



GAS & WATER COMMITTEE AGENDA

DATE: September 19, 2019

LOCATION: City Hall Conference Room

TIME: 3:45 p.m.

I. CALL TO ORDER

II. ANNOUNCE MEMBERS IN ATTENDANCE (VERIFY QUORUM)

III. ADOPTION OF MINUTES: August 22, 2019

IV. 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)
 - Engineering Services for the Utility Relocation at the Intersection of Whitfield Road and Needmore Road from HDR Engineering, Inc. in the amount of \$253,000.00.
 - Miscellaneous Geotechnical, Construction Materials Testing and Environmental Assessment Services from Earth Science Engineering, LLC in the amount of \$15,000.00.
5. Sale of Surplus Property on GovDeals.com for the month of August 2019 in the amount of \$32,368.99. – Camille Thomas (attached)
6. Department Reports – Mark Riggins (attached)

V. COMMITTEE ACTION REQUIRED

VI. CITY COUNCIL ACTION REQUIRED

1. **ORDINANCE 26- 2019-20** pertaining to advertising, logos, emblems, etc. on City water tower tanks. – Mark Riggins (attached)

VII. ADJOURNMENT

VIII. PUBLIC COMMENTS (5 minutes each)



**GAS & WATER COMMITTEE MEETING
MINUTES
August 22, 2019**

City Hall Conference Room
3:45 p.m.

MEMBERS PRESENT

Chairman Valerie Guzman, Ron Erb, Gary Norris

MEMBERS ABSENT

Tim Chandler, David Allen

OTHERS PRESENT

Mark Riggins, Fred Klein, Camille Thomas, Stephanie Fox, Mandy Phillips

The meeting was called to order at 3:45 p.m. by Chairman Valerie Guzman.

Minutes for the June 20, 2019 Committee Meeting were unanimously approved.

Bad Debt was reported by Fred Klein by explaining the write-off report for the month of July 2019.

Fred Klein also reported the Financials for the month of July 2019.

Camille Thomas reported the Bid-Summary for the month.

Camille Thomas also reported the following professional services:

- Design Services for a Sewer Hydraulic Model Update from Hazen & Sawyer in the amount of \$250,000.00.

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

ORDINANCE XX-2019-20 relative to water tank logos was removed from the agenda and will be brought back to the committee at a future meeting.

Meeting was adjourned at 4:11 p.m.

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
Sep-18	\$ 16,989.37	74	\$ 229.59	\$ 1,539.47	\$ 11,125.46	86	\$ 129.37
Oct-18	\$ 15,415.15	110	\$ 140.14	\$ 2,598.68	\$ 12,750.00	86	\$ 148.26
Nov-18	\$ 12,737.58	108	\$ 117.94	\$ 3,846.09	\$ 6,781.43	72	\$ 94.19
Dec-18	\$ 14,244.50	88	\$ 161.87	\$ 1,186.95	\$ 7,197.40	67	\$ 107.42
Jan-19	\$ 23,713.20	103	\$ 230.23	\$ 3,103.31	\$ 13,023.89	90	\$ 144.71
Feb-19	\$ 11,854.67	72	\$ 164.65	\$ 4,964.59	\$ 6,351.24	60	\$ 105.85
Mar-19	\$ 8,537.75	64	\$ 133.40	\$ 2,435.01	\$ 12,928.83	82	\$ 157.67
Apr-19	\$ 16,200.19	93	\$ 174.20	\$ 3,298.45	\$ 6,624.85	59	\$ 112.29
May-19	\$ 9,301.87	76	\$ 122.39	\$ 2,680.30	\$ 5,418.47	57	\$ 95.06
Jun-19	\$ 11,824.21	83	\$ 142.46	\$ 1,812.71	\$ 15,924.18	69	\$ 230.79
Jul-19	\$ 9,275.71	110	\$ 84.32	\$ 4,262.92	\$ 11,926.77	87	\$ 137.09
Aug-19	\$ 6,965.36	66	\$ 105.54	\$ 2,155.02	\$ 11,763.70	96	\$ 122.54
	\$ 157,059.56	1047	\$ 150.01	\$ 33,883.50	\$ 121,816.22	911	\$ 133.72

21.57%

CGW Water Department
August, 2019

	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	2,033,473	1,854,375	179,098	4,068,023	3,708,750	359,273
Penalties	30,792	27,500	3,292	65,227	55,000	10,227
Other Income	323,468	230,517	92,952	633,893	461,033	172,860
Gross Revenue	2,387,734	2,112,392	275,342	4,767,142	4,224,783	542,359
Water Plant	389,210	323,473	(65,737)	691,357	646,946	(44,411)
Water Transmission	436,900	407,259	(29,641)	730,098	814,517	84,419
Water Administration	23,500	31,377	7,877	47,430	62,754	15,324
Customer Service	287,369	269,016	(18,354)	602,827	538,031	(64,796)
Accounting	66,638	57,747	(8,891)	133,400	115,493	(17,906)
Engineering	159,400	90,868	(68,531)	259,668	181,737	(77,932)
Admin & General	53,728	58,029	4,301	108,986	116,058	7,072
Other Expenses	12,622	11,250	(1,372)	27,079	22,500	(4,579)
Depreciation	488,984	493,500	4,516	977,148	987,000	9,852
Total Operating Expenses	1,918,350	1,742,518	(175,832)	3,577,994	3,485,036	(92,958)
Income from Operations	469,384	369,874	99,510	1,189,148	739,747	449,401
Interest Income	56,735	45,667	11,068	117,318	91,333	25,985
Other Income (Expense)	505	2,500	(1,995)	505	5,000	(4,495)
Interest Expense	(88,972)	(94,691)	5,719	(177,540)	(189,382)	11,842
Debt Amortization Income	18,124	18,145	(22)	36,247	36,291	(43)
PILOT	(83,083)	(83,083)	-	(166,166)	(166,166)	-
Total Other Income (Expense)	(96,691)	(111,462)	14,771	(189,635)	(222,923)	33,288
Total Income / (Loss)	372,693	258,412	114,281	999,513	516,824	482,689
Capital Spend	1,017,010	909,000	(108,010)	2,633,940	1,818,000	(815,940)
Contributed Capital - Cash	-	-	-	-	-	-
Contributed Capital - Non-Cash	-	583,333	(583,333)	-	1,166,667	(1,166,667)

CGW Wastewater Department
August, 2019

	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	3,243,363	3,226,167	17,196	6,427,114	6,452,333	(25,220)
Penalties	52,877	50,000	2,877	111,755	100,000	11,755
Other Income	357,300	227,225	130,075	678,529	454,450	224,079
Gross Revenue	3,653,539	3,503,392	150,147	7,217,398	7,006,783	210,614
Wastewater Plant	419,503	404,954	(14,549)	801,589	809,909	8,319
Wastewater Collection	534,235	506,154	(28,081)	986,413	1,012,307	25,894
Wastewater Administration	47,766	49,220	1,453	95,241	98,439	3,198
Customer Service	153,024	171,671	18,647	348,422	343,342	(5,080)
Accounting	59,762	63,764	4,002	129,226	127,527	(1,699)
Engineering	115,366	125,096	9,730	226,844	250,191	23,347
Admin & General	53,606	57,929	4,323	108,730	115,858	7,127
Other Expenses	12,746	11,250	(1,496)	27,265	22,500	(4,765)
Depreciation	944,283	1,024,083	79,801	1,886,988	2,048,167	161,178
Total Operating Expenses	2,340,290	2,414,120	73,830	4,610,719	4,828,240	217,520
Income from Operations	1,313,249	1,089,272	223,977	2,606,678	2,178,544	428,134
Interest Income	50,195	33,333	16,862	100,687	66,667	34,021
Other Income (Expense)	197	500	(303)	197	1,000	(803)
Interest Expense	(613,541)	(648,162)	34,620	(1,220,768)	(1,296,323)	75,555
Debt Amortization Income	103,446	126,849	(23,403)	206,892	253,698	(46,806)
PILOT	(192,752)	(192,752)	(0)	(385,503)	(385,503)	0
Total Other Income (Expense)	(652,455)	(680,231)	27,776	(1,298,495)	(1,360,462)	61,967
Total Income / (Loss)	660,794	409,041	251,753	1,308,183	818,082	490,101
Capital Spend	470,858	967,000	496,142	1,099,844	1,934,000	834,156
Contributed Capital - Cash	-	-	-	-	-	-
Contributed Capital - Non-Cash	-	458,333	(458,333)	0	916,667	(916,667)

CGW Gas Department
August, 2019

	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	1,276,911	1,401,950	(125,039)	2,415,144	2,650,960	(235,816)
Penalties	8,975	10,000	(1,025)	24,541	20,000	4,541
Other Income	72,599	89,187	(16,588)	241,812	178,373	63,438
Gross Revenue	1,358,484	1,501,137	(142,653)	2,681,496	2,849,333	(167,837)
Cost of Gas	581,284	739,543	158,259	1,033,661	1,321,737	288,076
Gas Distribution	197,191	226,235	29,044	372,540	452,471	79,931
Gas Administration	112,873	195,094	82,222	241,786	390,189	148,403
Ft. Campbell Operations	47,679	37,244	(10,436)	87,353	74,488	(12,865)
Customer Service	80,578	115,640	35,062	197,751	231,280	33,530
Accounting	66,532	55,486	(11,046)	51,051	110,972	59,921
Engineering	41,719	50,981	9,262	82,743	101,962	19,220
Admin & General	53,496	57,872	4,375	108,480	115,744	7,264
Other Expenses	10,763	11,250	487	23,299	22,500	(799)
Depreciation	146,418	178,333	31,916	293,826	356,667	62,841
Total Operating Expenses	1,338,533	1,667,679	329,146	2,492,489	3,178,009	685,520
Income from Operations	19,951	(166,542)	186,494	189,007	(328,676)	517,683
Interest Income	46,132	30,750	15,382	101,453	61,500	39,953
Other Income (Expense)	197	500	(303)	16,727	1,000	15,727
Interest Expense	(17,839)	(19,064)	1,225	(35,678)	(38,128)	2,451
Debt Amortization Income	3,982	3,982	(0)	7,963	7,963	(0)
PILOT	(53,690)	(53,690)	(0)	(107,380)	(107,380)	0
Total Other Income (Expense)	(21,219)	(37,523)	16,304	(16,915)	(75,045)	58,131
Total Income / (Loss)	(1,268)	(204,065)	202,798	172,092	(403,721)	575,813
Capital Spend	192,980	520,000	327,020	798,208	1,040,000	241,792
Contributed Capital - Cash	-	-	-	-	-	-

FY 2019 Debt Coverage

August, 2019

YTD Net Revenue through
Fiscal Period

2

Actual

System Gross Revenue	\$ 14,666,036
System Operating Expenses	10,681,203
	3,984,833
Add: Depreciation Expense	3,157,962
Other Revenue (Expense)	336,888
Net Revenues	\$ 7,479,683

Debt Coverage Ratio	2.16
Debt Coverage Ratio Goal	1.70
<i>FY 2019 Coverage Ratio</i>	<i>2.12</i>
<i>FY 2018 Coverage Ratio</i>	<i>2.04</i>

>2.00 = Aaa rating

1.70-2.00 = Aa rating

Debt to Operation Revenue Ratio

August, 2019

FY 2020 Budget

Total Debt	\$ 189,626,801
Operating Revenue	\$ 87,996,217
Debt/Operating Revenue	2.15

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

FY 2017 Actual

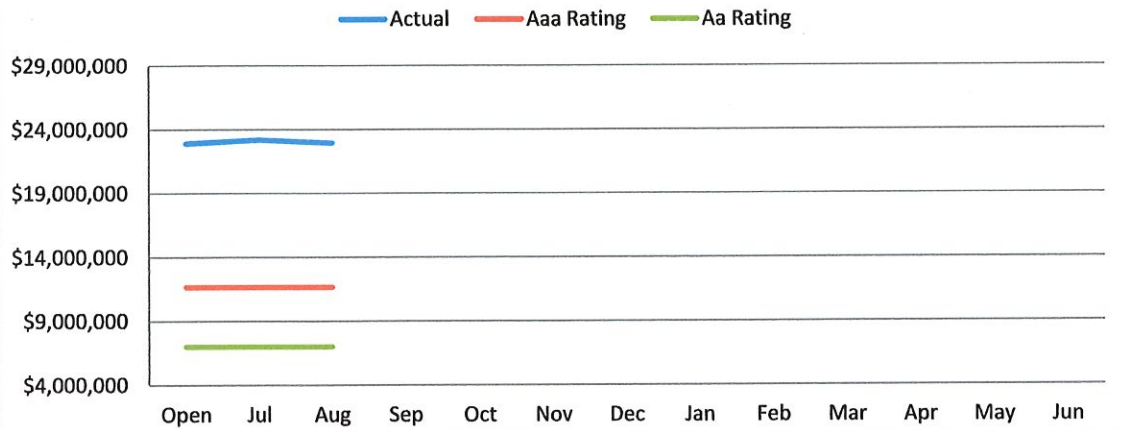
Total Debt	\$ 250,788,679
Operating Revenue	\$ 83,911,143
Debt/Operating Revenue	2.99

<2.00 = Aaa

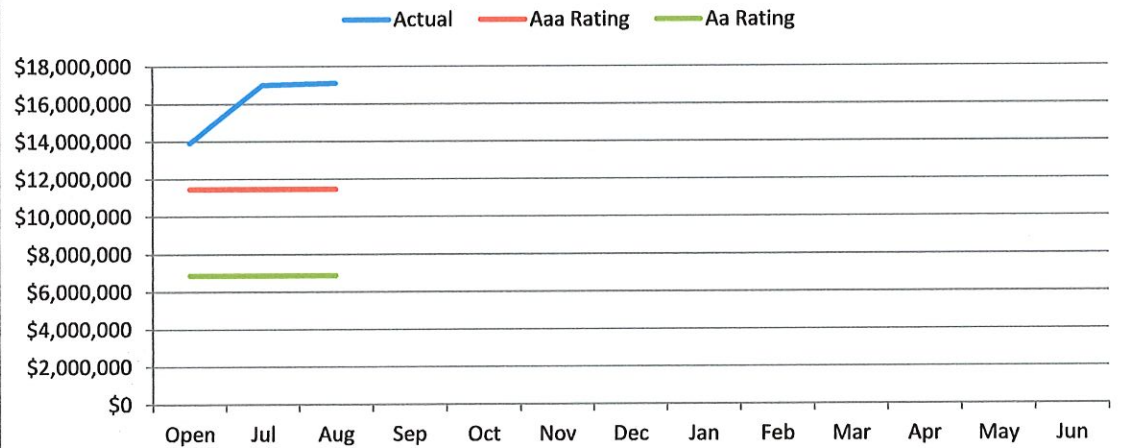
2.00 - 4.00 = Aa

Clarksville Gas & Water FY 2020

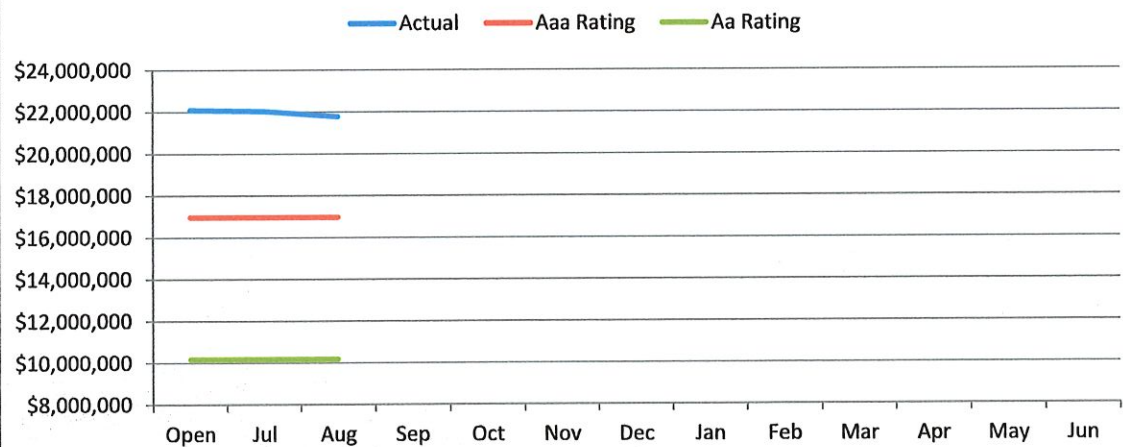
FY 2020 Available Cash - Water



FY 2020 Available Cash - Wastewater



FY 2020 Available Cash - Gas



**GAS & WATER DEPARTMENT
BID SUMMARY
September 19, 2019**

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>
3960	Removal & Disposal of Refuse & Waste	Kennedy Roll Off Service	\$ 59.50 per ton
3965	Brass Curb Stops & Assorted Brass Fittings & Backflow Preventers	Core & Main	\$ 237,473.72
3966	Pipe & Fernco Fittings, Hydraulic Cement, Saddles & Gasketed Tee's	Fortiline Waterworks	\$ 62,501.72
3967	Various Valves & Saddles	Core & Main	\$ 199,806.67
3971	Copper Water Meter Yokes w/Single Check Valve	Southern Pipe & Supply	\$ 222,275.80
3972	Copper Water Meter Yokes w/Dual Check Valve	Southern Pipe & Supply	\$ 69,230.75
3975	23% Hydrofluosilicic Acid	Univar	\$ 1.5270 per gallon

SOLE SOURCE PURCHASES:

1. Future purchases of Colilert reagent, IDEXX vessel, HPC test kits from IDEXX Distribution.
2. Future purchases of factory-approved parts for Aries equipment from Reliability Point LLC.
3. Future purchases of Rosemount products from Emerson's Instrument & Valve Service.
4. Future purchases of Beck actuators and parts from Harold Beck & Sons, Inc.
5. Future purchases of FOG inspections from Monitoring and Management Services, LLC.
6. Future purchases of Flygt products and parts from Nedrow & Associates.
7. Future purchases of King Innovation products and parts from CGS, Inc.
8. Future purchases of Honeywell Process Solutions products and parts from Ed Young Sales Company, Inc.
9. Future purchases of E-One pumps and parts from Environment One Corp.
10. Future purchases of Smith and Lovelace pumps and parts from Van Brocklin & Associates, Inc.
11. Feasibility study in relation to a possible pipeline from Todd County for a redundant gas source from D2 Energy. Price to be determined.
12. Future purchases of Camfil products from Camfil.

13. Future purchases of Acrulog products from Detection Instruments Corp.
14. Future purchases of model 332P-AP pump controllers from Devar, Inc.

PROPRIETARY PURCHASE:

1. Future purchases of Microbiological, Inorganics, Organics, and Unregulated Contaminant Monitoring Analyses for the Water & Wastewater Systems from Microbac and Environmental Science Laboratories.

STATE CONTRACT PURCHASES:

1. 2019 Ford F-650 Regular Cab Truck from Ford of Murfreesboro in the amount of \$149,533.00.
2. Two 2019 Ford F-250 Extended Cab Trucks from Ford of Murfreesboro in the amount of \$93,525.00.

NIPA CONTRACT PURCHASE:

1. Office Cleaning Supplies from Kelsan, Inc. in the amount of \$ 20,600.00.

EMERGENCY PURCHASES:

1. Repair of 18' Concrete Sewer Main in the Area of Palomino Drive / Ranch Hill Drive / Brentwood Circle from Insituform in the amount of \$ 135,000.00.
2. 18' PVC pipe for the 18' Sewer Main Repair from Sanderson Pipe in the amount of \$ 4,586.40.
3. Replacement of 2 HVAC units from Action Air in the amount of \$ 26,100.00.

Bid # 3960-- Removal & Disposal of Refuse & Waste:

Kennedy Roll off Service	\$ 59.50 per ton*
Waste Management	Required forms were not signed
Dependable Disposal Inc.	No Response
Waste Industries	No Response
Bobby Outlaw Disposal	No Response
Clarksville Disposal	No Response
Cumberland Disposal	No Response
Cumberland Sanitation	No Response
Lee Disposal Services	No Response
Bi-County Solid Waste Management	No Response

Bid # 3965-- Brass Curb Stops & Assorted Brass Fittings & Backflow Preventers:

Core & Main	\$ 237,473.72*
Fortiline Waterworks	\$ 17,604.05**
Ferguson Waterworks	\$ 25,116.00**
Consolidated Pipe & Supply	\$ 253,250.75
Kenny Pipe & Supply	No Bid
CI Thornburg Co.	No Response

G&C Supply Co.	No Response
Macomb Pipe & Supply	No Response
Southern Pipe & Supply	No Response
Hayes Pipe & Supply	No Response

** Did not bid all items

Bid # 3966– Pipe & Fernco Fittings, Hydraulic Cement, Saddles & Gasketed Tee's:

Fortiline Waterworks	\$ 62,501.72*
CI Thornburg Co.	\$ 16,089.10**
Consolidated Pipe & Supply	\$ 64,091.25
Southern Pipe & Supply	\$ 67,172.12
Core & Main	\$ 71,706.50
Ferguson Waterworks	\$ 74,830.12
Kenny Pipe & Supply	No Bid
G&C Supply Co.	No Response
Hayes Pipe & Supply	No Response
General Utilities Pipe & Supply	No Response

**Did not bid all items.

Bid # 3967– Various Valves & Saddles:

Core & Main	\$ 199,806.67*
Ferguson Waterworks	\$ 81,640.54**
CI Thornburg Co.	\$ 138,063.35**
Fortiline Waterworks	\$ 152,797.63**
Consolidated Pipe & Supply	\$ 165,705.75**
G&C Supply Co.	\$ 184,171.29**
Southern Pipe & Supply	\$ 187,180.23**
General Utilities Pipe & Supply	\$ 246,094.21
Kenny Pipe & Supply	No Bid
Hayes Pipe & Supply	No Response
Volunteer Utility Sales	No Response

** Did not bid all items

Bid # 3971– Copper Water Meter Yokes w/ Single Check Valves:

Southern Pipe & Supply	\$ 222,275.80*
Ferguson Waterworks	\$ 223,985.50
G&C Supply Co.	\$ 224,612.60
Hayes Pipe & Supply	\$ 224,655.00
Kenny Pipe & Supply	\$ 230,530.20
Fortiline Waterworks	\$ 230,667.60
Consolidated Pipe & Supply	\$ 363,877.50
Core & Main	\$ 375,758.30
General Utilities Pipe & Supply	No Response

Macomb Pipe & Supply	No Response
Volunteer Utility Sales	No Response

Bid # 3972--Copper Water Meter Yokes w/ Dual Check Valves:

Southern Pipe & Supply	\$ 69,230.75*
G&C Supply Co.	\$ 66,525.00**
Ferguson Waterworks	\$ 69,695.00
Core & Main	\$ 70,303.82
Hayes Pipe & Supply	\$ 70,878.75
Kenny Pipe & Supply	\$ 72,992.00
CI Thornburg Co.	\$ 73,325.40
Fortiline Waterworks	\$ 89,085.35
General Utilities Pipe & Supply	No Response
Volunteer Utility Sales	No Response

** Did not bid all items

Bid # 3975-- 23% Hydrofluosilicic Acid:

Univar	\$ 1.5270 per gallon*
Core Chem Inc.	\$ 2.15 per gallon
Shannon Chemical Corp.	\$ 3.77 per gallon
American Development	No Bid
Allied Universal Corp.	No Bid
GEO Specialty Chemicals	No Bid
Pencco Inc.	No Bid
Harcros Chemical	No Response
Brenntag Mid-South Inc.	No Response
Source Technologies	No Response
Kemira Water Solutions	No Response
Industrial Chemicals Inc.	No Response
Donav Carbon Corp.	No Response
US Peroxide, LLC	No Response
Siemens Industry Inc.	No Response
Chem Trade	No Response
MWV Specialty Chemicals	No Response
Taylor Chemical Group	No Response
Mosaic Group Nutrition	No Response
Chemco Industries Inc.	No Response
Gulbrandsen Technologies Inc.	No Response
Marubeni Specialty Chemicals	No Response
Premier Magnesia LLC	No Response
Aulick Chemical Solutions Inc.	No Response
Solenis LLC	No Response
Vertex Chemical Corp.	No Response
Oxbow Activated Carbon LLC	No Response
Hawkins Inc.	No Response
Ulrich Chemical Inc.	No Response

Lucier Chemical Industries
DPC Enterprise

No Response
No Response

*Department Recommendation

REQUEST FOR PROFESSIONAL SERVICE

1. SELECTION OF FIRM

PROJECT NAME AND SCOPE OF WORK:	Utility Relocation at Intersection of Whitfield Road and Needmore Road: Consultant shall provide engineering services for the relocation of utilities at the intersection of Whitfield Road and Needmore Road. Consultant services comprise preparation of utility relocation plans and construction documents associated with the roadway improvements.
NAME OF FIRM:	HDR Engineering, Inc.
QUALIFICATIONS, COMPETENCE AND INTEGRITY OF FIRM:	HDR is readily available to assist the City and has qualified staff including licensed professional engineers with experience relating not only to municipal infrastructure but also all aspects of planning, traffic engineering, roadway design, bridge design, and associated support services.
YEARS OF EXPERIENCE:	102 Years (Founded in 1917)
SIMILAR PROJECTS PERFORMED FOR THE CITY (as Florence & Hutcheson later known as ICA Engineering, which was acquired by HDR):	1. TDOT Utility Relocation at Trenton Road and Tylertown Road 2. TDOT Utility Relocation at SR149/SR13 3. TDOT Utility Relocation at State Route 13 from Cracker Barrel Drive to International Boulevard 4. TDOT Utility Relocation at SR 76 Intersection at Denny Road/ Rotary Park Drive
SIMILAR PROJECTS PERFORMED ELSEWHERE:	1. Lone Oak Water Main Replacement, Paducah, Kentucky – Included more than 41,000 linear feet of water main, service lines, meters and all related equipment. 2. West Central Water Main Replacement, Paducah, Kentucky – Included more than 25,000 linear feet of water main replacement. 3. KY 70 Water and Sewer Relocation, Madisonville, Kentucky – Relocation of 18,000 linear feet of 6" – 10" water main. 5,200 linear feet of 4" force main and 2 submersible sewer pump stations.
OTHER QUALIFICATIONS:	HDR has qualified staff including licensed professional engineers with experience relating not only to municipal infrastructure but also all aspects of planning, traffic engineering, roadway design, bridge design, and associated support services.
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 Tom Heath, PE
DEPARTMENT WHERE FUNDS ARE BUDGETED:	Clarksville Gas & Water Department

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

05-16-2019
DATE

Tom Heath
SIGNATURES OF OTHERS INVOLVED IN SELECTION

5/17/2019
DATE

[Signature]
SIGNATURE OF PURCHASING DIRECTOR

5-17-19
DATE

REQUEST FOR PROFESSIONAL SERVICE

Utility Relocation at Intersection of Whitfield Road and Needmore Road

HDR Engineering, Inc.

Page 2

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.**

ESTIMATED COST (TO BE PROVIDED ONCE DETERMINED):	\$ 253,000.—
--	--------------

Acknowledgement of cost estimate received:

SIGNATURE OF DEPARTMENT HEAD/DESIGNEE

09-04-2019
DATE

SIGNATURE OF PURCHASING DIRECTOR

9-5-19
DATE

SIGNATURE OF CHIEF FINANCIAL OFFICER

9/4/19
DATE

REQUEST FOR PROFESSIONAL SERVICE

1. SELECTION OF FIRM

PROJECT NAME AND SCOPE OF WORK:	Miscellaneous Geotechnical, Construction Materials Testing and Environmental Assessment Services – Services will comprise geotechnical and construction materials testing services related to capital improvement projects and in support of operations, as needed. Work is anticipated to be issued in form of individual work orders on a case-by-case basis. Requests for a cost proposal will be initiated by the City. Consultant's proposal will be reviewed and, only if accepted by the City, Consultant will be authorized to proceed with that work Contract Term: One year with two one-year renewals upon mutual agreement.
NAME OF FIRM:	Earth Science Engineering, LLC (ESE)
QUALIFICATIONS, COMPETENCE AND INTEGRITY OF FIRM:	ESE provides and has extensive experience in geotechnical, environmental and construction testing. ESE is a local firm with availability and experience in the local area. All services and associated reporting are conducted under the full direction of Chris Casteel, PE, an engineer with extensive geotechnical and environmental project experience. ESE has satisfactorily provided geotechnical services to the City in the past. ESE has been readily available, has shown high quality of work and has provided thorough final reports of findings in a timely manner.
YEARS OF EXPERIENCE:	24 years (formed in 1995)
SIMILAR PROJECTS PERFORMED FOR THE CITY:	Various Annual Geotechnical and Construction Materials Testing Services since 2009
SIMILAR PROJECTS PERFORMED ELSEWHERE:	• Hilton Garden Inn, Clarksville, Tennessee • Todd County Judicial Center, Elkton, Kentucky • Hankook Tire Facility Mass Grading, Clarksville, Tennessee • Bethel College, HCMC Imaging Center, Paris, Tennessee • Westcreek Schools Complex, Clarksville, Tennessee • Siemer Flour Mill and Silos, Christian County, Kentucky • Florin, Inc. Expansions, Clarksville, Tennessee ◦ Noble Harrelson K-8 School, Puryear, Tennessee • Van den Bergh (Ragu) Foods, Owensboro, Kentucky • Henry County Medical Center Additions, Paris, Tennessee • Wal-Mart Supercenter, Clarksville, Tennessee • The Cumberland, Davidson County, Tennessee • Freedom Furniture, Christian County, Kentucky • Austin Peay State University new Math & Computer Science Building, Clarksville, Tennessee • Veterinary Clinic Addition, Fort Campbell, Kentucky • Jenkins & Wynne, Clarksville, Tennessee
OTHER QUALIFICATIONS:	ESE is a consulting engineering and drilling firm offering: • Geotechnical Drilling and Engineering • Construction Testing and Special Inspections • Environmental Assessments and Consulting ESE has conducted geotechnical, environmental, and/or construction testing services at hundreds of projects in the Clarksville-Montgomery County region and in Tennessee and Kentucky.

REQUEST FOR PROFESSIONAL SERVICE

Miscellaneous Geotechnical, Construction Materials Testing and Environmental Assessment Services

Earth Science Engineering, LLC

Page 2

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
	Tom Heath, PE
DEPARTMENT WHERE FUNDS ARE BUDGETED:	Clarksville Gas & Water Department

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

08-22-2019
DATE

SIGNATURES OF OTHERS INVOLVED IN SELECTION

8/22/2019
DATE

SIGNATURE OF PURCHASING DIRECTOR

8-27-19
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.

ESTIMATED COST (TO BE PROVIDED ONCE DETERMINED):	\$ 15,000. —
--	--------------

Acknowledgement of cost estimate received:

SIGNATURE OF DEPARTMENT HEAD/DESIGNEE

08-27-2019
DATE

SIGNATURE OF PURCHASING DIRECTOR

8-27-19
DATE

SIGNATURE OF CHIEF FINANCIAL OFFICER

8/27/19
DATE

Clarksville Gas and Water Department, TN
Date range: 01 Aug 2019 - 31 Aug 2019

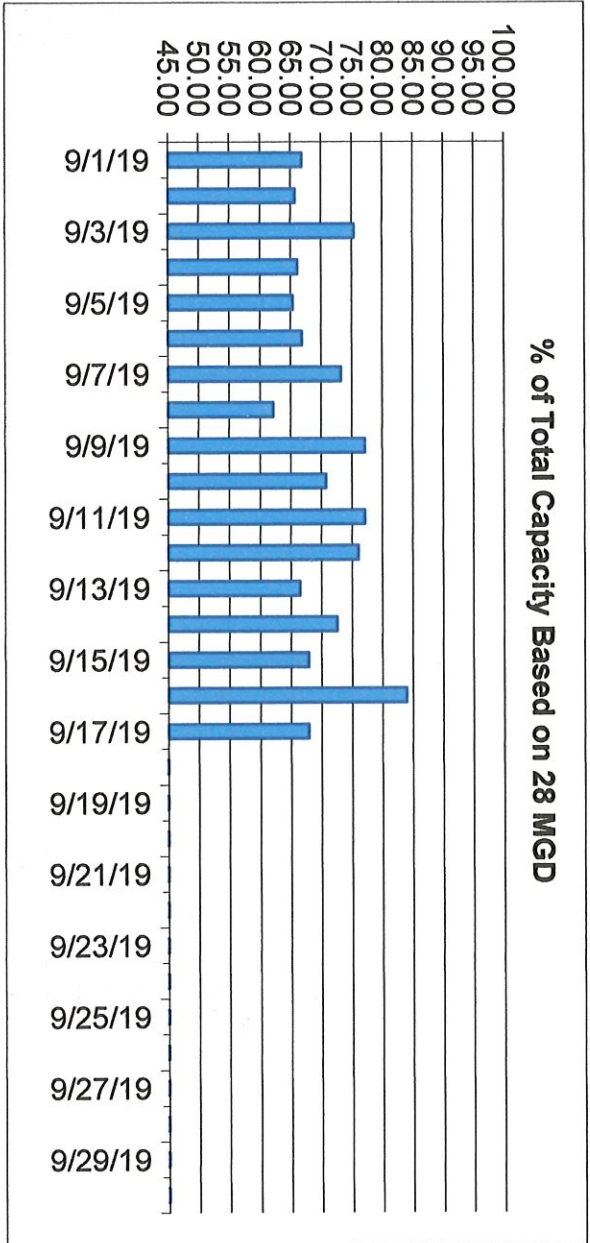
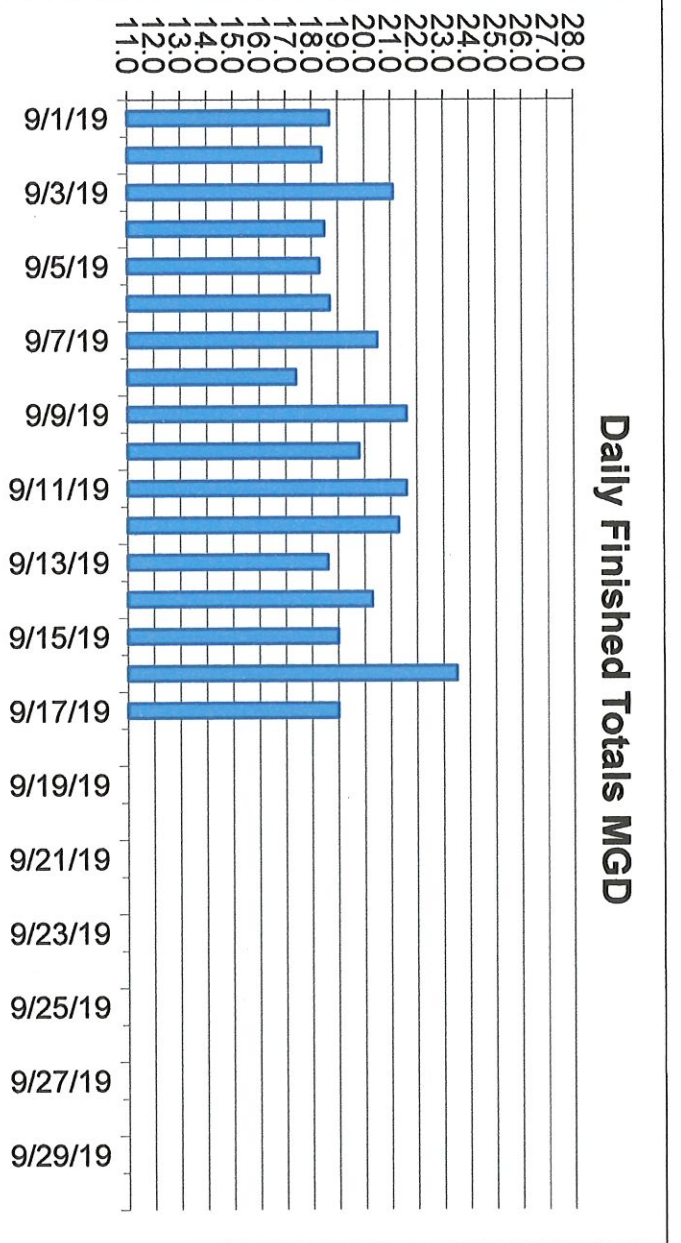
<u>ID ↑</u>	<u>Description</u>	<u>VIN/Serial</u>	<u>Buyer</u>	<u>Type</u>	<u>Sold Amount</u>	<u>Auction Ended</u>	<u>Credit Date</u>
283	Sensus 496 Regulators		Rod Boots	USD	\$120.00	08 Aug 2019 08:35 AM ET	
284	Liberty Safes		Darrell Gribble	USD	\$591.00	07 Aug 2019 09:05 AM ET	
285	SLIDING GATE OPENER		bryan clary	USD	\$65.99	14 Aug 2019 08:49 AM ET	
286	PORTABLE HOT WATER PRESSURE WASHER		John Mellen	USD	\$242.00	16 Aug 2019 08:26 AM ET	
287	2010 International 7600 Jet Vac Truck	1HTWXSBT0AJ177283	Justin Martin	USD	\$31,350.00	28 Aug 2019 08:30 AM ET	
					\$32,368.99		

Monthly Activity Summary

August 2019

- Gas System distributed 345.5 million cubic feet and averaged 11.1 million cubic feet per day. That represents approximately 17 percent of the system's capacity.
- Water Plant pumped 584 million gallons of treated water into the system and averaged 18.8 million gallons per day. That represents approximately 67 percent of the plant's capacity.
- Wastewater Plant treated 374 million gallons of sewage and averaged 12 million gallons per day. That represents approximately 48 percent of the plant's capacity.
- The call center handled 11,834 calls and averaged 538 per day. Each call lasted an average of 2 minutes and 53 seconds.
- Service Department completed 5,456 work orders, responded to 414 after hour calls and read 99,743 meters.
- Gas Division installed 44 new services, totaling 3,272 feet of pipe, and responded to 43 natural gas odor calls.
- Water Division repaired 56 water leaks totaling 1,525 feet of pipe, flushed 421 hydrants, and tested 634 backflow devices.
- Sewer Division made 16 point repairs totaling 637 feet of pipe, cleaned 21,786 feet of pipe, and reported 12 sewer overflows.
- Engineering Department approved 12 utility plans this month and currently has 24 on-going projects.
- Billing Department sent a total of 68,872 bills and notices

DATE	TOTALS IN MGD	DATE	% of Total Capacity Based on 28 MGD
9/1/2019	18.7	9/1/2019	66.79
9/2/2019	18.4	9/2/2019	65.71
9/3/2019	21.1	9/3/2019	75.36
9/4/2019	18.5	9/4/2019	66.07
9/5/2019	18.3	9/5/2019	65.36
9/6/2019	18.7	9/6/2019	66.79
9/7/2019	20.5	9/7/2019	73.21
9/8/2019	17.4	9/8/2019	62.14
9/9/2019	21.6	9/9/2019	77.14
9/10/2019	19.8	9/10/2019	70.71
9/11/2019	21.6	9/11/2019	77.14
9/12/2019	21.3	9/12/2019	76.07
9/13/2019	18.6	9/13/2019	66.43
9/14/2019	20.3	9/14/2019	72.50
9/15/2019	19.0	9/15/2019	67.86
9/16/2019	23.5	9/16/2019	83.93
9/17/2019	19.0	9/17/2019	67.86
9/18/2019		9/18/2019	0.00
9/19/2019		9/19/2019	0.00
9/20/2019		9/20/2019	0.00
9/21/2019		9/21/2019	0.00
9/22/2019		9/22/2019	0.00
9/23/2019		9/23/2019	0.00
9/24/2019		9/24/2019	0.00
9/25/2019		9/25/2019	0.00
9/26/2019		9/26/2019	0.00
9/27/2019		9/27/2019	0.00
9/28/2019		9/28/2019	0.00
9/29/2019		9/29/2019	0.00
9/30/2019		9/30/2019	0.00



Monthly
total

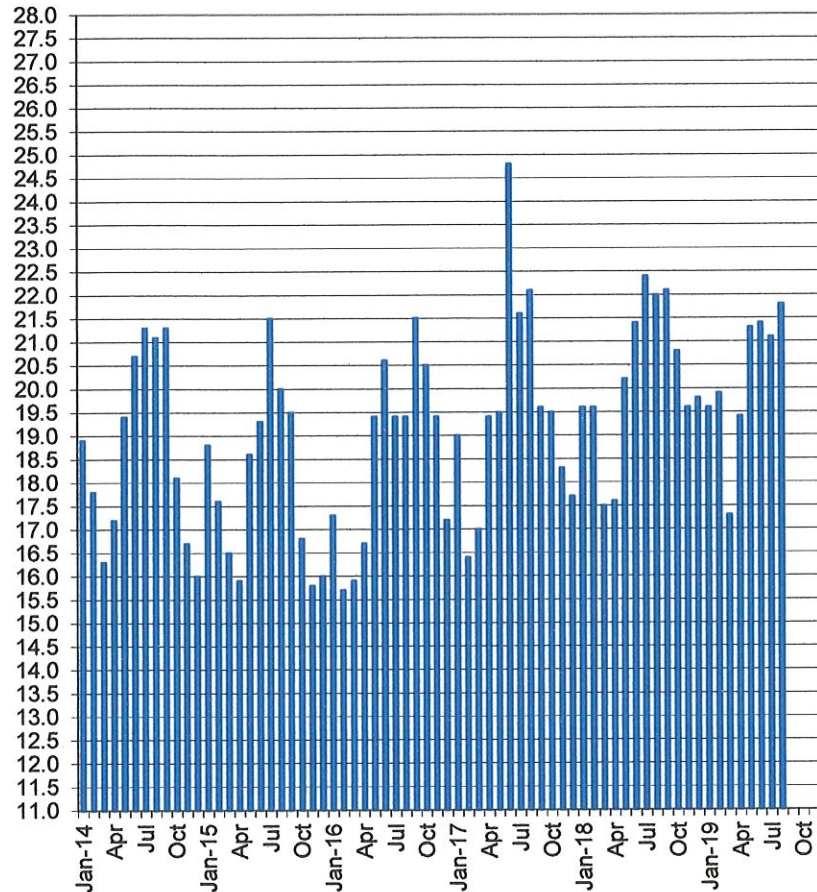
Clarksville Water Treatment Plant

Maximum Daily Pumpage

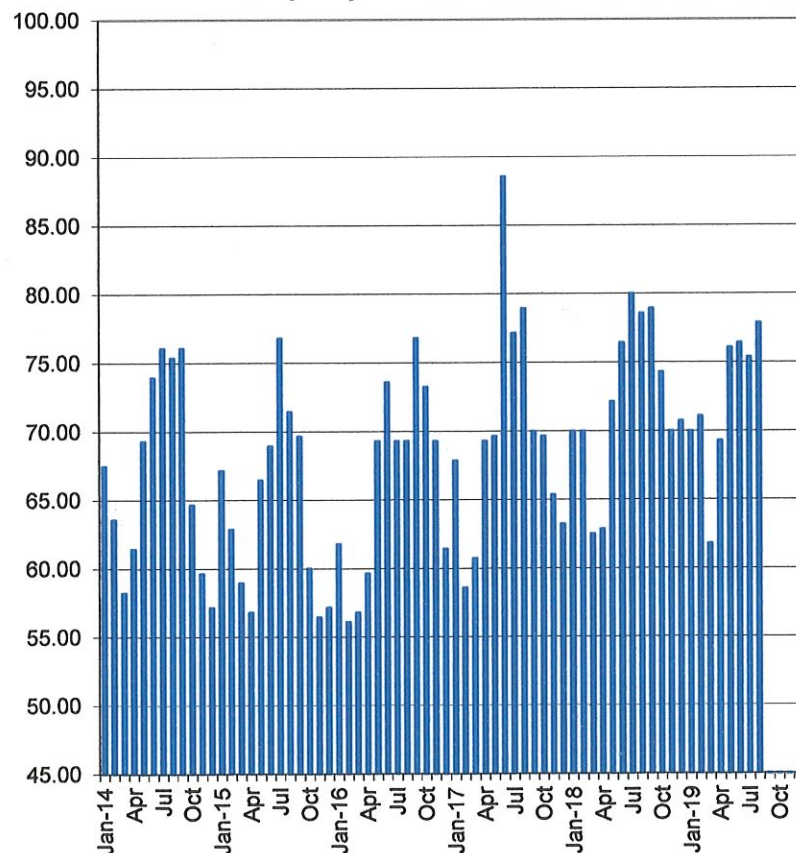
2014 thru 2019

Date	Amt	Date	% of Capacity
Jan-14	18.9	Jan-14	67.50
Feb	17.8	Feb	63.57
Mar	16.3	Mar	58.21
Apr	17.2	Apr	61.43
May	19.4	May	69.29
Jun	20.7	Jun	73.93
Jul	21.3	Jul	76.07
Aug	21.1	Aug	75.36
Sep	21.3	Sep	76.07
Oct	18.1	Oct	64.64
Nov	16.7	Nov	59.64
Dec	16.0	Dec	57.14
Jan-15	18.8	Jan-15	67.14
Feb	17.6	Feb	62.86
Mar	16.5	Mar	58.93
Apr	15.9	Apr	56.79
May	18.6	May	66.43
Jun	19.3	Jun	68.93
Jul	21.5	Jul	76.79
Aug	20.0	Aug	71.43
Sep	19.5	Sep	69.64
Oct	16.8	Oct	60.00
Nov	15.8	Nov	56.43
Dec	16.0	Dec	57.14
Jan-16	17.3	Jan-16	61.79
Feb	15.7	Feb	56.07
Mar	15.9	Mar	56.79
Apr	16.7	Apr	59.64
May	19.4	May	69.29
Jun	20.6	Jun	73.57
Jul	19.4	Jul	69.29
Aug	19.4	Aug	69.29
Sep	21.5	Sep	76.79
Oct	20.5	Oct	73.21
Nov	19.4	Nov	69.29
Dec	17.2	Dec	61.43
Jan-17	19.0	Jan-17	67.86
Feb	16.4	Feb	58.57
Mar	17.0	Mar	60.71
Apr	19.4	Apr	69.29
May	19.5	May	69.64
Jun	24.8	Jun	88.57
Jul	21.6	Jul	77.14
Aug	22.1	Aug	78.93
Sep	19.6	Sep	70.00
Oct	19.5	Oct	69.64
Nov	18.3	Nov	65.36
Dec	17.7	Dec	63.21
Jan-18	19.6	Jan-18	70.00
Feb	19.6	Feb	70.00
Mar	17.5	Mar	62.50
Apr	17.6	Apr	62.86
May	20.2	May	72.14
Jun	21.4	Jun	76.43
Jul	22.4	Jul	80.00
Aug	22.0	Aug	78.57
Sep	22.1	Sep	78.93
Oct	20.8	Oct	74.29
Nov	19.6	Nov	70.00
Dec	19.8	Dec	70.71
Jan-19	19.6	Jan-19	70.00
Feb	19.9	Feb	71.07
Mar	17.3	Mar	61.79
Apr	19.4	Apr	69.29
May	21.3	May	76.07
Jun	21.4	Jun	76.43
Jul	21.1	Jul	75.36
Aug	21.8	Aug	77.86
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



Date	Amt	Date	% of Capacity
Jan-14	15.6	Jan-14	55.71
Feb	15.1	Feb	53.93
Mar	14.6	Mar	52.14
Apr	14.7	Apr	52.50
May	15.9	May	56.79
Jun	16.6	Jun	59.29
Jul	18.4	Jul	65.71
Aug	18.0	Aug	64.29
Sep	17.5	Sep	62.50
Oct	15.6	Oct	55.71
Nov	14.7	Nov	52.50
Dec	14.6	Dec	52.14

Jan-15	15.2	Jan-15	54.29
Feb	15.4	Feb	55.00
Mar	14.8	Mar	52.86
Apr	14.4	Apr	51.43
May	16.2	May	57.86
Jun	16.8	Jun	60.00
Jul	17.5	Jul	62.50
Aug	17.6	Aug	62.86
Sep	16.9	Sep	60.36
Oct	15.2	Oct	54.29
Nov	14.2	Nov	50.71
Dec	14.2	Dec	50.71

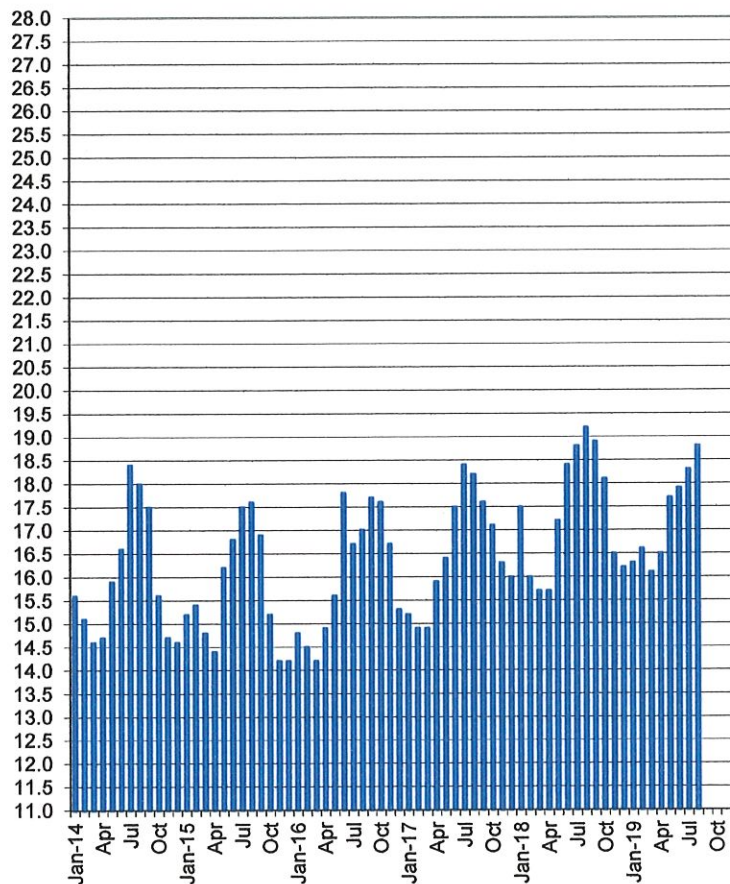
Jan-16	14.8	Jan-16	52.86
Feb	14.5	Feb	51.79
Mar	14.2	Mar	50.71
Apr	14.9	Apr	53.21
May	15.6	May	55.71
Jun	17.8	Jun	63.57
Jul	16.7	Jul	59.64
Aug	17.0	Aug	60.71
Sep	17.7	Sep	63.21
Oct	17.6	Oct	62.86
Nov	16.7	Nov	59.64
Dec	15.3	Dec	54.64

Jan-17	15.2	Jan-17	54.29
Feb	14.9	Feb	53.21
Mar	14.9	Mar	53.21
Apr	15.9	Apr	56.79
May	16.4	May	58.57
Jun	17.5	Jun	62.50
Jul	18.4	Jul	65.71
Aug	18.2	Aug	65.00
Sep	17.6	Sep	62.86
Oct	17.1	Oct	61.07
Nov	16.3	Nov	58.21
Dec	16.0	Dec	57.14

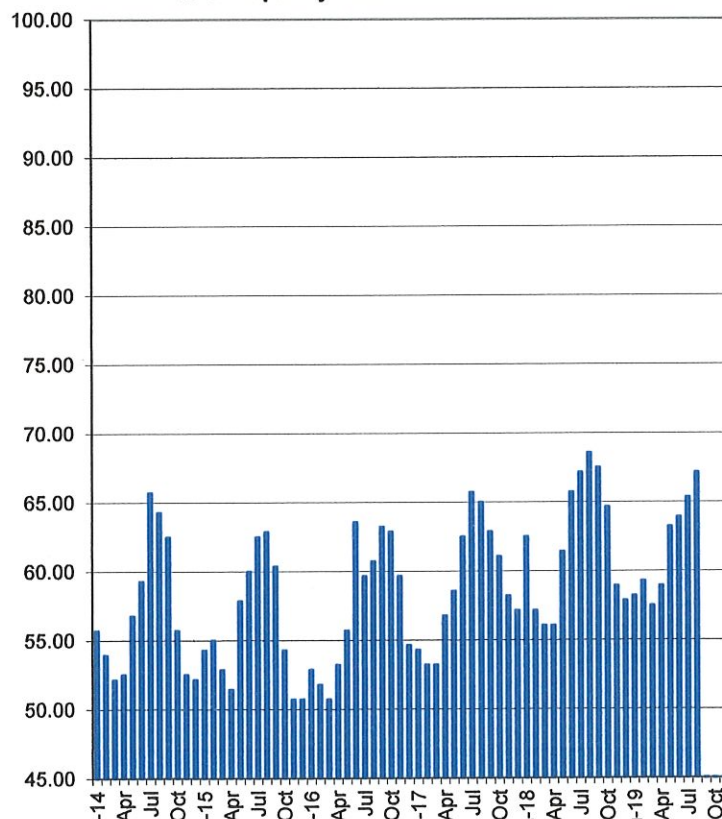
Jan-18	17.5	Jan-18	62.50
Feb	16.0	Feb	57.14
Mar	15.7	Mar	56.07
Apr	15.7	Apr	56.07
May	17.2	May	61.43
Jun	18.4	Jun	65.71
Jul	18.8	Jul	67.14
Aug	19.2	Aug	68.57
Sep	18.9	Sep	67.50
Oct	18.1	Oct	64.64
Nov	16.5	Nov	58.93
Dec	16.2	Dec	57.86

Jan-19	16.3	Jan-19	58.21
Feb	16.6	Feb	59.29
Mar	16.1	Mar	57.50
Apr	16.5	Apr	58.93
May	17.7	May	63.21
Jun	17.9	Jun	63.93
Jul	18.3	Jul	65.36
Aug	18.8	Aug	67.14
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



FINISHED WATER PUMPAGE TOTALS

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Jan.Total	459200	447498	439351	442038	486007	472836	460298	471709	542638	506802
Aver.	14813	14435	14173	14259	15678	15253	14848	15216	17504	16348
Max	18431	16217	16208	17032	18977	18841	17349	19091	19678	19667
Min	12612	12888	12075	12695	11548	13616	12928	14348	14683	13896
Feb.Total	400131	400455	406621	400164	424980	431331	420563	418523	450030	467133
Aver.	14290	14302	14021	14292	15178	15405	14502	14947	16073	16683
Max	16627	16869	16385	17101	17883	17659	15791	16453	19679	19919
Min	12956	12725	12006	10627	12956	13342	13145	13507	14057	13710
Mar.Total	434583	433918	458407	443135	454724	459349	442712	462775	488427	499251
Aver.	14019	13997	14787	14295	14669	14818	14281	14928	15756	16105
Max	15437	15903	20748	16323	16316	16565	15992	17089	17592	17367
Min	12121	11697	10971	12758	12448	13381	12822	13894	14516	14929
Apr. Total	456503	438167	472623	428845	442935	433816	447902	479548	471571	495905
Aver.	15217	14606	15754	14295	14765	14461	14930	15985	15719	16530
Max	18345	17045	19906	16049	17251	15936	16785	19424	17634	19477
Min	12866	12287	13825	12472	13031	12702	12521	14464	13683	14140
May Total	472140	479606	518962	469221	494881	502787	484014	508673	535251	550304
Aver.	15230	15471	16741	15136	15964	16219	15613	16409	17266	17752
Max	17344	18497	20470	17712	19461	18671	19413	19500	20201	21385
Min	13213	12293	12189	12710	13064	14687	13917	13724	14348	14204
Jun. Total	501081	516150	568593	484809	500530	505360	536245	525289	554301	539759
Aver.	16703	17205	18953	16160	16684	16846	17875	17510	18477	17992
Max	20540	21276	24850	18416	20717	19306	20660	24870	21444	21454
Min	14482	14264	13858	13442	14133	14050	15630	14988	15308	14700
Jul. Total	547116	565235	543355	503624	572496	544235	519632	571991	583935	569783
Aver.	17649	18233	17528	16246	18468	17556	16762	19451	18837	18380
Max	21511	20922	21568	19079	21348	21555	19407	21680	22472	21198
Min	14667	15895	14232	12996	14926	14673	14985	15287	13853	16212
Aug.Total	556358	582647	530106	501432	559563	547126	529644	566204	595380	584399
Aver.	17947	18795	17100	16175	18050	17649	17085	18265	19206	18852
Max	21053	20941	19035	20145	21121	20033	19451	22100	22024	21852
Min	14592	16508	15105	14013	13566	14503	14785	15658	15318	15235
Sep.Total	518822	476653	465948	494484	527302	508650	532147	530559	569190	
Aver.	17294	15888	15532	16483	17577	16955	17738	17685	18973	
Max	18847	20613	17889	17993	21379	19573	21501	19637	22112	
Min	15096	13447	12729	14365	14851	14245	16104	15576	16342	
Oct. Total	506481	485550	453395	482230	484925	471463	547410	533123	561681	
Aver.	16338	15663	14626	15556	15643	15208	17658	17198	18119	
Max	18428	17406	16734	18514	18115	16803	20503	19507	20803	
Min	13631	13205	12269	12424	13993	13337	15408	14485	15333	
Nov.Total	432624	434396	442808	442786	443208	427852	501075	490630	496859	
Aver.	14421	14480	14760	14760	14774	14262	16703	16354	16562	
Max	16368	15965	17735	16254	16718	15879	19499	18381	19630	
Min	12016	12780	12435	13360	13207	12336	13700	13825	14615	
Dec.Total	441260	438600	431342	463552	453064	442384	475697	497194	504637	
Aver.	14234	14148	13914	14953	14615	14270	15345	16039	16279	
Max	16116	16409	17507	20904	16055	16082	17226	17728	19829	
Min	12521	12577	10650	12206	13421	12787	13516	13355	13897	
Yr. Total	5726299	5698875	5731511	5556320	5844615	5747189	5897339	6056218	6353900	4213336
Yr. Aver.	15689	15613	15659	15222	16013	15746	16113	16592	17407.95	
Peak Day	21511	21276	24850	20904	21379	21555	21501	24870	22472	

Monthly Bypass / Overflow Report											
System:	Wastewater Collection System								County:	Montgomery	
Month:	August	Year	2019						Permit#:	TN 0020656	
System Contact:		Mike Crawford	Title:	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:					
T	3			Trice landing LS	3:00PM	3:30PM	3,000		Heavy rainfall, let station catch up, spread lime		
T	3			Savannah LS MH# 10660	5:00PM	6:00PM	6,000		Heavy rainfall, let station catch up, spread lime		
U	4			Trice landing LS	3:05PM	3:30PM	5,000		Power failure, hooked up generator until power restored		
T	6			Ringgold RD LS MH# 18275	8:25PM	8:45PM	12,000		Heavy rainfall, let station catch up, spread lime		
U	17			Behind 439 Gary Hills Dr	11:30AM	5:00PM	1,650		Broken forcemain, repaired forcemain		
T	20			Ringgold RD LS MH# 18275	5:20PM	7:30PM	22,000		Heavy rainfall, let station catch up, spread lime		
T	20			NewMeadowbrookLSMH# 6723	6:25PM	8:00PM	18,000		Heavy rainfall, let station catch up, spread lime		
T	20			Middleton LS MH# 7680	6:35PM	6:55PM	1,000		Heavy rainfall, let station catch up, spread lime		
T	20			Briarwood LS	6:40PM	8:10PM	9,000		Heavy rainfall, let station catch up, spread lime		
T	20			27 Leonard DR	6:00PM	7:15PM	3,750		Heavy rainfall, let station catch up, spread lime		
U	21			Old Russellville pike LS MH#1931	2:25PM	3:26PM	43,000		station failure, repaired station		
U	25			Sugartree #3 LS	3:50AM	9:20AM	16,500		station failure, repaired station, spread lime		
Type of Overflow											
U-All Other Occurrences T-Wet Weather Overflows											

METER READING AND SERVICE DEPARTMENT MONTHLY / YEARLY REPORT

METER READING

Meters Read

		<u>Gas</u>	<u>Water</u>	<u>Total</u>	<u>Accuracy Rate</u>
August	2019	28,577	71,166	99,743	99.93%
July	2019	28,552	71,041	99,593	99.90%
June	2019	28,532	70,887	99,419	99.89%
May	2019	28,495	70,697	99,192	99.90%
April	2019	28,491	70,536	99,027	99.91%
March	2019	28,443	70,429	98,872	99.93%
February	2019	28,414	70,301	98,715	99.94%
January	2019	28,374	70,183	98,557	99.91%
December	2018	28,336	70,090	98,426	99.93%
November	2018	28,296	69,998	98,294	99.91%
October	2018	28,242	69,889	98,131	99.88%
September	2018	28,202	69,765	97,967	99.90%
August	2018	28,140	69,649	97,789	99.92%
12 Month Total		369,094	914,631	1,283,725	99.91%

SERVICE DEPARTMENT

		<u>Service Orders</u>	<u>After Hours Calls</u>
August	2019	5456	414
July	2019	5244	390
June	2019	5042	306
May	2019	5371	370
April	2019	4728	314
March	2019	4474	298
February	2019	3990	260
January	2019	5047	374
December	2018	3992	336
November	2018	5024	456
October	2018	5803	444
September	2018	4604	345
August	2018	5615	365
12 Month Total		64,390	4,672

AN ORDINANCE PERTAINING TO ADVERTISING, LOGOS, EMBLEMS ETC. ON CITY WATER TOWER TANKS

WHEREAS, the painting of advertising, logos, emblems, etc. on City water towers can cause damage to the water tower tanks if the work is not done properly, and allowing same can present issues of legal liability in connection with the work, as well as issues regarding fairness to commercial customers and businesses and can give an unfair advantage by indicating the City endorses one company, business or product over others; and

WHEREAS, the City Council finds that it is in the best interests of the City, its residents, and the rate payers whose payments sustain the City of Clarksville, Department of Gas & Water, to ban or prohibit the painting of any advertising, logos, emblems, letters, numbers, messages, etc. of any private company, business, or product(s) on any City owned or leased water tower tank, or the placing of any signage or "wraps" thereon, except that the City, upon written interlocal agreement or contract between the parties, upon approval by the City Council by resolution, may allow such advertising, logos, emblems, painted letters, numbers, messages, etc. pertaining to governmental entities, to include, but not limited to, public schools, Austin Peay State University or any successor, or the military forces of the United States or the State of Tennessee, or veterans service organizations incorporated or chartered by the state or federal government.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CLARKSVILLE, TENNESSEE:

(1) That Title 13 (Utilities and Service), Chapter 3 (Gas, Water, and Sewer Service) of the Official City Code should be and is hereby amended by adding the following as a new Section 13-326:

Section 13-326. Advertising, Logos, Emblems, etc. on City Water Tower Tanks Prohibited Except for Governmental Entities

The painting of any advertising, logos, emblems, letters, numbers, messages, etc. pertaining to any private company, business, or product(s) on any City owned or leased water tower tank, or the placing of any signage or "wraps" thereon, is prohibited, except that the City, upon written interlocal agreement or contract between the parties, and upon approval of same by the City Council by resolution, may allow such advertising, logos, emblems, painted letters, numbers, messages, etc. pertaining to governmental entities, to include, but not limited to, local public schools, Austin Peay State University or any successor, or the military forces of the United States or the State of Tennessee, or veterans service organizations incorporated or chartered by the state or federal government.

FIRST READING:

SECOND READING:

EFFECTIVE DATE: