

2020 NEEDS ASSESSMENT



WV INFRASTRUCTURE AND JOBS DEVELOPMENT COUNCIL

DECEMBER 2020

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WVIJDC Needs Assessment **2020**

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INTRODUCTION

The West Virginia Infrastructure and Jobs Development Council was established in 1994 under the West Virginia Infrastructure and Jobs Development Act, Chapter 31-15A of the West Virginia Code. The Council is a governmental instrumentality of the State. Its primary role is to evaluate requests from project sponsors seeking to plan, acquire, design, and construct water, sewer, and economic development projects within the State and to approve funding for those projects.

This assessment was conducted pursuant to the requirements contained in Chapter 31-15A-6(b) of the WV Code:

- 1) The Council is required to develop a comprehensive Statewide inventory of water supply systems and sewage treatment systems and an assessment of current and future needs;
- 2) The assessment identifies the areas of the State which do not have adequate public water or sewage systems;
- 3) Offers recommendations for the construction of new facilities or the extension or expansion of existing facilities to meet the identified needs;
- 4) It includes an identification of the obstacles, issues and problems which prevent or inhibit development of adequate infrastructure throughout the State, including financial, governmental, physical, or geographical factors and make recommendations that the Council considers appropriate regarding the obstacles, issues or problems identified; and
- 5) The comprehensive inventory and assessment shall be updated at least once in every three-year period beginning in 1996.

In 2011 the Council, in conjunction with the West Virginia Water Development Authority, implemented a statewide Geographic Information System (GIS) to achieve the following goals related to water and sewer infrastructure:

- Establish a database for existing water and sewer facilities, general locations, and service areas;
- Provide a means to continually update the database as new facilities are proposed and constructed;
- Provide an electronic tracking mechanism for funding applications and project status; and
- Provide the Council with situational awareness to support its decision-making process.

This assessment relies heavily on the data acquired from the GIS system in its inventory of existing water and sewer systems.

Data relied upon in this report is current as of December 31, 2020.

EXECUTIVE SUMMARY Use of the GIS database

In conjunction with its GIS implementation, the Council collected location data on all known existing public (government and privately owned) water and sewer systems within the State. This data includes the location of treatment facilities, as well as the general locations of water distribution and sewer collection lines. The water distribution and sewer collection lines data is available to the public via the Council's website at <u>www.wvinfrastructure.com</u>. Although the GIS data provides the State with the most accurate information obtained to-date, the following limitations must be noted for purposes of this assessment:

- The GIS relies on the location of known <u>structures</u> (addressable structures which are updated periodically, at least every three years) to approximate the served and unserved population. Therefore, the accuracy may be impacted by structures that are uninhabited, removed or built between updates;
- In establishing the locations of existing water and sewer lines, the GIS relies on records obtained from utilities who own and/or operate those facilities. In some areas, data gaps remain because of missing, unreliable, or unavailable utility records;
- 3) The data provides the location of existing water and sewer lines <u>generally</u>. It does not provide a resolution of detail required to conduct design analysis, i.e., locate manholes, valves, pump stations, pipe sizes, storage tanks, or hydraulic information;
- 4) The Council updates the existing inventory database whenever a project application is filed by requiring Project Sponsors to provide preliminary maps of the project, and the public IJDC website portal is updated to show the project location (blue spigot for water and red outfall for sewer). By clicking on the project, the public can find out the project description, estimated cost, funding scenario, number of new customers served, and project team members by company name and telephone number. However, not all water and sewer projects are required to be filed with the Council and therefore many projects may not be added to the database. The Council is working with others (Regional Planning & Development Councils and some applicants are progressing GIS mapping of their system in their project) to obtain this GIS information for water and sewer systems in order to be able to provide a more complete database.

Served and Unserved Areas

Public water systems from WVPSC 2019 Statistical Report (see references page 17 for definition) approximately 63% of the State's structures are served by a public water system. The number of customers from WVPSC 2019 Statistical Report (see references page 17 for definition) served by public water utilities in West Virginia is approximately 639,951.

Public sewer systems from WVPSC 2019 Statistical Report (see references page 17 for definition) – approximately 47% of the State's structures are served by a public sewer system. The number of customers served by public sewer utilities in West Virginia is approximately 441,388.

The unserved areas within the State vary considerably between Counties. Appendix F provides a summary of served and unserved structures within the State, while GIS data is provided graphically in Appendix G.

Current/Future Needs

Current funding needs for water and sewer infrastructure based on applications filed with, and approved by, the Council are approximately \$344 Million for water projects and \$339 Million for sewer projects. In addition, based on the list of Long-Term Control Plans (LTCPs) filed with WVDEP, the requirement to satisfy the State's Combined Sewer Overflows (CSOs) need exceeds \$1.7 Billion. Since many of the LTCPs involve construction of sanitary sewers which qualify for Council funding, and the combined sewers then become stormwater sewers, the estimate is over \$1.0 Billion to satisfy CSOs need.

Projected future needs assume a goal of serving every customer in the State. Based on assumptions made, the cost of providing water service to every remaining unserved household in the State is approximately \$2.6 Billion. For sewer service, the estimate is approximately \$11.4 Billion. If rehabilitation work is considered in the estimate, the need may be approaching approximately \$18 Billion.

Results between December 31, 2017 and December 31, 2020 Needs Assessment

Over the past three fiscal years (2018-2020) federal and State public funding programs have invested over \$0.5 Billion or approximately \$175 Million annually (\$174, \$165 and \$181 Million, respectively) in water and sewer infrastructure, and have extended water or sewer service to more than 6,000 customers or over 15,000 population in West Virginia. Appendix E provides additional details concerning these infrastructure investments.

EXISTING SYSTEM INVENTORIES Public Water Utilities

A list of existing water systems and the customers served by each are provided in Appendix A. In total, there are 310 public water utilities operating in the State serving approximately 639,951 customers.

In terms of structures, the number of structures within the State that have water service available is approximately 617,978.

Public Sewer Utilities

A list of existing sewer systems and the customers served by each are provided in Appendix B. In total, there are 288 public sewer utilities operating in the State serving approximately 441,388 customers.

The number of structures within the State that have sewer service available is approximately 454,552.

The following table provides a summary of existing systems (utilities) throughout the State:

	WATER	SEWER
Existing utilities ₁	310	288
Customers served ₁	639,951	441,388
Served structures	617,978	454,552
Unserved structures	358,906	522,332
Percent structures served	63%	47%

1) 2019 Statistical Report, Public Service Commission of West Virginia

Also provided in Appendix F is a listing of served and unserved structures in the State, organized by the following geographical and political boundaries:

- County
- Congressional Districts
- Regional Planning and Development Council Areas
- Senatorial Districts
- House Districts

ASSESSMENT OF CURRENT NEEDS Public Water Systems

Current applications

A list of water project applications received as of 12/31/20 is provided in Appendix C. This includes all preliminary applications approved by the Council as technically feasible, but without committed funding as of 12/31/20. The total estimated costs of these projects exceed \$402 Million, where approximately \$58 Million has been committed from other funding sources. The total estimate of current needs for water systems; therefore, is approximately \$344 Million.

Public Sewer Systems

Current applications

A list of sewer project applications approved as of 12/31/20 is provided in Appendix D. This includes all preliminary applications approved by the Council as technically feasible, but without committed funding as of 12/31/20. The total estimated cost of these projects exceeds \$553 Million, where approximately \$193 Million has been committed from other funding sources. The total estimate of current needs for sewer projects; therefore, is approximately \$339 Million.

Combined Sewer Overflow Communities

Combined Sewer Overflows (CSOs)

Based on the list of Long-Term Control Plans filed with WVDEP, the requirement to satisfy CSOs need exceeds \$1.0 Billion. Although the LTCPs currently estimate the cost to meet State requirements at \$1.6 Billion, only sanitary sewers qualify for Council funding. Further, the majority of these plans have been on file since the last report and the current cost can be estimated at over \$1.7 Billion adjusted for inflation. Since stormwater sewers do not qualify for Council funding, a portion of the improvements needed will not involve the construction of sanitary sewers and the combined sewers becoming stormwater sewers. Therefore, since many of the LTCPs involve the construction of sanitary sewers and the combined sewers becoming stormwater sewers, the estimate is over \$1.0 Billion to satisfy CSOs need. Below is a list of CSO communities and their estimated total needs for compliance. Communities listed without an estimate did not have an approved LTCP filed with the DEP or did not have a cost listed in their LTCP.

<u>UTILITY</u>	<u>ESTIMATED NEED (\$)</u>
Barrackville	5,743,960
Beckley	10,000,000
Belington	6,551,377
Benwood	6,756,200
Bethany	-
Boone Co PSD	1,500,000
Bridgeport	6,900,000
Buckhannon	3,786,876
Cameron	1,887,400
Cedar Grove	6,000,000
Charleston	256,318,000
Clarksburg	55,020,000
Davis	-
Dunbar	35,000,000
Elkins	23,252,000
Fairmont	-
Farmington	3,287,500
Fayetteville	-
Flatwoods-Canoe Run	33,000,000
Follansbee	6,306,915
Grafton	4,500,000
Greater Paw Paw PSD	11,493,800
Hinton	7,513,250
Huntington	584,617,186
Kenova	1,710,948
Keyser	9,882,000
Kingwood	13,000,000
Logan	77,000,000
Marlinton	2,100,000
Marmet	1,812,594
Martinsburg	-
McMechen	3,379,000
Monongah	6,356,007
Montgomery	2,068,000
Moorefield	-
Morgantown	172,990,000
Moundsville	9,770,400
Mullens	465,000
New Martinsville	58,223,836
Nutter Fort	-
Nitro	16,592,538
Parsons	1,275,000

Philippi	14,920,800
Piedmont	-
Point Pleasant	5,000,000
Princeton	6,500,000
Richwood	8,691,000
St. Albans	107,726
Shinnston	2,139,775
Sistersville	11,952,000
Smithers	1,400,000
Thomas	4,799,950
Wayne	740,000
Welch	22,691,961
Wellsburg	8,399,400
West Union	2,865,700
Weston	3,634,531
Westover	1,940,000
Wheeling	80,000,000

TOTAL ESTIMATED COST \$1,621,842,630 TOTAL ESTIMATED COSTxCPI \$1,718,771,588

Notes: Estimated needs reported for systems listed are from December 2017 during the last inventory of LTCPs. An update for 2020 was not available due to COVID restrictions on access to the document library. The estimate was adjusted for inflation using the Consumer Price Index (CPI) for 2015 - 2020 from the U.S. Bureau of Labor Statistics.

Summary of Current Needs

Current funding needs for water and sewer infrastructure based on applications filed with, and approved by the Council, are approximately \$344 Million for water projects and \$339 Million for sewer projects. In addition, based on the list of Long-Term Control Plans filed with WVDEP as of 12/31/20, the requirement to satisfy the State's Combined Sewer Overflows (CSOs) need exceeds \$1.0 Billion.

FUTURE NEEDS

Definition

For purposes of this assessment, "future needs" are an estimate of the costs needed to serve the remaining unserved households/prospective customers of the State.

Methodology

In the absence of large preliminary studies with an enormous scope of work, placing a dollar cost on future needs is highly speculative and requires several assumptions, mainly relating to the following:

- Average cost of serving each household/prospective customer
- The number of unserved households/prospective customers
- The manner in which each household/prospective customer would be served

The average cost of serving each household/prospective customer assumes that the remaining unserved households/prospective customers would be provided service through a typical line extension. It does not necessarily take into account the addition of treatment or storage requirements on a per customer basis, which differs greatly for each locale and therefore is not easily estimated on such a broad scale. It also does not take into account alternate methods for providing service, such as decentralized systems.

For water service, a cost per customer of 27,916 is assumed (25,000 assumed in 2013 x CPI₃). For sewer service, a cost per customer of 39,088 is assumed (35,000 assumed in 2013 x CPI₃).

Finally, the number of unserved households/prospective customers must be estimated. This assessment uses the difference between the number of households based on US Census data, and the number of customers served based on statistical data filed with the PSC. It should also be noted that a strict count of utility customers will also include non-residential entities, such as businesses, industries, etc. and this must be considered when attempting to estimate the number of unserved <u>households/prospective</u> <u>customers</u>.

Since a significant portion of current applications are for rehabilitation or contain rehabilitation work, it can be assumed that future needs may be understated by as much as \$4 Billion. Therefore, if rehabilitation work is considered in the estimate, the need may be approaching approximately \$18 Billion (\$2.6 Billion plus \$11.4 Billion from table below plus 4 Billion).

	WATER	SEWER
Number of Households ₄	732,585	732,585
Customers served ₁	639,951	441,388
Difference (unserved)	92,634	291,197
Avg. cost per customer to serve	\$27,916	\$39,088
Overall need	\$2.6 Billion	\$11.4 Billion

COST TO SERVE EVERY HOUSEHOLD/PROSPECTIVE CUSTOMER

OBSTACLES, ISSUES AND PROBLEMS FINANCIAL CONCERNS Available Funding Levels

The current status of funding sources is summarized below:

- WV Infrastructure & Jobs Development Council (Council) it is anticipated the Infrastructure Fund will continue to receive excess lottery revenues up to a maximum of \$40 Million annually which will be combined with payments of principal and interest on previously made loans and investment earnings. Therefore, FY2021 funding levels may be similar to FY 2020 with approximately \$12 Million being allocated to Economic Development Assistance and approximately \$8 Million being provided as a match to receive the Clean Water and Drinking Water Treatment EPA State Revolving Funds. The remaining funds of approximately \$39 Million will be available for Council to fund wastewater and water infrastructure projects.
- The West Virginia Water Development Authority (WDA) has the statutory authority to issue notes and bonds. The proceeds of these issues are used to make loans to local governmental agencies for water and sewer projects. This is done on a needs basis. The WDA can also purchase Grant Anticipation Notes and Bond Anticipation Notes, when needed, thus providing interim financing until the grant or permanent loan funds are available, allowing for construction to begin immediately. During Fiscal Year 2020, the WDA closed on a \$13,150,000 Design Loan Program. This program provides funding for engineering, accounting, right of ways, etc., facilitating the project getting to the construction phase and permanent financing. The WDA also provides lines of credit for Federal programs that need to spend funds before the local government entity can be reimbursed. WDA makes loans and grants on behalf of the Infrastructure Council and the state revolving funds.
- The EPA State Revolving Fund (SRF) programs are largely driven by Congressional budgeting and funding for both the Clean Water State Revolving Fund (CWSRF) and Drinking Water Treatment Revolving Fund (DWTRF), and funding for these programs has been relatively stable the last few years. However, there is no guarantee that will continue. In addition to the federally allocated funds and the state match provided by the IJDC, both programs receive payments of principal, interest and investment earnings that are used to fund projects. The CWSRF receives approximately \$70 Million annually from this funding stream. The DWSRF program receives approximately \$18 Million annually from this funding stream.
- The Abandoned Mines Lands and Reclamation (WVDEP-AML) Waterlines Program budget for Calendar Year 2021 is estimated to be approximately \$12 Million available for waterline construction. The \$12 Million budgeted amount includes unspent AML Waterlines grant funds carried over from previous grant years. AML anticipates that in future years, unspent waterlines grant funds will not be carried forward, but will instead be redirected to AML Reclamation projects. Current Federal legislation mandates that the coal tax and resultant federal funds will end in 2021, and additional AML Waterlines Program funds may not be available after that time. There is an ongoing legislative effort to extend the Surface Mining Control and Reclamation Act of 1977 (SMCRA), which mandates the fees that fund the WVDEP-AML Waterlines Program, for an additional ten years.

- The Appalachian Regional Commission (ARC) is estimating approximately \$8 Million will be available for FY2021 grant awards.
- The Community Development Block Grant (CDBG) program was allocated \$14,258,806 for FY2020. FY2021 funding is unknown at the present time but it is estimated that the allocation for FY2021 will be a similar amount.
- The US Department of Agriculture Rural Utility Services (USDA-RUS) anticipates having the same initial funding levels for FY2021 as in FY2020, which was approximately \$20,552,000 for loans and \$5,685,000 for grants.
- Federal assistance through the U.S. Army Corps of Engineers (USACE) Section 340 Southern West Virginia and Section 571 Central West Virginia Environmental Infrastructure Programs allows for design and construction assistance to non-Federal entities for carrying out water related environmental infrastructure and resource protection and development projects. These programs have received steady funding over the last three years (2018-2020) with average appropriations being \$1.4 Million. However, there is no guarantee this will continue. Also, these programs are reimbursable programs in that the local sponsor is responsible for the award and administration of the design and construction contracts with incremental payments being made to the sponsor for completed work. Over the last three years (2018-2020), USACE has selected and provided Federal assistance to eight projects within the Section 340 and Section 571 programs. Recent changes to the Water Resource Development Act (WRDA) 2020 have raised the regional authorization limits on both Section 340 and Section 571 to \$120 Million and \$100 Million respectively.

Availability of Grant Funds

The most sought-after form of funding for water and sewer infrastructure projects is grants. This is also the least available of fund types, due mainly to the fact that the largest funding programs were established as revolving funds and therefore rely on loan repayments to replenish and sustain themselves. The amount of grant funding available serves to make many projects viable and hence proceed to construction. A review of the Infrastructure Fund's project financing closings between FY2018 and FY2020 reflects that approximately 89% of those projects had Council grants in their funding packages. Had those grants not been available, it is quite possible that most of the projects funded through the Infrastructure Fund over the last three years would not have proceeded to construction or would have proceeded with reduced project scopes.

User Rates

Water and sewer user rates continue to rise in order to meet current utility expense increases and evolving compliance requirements. Accordingly, the income available for utilities to service the debt associated with borrowing funds is less. Every utility undertaking a capital project must determine the maximum user rates it is willing to accept in order to construct a project. Although this amount is different for each utility (and project), it will be capped as a direct function of the rates its customers are willing to pay and/or what the management of the utility is willing to accept. As rates approach the 'unacceptable' levels, project sponsors (utilities) may be less willing to take on additional debt (loans) and may only undertake capital projects if grant funds are available. Another probable outcome is that, in the absence of grant funds, utilities will undertake only those projects with a high urgency, such as

those designed to ensure compliance with regulatory standards and consent decrees versus projects that are not being mandated by law or regulation, such as extensions of service to unserved areas.

PHYSICAL AND GEOGRAPHIC CONCERNS

West Virginia's geography and geology mandate relatively higher costs for underground infrastructure, such as water and sewer systems. This impact exists not only for new construction, but for replacement and rehabilitation projects as well. Real estate to construct new treatment facilities can be difficult and expensive to acquire, which sometimes creates added controversy over plant and pump/lift station siting proposals.

Typically, existing systems will expand service to more accessible areas first. As time progresses, the remaining unserved areas will be located in more remote, rugged, and less densely populated areas. This results in higher costs, both on a per-customer and per-mile basis.

RECOMMENDATIONS

- As the need for infrastructure investments and improvements far outweighs the funds available, determining which projects receive funding commitments must continue to be based on objective, uniform criteria; among the most important of these criteria is a project's readiness to proceed to construction after receiving its funding commitments;
- 2) Track and encourage that the "utilization rates" of the State's existing available funds are as close to 100% as possible, where "utilization" is defined as a formal, binding commitment of funds. Once the available funds are 100% utilized, then planning for additional procurement of funding, i.e., bond issues, leveraging, etc. should be considered;
- 3) Funding programs must continue to coordinate their efforts in order to maximize the effectiveness of the State's limited funds available;
- Continue to provide matches for both EPA-SRF funds administered by the State (CWSRF and DWTRF);
- 5) Strive to ensure that all federal funds are utilized and matched when necessary by State funds. Other than the Infrastructure Fund and the Water Development Authority, all other primary funding programs for water and sewer projects in the State receive their funds primarily from federal sources; and
- 6) Continue to develop guidance for and identify funding sources to address evolving infrastructure needs.

REFERENCES

- 1) 2019 Statistical Report, Public Service Commission of West Virginia
 - a. Public water systems or Public Utility from Water Rule, 150CSR07 Except where a different meaning clearly appears from the context, the word or words "utility" or "public utility" when used in these rules shall mean and include any person or persons, or association of persons, however associated, whether incorporated or not, including municipalities, engaged in the business of producing, furnishing, transporting, distributing or selling water for any purpose which is now or may hereafter be held to be a public service.
 - b. Public sewer systems or Public Utility from Sewer Rule 150 CSR05 Except where a different meaning clearly appears from the context, the word, or words, "utility" or "public utility" when used in these rules shall mean and include any person or persons, or association of persons, however associated, whether incorporated or not, including municipalities, engaged in the business of collecting, transporting, and/or treating sewage.
 - c. Customer from Water Rule, 150CSR07 Shall mean and include any such person, firm, corporation, municipality, public service district or any other entity who purchases a product or services of any utility and shall include any such person, firm, corporation, municipality, public service district or any other entity who purchases such services or product for resale. (Note: Same for both water and sewer). Additional clarification A single person may be counted as two customers in the instance where they receive water service and sewer service from the same utility. Thus 1 for water and 1 for sewer would be reported on each of the Annual Reports of the respective utility. (This was actually the subject of a Supreme Court case a few years ago). In multi-tenant buildings or large campus style facilities, if the individual units are not separately metered then each facility would have a master meter and be reported as one customer.
- 2) Combined Sewer Overflow (CSO) Long Term Control Plans, WV Department of Environmental Protection
- 3) Consumer Price Index (CPI) for 2015 2020 from the US Bureau of Labor Statistics
- 4) U.S. Census Data for 2010 updated from American Community Survey for 2019

Appendix A Existing Water Systems and Customers - Water Associations and Authorities

	AVG. #
NAME OF UTILITY	<u>CUSTOMERS</u>
Arthurdale Water Association	110
Clinton Water Association, Inc.	3,816
Coal Mountain Water Company	41
Coolfont Mountainside Association, Inc.	122
Crumpler Community Water Association, Inc.	-
Denver Water Association	146
Gallipolis Ferry Water Association, Inc.	432
Garwood Water Maintenance Association	-
Green Camp Community Water Association	19
Hardy County Rural Development Authority	80
Herndon Water Works	-
Hiawatha Water Association	-
Hughes River Water Board	3
Hutchinson Community Water Association	150
J-2-Y-35 Water Association, Inc.	-
Mariana Public Service District	10
Ministers Run Water Association	140
Montana Water Association	311
Mount Hope Water Association	1,200
Mountain View Water Association	892
New Creek Water Association, Inc.	1,383
O'Toole Water Association, Inc.	-
Pleasants County Development Authority	-
Route 16 Water Corporation	-
Sugar Lane Water Association Inc	-
Tri-County Water Association	1,159
Webster County Economic Development Authority	216
Whitmer Water Association, Inc.	-
Woods Homeowners Association, Inc., The	-
Total	10,230

	AVG. #
NAME OF UTILITY	<u>CUSTOMERS</u>
Albright	145
Alderson	695
Anmoore	473
Athens	1,791
Beech Bottom	230
Belington	935
Belmont	427
Benwood	576
Berkeley Springs (Bath)	1,395
Bethlehem	1,151
Beverly	1,092
Bradshaw	69
Bridgeport	5,000
Bruceton	78
Buckhannon	4,043
Burnsville	502
Cairo	0
Camden-on-Gauley	156
Cameron	426
Capon Bridge	335
Carpendale	375
Cedar Grove	403
Ceredo	662
Chapmanville	884
Charles Town	6,209
Chester	1,736
Clarksburg	7,934
Clay	525
Davis	448
Davy	174
Delbarton	153
East Bank	390
Elizabeth	861
Elkins	3,963
Fairmont	13,948
Fairview	447
Falling Springs (Renick)	103
Farmington	318
Follansbee	3,608
Fort Gay	620
Franklin	711
Gary	443

	AVG. #
NAME OF UTILITY	<u>CUSTOMERS</u>
Gilbert	718
Glasgow	292
Glen Dale	1,008
Glenville	845
Grafton	2,583
Grant Town	528
Grantsville	301
Harman	103
Harpers Ferry	828
Harrisville	1,119
Hartford	225
Hillsboro	119
Hurricane	3,629
Huttonsville	75
Junior	419
Kenova	4,009
Kermit	522
Keyser	2,524
Keystone	80
Kingwood	1,411
Lester	271
Lewisburg	5,023
Logan	1,906
Lumberport	640
Mannington	909
Marlinton	762
Martinsburg	6,652
Mason	764
Masontown	925
Matewan	855
McMechen	807
Meadow Bridge	260
Middlebourne	532
Mill Creek	379
Milton	2,568
Monongah	1,414
Moorefield	1,228
Morgantown	26,411
Moundsville	4,465
Mount Hope	638
New Cumberland	575
New Haven	671

	AVG. #
NAME OF UTILITY	CUSTOMERS
New Martinsville	2,665
Newburg	437
Northfork	152
Nutter Fort	780
Oceana	-
Paden City	1,249
Parkersburg	15,912
Parsons	815
Paw Paw	233
Pax	299
Pennsboro	881
Petersburg	1,219
Philippi	1,515
Piedmont	277
Pine Grove	-
Pineville	1,074
Pocahontas	1
Point Pleasant	2,436
Rainelle	824
Ravenswood	1,872
Reedy	148
Richwood	983
Ridgeley	298
Ripley	2,487
Rivesville	564
Romney	886
Ronceverte	949
Rowlesburg	279
Rupert	494
Salem	784
Shepherdstown	1,721
Shinnston	-
Sistersville	970
Spencer	2,114
St. Albans	6,016
St. Marys	1,089
Star City	980
Stonewood	928
Summersville	2,747
Terra Alta	718
Thomas	366
Triadelphia	510

	AVG. #
NAME OF UTILITY	<u>CUSTOMERS</u>
Tunnelton	440
Union	387
Valley Grove	306
Vienna	5,373
War	-
Wardensville	382
Wayne	2,366
Weirton	9,296
Welch	1,069
Wellsburg	1,552
West Hamlin	994
West Milford	271
West Union	699
Wheeling	13,084
White Sulphur Springs	1,837
Williamson	-
Williamstown	1,532
Womelsdorff	109
Worthington	456
Totals	243,213

Appendix A

Existing Water Systems and Customers - Private Water Utilities

	AVG. #
NAME OF UTILITY	CUSTOMERS
Alpine Lake Public Utilities Company	520
Beckley Water Company	22,488
Bellwood Community Facilities Imp. Corp.	30
Cave Road Utilities, LLC	48
Fox Glen Utilities, Inc.	244
Jefferson Utilities, Inc.	2,894
Mountain View Water System LLC	55
Newell Company, Inc., The	647
P & P Enterprises Utilities, LLC	2
Springer Run Park, LLC	64
Sunny View Acres Water Project	28
Timberline Four Seasons Utilities, Inc.	439
Valley Water & Sewer Services, Inc.	121
West Logan Water Company	417
West Virginia Resorts LLC	-
West Virginia-American Water Co.	166,038
Total	194,035

Source: 2019 Statistical Report, Public Service Commission of WV

Appendix A Existing Water Systems and Customers - Public Service Districts (Water)

	AVG. #
NAME OF UTILITY	CUSTOMERS
Adrian Public Service District	2,101
Armstrong Public Service District	737
Berkeley County Public Service District	25,014
Big Bend Public Service District	-
Bingamon Public Service District	531
Birch River Public Service District	453
Bluewell Public Service District	2,968
Boone County Public Service District	-
Boone-Raleigh Public Service District	459
Branchland-Midkiff Public Service District	1,141
Brenton Public Service District	-
Brooke County Public Service District	113
Buffalo Creek Public Service District	1,497
Central Barbour Public Service District	1,078
Central Boaz Public Service District	652
Central Hampshire Public Service District	1,652
Century Volga Public Service District	1,010
Cheat View Public Service District	4,230
Chestnut Ridge Public Service District	1,183
Clay Battelle Public Service District	1,628
Clay County Public Service District	680
Clay-Roane Public Service District	840
Claywood Park Public Service District	3,866
Clover Public Service District	387
Cool Ridge-Flat Top Public Service District	1,828
Coon's Run Public Service District	429
Cottageville Public Service District	1,347
Cowen Public Service District	1,448
Craigsville Public Service District	2,021
Crum Public Service District	1,340
Cumberland P.S.D. c/o WV-American Water	99
Danese Public Service District	920
Downs Public Service District	444
East View Public Service District	235
Eastern Wyoming Public Service District	1,633
Elkins Road Public Service District	1,115
Ellenboro-Lamberton Public Service District	260
Enlarged Hepzibah Public Service District	836
Fenwick Mountain Public Service District	223
Flatwoods-Canoe Run Public Service District	1,927
Fountain Public Service District	767
Frankfort Public Service District	2,821

Appendix A Existing Water Systems and Customers - Public Service Districts (Water)

	AVG. #
NAME OF UTILITY	CUSTOMERS
Gap Mills Public Service District	185
Gauley River Public Service District	1,275
Gilmer County Public Service District	760
Glen Rogers Public Service District	89
Grandview-Doolin Public Service District	1040
Grant County Public Service District	2,757
Greater Harrison County Public Service District	3,511
Green Valley-Glenwood Public Service District	3,720
Greenbrier County Public Service District No. 2	474
Hammond Public Service District	906
Hamrick Public Service District	780
Hardy County Public Service District	2,025
Hodgesville Public Service District	1,198
Hundred-Littleton Public Service District	262
Huttonsville Public Service District	1,590
Ice's Run Route 250 Public Service District	478
Jane Lew Public Service District Water Division	665
Jumping Branch-Nimitz Public Service District	-
Justice Public Service District	236
Kanawha Falls Public Service District	1,021
Lashmeet Public Service District	-
Lavalette Public Service District	3,765
Leadsville Public Service District	649
Lincoln Public Service District	2,461
Little Creek Public Service District	913
Logan County Public Service District	-
Lubeck Public Service District	4,824
Mannington Public Service District	544
Marshall County Public Service District No. 1	1,447
Marshall County Public Service District No. 2	654
Marshall County Public Service District No. 3	1,162
Marshall County Public Service District No. 4	1,458
Mason County Public Service District	5,578
McDowell County Public Service District	3,228
Midland Public Service District	1,487
Mineral Wells Public Service District	2,573
Mingo County Public Service District	4,299
Monumental Public Service District	466
Mountain Top Public Service District	887
Mt. Zion Public Service District	489
Nettie-Leivasy Public Service District	1,366
New Haven Public Service District	-

Appendix A

Existing Water Systems and Customers - Public Service Districts (Water)

	AVG. #
NAME OF UTILITY	CUSTOMERS
Northern Jackson County Public Service District	1099
Norton-Harding-Jimtown Public Service District	699
Oakland Public Service District	927
Oakvale Road Public Service District	-
Ohio County Public Service District	4,250
Page-Kincaid Public Service District	650
Paw Paw Rt 19 Public Service District	536
Pendleton County Public Service District	852
Pleasant Hill Public Service District	718
Pleasant Valley Public Service District	1008
Pleasants County Public Service District	671
Pocahontas County Public Service District	921
Preston County Public Service District No. 1	1,472
Preston County Public Service District No. 2	1,481
Preston County Public Service District No. 4	1936
Putnam Public Service District	9,815
Raleigh County Public Service District	6,856
Ravencliff-McGraws-Saulsville Public Service Dist	1,272
Red Sulphur Public Service District	2,251
River Road Public Service District	792
Salt Rock Public Service District	-
Short Line Public Service District	1,183
Southern Jackson County Public Service District	2,481
Southwestern Water District	2,177
Sugar Creek Public Service District	600
Summit Park Public Service District	408
Sun Valley Public Service District	1,235
Taylor County Public Service District	-
Tomlinson Public Service District	1837
Tyler County Public Service Dictrict (fka Friendly)	902
Union-Williams Public Service District	3,254
Valley Falls Public Service District	1,677
Walton Public Service District	850
Washington Pike Public Service District	1,382
Wetzel County Public Service District No. 1	692
Wilderness Public Service District	2,054
Totals	192,473

	AVG. #
NAME OF UTILITY	<u>CUSTOMERS</u>
Albright	94
Alderson	508
Anmoore	419
Ansted	576
Athens	446
Barboursville	1,901
Barrackville	696
Beckley	7,368
Belington	819
Belle	610
Belmont	397
Benwood	557
Bethany	214
Bethlehem	1,118
Beverly	810
Blacksville	95
Bluefield	7,431
Bradshaw	112
Bridgeport	4,990
Buckhannon	3,127
Buffalo	499
Burnsville	206
Cairo	156
Camden-on-Gauley	92
Cameron	399
Capon Bridge	218
Carpendale	374
Cedar Grove	352
Ceredo	808
Chapmanville	775
Charles Town	6,280
Charleston	22,565
Chesapeake	632
Chester	1,634
Clarksburg	7,266
Clay	264
Clearview	255
Davis	439
Delbarton	103
Dunbar	3,404
Durbin	164
East Bank	379

	AVG. #
NAME OF UTILITY	CUSTOMERS
Eleanor	979
Elizabeth	422
Elkins	2,989
Fairmont	9,625
Farmington	237
Flemington	373
Follansbee	2,403
Fort Gay	311
Franklin	459
Gary	393
Gilbert	320
Glasgow	290
Glen Dale	1,056
Glenville	718
Grafton	2,292
Grantsville	295
Granville	331
Handley	99
Harman	56
Harrisville	826
Hartford	200
Hillsboro	118
Hinton	1,237
Huntington	16,792
Hurricane	2,026
Junior	194
Kenova	1,327
Kermit	132
Keyser	2,191
Kingwood	1,450
Leon	117
Logan	813
Lumberport	640
Mannington	920
Marlinton	684
Marmet	577
Martinsburg	6,067
Mason	472
Masontown	509
Matewan	784
Matoaka	-
McMechen	793

	AVG. #
NAME OF UTILITY	<u>CUSTOMERS</u>
Meadow Bridge	325
Middlebourne	563
Milton	1,931
Monongah	613
Montgomery	592
Moorefield	1,260
Morgantown	22,842
Moundsville	4,399
Mount Hope	488
Mullens	-
New Cumberland	440
New Haven	640
New Martinsville	2,550
Newburg	147
Nitro	2,518
North Hills	313
Nutter Fort	772
Oak Hill	4,000
Oceana	-
Paden City	1,206
Parkersburg	15,265
Parsons	727
Paw Paw	233
Pax	153
Pennsboro	524
Petersburg	1,189
Philippi	1,196
Piedmont	262
Pine Grove	-
Point Pleasant	2,107
Pratt	226
Princeton	3,980
Ranson	-
Ravenswood	1,807
Reedsville	336
Reedy	76
Richwood	809
Ridgeley	320
Ripley	2,275
Romney	1025
Ronceverte	791
Rowlesburg	232

Existing Sewer Systems and Customers - Municipal Sewer Utilities

	AVG. #
NAME OF UTILITY	<u>CUSTOMERS</u>
Salem	728
Sand Fork	58
Shepherdstown	1,139
Shinnston	-
Sistersville	955
Smithers	368
Sophia	826
South Charleston	7,051
Spencer	1,543
St. Albans	6,103
St. Marys	903
Star City	980
Stonewood	914
Summersville	1,691
Terra Alta	633
Thomas	315
Triadelphia	489
Tunnelton	165
Union	292
Vienna	5,188
War	-
Wardensville	365
Wayne	728
Weirton	9,164
Welch	830
Wellsburg	1,411
West Hamlin	390
West Union	522
Weston	2,544
Westover	2,292
Wheeling	12,506
White Sulphur Springs	1,640
Willamson	-
Williamstown	1,419
Winfield	1,134
Worthington	307
Total	289,094

Existing Sewer Systems and Customers - Private Sewer Utilities

	AVG. #
NAME OF UTILITY	CUSTOMERS
Alpine Lake Public Utilities Company	520
Butcher Bend Lagoon Maintenance Association	19
Carney Park Landowners/Homeowners Association	60
C & J Utilities, LLC	31
Cacapon South Utility Association, Inc.	90
Cave Road Utilities, LLC	48
Circle Drive Estates Association	41
Coolfont Mountainside Association Inc.	112
Fountainhead Homeowners Association	92
Graham Meadows Service District, Inc.	55
Green Acres Utilities	105
Hidden Valley Treatment, Inc.	53
Holiday Park Leisure Acres Association, Inc.	-
HPSD, LLC	266
Hubbard Heights Subdivision H.O. Association	-
Lakewood Utilities, Inc.	-
Linmont Sanitation System, Inc.	81
Moorefield/Hardy County Wastewater Authority	4
Newell Company, Inc., The	425
Ogden Sewer Company	80
P & P Enterprises Utilities LLC	36
SCL, PSD, LLC	141
Sewage Systems, Inc.	-
Shenandoah Junction Public Sewer, Inc.	160
Spring Valley Home Owners Association, Inc.	-
Springer Run Park, LLC	64
Timberline Four Seasons Utilities, Inc.	754
Village at Rock Ridge, Inc.	100
Vitech Enterprises, Inc.	-
Wastewater Management, Inc.	50
West Virginia Resorts, LLC	-
West Virginia-American Water Company	1,114
Williamsburg Sewer System, Inc.	207
Wood County Parks and Recreation Commission	18
Total	4,726

Existing Sewer Systems and Customers - Public Service Districts (Sewer)

	AVG. #
NAME OF UTILITY	CUSTOMERS
Armstrong Public Service District	743
Berkeley County Public Service Sewer District	23,972
Big Bend Public Service District	-
Bluewell Public Service District	1,235
Boone County Public Service District	1,750
Boone-Raleigh Public Service District	407
Bradley Public Service District	1,597
Bramwell Public Service District	191
Brooke County Public Service District	1071
Buffalo Creek Public Service District	1,869
Canaan Valley Public Service District	4
Center Public Service District	747
Central Boaz Public Service District	499
Central Hampshire Public Service District	787
Claywood Park Public Service District	1,976
Colfax Public Service District	137
Cottageville Public Service District	239
Cowen Public Service District	564
Crab Orchard-MacArthur Public Service District	4,243
Craigsville Public Service District	980
Culloden Public Service District	1,208
Deckers Creek Public Service District	1,974
East View Public Service District	356
Elk Valley Public Service District	4,523
Ellenboro-Lamberton Public Service District	162
Enlarged Hepzibah Public Service District	730
Flatwoods-Canoe Run Public Service District	1,281
Frankfort Public Service District	2,268
Glen Rogers Public Service District	92
Greater Harrison County Public Service District	2,199
Greater Marion Public Service District	423
Greater Paw Paw Sanitary District	1,331
Greater St. Albans Public Service District	2,497
Green Valley-Glenwood Public Service District	3,635
Greenbrier County Public Service District No. 2	2,232
Greenbrier Public Service District No. 1	2,820
Hamlin Public Service District	687
Hamrick Public Service District	467
Hancock County Public Service District	1,396
Hardy County Public Service District	27
Harpers Ferry-Bolivar Public Service District	765
Hundred-Littleton Public Service District	190

Source: 2019

Statistical Report, Public Service Commission of WV

Existing Sewer Systems and Customers - Public Service Districts (Sewer)

	AVG. #
NAME OF UTILITY	CUSTOMERS
Huttonsville Public Service District	946
Jane Lew Public Service District	903
Kanawha Falls Public Service District	1,131
Kanawha Public Service District fka Chelyan PSD	2,444
Kingmill Valley Public Service District	1,406
Lake Floyd Public Service District	151
Leadsville Public Service District	777
Logan County Public Service District	-
Lubeck Public Service District	2,428
Malden Public Service District	3,193
Marshall County Sewerage District	812
Mason County Public Service District	274
Meadow Creek Public Service District	-
Midland Public Service District	898
Mineral Wells Public Service District	1,767
Mingo County Public Service District	428
Mountain Top Public Service District	298
Mt. Zion Public Service District	125
New Creek Public Service District	1,062
New Haven Public Service District	-
North Beckley Public Service District	3,855
Northern Jackson County Public Service District	128
Northern Wayne County Public Service District	2,773
Norton-Harding-Jimtown Public Service District	298
Oakvale Road Public Service District	1,829
Ohio County Public Service District	2,021
Page-Kincaid Public Service District	410
Pea Ridge Public Service District	4,954
Pleasant View Public Service District	153
Pocahontas County Public Service District	730
Preston County Public Service District	247
Prichard Public Service District	185
Putnam Public Service District	11,536
Red Sulphur Public Service District	1,230
Salt Rock Public Service District	1,635
Shady Spring Public Service District	4,606
Sissonville Public Service District	1,652
Southern Jackson County Public Service District	722
Spring Valley Public Service District	534
Summit Park Public Service District	510
Sun Valley Public Service District	721
Tennerton Public Service District	893

Source: 2019

Statistical Report, Public Service Commission of WV

Existing Sewer Systems and Customers - Public Service Districts (Sewer)

	AVG. #
NAME OF UTILITY	CUSTOMERS
Tyler County Public Service District (Friendly PSD)	285
Union Public Service District	5,257
Union Williams Public Service District	1,833
Warm Springs Public Service District	1,445
Webster Springs Public Service District	622
West Dunbar Public Service District	679
White Oak Public Service District	981
Whitehall Public Service District	1,423
Totals	147,568

Appendix C

Current Needs - Approved Water Applications Requiring Funding As of 12/31/20

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
CHESTNUT RIDGE PSD	This project will make improvements to the PSD's water distribution system.	BARBOUR	2019W-1835	3,897,500.00	-
PHILIPPI, CITY OF	This project will provide a secondary water source by constructing a reservoir along Little Laurel Run in Barbour County, WV.	BARBOUR	2019W-1855	7,550,000.00	-
BOONE COUNTY PSD	To provide water service to a development park located on the former Hobet surface mine, that is being upgraded to the premier business, commercial and industrial site in Boone County as well as Southern West Virginia	BOONE	2020W-1868	3,400,000.00	100,000.00
FLATWOODS CANOE RUN PSD	This project is to extend services and provide quality and dependable potable water and fire protection service to approximately 39 customers in the Holly and Otter Magisterial Districts of Braxton County, West Virginia.	BRAXTON	2016W-1626	2,498,027.00	-
FOLLANSBEE, CITY OF	This project will upgrade the water treatment plants, SCADA system, refurbish all boosters and tanks, replace some existing water lines.	BROOKE	2018W-1756	9,237,573.00	0.00
PLEASANT HILL PSD	This project consists of the extension of public water service to approximately 77 households in Calhoun County.	CALHOUN	2018W-1746	3,440,000.00	0.00
GRANTSVILLE, TOWN OF	Required improvements to the Town of Grantsville's Water Treatment Plant.	CALHOUN	2015W-1588	2,097,920.00	1,000,000.00
CLAY COUNTY PSD	To provide potable water to the residents, businesses and churches of Clay County along Route 16 from Interstate 64 north to the Clay County line.	CLAY	2019W-1831	5,355,000.00	75,000.00
BIRCH RIVER PSD	Wilson Ridge Water Extension Phase 2 extends water further along Wilson Ridge Road (Clay County Route 48) to provide domestic water service to a potential 28 new customers. The project includes approximately 4.4 miles of four-inch and smaller diameter waterlines. Due to concerns about turnover, the lines are not sized to provide fire protection.	CLAY	2018W-1770	945,000.00	0.00
SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
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CLAY, TOWN OF	To replace two water storage tanks that failed during cleaning in the summer of 2018. Both tanks were built in 1969. The middle ring of the larger tank has pitting and perforations and cannot be rehabilitated.	CLAY	2019W-1785	975,000.00	0.00
DODDRIDGE COUNTY PSD	The Big Flint Water Line Extension will serve approx. 339 new customers. Will tie-in to Town of Salem's existing system at 1,000 feet SE of US Rt 50 & Rt 23 intersection. Current residents utilize wells, springs & cisterns as sources of drinking water. This will require approx. 70,435 LF of 8", 30,525 LF of 6", 5,815 LF of 2", 65 gate valves, 60 fire hydrants, 12 automatic air release valves, 339 3/4" meters, one booster pump station, one water storage tank, & necessary appurtenances.	DODDRIDGE	2016W-1634	7,919,435.00	-
MEADOW BRIDGE, TOWN OF	Water distribution system upgrades to properly supply water & fire protection to existing customer base, as well as extension of water & fire protection to areas adjacent to the Town. Project will include interconnection with Danese PSD to provide emergency water source, and an additional water storage tank to accommodate additional customers and provide system flexibility.	FAYETTE	2018W-1743	4,169,000.00	-
NEW HAVEN PSD	Water line extension to Cane Branch, Ramsey, Hawver Rd, South Miller Ridge, Arrowwood Rd, Dotson Ridge & Lower Dotson Ridge, Whispering Pines. Approximately 73 new customers.	FAYETTE	2018W-1760	4,841,686.00	337,832.00
NEW HAVEN PSD	Water line extension to Sunday Rd / Confluence / Elliot Cutoff area, including possible Stringtown connector & Clifty connector	FAYETTE	2018W-1761	2,933,635.00	236,280.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
KANAWHA FALLS PSD	Replace all the existing meters with radio read meters and purchase radio read meter reading equipment, repair the concrete ring on Low Tank, replace the Telemetry System throughout the entire system and make the following improvements at the existing water treatment plant: Replace Treatment Units with conventional Mixed Media Filters, Replace the Backwash Pumps/Motors, Replace High Service Pumps/Motors and Suction Lines/Screens, Install Winch / Trolley System for High Service Pumps, Clean / Dispose of debris in Clearwell, Other Related Work (Piping, Valves, Demolition, Electrical, Etc.)	FAYETTE	2019W-1799	3,842,000.00	0.00
ARMSTRONG/DEEPWATER PSD	Replacement of Powellton water storage tank with an apx 150,000 gal storage tank, upgrade apx 10,000 LF of existing waterline in the Powellton area & apx 9,000 existing waterline in the Deepwater area, as well as providing fire protection to the Deepwater area. BPH sanitary survey indicates water loss significantly higher than 15%, as well as stating that the Powellton Tank is in very poor condition & needs to be replaced to avoid endangering the public health of the customer base.	FAYETTE	2016W-1628	2,515,000.00	1,500,000.00
GILMER COUNTY PSD	This project consists of extending water to three areas (Grass Run, Tator Knob, Route 74) within the Gilmer County PSD service area. The project will serve 29 customers with the possibility of serving additional customers. The project also includes the repainting of the Gilmer County PSD water tank located in Sand Fork.	GILMER	2020W-1915	2,700,000.00	0.00
GREENBRIER COUNTY PSD #2	Water extension to approximately 105 customers in the Charmco & McRoss areas of Greenbrier County.	GREENBRIER	2018W-1745	2,735,000.00	0.00
ALDERSON, TOWN OF	Water system rehab, extension to apx 165 new customers	GREENBRIER	2019W-1833	6,637,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
LEWISBURG, CITY OF	The City of Lewisburg has decided to undertake a water system improvements project that includes a new treatment plant, new raw water intake and line, distribution system work that will include new water storage tanks and/or renovation of the existing tanks and the abandonment of 2 existing booster stations.	GREENBRIER	2014W-1536	36,410,650.00	-
RONCEVERTE, CITY OF	The sponsor is proposing a water system upgrade project consisting of replacing apx 11,400 lf of 8", 6", 4", & 2" existing old cast iron lead joint pipe, asbestos concrete pipe & galvanized water mains, 2,600 lf of existing galvanized water service lines, 100 existing water meter installations and other related appurtenances on existing city streets to reduce water loss in the water distribution system to more acceptable levels. Project includes upgrading existing water booster stations.	GREENBRIER	2020W-1894	2,000,000.00	0.00
WHITE SULPHUR SPRINGS, CITY OF	The City of White Sulphur Springs provides water service to approximately 1,791 customers across southeastern Greenbrier County. This Preliminary Engineering Report outlines a proposed project that would provide public water to approximately 50 potential customers living in the areas along and near County Route 60/14 (known as Harts Run Road). The service area also includes one business (UPS) and a planned business development. The existing system in this area belongs to the Greenbrier State Forest and consists of multiple wells and block reservoirs that supplies water via old service lines. The system is in need of an upgrade and a sustainable source. The proximity of the City of White Sulphur Springs water system makes supplying this area feasible and cost effective. The project includes approximately 21,000 linear feet of distribution line, valves, meters, hydrants and other appurtenances. All water for this project will be supplied by the City's existing plant.	GREENBRIER	2017W-1724	1,600,000.00	400,000.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
RAINELLE, TOWN OF	The Town of Rainelle's Water Storage Facilities Upgrade will consist of the complete painting and rehabilitation of four (4) existing water tanks and the installation of one (1) new water tank to replace an existing undersized tank. The project will include the conversion of the undersized tank into a clear well.	GREENBRIER	2019W-1828	1,500,000.00	-
CENTRAL HAMPSHIRE PSD	Water system providing water service and fire protection to approximately 120-130 customers that have already signed up for water in the Purgitsville area of southwestern Hampshire County along Route 220 and side roads, including main water lines, a water storage tank, and water supply from the Hardy County PSD through a tie in at the Hardy- Hampshire county boundary.	HAMPSHIRE	2020W-1874	2,500,000.00	-
ROMNEY, CITY OF	The Town of Romney is proposing a water system improvement consisting of the installation of approx 14,000 LF of water line, with associated connections into existing water lines, new gate valves, hydrant assemblies, re- connection of existing services, an automatic blow off assembly, HMA overlay, and various driveway and road repairs. The project proposes the installation of a complete Advance Metering Infrastructure metering system. Additionally the project will detail WTP upgrades consisting of the replacement of influent gate valves, clean and inspection of the clear well, replacement of basin settling tubes, storage building addition, automatic bulk water system, repair of air scour system, new air system at intake, new filter/finished and settled water turbidity meter, hard wire intake controls, new chemical injection pumps, new exhaust fans and lighting and other necessary appurtenances	HAMPSHIRE	2020W-1881	2,569,000.00	200,000.00
WEIRTON WATER BOARD	This project will allow the engineer (the Thrasher Group) to evaluate the City's water system for capacity and evaluate alternatives to expanding the capacity for potential economic development.	HANCOCK	2019W-1795	23,795,000.00	25,000.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
WEIRTON WATER BOARD	Water plant and line improvements to prevent loss of water service due to main line disruption as happened in the past.	HANCOCK	2015W-1580	6,900,000.00	6,900,000.00
HARDY COUNTY PSD	Extend potable water service to the Dover Hollow and Fort Run areas of Hardy County, WV	HARDY	2014W-1490	904,500.00	0.00
GREATER HARRISON COUNTY PSD	Critical Needs Funding Request-Extending Service to 31 customers in the stevens run area.	HARRISON	2020W-1899	799,999.00	0.00
GREATER HARRISON COUNTY PSD	Greater Harrison County PSD plans to extend water service to customers along Hoop Pole Run Road, Long Run Road and Steven's Run Road,	HARRISON	2015W-1566	2,326,000.00	-
SALEM, CITY OF	Proposed upgrades/line replacements to the city's potable water distribution system and water storage facilities to include construction of a 350,000 water storage at a new location and approximately 10,000 LF of water line replacement/upgrade varying in size from 4" to 8".	HARRISON	2017W-1676	1,520,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
RAVENSWOOD, CITY OF	The City of Ravenswood, WV owns and operates a potable water treatment and distribution system that currently serves 1,876 residential and commercial customers, and provides bulk water to the Northern Jackson Public Service District which serves 1,086 customers. Current water production facilities consist of seven (7) deep wells; chlorination and fluoridation equipment, two baffled clearwells, and high service pumps. Distribution facilities consist of 116,160 LF of water mains, three 500,000 gallon tanks and a hydropneumatic booster pumping station. Some of the facilities date from as long ago as 1939, while the most recent facilities (wells 6 and 7) were installed in 2004. The City desires to refurbish or replace components of the system that are no longer fully functional or are deteriorating. Additional improvements will address shortcomings identified by the WV Bureau for Public Health in its most recent (2017) Sanitary Survey. Items to be addressed include replacing existing water meters with radio-read meters, replacing non-functional valves, sand blasting and repainting all three tanks, adding fencing at the Hillcrest tank site, replacing limited lengths of leaking mains and installing a new emergency generator and electrical equipment at the water treatment plant.	JACKSON	2020W-1860	6,201,045.00	0.00
NORTHERN JACKSON COUNTY PSD	This water extension includes the installation of approximately 22,500 l.f. of 6-inch, 2,500 l.f. of 2-inch, and miscellaneous appurtenances to serve the area of upper Trace Fork Road. Approximately 54 new customers will be added to the existing system.	JACKSON	2014W-1524	1,184,000.00	704,000.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
SOUTHERN JACKSON COUNTY PSD	This project consists of the extension of public water service to the Station Camp Road, Windell Ridge, Jim Ridge, and White Pine areas of Jackson County.	JACKSON	2018W-1732	3,460,000.00	0.00
RIPLEY, CITY OF	Emergency repair of structural dam failure at City of Ripley's intake pool on Mill Creek. Work includes a cofferdam upstream, bypass, and reconstruction of dam base and creek bed to fill voids.	JACKSON	2019W-1820	500,000.00	-
KANAWHA COUNTY RDA	To provide potable water to the residents of Olcott thru a public private partnership with West Virginia American Water	KANAWHA	2020W-1896	6,990,000.00	979,895.00
CEDAR GROVE, TOWN OF	This project is proposed to upgrade and replace much of the Cedar Grove water distribution system. The current system is old and has a large amount of unaccounted for water. This project is planned to reduce UFW, improve reliability and quality of service.	KANAWHA	2015W-1582	5,722,060.00	-
LEWIS COUNTY EDA	This proposed project plans to extend water distribution service to the areas of Oil Creek, Copley, Wolfpen, and Wheeler Fork. This project intends to serve approximately 232 potential customers that currently have unreliable and/or low quality water available.	LEWIS	2016W-1630	6,950,000.00	0.00
LINCOLN COUNTY PSD	Lower Mud River Water Extension Project Phase II will make service available to approximately 70 potential residents and small commercial customers in the Lincoln County communities of Lower Mud River, Buffalo Creek, Little Buffalo Creek, and surrounding areas. The project consists of the construction of approximately 39,850 linear feet of 8- inch and smaller diameter water main, 23 fire hydrants, valves and individual customer services and other related appurtenances. Water for the project will be purchased from the West Virginia American Water Company's Water System at Hamlin.	LINCOLN	2017W-1671	2,337,000.00	-

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
WEST HAMLIN, TOWN OF	Refurbish the water treatment facility (including the building, raw water pump station, filters, sedimentation basin and clearwell.) Refurbish the booster pumping station, three (3) welded water storage tanks and one (1) glass-lined tank. Build an additional water storage tank, add a second sedimentation basin and an on-site emergency generator. Reestablish the inter-connection with the Salt Rock Water Public Service District's (PSD) water main.	LINCOLN	2020W-1876	5,862,100.00	0.00
RIVESVILLE, TOWN OF	Proposed project will replace the water supply line from the Bellview master meter in Fairmont to the meters at Hawkinberry Hollow outside of Rivesville.	MARION	2017W-1677	2,417,895.00	1,500,000.00
WORTHINGTON, TOWN OF	The Town of Worthington intends to repaint and upgrade its two storage tanks, replace its existing water meters, replace 8,500 LF of 2-inch and 6-inch mains, install 500 LF of new 4- inch main, install one hydro-pneumatic booster pump station, replace 17 valves, refurbish two PRV stations, install leak detection meters and replace its maintenance garage facility.	MARION	2019W-1810	3,366,390.00	-
RIVESVILLE, TOWN OF	The proposed project addresses four specific items that the Town of Rivesville has been directed to address by either the Bureau for Public Health and/or the Public Service Commission. Those items include: 1) Address the Pleasant View Service area low pressure problem, 2) Replace Smith Hollow Water Storage Tank, 3) Replacement/Relocation of the Sugarlane Master Service Meter, and 4) Upgrade of the System Telemetry.	MARION	2019W-1803	529,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
FAIRVIEW, TOWN OF	Phase I of 2. The project will include a connection to the Monumental PSD; this will consist of a booster pump station and a new 6-inch main; repair and refurbishment of two existing water tanks, upgrade access roads, replace telemetry system and construct new water office.	MARION	2020W-1861	3,050,000.00	0.00
FARMINGTON, TOWN OF	Rehabilitation of water lines and related appurtenances along First Street, Second Street, Third Street, Fourth Street, Morgantown Road, Sycamore Street, Swearigen Street, and Anderson Street, all within the Town of Farmington and all water meters, water lines, a pump station, a water storage tank, and related appurtenances for facilities formerly owned by Little Laurel Water Improvement Association, Inc. and Lincoln Heights Improvement Association acquired by the Town of Farmington in WVPSC Case Numbers 17-0048-W- PC and 17-0049-W-PC, respectively	MARION	2020W-1911	2,737,000.00	-
FARMINGTON, TOWN OF	Water line replacement in the northwest area in the Town of Farmington and for Little Laurel Run Water Assoc., installation of a telemetry system to control the operation of Little Laurel Run booster pump station and monitor storage tank water levels. This project also proposes to renovate the existing 100,000 gallon water storage tank and upgrading the existing water booster pump station for the Little Laurel Run system. This project description amends the original project by not replacing the water lines in the Lincoln Heights Improvement Association. This is due to the Lincoln Heights water system being in good shape.	MARION	2017W-1681	1,025,000.00	-
MOUNDSVILLE, CITY OF (MOUNDSVILLE WATER COMPANY)	Replacing approximately 3,100 LF of an existing 6" water line with a new 8" line, including meters, valves, tie-ins, sidewalk repair, etc.	MARSHALL	2018W-1744	1,283,930.00	-

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
CAMERON, CITY OF	Make improvements to the City's Water System and Extend Water Service approximately 1.6 miles along Green Valley and Tunnel Hill Roads to serve 52 new customers.	MARSHALL	2013W-1448	1,710,951.24	103,161.24
MCDOWELL COUNTY PSD	To replace the current water systems in the Towns of Northfork and Keystone in McDowell County, WV.	MCDOWELL	2014W-1513	6,330,000.00	3,350,000.00
LASHMEET PSD	Extension of public water to the Mary Branch area of Mercer County, West Virginia	MERCER	2018W-1728	2,555,000.00	-
KEYSER, CITY OF	Repainting existing 50,000 gallon Brookhaven storage tank, refurbish existing Brookhaven pumping station, upgrade Limestone Run Booster pumping station and replace additional valves, meters, etc. in the distribution system. This project will compliment the City's ongoing water treatment plant upgrade (Phase 2) and distribution system improvements (Phase 1) projects, which have been funded by the USDA RUS	MINERAL	2014W-1519	951,120.00	-
MINGO COUNTY PSD	The proposed project will provide service to approximately 213 potential residential/small commercial customers, as well as the Huff Consolidated School and the U.S. Army Corps of Engineers facility at RD Bailey Lake.	MINGO	2019W-1826	7,840,000.00	40,000.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
MINGO COUNTY PSD	The proposed Twisted Gun Water Extension Project is being implemented by the Mingo County Public Service District. The Project is being sponsored by the Mingo County Public Service District (MCPSD) and Mingo County Redevelopment Authority (MCRA). The proposed area to be served is a golf course constructed on a reclaimed surface mining operation in southern Mingo County that is currently operated by the Bella Vista LLC through an agreement with the Mingo County Redevelopment Authority. The project is necessary to provide quality and dependable potable water and fire protection service to the 343-acre golf course and surrounding developable area located the Stafford Magisterial District of Mingo County, West Virginia. The Twisted Gun Golf Course was opened in 2002 through a joint venture by Alpha Natural Resources, Arch Coal Company and Pocahontas Land Company. The course was opened as a Professional Golf Association (PGA) style course with four sets of tees playing between 7,015 and 5,155 yards. When the course first opened, it was known as one of the state's finest public golf courses. The golf course was donated to the MCRA on June 11, 2015. Since then Bella Vista LLC. has developed plans to open a restaurant and build condominiums at the course but the plans depend on a potable water and fire protections. The course currently uses well water to serve the course. The well water is substandard at best with a strong sulfur odor and is unsuitable for any development at the golf course.	MINGO	2016W-1659	1,740,600.00	350,000.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
WILLIAMSON, CITY OF	Upgrade of Williamson's water system including construction of 15,100 l.f. of 24in and smaller water main, three 2,500gpm treatment plant high service pumps, 500gmp booster station, four new water storage tanks, rehab of existing tank, numerous pressure reducing stations, back up generators, telemetry, hydrants, valves and related appurtenances.	MINGO	2015W-1587	12,578,000.00	0.00
GILBERT WATERWORKS, TOWN	The project will consist of upgrading the Water Treatment Plant for the Town of Gilbert, Mingo County, West Virginia	MINGO	2015W-1598	6,487,000.00	0.00
GILBERT WATERWORKS, TOWN	The proposed River Bend Road Waterline Extension Project will make service available to approximately thirty three potential residential and small commercial customers (82 persons) between the Mingo County communities of Verner and Paynter Bottom. The project consists of the construction of approximately 13,210 linear feet of 8-inch and smaller diameter water main, one 250 gallon per minute booster station, one 200 gallon per minute booster station, fire hydrants, valves, individual customer services and other related appurtenances.	MINGO	2015W-1605	2,229,000.00	0.00
KERMIT, TOWN OF	The project consists of removal/replacement of the Town's existing waterline along U.S. 52 as well as significant rehabilitation of the WTP. Construction includes 3,400LF of 6" waterline, two 3/4" Air Release valves, a Gate Valve and other related appurtenances; removing and replacing the 400GPM and the 300GPM High Service Pumps and controls, repair of existing (plant) exterior concrete, upgrade of the interior piping and valves, installation of a structure over the present sedimentation basin and miscellaneous electrical upgrades.	MINGO	2019W-1801	3,433,000.00	-

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
RIVER ROAD PSD	The project proposes to replace water lines in the Booth Area and Birchfield Area; replace the Old Steel Harmony Grove Tank; install controls to improve water storage turnover at Hildebrand Tank; and upgrade piping at the existing booster pump station.	MONONGALIA	2015W-1565	2,546,000.00	2,546,000.00
UNION, TOWN OF	Extension of Water Service from The Town of Union two miles north on US Rt. 219 to the UTC Aerospace Systems Plant in Monroe County.	MONROE	2015W-1560	2,530,000.00	0.00
UNION, TOWN OF	Extension of water line to approximately 89 customers in the community of Pickaway, north of Union on U. S. Route 219.	MONROE	2015W-1577	2,321,000.00	0.00
RED SULPHUR PSD	Extension of water line to 77 potential customers on Adair Road north of U. S. Route 219 and west of State Route 12, between Peterstown and Cashmere in Monroe County, WV.	MONROE	2015W-1578	2,170,000.00	0.00
BATH-BERKELEY SPRINGS WATER DEPARTMENT	The project involves the replacement of additional existing water lines in the Town of Bath. Including replacing @ 15,575 feet of water lines ranging in size from ¾" to 6". The project will include replacing @ 100 existing meter services and miscellaneous valves and road repairs. The goal of the project is to reduce water loss and enable the Berkeley Springs Waterworks to be more sufficient.	MORGAN	2016W-1638	2,000,000.00	500,000.00
CRAIGSVILLE PSD	Project will provide water service to the residents along County Rt 3 beginning where it intersects with Lick Fork (Route 3/5) & runs to the community of Tioga. Also includes Horse Run, Delphi Rd, Bear Pen Rd, Big Run Rd & Lick Fork Rd. Project will serve apx 110 customers.	NICHOLAS	2015W-1584	3,738,210.00	3,738,210.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
BIRCH RIVER PSD	The Mill Creek Water Extension Project will extend potable water service to approximately 18 new customers in the northeastern corner of Nicholas County (near the Webster and Braxton County borders) who suffer from inadequate well systems. The project will consist of 10,350 LF of 4" and 1,700 LF of 2" water mains. These distribution lines will be fed by a proposed booster pump station.	NICHOLAS	2018W-1749	1,055,000.00	-
NETTIE LEIVASY PSD	Nettie Leivasy PSD proposes to undertake a water system rehabilitation project that includes the replacement of 10 pressure reducing stations, refurbishment of 1 pressure reducing station, installation of eight 4-inch and six 6-inch gate valves on existing lines, installation of 10 leak detection meter assemblies, purchase and delivery of 750 radio read water meters, installation of new aerial creek crossing (including valves, piping and support structure), install new 350 gpm alternate raw water pump station (with telemetry), replace altitude valve at Canvas Tank, install control valve and vaults at Canvas Tank, install control valve and vaults at Leivasy tank. The project also includes the rehabilitation of one 125,000 gallon elevated storage tank and the demolition of one 125,000 elevated water storage tank and construction of a new 231,000 clearwell tank and a new 1,000 gpm backwash pumping station.	NICHOLAS	2019W-1856	3,088,000.00	0.00
WILDERNESS PSD	Line upgrade & extension	NICHOLAS	2019W-1858	2,040,000.00	381,600.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
FRANKLIN, TOWN OF	The Town will be making several waterline replacements and installations throughout its system, including replacements and installations of hydrants, valves, and service lines, in addition to some 8 inch directional drill river crossings. Also, the Town needs to sandblast and repaint its Hanover tank, as well as install an altitude valve and upgrade the tank's access road. Telemetry will be installed at the Morton tank, and an upgrade will be made at the Town's secondary raw water source. The Town also has several upgrades needed to be done to its water treatment system. Those include replacing the backwash pump and upgrading the backwash tank, upgrading instrumentation and installing automation capabilities at the plant, installing two new 40,000 gallon clearwell tanks, upgrading the plant building, upgrading the town's primary water source (spring), installing variable frequency drives for the pump motors, upgrading the sediment basin concrete work, replacing the plant emergency generator with new transfer switch, and refurbishing the existing 350 gpm filter system.	PENDLETON	2019W-1845	3,472,318.00	200,000.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
TERRA ALTA WATER WORKS	The Terra Alta Water System Water Line Extensions, Water Line Improvements, System Improvements and Water Treatment Plant Upgrade project includes approximately 39,000 LF of new water line outside of town which will add 25 new customers, 2000 LF of replacement water line in town, upgrades to the water treatment plant, replacement of the existing 200,000-gallon Goodwell Water Storage Tank, upgrade of the Corinth Water Storage Tank altitude valve, approximately 779 radio read water meters and related equipment and software for existing and new customers, and the purchase of a new compact excavator, new equipment trailer, and new service/dump truck necessary for the continued operation and maintenance of the system.	PRESTON	2019W-1787	5,581,000.00	5,581,000.00
PUTNAM COUNTY COMMISSION	To provide potable water to an observed area of Jim Ridge in Putnam County	PUTNAM	2019W-1830	2,750,000.00	508,000.00
PUTNAM COUNTY BUILDING COMMISSION	To serve 39 residences along Manila Ridge with potable water. This project consists of approximately 30,000 lineal feet of 6 inch waterline.	PUTNAM	2013W-1465	1,676,000.00	176,000.00
COOL RIDGE-FLAT TOP PSD	The White Oak Waterline Extension Project will provide public water service to residents along the Raleigh and Summers County border. The project limits are from the intersection of Mount View and White Oak Road going north on White Oak Road to the intersection with Hinton Road (Route 3) and extending one mile along Hinton Road in each direction from the intersection. The project will serve approximately 30 households in Raleigh County.	RALEIGH	2019W-1814	1,867,588.00	1,867,588.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
HUTTONSVILLE PSD	A water line extension to provide water service to an unserved section of rural Randolph County. The proposed project will bring clean, affordable drinking water to roughly 250 customers. The HPSD currently is constructing a new Water Treatment Plant and will have the ability to service new areas in rural Randolph Co., including those proposed in this project.	RANDOLPH	2014W-1541	6,885,000.00	6,885,000.00
WALTON PSD	Repair both the damaged Ambler Ridge and Gandeeville tanks and replace the PSD's failing telemetry system.	ROANE	2019W-1790	989,800.00	-
CLAY-ROANE PSD	Clay Roane PSD water extension to serve Garner Branch and Pine Grove areas, two new tanks, plus various system improvements and upgrades.	ROANE	2017W-1688	2,854,960.00	-
WALTON PSD	For the Walton PSD, Roane County, to extend its potable water service along Quarry Road and Wolf Run and also provide fire service to the Camp Shepard 4-H Campsite.	ROANE	2015W-1564	2,349,550.00	-
REEDY, TOWN OF	This project will extend water service to approximately 70 new households in the Middle Fork area of Roane County.	ROANE	2017W-1692	1,985,000.00	-
SPENCER, CITY OF	Project involves replacement of aged and dilapidated water mains with 1,350 LF of 8" and 2,110 LF of 6" new water main, 5 hydrants, 45 reconnections, meter settings and reclamation/paving.	ROANE	2020W-1912	990,000.00	-
JUMPING BRANCH NIMITZ PSD	To provide water service to the Broomstraw Road and Mark Meador Road areas of western Summers County. Residents experience low water quantity and poor quality water issues in existing private wells. In addition, many residents haul water, use cisterns, and some report fecal contaminants in wells.	SUMMERS	2019W-1815	4,990,000.00	425,000.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
JUMPING BRANCH NIMITZ PSD	To provide water service to the Madams Creek Road area of western Summers County. Residents experience low water quantity and poor quality water issues in existing private wells. In addition, many residents haul water, use cisterns, and some report fecal contaminants in wells.	SUMMERS	2019W-1816	3,519,000.00	25,000.00
PARSONS, CITY OF	This project is to provide an emergency connection between two water systems (City of Parsons and Hamrick PSD)that will provide a secondary water source for each system. This project will allow compliance with Senate Bill 373.	TUCKER	2015W-1573	575,000.00	-
TYLER PSD	Extension of service to 167 potential customers along RT 18 and the Centerville - Alma area. A new storage tank and booster will be included to provide fire protection and much improved water supply for the area.	TYLER	2019W-1804	3,526,503.00	268,000.00
HODGESVILLE PSD	This project will replace approximately 175 service lines in the existing system. It will also include an extension on the Upper Peck's Run Road to serve an additional five customers. The project includes the installation of two 100,000 gallon water tanks as well as a booster pump station. The project also includes the installation of approximately 1,200 radio read meters.	UPSHUR	2020W-1877	2,780,000.00	-
CRUM PSD	Project willl extend water service to approximately 162 customers in the Wayne County community of Sidney, including WV Route 152 and County Routes 32, 32/1, 52/14, 52/55, 52/72, 52/15, 30, 52/16 and 52/17.	WAYNE	2012W-1326	4,330,000.00	-

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
WEBSTER COUNTY EDA	The Diana to Guardian Waterline Extension consists of 30,400 feet of 8", 6", and 2" waterline to serve 60 homes/farms/businesses. The extension begins at the end of the existing line in Diana and extends along US Route 15 to the Guardian area and terminates at Bear Run. Extensions up Bear Run and Big Run are included in the project.	WEBSTER	2020W-1913	2,708,040.00	-
PADEN CITY, TOWN OF	Water line replacement, tank rehab, water treatment updgrades.	WETZEL	2019W-1824 2019W-1854	5,264,000.00	-
ELIZABETH, TOWN OF	Water main replacement along WV Rt. 14.	WIRT	2019W-1854	1,760,000.00	-
PARKERSBURG UTILITY BOARD	Replacement of undersized and deteriorated water mains throughout the distribution system, South Side/Minner Avenue service area improvements, rehabilitation of WTP Backwash Basin, and rehabilitation of the South Reservoir and other storage tank improvements	WOOD	2020W-1882	14,690,000.00	-
MINERAL WELLS PSD	Make improvements to the Mineral Wells PSD water distribution system, complete water transmission improvements, and site improvements.	WOOD	2017W-1700	3,311,000.00	-
LUBECK PSD	Extension of public water service to approximately 207 households in the Belleville area of Wood County.	WOOD	2013W-1462	3,680,367.00	3,680,367.00
CLAYWOOD PARK PSD	Project entails miscellaneous water system improvements to enhance hydraulic capacity in two separate parts of the system; provide emergency preparedness through the addition of power generation at the water treatment plant and construction of additional system storage; replacement of old lines that are in the heart of the system; repainting of three tanks and the replacement of two tanks; a small water line extension serving 11 customers; and new equipment at two booster stations.	WOOD	2014W-1535	5,043,944.00	5,043,944.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
LOGAN COUNTY PSD	To provide service to potential customers in the Upper Huff Creek, Brush Fork, and Road Fork areas of northern Wyoming County. This project consists of construction of approximately 25,640' of 6" and small diameter waterline, one conventional booster station, one constant run booster station, one 54,000 gallon water storage tank, valves, fire hydrants, customer services, and other related appurtenances.	WYOMING	2017W-1690	2,539,000.00	150,000.00
LOGAN COUNTY PSD	To provide water service to approximately 166 residential and small commercial customers in the communities of Coal Mountain, Big Cub Branch, Upper Sturgeon Branch, and Road Branch in Wyoming County. This waterline extension will address high iron and sulfur content in wells in addition to replacing the old 1930's era Coal Mountain - coal camp system currently serving a portion of the area. Project consists of construction of approximately 52,700 feet of 8-inch and smaller diameter waterline, two conventional booster pump stations, two pressure reducing stations,one 100,000 gallon and one 20,000 gallon water storage tanks, valves, fire hydrants and other related appurtenances.	WYOMING	2017W-1721	4,785,000.00	70,000.00
EASTERN WYOMING PSD	Water Treatment Plant upgrades and development of secondary raw water source.	WYOMING	2019W-1829	8,511,500.00	-
OCEANA, TOWN OF	Phase 2 of a water system upgrade project for the Town of Oceana and the surrounding area.	WYOMING	2019W-1840	4,000,000.00	4,000,000.00
PINEVILLE, TOWN OF	To provide necessary water system upgrades to alleviate water loss, address sanitary survey deficiencies, and allow for water system expansions such as the Phase I: Brenton/Baileysville Waterline Extension Project.	WYOMING	2020W-1891	8,343,282.42	-

Current Needs - Approved Water Applications Requiring Funding As of 12/31/20

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
PINEVILLE, TOWN OF	To Provide reliable water service to the communities of Brenton, Baileysville, Double Camp, Green Camp, and Marianna, West Virginia as well as the Baileysville Elementary and Middle School. Also, this waterline extension would take the existing Brenton, Green Camp and Marianna systems offline.	WYOMING	2020W-1903	5,261,500.00	4,585,000.00

Total 402,491,578.66 58,431,877.24

Appendix D

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
BOONE COUNTY PSD	To Upgrade the current wastewater treatment plant near Danville and rehabilitate the sanitary sewer lines in West Madison	BOONE	20135-1420	4,370,000.00	34,200.00
BOONE-RALEIGH PSD	To rehabilitate the Sanitary Sewer Treatment Plant, pump stations and lines of the Boone Raleigh PSD system	BOONE	20195-1832	7,161,000.00	0.00
BURNSVILLE, TOWN OF	This project will make improvements to the Town of Burnsville's wastewater collection system.	BRAXTON	20175-1678	2,839,000.00	0.00
FOLLANSBEE, CITY OF	This project will upgrade the wastewater treatment plant, upgrade/replace pump stations, replace existing sanitary sewer lines, and separate storm and sanitary sewer lines consistent with Follansbee's long term control plan.	BROOKE	20185-1757	10,269,865.00	0.00
MILTON, CITY OF	This project proposes to remove and replace approximately 530 LF of 24-inch HDPE Storm Pipe, 6,735 LF of 10-inch PVC Gravity Sewer, 6,650 LF of eight (8) inch PVC Gravity Sewer, 80 LF of 8-inch DIP Gravity Sewer, 100 LF of six (6) inch PVC Force main, 3,300 LF of four (4) inch PVC Force main, 6,900 LF of four (4) inch PVC Gravity Sewer, 1,650 LF of two (2) inch PVC Force main, two (2) 60-inch Manholes, 71 48-inch Manholes, 135 Customer Reconnections, three (3) Lift Stations, one (1) tie-into existing Salt Rock PSD Force main and all other necessary appurtenances. Replacement of the sewer lines will be conducted using open trench excavation methods. The project will replace portions of the existing sewer mains as well as service laterals from the tie-in to the main line, to the customer's property line. Cleanouts will be installed at the property line for future maintenance purposes.	CABELL	20185-1725	7,900,000.00	0.00
PEA RIDGE PSD	This project proposes to decommission and remove the existing, failed Holiday Park WWTP and replace it with a new WWTP. The existing gravity collection system will also be replaced by a new gravity system. A boundary adjustment is being made, as well as a revision to the NPDES Permit, to enable the Pea Ridge Sewer Public Service District to include the Holiday Park sanitary sewer system as part of the District's responsibility.	CABELL	20185-1750	2,345,000.00	0.00

Appendix D

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
BARBOURSVILLE, TOWN OF	Project will connect Barboursville Wastewater System to the Pea Ridge Sewer PSD's wastewater treatment system via a new force main, add one new pump station, and make upgrades to 2 existing pump stations.	CABELL	20205-1870	13,998,450.00	0.00
GRANTSVILLE, TOWN OF	Critical repairs and replacement of components to Grantsville wastewater treatment plant.	CALHOUN	20205-1869	3,400,000.00	0.00
MT. ZION PSD	Rehabilitate portions of the Mt. Zion PSD treatment plant and its system's components.	CALHOUN	2017S-1702	2,310,000.00	0.00
CLAY, TOWN OF	To rehabilitate the wastewater system in the Town of Clay that has deteriorated over time	CLAY	20195-1793	4,106,500.00	0.00
MONTGOMERY SANITARY BOARD	Separation of combined sanitary and storm sewer systems	FAYETTE	20195-1783	1,848,431.00	1,848,431.00
SMITHERS, CITY OF	Separating storm sewer for sanitary sewer to reduce CSO, line replacement including service laterals, drop inlets, etc.	FAYETTE	2020S-1871	1,377,549.00	0.00
WHITE OAK PSD	Installation of new sludge dewatering process & storage building on the existing WWTP property, as well as renovation of existing components in need of repair or replacement.	FAYETTE	20195-1808	4,593,145.00	0.00
OAK HILL, CITY OF	This proposed project will make improvements to the existing sanitary sewer collection system in the Minden area of the City, including relocating a section of gravity sanitary sewer line and rehabilitating various manholes. The proposed project will also decommission two (2) pumping stations, upgrade two (2) pumping stations, and install a new pumping station to reduce excess flows at the OHSB Arbuckle Pump Station. The proposed improvements will work toward reducing or eliminating impacts of I&I on the sanitary sewer system.	FAYETTE	20205-1859	6,196,000.00	208,000.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
SMITHERS, CITY OF	This project proposes to address I&I within Smithers's wastewater collection system. An I&I study consisting of smoke testing and in- line camera investigations of existing sanitary sewer infrastructure will be conducted in order to identify the most significant sources of I&I. This project also consists of the rehabilitation of two (2) existing lift stations, approximately 5,200 LF of gravity sewer mains will be removed and replaced, approximately 20 manholes and all necessary appurtenances.	FAYETTE	20205-1914	1,960,545.00	0.00
PAX, TOWN OF	Sewer extension to serve approximately 52 customers in the Willis Branch area just outside the Town of Pax, as well as improvements to the existing treatment lagoon.	FAYETTE	2015S-1589	2,325,000.00	2,325,000.00
SAND FORK, TOWN OF	This project will make improvements to the Town's sanitary sewer collection and treatment system.	GILMER	2016S-1662	2,500,000.00	0.00
RONCEVERTE, CITY OF	The project will replace the leaking river interceptor and a number of broken or undersized vitrified clay gravity sewer mains, provide much greater access to those sewer lines for cleaning and maintenance, as well as replacing an uncased railroad crossing.	GREENBRIER	2019S-1857	4,385,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
GREENBRIER COUNTY PSD #2	This project proposes to upgrade the District's existing wwith in order to prolong the useful life of the facility. New construction for this project includes a new headworks building and a new influent lift station. The proposed headworks facility will contain package headworks equipment, and a bridge crane and trolley hoists. This project also entails upgrades to the existing WWTP facilities. Equipment will be removed and replaced in the oxidation ditch, secondary clarifiers, chlorine contact tank. The oxidation ditch will receive new rotors with VFDs, disc aerators, covers, DO control system, effluent weirs and troughs, and valves and piping, and will also be cleaned and receive a fresh coat of paint. The secondary clarifier shall have its sludge collection and scum removal equipment removed and replaced, and shall be outfitted with a new access bridge, walkway, handrail, valves, and piping. A chlorine feed building will be installed on the existing post- aeration basin, which will also receive new chlorination/dichlorination feed equipment, effluent flow meter, fiberglass grease baffle, and fresh paint. Various miscellaneous improvements will be made to the sludge drying beds, site lighting and electrical systems.	GREENBRIER	20205-1887	22,335,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
ROMNEY, CITY OF	The Town of Romney sanitary system improvement project encompassing in the removal and replacement of approximately 9,530 LF of exiting gravity collection system, with associated manholes, service re-connections and road repairs, installation of third pump within an existing lift station to independently handle high storm flows, replacement of the existing lift station trailer mounted backup generator and installation of new 12" & 24" values on the existing sanitary lines and other necessary appurtenances at the WWTP to enable storage and control of high sanitary flows	HAMPSHIRE	20205-1880	2,000,000.00	0.00
WEIRTON SANITARY BOARD	This project will allow the engineer (the Thrasher Goup) to evaluate the City's wastewater system for capacity and evaluate alternatives for expanding the capacity of the wastewater treatment plant for potential economic development.	HANCOCK	20195-1797	23,880,000.00	30,000.00
NEW CUMBERLAND, CITY OF	Rehab of equipment failing and at the end of its useful life in the wastewater treatment plant, the vacuum pump station, and other pump stations in the system.	HANCOCK	20195-1843	2,727,600.00	2,421,000.00
WARDENSVILLE, TOWN OF	The Town of Wardensville sewer improvement project consists of improvements to the wastewater treatment plant, upgrades at two lift stations, inflow and infiltration study of the collection system, and installation of a SCADA system.	HARDY	20205-1873	1,704,500.00	139,500.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
WEST FORK ONSITE COMMUNITY COOPERATIVE, INC	Decentralized wastewater collection and treatment system for the four unincorporated communities of Arlington, Glen Falls, Gore and Dawmont using a Septic Tank Effluent Pump (STEP) system that utilizes an onsite septic system for primary settling and treatment and then filtered effluent is pumped into a low-pressure piping network to a modular factory-built Packed Bed Media Treatment Facility in a central location. This application for Phase I of this project will construct the majority of the treatment plant and provide service to the community of Arlington. Phase II will finish the treatment plant and provide STEP service to the remaining three communities and will be a subsequent future IJDC application.	HARRISON	20195-1798	4,018,380.00	2,335,000.00
SOUTHERN JACKSON COUNTY PSD	Wastewater Treatment Plant Improvements	JACKSON	20185-1767	9,704,000.00	0.00
RIPLEY SANITARY BOARD	Construction of new Ripley SBR WWTP to treat existing Ripley flows plus Evans flows via new transmission line and closure of Ripley and Evans lagoons.	JACKSON	2018S-1774	22,860,000.00	0.00
RAVENSWOOD, CITY OF	Phase I of two includes pump station upgrades, telemetry equipment installation, flow meter installations, emergency power transfer switch installations, portable generator purchases, smoke testing and manhole inspection, and wastewater treatment plant design.	JACKSON	20195-1789	3,740,650.00	0.00
JEFFERSON COUNTY PSD	Sewer Transmission Upgrade	JEFFERSON	2014S-1538	7,150,000.00	7,150,000.00
HARPERS FERRY BOLIVAR PSD	Harpers Ferry-Bolivar PSD Wastewater Treatment Plant Improvements Phase II	JEFFERSON	20145-1487	2,011,695.00	2,011,695.00
ELK VALLEY PSD	To provide sewer service to 265 residences in the Blue Creek/Rt.119, Reamer, and Young's Bottom area of the Elk Valley Public Service District of Kanawha County	KANAWHA	2013S-1429	5,973,509.00	0.00
KANAWHA PSD	To provide sanitary sewer service from the Marmet WWTP to the 220 Residences and businesses along Route 94 to the Boone County Line.	KANAWHA	20165-1625	7,800,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
ELK VALLEY PSD	To reconstruct the areas of Hizer Trucking Slip, Reynolds Avenue Permanent Repair, and Reynolds Avenue Mitigation using 75% FEMA funding and the remainder of state and local funding	KANAWHA	2017S-1706	2,158,490.00	1,658,490.00
CHARLESTON SANITARY BOARD	Woodward Branch Sewer line upgrade/replacement project to serve 254 customers	KANAWHA	20175-1718	10,794,329.00	0.00
SISSONVILLE PSD	Portions of the WWTP (constructed in 1980s) will be rehabilitated and/or improved to continue successful operation of the WWTP. Collection system improvements include: constructing a screen building and rehabilitation of two pump station wet wells.	KANAWHA	20195-1784	2,955,000.00	0.00
CHARLESTON SANITARY BOARD	Make improvements within the Lick Branch/South Ruffner sewer shed area: in general includes apprx. 37,300-If of replacment san. sewer and apprx. 6,600-If of rehab. san. sewers. This is part of CSB's LTCP.	KANAWHA	20125-1337	11,613,300.00	11,613,300.00
CHARLESTON SANITARY BOARD	Make improvements within Porter's Hollow sewer shed area: which generally includes apprx. 42,000-If of replacement san. sewer and appr. 5,000-If of san sewer lining. This is part of CSB's CSO LTCP.	KANAWHA	20145-1521	14,934,300.00	14,934,300.00
LINCOLN COUNTY PSD	Lincoln PSD proposes to build a new wastewater treatment plant and provide sewer service to approximately 224 residential and commercial customers in and around Alum Creek.	LINCOLN	20165-1642	7,900,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
MONONGAH, TOWN OF	The Town of Monongah is proposing to replace existing sanitary sewer infrastructure within the town limits of Monongah, WV. The proposed project will replace approximately 7,820 linear feet of sanitary sewer line, install approximately 3,580 sanitary sewer line, install approximately 700 LF of new HOPE force main, install one new Duplex Submersible Non-Clog Lift Station, reconnection of new sanitary sewer lines into existing system and manholes, remove and replace 51 manholes, install 54 new manholes, replace six manhole frames and covers including grouting of internal seam, reconnection of 108 sanitary sewer lateral, installation of new 6" sanitary service cleanouts, videotaping and cleaning of approximately 2,500 linear feet of existing gravity sanitary sewer line, installation of two new Non-Clog Submersible pumps with one spare pump, replacement of lift station control panel, installation of new 8' diameter wet well, repair of approximately 19,250 linear feet of various road repair, bypass pumping and all other necessary appurtenances to complete the construction of the project.	MARION	20185-1780	4,125,000.00	0.00
COLFAX PSD	Colfax is decommissioning there WWTP and extending their sewer lines to Kingmill Valley PSD who will send their sewage to the Fairmont WWTP. Colfax will also be working on I & I reduction.	MARION	20145-1520	2,043,806.00	1,304,877.00
GREATER PAW PAW PSD	Sewer System for the community of Crown in Monongalia County including collection line and treatment system. Approximately 43 customers. Approval by Monongalia Co. Comm. to allow Greater PawPaw PSD in Marion Co. to initiate and construct project.	MARION	20115-1299	1,576,695.00	1,576,695.00
BENWOOD, CITY OF	This project will address issues in the combined sewer overflows C-008, C-009, C-013 & C-015. WVDEP has issued a Notice of Violation for stream conditions downstream of C-008. C-008 is located in a tunnel which creates safety concerns for City employees.	MARSHALL	20125-1325	3,500,000.00	3,500,000.00

Appendix D

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
CAMERON, CITY OF	The City of Cameron proposes to complete upgrades to the Waste Water Treatment Plant and separate sections of combined sewer system to bring the sewer system in compliance with their WVNPDES permit.	MARSHALL	20175-1704	935,880.00	0.00
Mercer County PSD	Repairs and upgrade to aging Matoaka Sewage Treatment Plant and wastewater collection system.	MERCER	2020S-1883	2,149,000.00	0.00
OAKVALE ROAD PSD	This project is to extend sewer service to portions of the areas of Hill Top Drive, Halls Ridge Road and Melrose Lane East of Princeton, WV.	MERCER	2017S-1713	4,505,680.00	250,000.00
BLUEFIELD, CITY OF	This project is for a sewer collection system upgrade in the community of Midway, just outside of Bluefield. The Bluefield Sanitary Board already serves this area.	MERCER	20185-1739	2,340,000.00	0.00
BLUEFIELD SANITARY BOARD	Upgrade of College Avenue Collection System, Deerfield Pump Station and Westside Sewage Treatment Plant.	MERCER	20185-1769	14,959,231.00	11,818,519.00
ATHENS, TOWN OF	Repairs to Athens Sewer Treatment Plant site and exposed sewer line caused by a micro-burst rain storm on May 27, 2018	MERCER	20195-1805	728,121.00	100,000.00
BLUEFIELD SANITARY BOARD	Rehab of four Cumberland Road PS Pumps and Ada WWTP upgrade	MERCER	20115-1270	1,588,474.00	1,588,474.00
FRANKFORT PSD	Bids for Project No. 2013S-1435 came in above project estimates. Four lines scheduled for replacement as part of that project had to be eliminated due to availability of funds. Those lines included service to Sunrise Heights, Sherwood Acres, Knobley Estates and Moreland Mobile Home Park. This project requests funding to complete these line replacements.	MINERAL	2015S-1606	3,700,000.00	3,700,000.00
MINGO COUNTY PSD	Inflow and infiltration rehabilitation project for the entire collection system including minor improvements to the main pump station.	MINGO	20185-1776	3,000,000.00	0.00
GILBERT, TOWN OF	Project will extend sewer service to approximately 83 customers (220 persons) in Mingo County along U.S. Route 52 between the Town of Gilbert and the community of Justice.	MINGO	20125-1318	4,428,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
MATEWAN , TOWN OF	The proposed Red Jacket Sanitary Sewer Project will provide service to approx. 140 potential customers (350 persons) in the Mingo County community of Upper Mate Creek. The project consists of the construction of approx. 19,000' of 8" gravity pipe, 1,000' of 6" force main, 100 manholes, 2 major pumping stations, service laterals and other related appurtenances. Treatment will be provided by the Town of Matewan's existing wastewater treatment plant. Once constructed, it will take the place of the current failing Red Jacket PSD vacuum sewer collection system. Currently, the vacuum pits are being pumped out daily to prevent sewage from backing up into homes. The current sewage disposal methods in the area are a potential health threat and negatively contribute to the water quality of Mate Creek and other area streams.	MINGO	2015S-1574	5,240,000.00	1,540,000.00
DECKERS CREEK PSD	Project includes demolition of an existing wastewater treatment plant, installation of a new gravity sanitary line from the demolished plant site to a new pump station near a low point along Dug Hill Road, the extension of a gravity sanitary line along Dug Hill Road & short sections along Shelby Rd, Turkeyfoot Ln, Bob White Ln, Wren Ln & 2 other unnamed extensions to connect to Valley View Acres (VVA) existing collection system, & construction of a force main to convey sewage from a new pump station on Dug Hill Road to an intermediate pump station on Dug Hill Road to a high point near S. Pierpont Road. Then a gravity sanitary sewer line would be constructed to convey the flow down to an existing Deckers Creek PSD manhole on S. Pierpont Road. In addition to conveying flow from VVA & nearby residences, the new line would serve residences on S. Pierpont Road & allow for future development. Approximately 60 new customers will be served by the project.	MONONGALIA	20165-1653	2,378,440.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
MORGANTOWN UTILITY BOARD	1. Star City WWTP Upgrades: modifications to headworks, primary treatment, and activated sludge; new silo digestor, MBR secondary treatment and UV disinfection; upgrade office/control building; electrical upgrades. 2. Upgrade Poponoe Run Interceptor.	MONONGALIA	2015S-1600	102,338,289.00	102,338,289.00
WARM SPRINGS PSD	Removal and replacement and/or repair of sewer lines and manholes in the Biser Street subsystem and the Greenway Drive subsystem as well as certain improvements to the wastewater treatment plant including, but not limited to, 400 kW diesel generator, aeration tank/clarifier anti-icing system, garage, and related appurtenances.	MORGAN	20205-1885	3,890,000.00	0.00
RICHWOOD, CITY OF	The project consists of removing and replacing approximately 15,000 LF of gravity sewer lines ranging in sizes from 8", 10", 12", 15", and 18". Cleaning approximately 5,000 LF of gravity sewer line. Removal and replacement of 31 manholes. Sewer Plant - Belt Filter Press replacement with new building.	NICHOLAS	20185-1779	7,450,000.00	0.00
ALBRIGHT, TOWN OF	This project proposes rehabilitation in the areas of State Rt. 26, Methany Avenue, Main Street, Wall Street, Bishop Avenue, St. Joe Road, Central Avenue, McCrumb Street, 1st Street, Park Avenue, 2nd Street and the beginning of the Crane School Road by cleaning the existing collection lines, repairing and replacing manholes, replacing customer service laterals, replacing lateral wyes and cutting and capping any open service connections or clean outs not being used that are currently collecting storm and ground water. The project also proposes the upgrade of all 3 existing submersible grinder pump stations as well as the existing WWTP.	PRESTON	20195-1786	2,195,000.00	0.00
NORTH BECKLEY PSD	To perform upgrades to the wastewater treatment plant, Sprague lift station and replace collection system lines.	RALEIGH	20185-1773	13,232,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
NORTH BECKLEY PSD	The proposed project is to extend sewer service into the unserved area Piney View along WV Route 41 and Stonewall Road. As well as to alleviate failing septic systems which often percolate well and pollute local streams.	RALEIGH	2015S-1576	5,510,600.00	0.00
CRAB ORCHARD- MACARTHUR PSD	Construction of a new sewer treatment plant at Holly Hills near Fairdale, and the extension of sewer service to approximately 265 new customers in the Glen Daniel - Marsh Fork area of Raleigh County.	RALEIGH	20155-1593	13,000,000.00	0.00
SHADY SPRING PSD	To extend and provide new sewer service in the Pluto Road/Fire Trail areas of Raleigh County West Virginia.	RALEIGH	20155-1609	8,701,244.87	0.00
SOPHIA, TOWN OF	Extension of sewer service from Sophia to Coal City Mobile Home Park and Coal City to serve 458 new customers. There will be a new "green" sewer plant included as part of this project.	RALEIGH	20165-1658	14,742,000.00	0.00
SHADY SPRING PSD	Shady Spring Public Service District wishes to upgrade their Glen Morgan Wastewater Treatment Plant (WWTP), located at Glen Morgan, WV. The WWTP was constructed in 1982 and some of the original treatment equipment is still in service. The goal is to replace the older worn out equipment and upgrade the WWTP capacity from 1.2 MGD to 1.6 MGD by constructing additional treatment unit(s).	RALEIGH	20205-1910	5,947,000.00	0.00
HUTTONSVILLE PSD	The project will make necessary improvements at the existing wastewater treatment plant to reduce ammonia, increase capacity, and also perform a study to reduce I/I in the collection system.	RANDOLPH	20195-1788	4,000,000.00	60,000.00
ELKINS, CITY OF	Sewer separation of combined sewers in the South Elkins area.	RANDOLPH	2017S-1712	4,187,600.00	0.00
TOWN OF ELLENBORO	Wastewater treatment plant and collection system improvements.	RITCHIE	20205-1895	1,529,000.00	0.00

Appendix D

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
AUBURN, TOWN OF	The Town of Auburn, which has no adequate wastewater treatment system, proposes to purchase and install individual wastewater filter units on each property and have the property owners assume ownership. The use of individual treatment units and a "Maintenance Association" will allow the Town to properly solve its sewage disposal problems and eliminate existing health hazard conditions in a manner that is affordable and sustainable.	RITCHIE	20145-1526	2,714,725.00	0.00
REEDY, TOWN OF	Project consists of improvements to the Town of Reedy's wastewater collection system and treatment plant.	ROANE	2014S-1507	632,000.00	0.00
Walton Sewer PSD	Construction and installation of 1 30,000 gpd package wastewater treatment plant and a new collection system to serve approx. 115 customers in the Walton area.	ROANE	2018S-1736	6,532,660.00	0.00
SPENCER SEWER BOARD	Spencer's collection system is in need of remediation due to infiltration and inflow issues. Improvements will be made to the wastewater treatment works and crucial equipment replacements throughout the system.	ROANE	20135-1438	1,200,000.00	0.00
BIG BEND PSD	The Big Bend PSD provides wastewater collection and disposal services to approximately 42 Summers County customers in two separate systems. The first system is located in the community of Hilldale, west of Talcott, and serves the Pine Hill Subdivision. The second system is located east of Talcott at Pence Springs. The plants have been poorly maintained and operated and the Environmental Enforcement section of the WVDEP has been seeking a consent order to force corrective action. This project will make some minor improvements at the Pine Hill facility and completely replace the Pence Springs plant.	SUMMERS	20195-1823	1,192,500.00	1,192,500.00
HINTON, CITY OF	The City of Hinton will be addressing issues stated in their Sewer Long-Term CSO Plan. This involves upgrades and replacement of sections of sewer lines in the city limits.	SUMMERS	2015S-1585	3,550,000.00	0.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
TAYLOR COUNTY COMMISSION	The Taylor County Commission is sponsoring a project to extend sewer service to a portion of Pruntytown, WV. Pruntytown has no dedicated sanitary sewer system. Residents rely on septic tanks for sewage collection and pumping trucks for removal. The nearest wastewater treatment plant is located in Grafton, WV. This project intends to extend sanitary sewer service to 25 new customers and tie-in to the Grafton's trunk line. Once the project is completed, all assets will be turned over to the Grafton.	TAYLOR	20195-1802	940,000.00	0.00
CANAAN VALLEY PSD	This project is an extension of sanitary sewer services that will provide sewer service to the customers in the area of Winwood Fly- In Resort, Deerfield Village and Canaan Village. This project is the next phase (Zone B and Zone E) of Canaan Valley PSD's comprehensive sewer plan.	TUCKER	2015S-1604	2,350,000.00	0.00
SISTERSVILLE, CITY OF	Wastewater System Improvements Project to replace four pump stations and replace major components of the existing WWTP.	TYLER	20205-1875	3,600,000.00	0.00
FORT GAY, TOWN OF	The proposed project will consist of mapping the collection system, rehabilitation of 85 existing manholes, replacement of approximately 2,500 LF of 8" gravity sewer, upgrades and rehabilitation at nine (9) existing pumping stations and two (2) existing grinder pump stations, and multiple upgrades and necessary rehabilitation at the wastewater treatment plant.	WAYNE	2017S-1723	3,500,000.00	100,000.00
NORTHERN WAYNE COUNTY PSD	Sewer upgrade for approximately 256 current customers in the Docks Creek drainage area as well as new line extensions for 90 to 95 unsewered homes in the Pine Hill Subdivision area.	WAYNE	2014S-1534	4,441,088.00	1,000,000.00
WEBSTER SPRINGS PSD	Construct a sanitary sewer collection and treatment system to serve approximately 61 customers in the community of Bergoo.	WEBSTER	2018S-1777	2,692,500.00	2,692,500.00

SPONSOR	PROJECT DESCRIPTION	COUNTY	IJDC #	PROJECT COST	COMMITTED FUNDS
WEBSTER SPRINGS PSD	The Webster Springs PSD Wastewater System Upgrade Project will address permit exceedances at the wastewater treatment plant as well as spills/overflows within the collection system due to excessive inflow and infiltration as well as lack of shelter at the plants sludge drying facility. Project will include relocation of main pump station and force main, pump station replacements and control upgrades, modifications to plant headworks, weir replacement and other incidentals.	WEBSTER	20195-1812	3,150,000.00	0.00
COWEN PSD	To construct sewer collection system to serve apx 161 new customers & Camp Caesar 4H Camp	WEBSTER	2014S-1515	4,400,000.00	4,400,000.00
PINE GROVE, TOWN OF	Phase III of the Town's Sanitary Sewer project will consist of the replacement of the remainder of the failing vacuum collection system with gravity sewer lines and upgrades at the Waste Water Treatment Plant.	WETZEL	2017S-1719	3,460,000.00	138,000.00
CLAYWOOD PARK PSD	New sanitary sewer collection system in Spring Valley area of Wirt County to be treated at the existing treatment plant owned by Claywood Park.	WIRT	2018S-1733	4,949,576.00	150,000.00
MINERAL WELLS PSD	Replacement of several individual grinder pump stations, increasing the capacity of three existing lift stations, additional headworks at the wastewater treatment plant and associated collection system improvements.	WOOD	20195-1817	5,420,000.00	5,420,000.00
PARKERSBURG UTILITY BOARD	Construction of approximately 5,000 l.f. of 6" and 8" sewer line and 31 manholes to serve 21 new customers in the Marrtown area.	WOOD	20195-1841	1,308,000.00	1,308,000.00
PARKERSBURG UTILITY BOARD	Project would extend sewer service to Marrtown Road and Starr Avenue in the Marrtown neighborhood.	WOOD	20195-1842	3,000,000.00	3,000,000.00

Total

193,886,770.00

553,100,347.87
Appendix E Infrastructure Funding Program Contacts in West Virginia

WV Bureau for Public Health (WVBPH)

Programs:	Drinking Water Treatment Revolving Fund (DWTRF)
Contact:	Stephanie Hickerson, P. E., Manager, Infrastructure & Capacity
	Development, 304-356-4292

WV Development Office (WVDO)

Programs:	Appalachian Regional Commission Grant (ARC)
Contact:	James Bush, Infrastructure Unit Manager, 304-558-2234
Programs:	Community Development Block Grant (CDBG)
Contact:	Sherry Risk, CDBG Program Manager, 304-957-2068

WV Department of Environmental Protection (WVDEP)

Programs:	Clean Water State Revolving Fund (CWSRF)
Contact:	Kathy Emery, P. E., Acting Director, DWWM, 304-414-3830
Programs:	Abandonded Mine Lands & Reclamation (AML)
Contact:	Roger Earle, P. E., Waterline Coordinator, 304-414-1183

WV Infrastructure and Jobs Development Council (WVIJDC)

Contact:	Wayne Morgan	ΡF	MRΔ	Executive	Director	304-414	1-6501
contact.	wayne worgan,	г. с.,	IVIDA,	LACCULIVE	Difector,	304-414	1-0201

WV Water Development Authority (WVWDA)

Contact: Marie Prezioso, Executive Director, 304-414-6500

U. S. Army Corps of Engineers (USACE)

Programs:	COE 571 and COE 340
Contact:	Lesli Stone Smith, Project Manager, 304-399-5964

U. S. Economic Development Administration (USEDA)

Contact: Tracey Rowan, EDA Regional Director, 304-533-4497

U. S. Department of Agriculture (USDA)

Contact: Janna Lowery, Community Programs Director, 304-284-4886

Appendix E

Infrastructure Funding Programs Closing Totals by Fiscal Year

Program	2018	2019	2020	First Half 2021
IJDC Loan	\$26,703,945	\$8,526,126	\$8,766,408	\$11,752,541
IJDC Grant	\$9,202,292	\$4,571,860	\$10,960,130	\$6,969,997
IJDC Preliminary Application Funding Assistance	\$11,500	\$311,850	\$126,739	\$123,350
IJDC Economic Development Loan	\$0	\$5,133,000	\$5,774,000	\$2,217,128
IJDC Economic Development Grant	\$5,938,150	\$0	\$13,662,500	\$2,000,000
WDA Loan ₁	\$0	\$130,000	\$9,964,076	\$1,310,000
WDA GAN ₁	\$564,578	\$1,448,532	\$500,000	\$23,350
WDA BAN ₁	\$0	\$480,000	\$0	\$0
CWSRF Loan	\$39,569,265	\$33,793,616	\$59,184,140	\$25,513,776
CWSRF Debt Forgiveness	\$3,343,650	\$5,441,169	\$12,624,446	\$1,000,000
DWTRF Loan	\$14,381,449	\$1,338,252	\$1,433,100	\$4,992,050
DWTRF Debt Forgiveness	\$2,997,000	\$0	\$1,155,000	\$1,996,000
DWTRF Design Assistance	\$300,000	\$696,189	\$931,950	\$751,950
Abandoned Mines Lands and Reclamation (AML) Waterline Program	\$6,061,000	\$3,837,000	\$2,245,000	-
Abandoned Mines Lands and Reclamation (AML) Pilot Program ₂	\$1,441,000	\$764,000	\$301,000	-
Appalachian Regional Commission (ARC) ₃	\$3,595,000	\$11,189,956	\$1,850,000	-
Community Development Block Grant (CBDG) _{3,4}	\$11,032,308	\$10,674,044	\$10,458,426	-
USACE Section 340 (Reimbursable Program)	\$2,000,000	\$1,100,000	\$1,100,000	
USACE Section 531 (Reimbursable Program)	\$2,000,000	\$1,100,000	\$1,100,000	
USDA Rural Utility Services (RUS) Loan	\$29,144,000	\$55,489,000	\$33,757,000	-
USDA Rural Utility Services (RUS) Grant	\$15,962,000	\$20,779,000	\$15,909,000	-
TOTAL	\$173,684,577	\$164,747,081	\$181,340,858	\$57,316,792

1) Interim financing and not included in total

2) The AML Pilot program can fund water and sewer projects and is not guaranteed to continue after this year. Remaining funds for the AML Pilot Program, which includes funding anticipated to be spent to finish the AML Pilot projects currently approved is \$28,532,000.

3) A portion of the allocations for both the ARC and CBDG programs will be used for non-infrastructure projects.

4) CBDG is currently in fiscal year 2020. Totals shown are 2017-2019 which are analogous to fiscal years 2018-2020.

		Wa	ter		Sewer				
County	Unserved	Served	% no	% yes	Unserved	Served	% no	% yes	
Barbour	2,972	7,240	29%	71%	7,559	2,653	74%	26%	
Berkeley	7,915	18,192	30%	70%	12,633	13,474	48%	52%	
Boone	1,509	10,789	12%	88%	9,664	2,634	79%	21%	
Braxton	10,992	5,394	67%	33%	14,290	2,096	87%	13%	
Brooke	9,065	10,912	45%	55%	7,774	12,203	39%	61%	
Cabell	1,371	19,892	6%	94%	5,729	15,534	27%	73%	
Calhoun	1,633	1,089	60%	40%	2,212	510	81%	19%	
Clay	4,849	4,919	50%	50%	9,284	484	95%	5%	
Doddridge	7,321	1,784	80%	20%	8,396	709	92%	8%	
Fayette	4,850	18,714	21%	79%	11,178	12,386	47%	53%	
Gilmer	2,510	1,692	60%	40%	3,550	652	84%	16%	
Grant	3,712	4,169	47%	53%	6,008	1,873	76%	24%	
Greenbrier	12,290	9,750	56%	44%	11,264	10,776	51%	49%	
Hampshire	12,397	3,222	79%	21%	12,883	2,736	82%	18%	
Hancock	4,766	10,471	31%	69%	2,998	12,239	20%	80%	
Hardy	2,627	2,231	54%	46%	3,855	1,003	79%	21%	
Harrison	6,441	31,445	17%	83%	15,159	22,727	40%	60%	
Jackson	9,369	6,506	59%	41%	9,954	5,921	63%	37%	
Jefferson	19,330	6,149	76%	24%	15,148	10,331	59%	41%	
Kanawha	15,156	83,909	15%	85%	19,052	80,013	19%	81%	
Lewis	8,166	12,322	40%	60%	14,314	6,174	70%	30%	
Lincoln	5,035	6,619	43%	57%	10,178	1,476	87%	13%	
Logan	3,153	21,827	13%	87%	20,026	4,954	80%	20%	
Marion	6,232	31,521	17%	83%	14,749	23,004	39%	61%	
Marshall	4,567	3,991	53%	47%	4,194	4,364	49%	51%	
Mason	2,542	4,927	34%	66%	5,146	2,323	69%	31%	
McDowell	7,017	13,764	34%	66%	16,880	3,901	81%	19%	
Mercer	7,154	26,689	21%	79%	15,052	18,791	44%	56%	
Mineral	4,420	2,747	62%	38%	2,894	4,273	40%	60%	
Mingo	3,777	15,453	20%	80%	13,082	6,148	68%	32%	
Monongalia	5,141	46,265	10%	90%	14,900	36,506	29%	71%	
Monroe	1,848	1,847	50%	50%	2,764	931	75%	25%	
Morgan	13,896	2,600	84%	16%	13,543	2,953	82%	18%	
Nicholas	4,334	12,721	25%	75%	12,449	4,606	73%	27%	
Ohio	4,591	14,586	24%	76%	5,331	13,846	28%	72%	
Pendleton	4,016	1,920	68%	32%	5,486	450	92%	8%	
Pleasants	3,519	2,851	55%	45%	4,754	1,616	75%	25%	
Pocahontas	6,668	1,653	80%	20%	6,915	1,406	83%	17%	
Preston	3,778	4,853	44%	56%	6,332	2,299	73%	27%	
Putnam	3,933	12,504	24%	76%	6,541	9,896	40%	60%	
Raleigh	8,587	13,830	38%	62%	9,711	12,706	43%	57%	
Randolph	11,432	5,497	68%	32%	10,230	6,699	60%	40%	
Ritchie	8,595	3,827	69%	31%	9,609	2,813	77%	23%	
Roane	9,771	6,820	59%	41%	14,560	2,031	88%	12%	
Summers	10,788	5,946	64%	36%	14,635	2,099	87%	13%	
laylor	947	3,176	23%	77%	2,748	1,375	67%	33%	
Fucker	5,991	2,495	71%	29%	5,881	2,605	69%	31%	
Tyler	2,467	3,508	41%	59%	3,401	2,574	57%	43%	
Upshur	3,455	10,373	25%	75%	9,095	4,/33	66%	34%	
Wayne	10,411	20,892	33%	6/%	21,823	9,480	/0%	30%	
vvebster	1,888	2,5/8	42%	58%	2,6/9	1,/8/	60%	40%	
vvetzel	5,439	4,115	5/%	43%	4,720	4,834	49%	51%	
vvirt	3,492	3,086	53%	4/%	5,305	1,2/3	81%	19%	
boow Wyoming	23,469	19,243	55%	45%	8,818 14 007	33,894 1 000 1	21%	79%	
vvyorning	7,312	12,403	31%	63%	14,997	4,778	/6%	24%	

Appendix F Served/Unserved Structures (by County)

		Wa	iter			Sev	wer	J
Congressional District	Unserved	Served	% no	% yes	Unserved	Served	% no	% yes
1	115,943	210,891	35%	65%	139,775	187,059	43%	57%
2	142,429	186,733	43%	57%	178,385	150,777	54%	46%
3	100,534	220,354	31%	69%	204,172	116,716	64%	36%

Appendix F Served/Unserved Structures (by Regional Planning and Development Council)

		Water	•			Sewe	er	
Region	Unserved	Served	% no	% yes	Unserved	Served	% no	% yes
1	42,706	74,539	36%	64%	74,039	43,206	63%	37%
2	26,289	89,610	23%	77%	75,984	39,915	66%	34%
3	25,447	112,121	18%	82%	44,541	93,027	32%	68%
4	30,030	45,416	40%	60%	44,485	30,961	59%	41%
5	62,315	46,930	57%	43%	58,613	50,632	54%	46%
6	29,860	119,044	20%	80%	62,284	86,620	42%	58%
7	45,518	45,013	50%	50%	64,919	25,612	72%	28%
8	27,172	14,289	66%	34%	31,126	10,335	75%	25%
9	41,141	26,941	60%	40%	41,324	26,758	61%	39%
10	14,597	22,692	39%	61%	14,245	23,044	38%	62%
11	13,831	21,383	39%	61%	10,772	24,442	31%	69%

Appendix F
Served/Unserved Structures (by Senatorial Districts)

		Wa	ter			Sev	wer	
Senate District	Unserved	Served	% no	% yes	Unserved	Served	% no	% yes
1	19,099	36,713	34%	66%	16,980	38,832	30%	70%
2	36,053	32,423	53%	47%	45,327	23,149	66%	34%
3	34,643	27,952	55%	45%	25,592	37,003	41%	59%
4	20,364	22,760	47%	53%	25,946	17,178	60%	40%
5	3,963	26,898	13%	87%	8,603	22,258	28%	72%
6	20,239	56,907	26%	74%	48,806	28,340	63%	37%
7	14,766	50,418	23%	77%	53,118	12,066	81%	19%
8	5,163	48,863	10%	90%	12,616	41,410	23%	77%
9	16,337	27,989	37%	63%	26,584	17,742	60%	40%
10	29,777	36,253	45%	55%	39,842	26,188	60%	40%
11	34,185	37,679	48%	52%	50,719	21,145	71%	29%
12	30,852	54,858	36%	64%	53,715	31,995	63%	37%
13	5,153	58,777	8%	92%	14,552	49,378	23%	77%
14	20,950	27,030	44%	56%	33,307	14,673	69%	31%
15	35,051	15,351	70%	30%	39,008	11,394	77%	23%
16	21,200	16,823	56%	44%	17,598	20,425	46%	54%
17	11,073	40,276	22%	78%	9,973	41,376	19%	81%

Appendix F	
Served/Unserved Structures (by House Districts)	

	Water				Sewer			
Delegate District	Unserved	Served	% no	% yes	Unserved	Served	% no	% yes
1	6,733	15,170	31%	69%	4,024	17,879	18%	82%
2	7,300	6,514	53%	47%	7,251	6,563	52%	48%
3	3,295	13,741	19%	81%	3,748	13,288	22%	78%
4	5,661	4,535	56%	44%	5,274	4,922	52%	48%
5	5,736	4,447	56%	44%	5,349	4,834	53%	47%
6	10,242	5,289	66%	34%	12,250	3,281	79%	21%
7	11,647	6,677	64%	36%	13,895	4,429	76%	24%
8	4,221	5,204	45%	55%	3,563	5,862	38%	62%
9	4,681	8,223	36%	64%	8,417	4,487	65%	35%
10	18,060	8,902	67%	33%	2,144	24,818	8%	92%
11	10,740	7,887	58%	42%	16,444	2,183	88%	12%
12	6,900	2,944	70%	30%	6,217	3,627	63%	37%
13	3,101	9,923	24%	76%	7,883	5,141	61%	39%
14	2,277	2,676	46%	54%	3,391	1,562	68%	32%
15	623	3,663	15%	85%	350	3,936	8%	92%
16	1,436	11,041	12%	88%	3,384	9,093	27%	73%
17	326	9,217	3%	97%	1,965	7,578	21%	79%
18	2/6	3,759	/%	93%	1,908	2,127	47%	53%
19	10,307	18,200	36%	64%	21,497	7,010	75%	25%
20	1,366	10,215	12%	88%	8,164	3,417	/0%	30%
21	8,641	8,078	52%	48%	13,921	2,798	83%	1/%
22	/,380	9,804	43%	5/%	13,807	3,3//	80%	20%
23	2 612	7,938	10%	90%	6,201	2,625	70%	30%
24	2,015	21,129	11%	89% 67%	19,558	4,184	82%	18%
25	2,090	12 /02	25% 2/1%	76%	12,709	2,720	02% 72%	10%
20	5,969	25 306	10%	70% 81%	11,962	4,499	/ 5%	Z / 70 50%
27	13 205	23,300	57%	/10	17,923	10,341 E 972	41/0	25%
20	1 604	4 028	28%	43%	2 1/,330	2 100	73% 61%	23%
30	3 518	1 639	68%	32%	187	4 975	1%	96%
30	925	5 958	13%	87%	4 036	2 8/17	59%	41%
32	6 208	22 009	22%	78%	13 992	14 225	50%	50%
32	7 393	6 495	52%	47%	12 738	1 150	92%	8%
34	11 684	6 200	65%	35%	15 292	2 592	86%	14%
35	7,159	26,790	21%	79%	2.458	31,491	7%	93%
36	3.853	23.376	14%	86%	6.329	20.900	23%	77%
37	224	11.181	2%	98%	10	11.395	0%	100%
38	408	8,265	5%	95%	1,301	7,372	15%	85%
39	1,480	8,553	15%	85%	4,312	5,721	43%	57%
40	2,135	7,839	21%	79%	5,305	4,669	53%	47%
41	3,196	9,036	26%	74%	9,876	2,356	81%	19%
42	14,049	9,717	59%	41%	13,004	10,762	55%	45%
43	17,803	7,060	72%	28%	16,758	8,105	67%	33%
44	4,080	7,221	36%	64%	7,080	4,221	63%	37%
45	2,372	8,064	23%	77%	6,342	4,094	61%	39%
46	8,481	13,386	39%	61%	15,053	<u>6,</u> 814	69%	31%
47	5,300	7,500	41%	59%	9,169	3,631	72%	28%
48	6,485	31,717	17%	83%	15,345	22,857	40%	60%
49	1,601	3,889	29%	71%	4,244	1,246	77%	23%
50	5,968	31,022	16%	84%	13,986	23,004	38%	62%
51	4,414	45,448	9%	91%	13,356	36,506	27%	73%
52	1,473	3,065	32%	68%	3,280	1,258	72%	28%
53	5,967	4,025	60%	40%	7,324	2,668	73%	27%
54	5,894	5,254	53%	47%	8,962	2,186	80%	20%
55	5,246	3,683	59%	41%	7,476	1,453	84%	16%
56	3,152	1,664	65%	35%	1,505	3,311	31%	69%
57	/,442	3,387	69%	31%	7,673	3,156	71%	29%
58	13,275	2,800	83%	17%	13,043	3,032	81%	19%
59	7,434	2,097	/8%	22%	8,1/4	1,357	86%	14%
60	2,251	2,300	49%	51%	3,28/	1,264	/2%	28%
61	412	4,414	9%	91%	41/	4,409	9%	91%
62	1,/2/	3,319	34%	56%	3,964	1,082	/9%	21%
63	1,084	2,996	2/%	73%	1,251	2,829	31%	69%
64	7 5 40	3,10/	25%	15%	1,543	2,083	3/%	03%
05	7,548	1,570	83% 01%	1/%	2,519	0,599 1 207	28%	12%
66	/,100	2 267	51% 51%	9% //C0/	0,581 6.046	2,29/	84% 71%	20%
07	4,014	5,007	54%	40%	0,040	2,435	/1%	29%













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