area and beyond.
6. Pricing (above)
7. VFD/VSD experience- see resumes and marketing material for examples.



Monthly Activity Summary

October 2020

- Assessment Areas:
 - Hazelwood: cost \$2,727,241 / paid \$2,212,250 / remaining \$514,991
 - Oakland: cost \$881,876 / paid \$282,425/ remaining \$599,451
- Water Plant pumped 573 million gallons of treated water into the system and averaged 18.4 million gallons per day. That represents approximately 65 percent of the plant's capacity.
- Wastewater Plant treated 386 million gallons of sewage and averaged 12.4 million gallons per day. That represents approximately 49 percent of the plant's capacity.
- The call center handled 13,296 calls and averaged 428 per day. Each call lasted an average of 3 minutes and 09 seconds.
- Service Department completed 6,209 work orders and responded to 296 after hour calls.
- Gas Division responded to 67 natural gas odor calls.
- Water Division repaired 61 water leaks totaling 1,912 feet of pipe, flushed 385 hydrants, and tested 619 backflow devices.
- Sewer Division reported 19 sewer overflows.
- Engineering Department approved 10 utility plans this month and currently has 29 on-going projects.
- Billing Department read 102,661 meters and sent a total of 94,558 bills and notices

REQUEST FOR PROFESSIONAL SERVICE

1. SELECTION OF FIRM

PROJECT NAME AND SCOPE OF WORK:	Ringgold Road Equalization, Ringgold Creek Force Main as well as Sherwood Forest Lift Station Improvements and Force Main – Project includes design, easement documents and construction plans for sewer system improvements in northwest Clarksville. Design elements include a diversion structure and Equalization Basin at Ringgold Road Lift Station, new force mains for Sherwood Forest Lift Station and Ringgold Creek Lift Station, as well as Lift Station Improvements at Sherwood Forest. Contract Term: approximately 36 months
NAME OF FIRM:	AECOM Technical Services, Inc. (AECOM)
QUALIFICATIONS, COMPETENCE AND INTEGRITY OF FIRM:	AECOM is a qualified, licensed professional and technical services firm, which can design, build, finance and operate infrastructure assets around the world for public- and private-sector clients. AECOM is a leader in all of the key markets that it serves, including facilities, environmental, water, and provides a blend of global reach, local knowledge, innovation and technical excellence in delivering customized and creative solutions that meet the needs of clients' projects. AECOM is readily available to assist the City. Its qualified staff includes seasoned, licensed professional engineers with extensive experience relating to municipal infrastructure.
YEARS OF EXPERIENCE:	Since 1990
SIMILAR PROJECTS PERFORMED FOR THE CITY:	1. Sango Water System Improvements 2. Sanitary Sewer Master Plan and Hydraulic Model 3. CGW CSO Basin Study 4. CSO Modeling Update 5. McClure St. CSO Facility Upgrade
SIMILAR PROJECTS PERFORMED ELSEWHERE:	A few recent, local examples include: 1. Mill Creek / Opryland Equalization Storage Tank (19 million gallons) – Metro Water Services 2. Tiftonia Wastewater Pump Station Replacement & Force Main – City of Chattanooga 3. M.C Stiles WWTP & T.E. Maxson WWTP – Influent Screen Replacement – City of Memphis 4. Moccasin Bend WWTP – Large diameter Piping & Flow Distribution Improvements – City of Chattanooga 5. Clean Water Nashville Overflow Abatement Program (CWNOAP) – Design Manager, multiple wet weather conveyance and storage projects – Metro Water Services
OTHER QUALIFICATIONS:	AECOM is ranked #2 in Engineering Design and #3 in Sewer & Waste (ENR 2020 Top 500 Design Firms). AECOM is a global provider in wet weather conveyance and storage. AECOM's project director previously served as Chief Utility Engineer for CGW and was involved in planning, design and construction management of numerous relevant wastewater projects addressing both wet weather related issues and/or service area growth including:

REQUEST FOR PROFESSIONAL SERVICE

Ringgold Road Equalization, Ringgold Creek Force Main as well as Sherwood Forest Lift Station Improvements and Force Main

AECOM

Page 2

	1. Swan Lake -- Shady Bluff Low Pressure Sewer System 2. Spring Creek Wastewater Improvements -- 24-inch Trunk Sewer, Lift Station & 18-inch Force Main 3. Hwy 76 Force Main Manifold & Lift Stations -- Contracts 1 & 2 4. Steel Stock Gravity Sewer 5. Ringgold Creek Pump Station Improvements
NAMES OF THOSE INVOLVED IN THE SELECTION (MUST BE 2 OR MORE AND MUST HAVE NO CONFLICT OF INTEREST AS PER PURCHASING POLICY):	Garth Branch, PE Y'hanna Perez-Ortiz, PE
DEPARTMENT WHERE FUNDS ARE BUDGETED:	Clarksville Gas & Water Department

SIGNATURE OF DEPARTMENT HEAD OF BUDGETARY DEPT. OR HIS/HER DESIGNEE

06-25-2020
DATE

SIGNATURES OF OTHERS INVOLVED IN SELECTION

25 June 2020
DATE

SIGNATURE OF PURCHASING DIRECTOR

6-30-20
DATE

2. **COST: ONCE ALL SIGNATURES ABOVE HAVE BEEN SECURED, YOU MAY NOW REQUEST PRICING FROM THE SELECTED FIRM. COST SHALL BE REPORTED TO THE PURCHASING DIRECTOR ONCE OBTAINED.**

Ringgold Road WW Improvements \$1,678,600.00
Sherwood Forest PS & FM Improvements \$ 962,000.00

ESTIMATED COST (TO BE PROVIDED ONCE DETERMINED):	\$ 2,640,600.00 (total for both contracts)
--	--

Acknowledgement of cost estimate received:

SIGNATURE OF DEPARTMENT HEAD/DESIGNEE

11-05-2020
DATE

SIGNATURE OF PURCHASING DIRECTOR

11-10-20
DATE

SIGNATURE OF CHIEF FINANCIAL OFFICER

11/6/2020
DATE

Clarksville Gas and Water Department, TN
Date range: 01 Sep 2020 - 30 Sep 2020

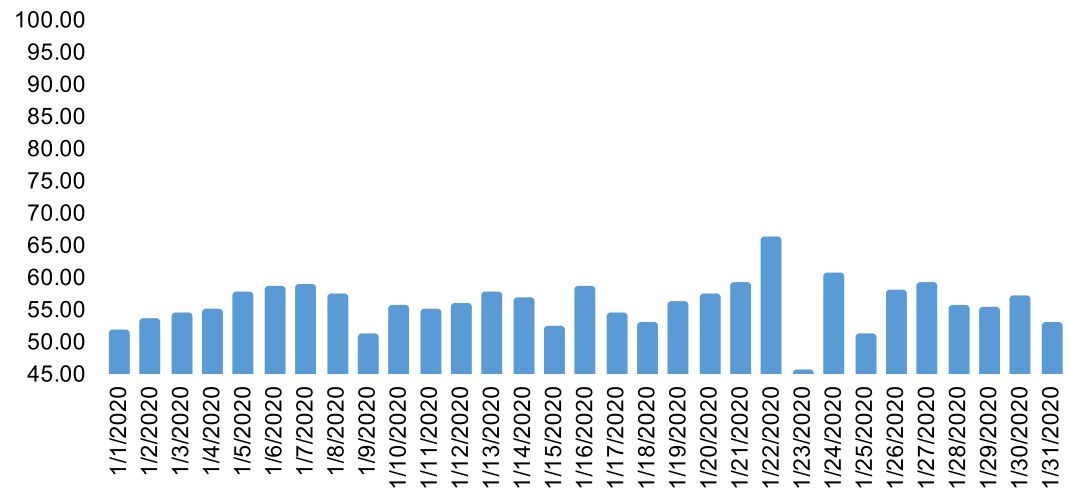
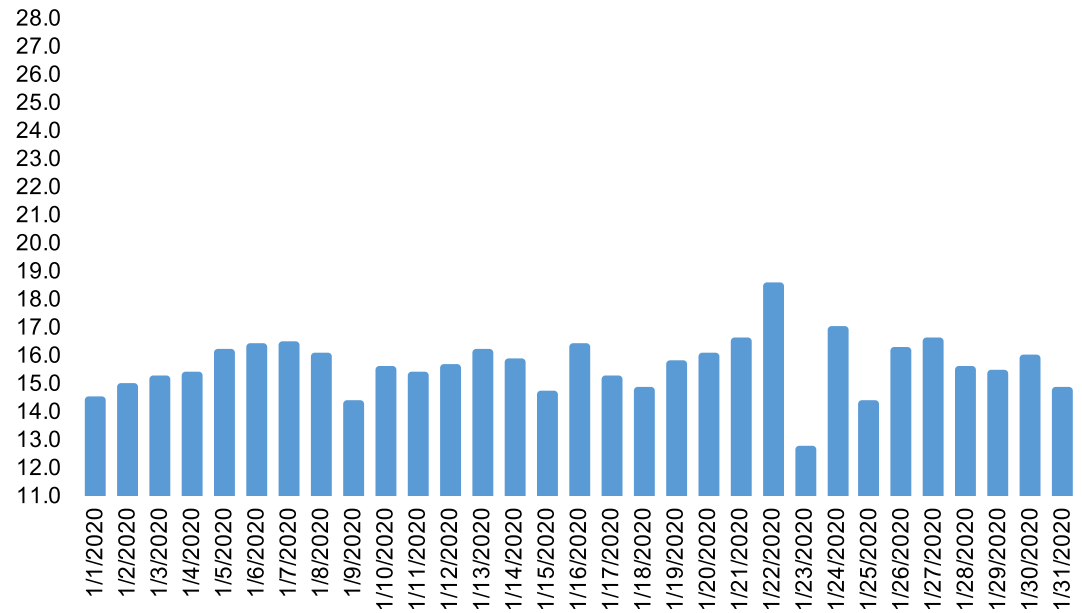
<u>ID</u> ↑	<u>Description</u>	<u>VIN/Serial</u>	<u>Buyer</u>	<u>Type</u>	<u>Sold Amount</u>	<u>Auction Ended</u>	<u>Credit Date</u>
292	Computers, Printers, Faxes etc.		Lee Woodward	USD	\$185.00	29 Sep 2020 08:08 AM ET	
					\$185.00		

Clarksville Gas and Water Department, TN
Date range: 01 Oct 2020 - 31 Oct 2020

<u>ID ↑</u>	<u>Description</u>	<u>VIN/Serial</u>	<u>Buyer</u>	<u>Type</u>	<u>Sold Amount</u>	<u>Auction Ended</u>	<u>Credit Date</u>
293	Ipads and phone clips		Lacen Sablan	USD	\$2,800.00	23 Oct 2020 08:45 AM ET	
					\$2,800.00		

DATE	TOTALS IN MGD	DATE	% of Total Capacity Based on 28 MGD
1/1/2020	14.5	1/1/2020	51.79
1/2/2020	15.0	1/2/2020	53.57
1/3/2020	15.3	1/3/2020	54.64
1/4/2020	15.4	1/4/2020	55.00
1/5/2020	16.2	1/5/2020	57.86
1/6/2020	16.4	1/6/2020	58.57
1/7/2020	16.5	1/7/2020	58.93
1/8/2020	16.1	1/8/2020	57.50
1/9/2020	14.4	1/9/2020	51.43
1/10/2020	15.6	1/10/2020	55.71
1/11/2020	15.4	1/11/2020	55.00
1/12/2020	15.7	1/12/2020	56.07
1/13/2020	16.2	1/13/2020	57.86
1/14/2020	15.9	1/14/2020	56.79
1/15/2020	14.7	1/15/2020	52.50
1/16/2020	16.4	1/16/2020	58.57
1/17/2020	15.3	1/17/2020	54.64
1/18/2020	14.9	1/18/2020	53.21
1/19/2020	15.8	1/19/2020	56.43
1/20/2020	16.1	1/20/2020	57.50
1/21/2020	16.6	1/21/2020	59.29
1/22/2020	18.6	1/22/2020	66.43
1/23/2020	12.8	1/23/2020	45.71
1/24/2020	17.0	1/24/2020	60.71
1/25/2020	14.4	1/25/2020	51.43
1/26/2020	16.3	1/26/2020	58.21
1/27/2020	16.6	1/27/2020	59.29
1/28/2020	15.6	1/28/2020	55.71
1/29/2020	15.5	1/29/2020	55.36
1/30/2020	16.0	1/30/2020	57.14
1/31/2020	14.9	1/31/2020	53.21

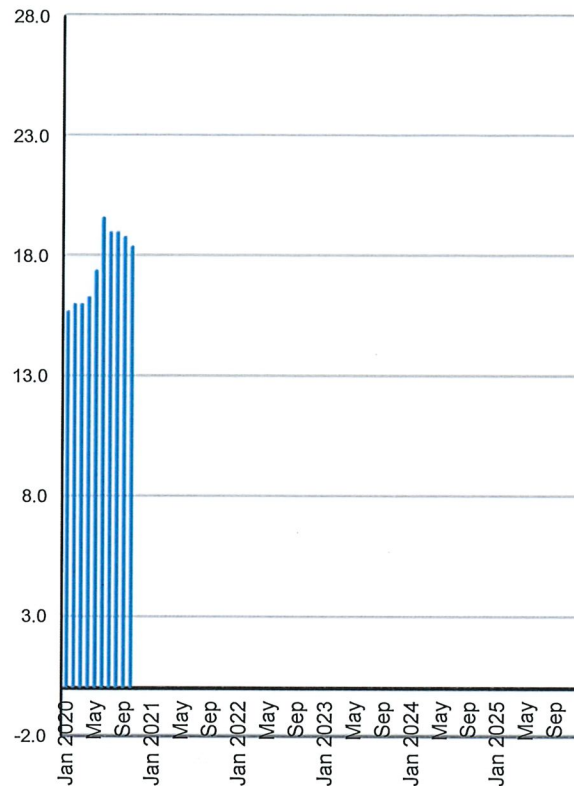
Daily Finished Totals MGD



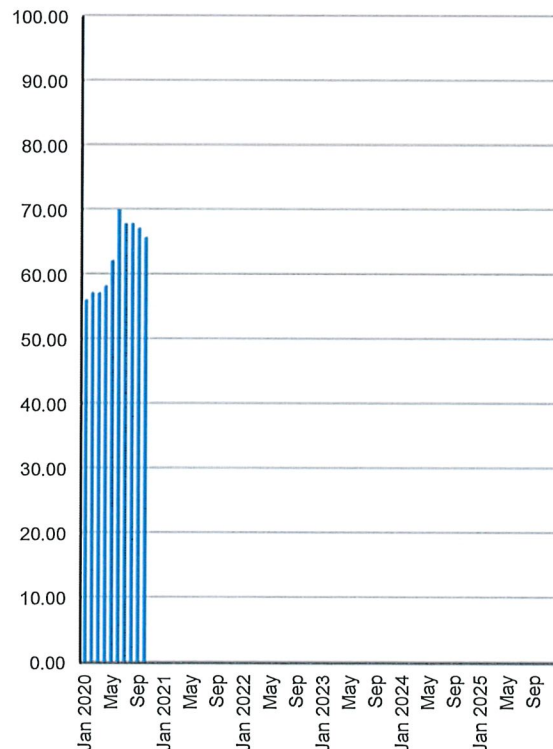
Monthly
total 486.1

Date	Amt	Date	% of Capacity
Jan 2020	15.7	Jan 2020	56.07
Feb	16.0	Feb	57.14
Mar	16.0	Mar	57.14
Apr	16.3	Apr	58.21
May	17.4	May	62.14
Jun	19.6	Jun	70.00
Jul	19.0	Jul	67.86
Aug	19.0	Aug	67.86
Sep	18.8	Sep	67.14
Oct	18.4	Oct	65.71
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2021		Jan 2021	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2022		Jan 2022	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2023		Jan 2023	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2024		Jan 2024	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2025		Jan 2025	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00

Clarksville Average Monthly Pumpage

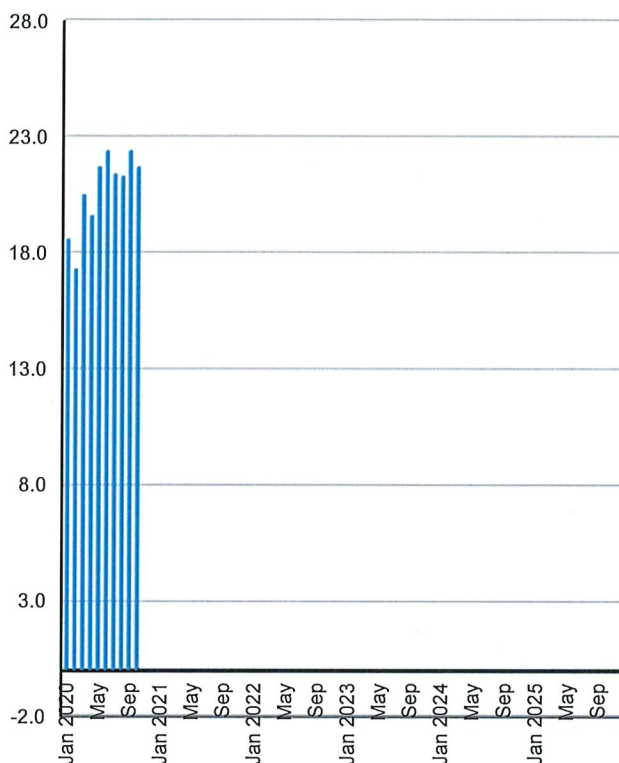


% of Capacity Based on 28 MGD

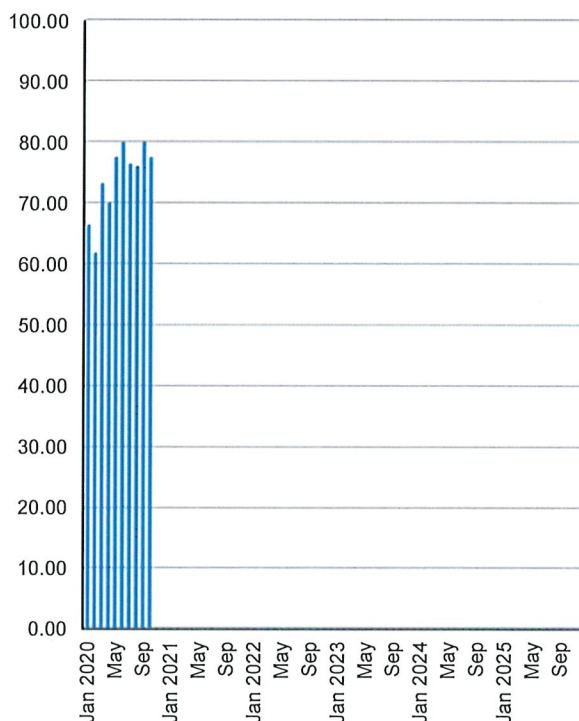


Date	Amt	Date	% of Capacity
Jan 2020	18.6	Jan 2020	66.43
Feb	17.3	Feb	61.79
Mar	20.5	Mar	73.21
Apr	19.6	Apr	70.00
May	21.7	May	77.50
Jun	22.4	Jun	80.00
Jul	21.4	Jul	76.43
Aug	21.3	Aug	76.07
Sep	22.4	Sep	80.00
Oct	21.7	Oct	77.50
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2021		Jan 2021	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2022		Jan 2022	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2023		Jan 2023	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2024		Jan 2024	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2025		Jan 2025	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00

Clarksville Maximum Daily Pumpage



% of Capacity Based on 28 MGD



Monthly Bypass / Overflow Report							
System:	Wastewater Collection System				County:	Montgomery	
Month:	October	Year	2020		Permit#:	TN 0020656	
System Contact:	Mike Crawford Public Utility Senior Manager				Phone Number:	931-553-2424	
Type of Overflow	Day	Rain Fall	Location of Bypass/Overflow Nearest Stream	Duration / Time		Gallons	Reason for Bypassing and Remedial Action
				From:	To:		
U	8		Beacon Hills LS	11:00AM	11:15AM	500	unstopped pad drainline, washed down area
U	9		170 Hickory Grove MH# 13007	8:30PM	9:15PM	450	unstopped mainline, spread lime
U	11		Applegrove 1 LS	12:30PM	12:40PM	1,000	power outage CDE, hooked up generator, spread lime
U	14		Oak st LS	12:45PM	1:15PM	4,500	transducer fell to bottom, reset transducer
T	19		Ringgold RD LS MH #18275	2:25PM	3:20PM	4,000	heavy rainfall, rain event stopped
U	21		19 Ellington Terrace MH# 15134	1:30PM	2:00PM	150	unstopped mainline, spread lime
U	27		Steel stock LS MH # 366	7:30AM	12:30AM	7,500	ARV broken, replaced ARV, spread lime
T	28		Briarwood LS	8:28PM	8:51PM	1,150	heavy rainfall, rain event stopped
T	28		Dale Terrace dr LS	8:28PM	9:47PM	7,900	heavy rainfall, rain event stopped
T	28		Trice landing LS	7:30PM	8:41PM	22,200	heavy rainfall, rain event stopped
T	28		Middleton LS MH# 7680	7:30PM	9:30PM	6,000	heavy rainfall, rain event stopped
T	28		Oak st LS	7:50PM	9:15PM	21,250	heavy rainfall, rain event stopped
T	28		Hayes st LS	8:30PM	9:15PM	2,250	heavy rainfall, rain event stopped
T	28		Sherwood forest LS MH# 8328	8:00PM	9:40PM	22,500	heavy rainfall, rain event stopped
T	28		Savannah LS MH# 10660	7:44PM	9:22PM	16,050	heavy rainfall, rain event stopped
T	28		Bellamy ln LS MH# 19160	7:30PM	10:00PM	41,250	heavy rainfall, rain event stopped
T	28		Ringgold RD LS MH #18275	7:20PM	12:05AM	24,000	heavy rainfall, rain event stopped
T	28		New Meadowbrook MH# 6723	7:40PM	11:00PM	131,000	heavy rainfall, rain event stopped
T	28		Turner Ln LS	6:56PM	8:21PM	17,200	heavy rainfall, rain event stopped
Type of Overflow							
U-All Other Occurrences T-Wet Weather Overflows							

METER READING AND SERVICE DEPARTMENT MONTHLY / YEARLY REPORT

METER READING

		<u>Meters Read</u>			<u>Accuracy Rate</u>
		<u>Gas</u>	<u>Water</u>	<u>Total</u>	
October	2020	29,118	73,543	102,661	99.87%
September	2020	29,064	73,668	102,732	99.87%
August	2020	29,015	73,617	102,632	99.89%
July	2020	28,976	73,380	102,356	99.93%
June	2020	28,941	73,079	102,020	99.89%
May	2020	28,908	72,850	101,758	99.92%
April	2020	28,897	72,590	101,487	99.93%
March	2020	28,863	72,359	101,222	99.93%
February	2020	28,827	72,153	100,980	99.91%
January	2020	28,778	71,996	100,774	99.89%
December	2019	28,732	71,834	100,566	99.86%
November	2019	28,678	71,703	100,381	99.88%
October	2019	28,672	71,447	100,119	99.92%
12 Month Total		375,469	944,219	1,319,688	99.90%

SERVICE DEPARTMENT

		<u>Service Orders</u>	<u>After Hours Calls</u>
October	2020	6209	296
September	2020	5630	265
August	2020	5760	296
July	2020	5771	287
June	2020	3471	139
May	2020	3108	178
April	2020	2424	270
March	2020	3804	275
February	2020	4251	416
January	2020	4985	361
December	2019	4467	290
November	2019	4465	391
October	2019	4778	436
12 Month Total		59,123	3,900