

**West Virginia
Clean Water State Revolving Fund**



FY2018 Intended Use Plan

Submitted to the
U.S. Environmental Protection Agency
Region III
June 15, 2017



west virginia department of environmental protection

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Glossary

The following abbreviations are used throughout this document to denote the listed words, terms and phrases:

AgWQLP – West Virginia Agricultural Water Quality Loan Program

ARC – Appalachian Regional Commission

BAN – Bond Anticipation Note

CA – West Virginia Conservation Agency

CWA – Federal Clean Water Act

CWSRF – Clean Water State Revolving Fund

DEP – West Virginia Department of Environmental Protection

DWWM – Division of Water and Waste Management

DEP EBPP – Extended Bond Purchase Program

EPA – United States Environmental Protection Agency

IJDC – West Virginia Infrastructure and Jobs Development Council

IUP – Intended Use Plan

MHI – Median Household Income

NRCS – Natural Resources Conservation Service

NPS – Nonpoint Source

OA – Operating Agreement

OSLP – Onsite Systems Loan Program

POTW – Publicly Owned Treatment Works

PSC – Public Service Commission of West Virginia

USDA – United States Department of Agriculture

SCD – Soil Conservation District

WDA – West Virginia Water Development Authority

WRRDA – 2014 Water Resources Reform and Development Act

Preface

Mission Statements

Department of Environmental Protection

To promote a healthy environment.

Division of Water and Waste Management

To protect, preserve and enhance West Virginia's land
and watersheds for the safety
and benefit of all.

Clean Water State Revolving Fund

To provide technical and financial assistance to local
governmental entities to improve water quality and
public health conditions.

SECTION I

Introduction

This document is the Clean Water State Revolving Fund's Intended Use Plan for state fiscal year 2018 (July 1, 2017 – June 30, 2018 (FY2018)). The Division of Water and Waste Management is the primary state agency that administers the Clean Water State Revolving Fund, with financial and support assistance provided by the West Virginia Water Development Authority.

As of July 1, 2017, there have been 28 federal capitalization grants and amendments awarded by the Environmental Protection Agency. The State has provided, where necessary, the required 20% matching funds for each grant and amendment.

Repayments of prior loans, bonds and investment earnings are also available within the Clean Water State Revolving Fund to fund additional wastewater and nonpoint source projects. A calculation of available funds during this fiscal year is contained in Section II.

SECTION II

Funds Identification

The chart on the next page identifies the revenue sources that will be used for loans and other anticipated expenditure categories.

A similar chart can be found in Appendix F, which is used by EPA for its purpose only. This chart summarizes the federal capitalization grants, state matches, repayments, earnings, etc., since the program began. It also estimates the fiscal year revenue sources to calculate a theoretical amount of funds available.

WEST VIRGINIA CLEAN WATER STATE REVOLVING FUND
Intended Use Plan – Sources and Uses of Funds
State FY2018 (July 1, 2017 – June 30, 2018)

Available funds as of December 31, 2016

Cash balance in CWSRF account =	\$ 97,229,915	
Federal funds accounts payable (Base grants) =	\$ <u>0</u>	
		<u>\$ 97,229,915</u>

New funds available during state FY2018:

Next Federal EPA Grant	\$ 20,668,000	
Next State Match	\$ 4,133,600	
Est. Repayments (principal) (to 6/30/18) =	\$ 35,664,041	
Est. Repayments (interest) (to 6/30/18) =	\$ 2,901,972	
Est. Investment earnings (to 6/30/18) =	\$ <u>453,432</u>	
		<u>\$ 63,821,045</u>

Less:

Existing project loans payables (12/31/16) =	\$ 92,019,427	
Existing binding commitments (12/31/16) =	\$ 23,780,311	
AgWQLP reserve =	\$ 150,000	
OSLP reserve =	\$ 300,000	
DEP Administration =	\$ <u>0</u>	
		<u>\$ 116,249,738</u>

Net available funds during FY2018 = **\$ 44,801,222**

Notes:

A request for the state match was sent to the IJDC in June 2017. It is anticipated that the match will be received within July/August 2017.

SECTION III

Goals

A. Long term goals

1. Expand the CWSRF accessibility by creating new financial assistance programs to address NPS pollution control problems.
2. Ensure the CWSRF program operates in perpetuity at its maximum level to provide financial assistance to entities approved by law.

Objective 1 – Conduct financial capability reviews on all potential loan recipients to assure credit worthiness and fiscal responsibility.

Objective 2 – Maximize investment opportunities.

Objective 3 – Monitor repayment activity of loan recipients and take action for collection of delinquent payments from loan recipients.

Objective 4 – Utilize EPA’s financial planning model to ascertain the long term effects of different CWSRF policies.

3. Integrate the CWSRF program into DEP’s Watershed Management Framework to increase program effectiveness by targeting the CWSRF funds toward higher priority watersheds.
4. Market the CWSRF program throughout the State to increase commitment/utilization of funds and maintain program pace by providing articles, press releases, and presentations on CWSRF program activities and participating in meetings of Federal and State associations concerned with water quality, health, and economic development issues.
5. Participate in the monthly meetings of the IJDC. Participation will include performing technical reviews on all proposed wastewater projects and coordinating and recommending the most feasible funding sources for all projects.
6. Incorporate EPA’s strategic plan program activity measures into the CWSRF program by working to achieve a targeted fund utilization rate of 100% (cumulative dollar amount of loan agreements divided by cumulative amount available for projects).
7. Develop effective wastewater management in rural, low income West Virginia communities. This includes investigating new funding opportunities and participating with local community leaders and civic groups to develop wastewater management ideas and programs.

B. Short term goals

1. Continue outreach efforts for potential new loan recipients.
2. Maintain a targeted fund utilization rate “pace” goal of at least 95%. Program pace is defined by EPA as the cumulative loan assistance provided divided by the total amount of funds available. Loan assistance is defined as the cumulative assistance provided by executed loan, bond, and funding assistance agreements (does not include preliminary binding commitment letters).
3. Provide outreach and requested technical assistance to several communities in the Tygart River Watershed as they consider biological nutrient removal processes in their systems.
4. Continue to work with the communities required to upgrade their wastewater systems in the State’s Watershed Improvement Plan for the Chesapeake Bay and the Greenbrier River TMDL.
5. Keep the CWSRF flexible to be able to quickly respond to potential project shifts due to the State’s economic crisis and rapid regional population adjustments.

SECTION IV

Project Priority List

The Project Priority List is contained in Appendix A. The list includes potential CWSRF binding commitments for Section 212 projects (publicly owned treatment works). Projects must appear on the priority list in order to receive consideration for a loan/bond purchase agreement or a formal loan commitment. The list was developed using fact sheets received from each applicant, consulting engineer or other representative, and should reflect current costs. If additional projects are developed during the fiscal year that do not appear on the list but would like to receive a commitment, they may be added to the list after adequate public notification procedures have been completed. This procedure generally takes 60 days.

The CWSRF will continue to commit funds to projects in order of their position on the priority list on a first-come, first-served basis, as long as all applicable program requirements have been met and the project is within six months of construction. At a minimum, the facilities plan and plans and specifications must be approved. Consideration will be given to the status of rights-of-way obtainment and other items on the pre-bid checklist during this process. As projects are deemed eligible for a binding commitment, they will be funded in order of priority. Furthermore, a project will not receive a commitment from the CWSRF unless it has received a funding recommendation from the IJDC in accordance with WV State Code, Chapter 31, Article 15A. This binding commitment from the CWSRF will remain in effect until the expiration date contained in the commitment and is subject to an extension.

Individual NPS pollution control activities and projects funded by the CWSRF do not have to appear on the annual priority list. However, the funding of these projects is

described in Section V(I) and an amount has been reserved to fund these projects. These NPS projects are allowable for funding using state revolving funds in accordance with federal law and are defined under Section 319 of the CWA. Any type of NPS activities funded must be included in the DEP's approved NPS management plan. Appendix C contains a quarterly outlay estimate for all NPS activities expected to be funded this fiscal year.

SECTION V

Fund Activities

A. Interest rates on POTW loans

The eligibility criterion for low interest loan consideration will be based upon 3,400 gallons of monthly water usage. The DEP will be using this criterion to determine its interest rate on loans. The maximum allowable term of the loans will be determined using the following range of user rates and MHI data:

Less than 1.5% MHI: 2.5% interest rate, .5% annual admin fee, 20 year term

1.5% to 1.74% MHI: 1.5% interest rate, .5% annual admin fee, 21 - 30 year term

1.75% to 2.0% MHI: .5% interest rate, .5% annual admin fee, 21 - 30 year term

Greater than 2% MHI: 0% interest rate, .5% annual admin fee, 31 - 40 year term

The MHI data is derived from the 2015 census data published by the U. S. Department of Commerce, U.S. Census Bureau, American Fact Finder. Interest rates will not exceed 2.5% and will not be less than 0%. For all public service districts, the MHI to be used will be the lowest of either the county(s) or magisterial district(s) that is most appropriate for the project area. Magisterial District and County information can be found in Appendix E. Municipal MHI data is contained in Appendix E1.

Should Congress amend the CWA or pass reform legislation that affects small disadvantaged communities, the DEP may revise this interest rate policy to consider other factors as required by federal law.

B. Additional subsidization for disadvantaged communities

This year's Clean Water Act Title VI funding allocation for West Virginia is \$20,668,000. The Appropriations Act requires that a portion of each capitalization grant be used for additional loan subsidization and for funding green infrastructure projects. The Act requires a minimum of 10% be set aside for funding green projects. This amount will equal \$2,066,800. The allowable green project categories that will be considered for this funding are described below.

The Act also requires a minimum amount be set aside for providing additional loan subsidization in the form of grants or principal forgiveness with an additional amount allowed by WRRDA, as defined below. Therefore, DEP will be setting aside 20% of

the capitalization grant in the amount of \$4,133,600 to be used as principal forgiveness.

Principal forgiveness of all or part of a loan will be the mechanism that will be used to supply the additional subsidization. Additional loan subsidization is a last resort for disadvantaged communities and will only be provided when other funding options within the CWSRF program are not practical to make the project financially affordable (i.e. 40-year loan terms, deferred principal repayments, reduced debt service coverage, etc.).

The 2014 Water Resources Reform and Development Act (WRRDA) amended sections of the Federal Water Pollution Control Act (FWPCA). Amendments to 603(i)(2) required States to develop affordability criteria that would assist in identifying applicants that would have difficulty financing projects without additional subsidization. The criteria, based upon a points system that will be used to identify these applicants as per WRRDA, are as follows:

Income based upon %MHI – Based upon the 2015 Census data for 3,400 gallons of water usage.

<u>MHI</u>	<u>Points</u>
1.75% - 1.99%	50
2.0% or greater	75

Unemployment Data – As published in May 2016 by WorkForce West Virginia, the State’s average unemployment rate was 6.7% in 2015. See Appendix H.

<u>Locality’s Unemployment Rate (UR)</u>	<u>Points</u>
UR < West Virginia’s UR	0
UR 0% - 2% above West Virginia’s UR	5
UR > 2% above West Virginia’s UR	10

Population Trends – Based upon the percentage change for the period from 2013 to 2015 (calendar years) by county as published by American Fact Finder. See Appendix I.

<u>Change in Population</u>	<u>Points</u>
Greater than +2%	0
0 to +2%	5
Less than 0%	10

For applicants that receive at least 60 points, the project is eligible for the lesser of 50% of the total eligible CWSRF project costs or \$1,000,000 in principal forgiveness.

For applicants that receive at least 90 points, the project is eligible for the lesser of 100% of the total eligible CWSRF project costs or \$1,500,000 in principal forgiveness.

Readiness to proceed to construction is the primary criterion that will be used in allocating the additional subsidies. The final amount of the subsidy will be determined after receipt of bids and after a formal application is submitted. Note: As existing debt is retired, the

dedicated revenue stream will rollover to pay the amount of any deferred loan.

Loan recipients eligible for additional subsidization must appear on the current priority list prior to loan closing.

C. Green Projects Reserve

In accordance with federal law and to the extent there are sufficient eligible project applications, not less than 10% of the funds in the capitalization grant shall be used to address green infrastructure projects.

Allowable green project categories will be as follows:

1. Energy Efficiency

A community may utilize improved technologies and practices to reduce the energy consumption of existing wastewater treatment systems, use energy in a more efficient way, and/or produce/utilize renewable energy. Only the dollar amount associated with the green component of a larger project will qualify for the green reserve. Proposed green projects in this category may be eligible to receive additional loan subsidization, in the form of principal forgiveness, to the lesser of 50% of the total eligible green CWSRF costs or \$500,000.

Projects that will not be allowable include but are not limited to:

- a. Infiltration and inflow pipe repair or replacement.
- b. Purchase of hybrid/alternative fuel vehicles for sewer fleets.
- c. Operation, maintenance and replacement activities.
- d. Drinking water related projects.

2. Water Efficiency

Water efficiency type projects that are not eligible for additional loan subsidization or green technology funding, except for WWTP water efficient appliance/plumbing projects and water reuse projects. Proposed green projects in the water reuse category may be eligible to receive additional loan subsidization, in the form of principal forgiveness, to the lesser of 50% of the total eligible green CWSRF costs or \$500,000.

3. Storm Water / Green Infrastructure

Allowable green projects to be funded under this category are:

- a. Publicly sponsored projects that utilize green technologies to treat or eliminate storm water from existing wastewater collection and treatment systems.
- b. MS4 sponsored projects that utilize green technologies to solve storm water issues.

Proposed green projects in this category may be eligible to receive additional loan subsidization, in the form of principal forgiveness, to the lesser of 50% of the total eligible green CWSRF costs or \$500,000.

4. Environmentally Innovative

Allowable green projects to be funded in this category are:

Decentralized sewer systems

- a. Publicly Owned Systems
- b. Privately Owned Onsite Systems

This category is used for constructing, upgrading, or repairing onsite/septic systems to existing eligible structures to protect water quality. The project must be sponsored by a local entity eligible to receive SRF funding.

Proposed green projects in this category may be eligible to receive loan subsidization, in the form of principal forgiveness, of 100% of the total eligible green CWSRF costs. During FY 2018, the CWSRF program will be offering a program to cover the pre-bid costs for categorically green decentralized sewer system projects only. This is based upon availability of principal forgiveness funds. The program may fund the pre-bid costs for these systems from the available green principal forgiveness funds. In order to qualify for these funds, the project sponsor must assure the CWSRF program that the project will proceed to advertising for bids within 12 – 18 months of receiving the funds. The sponsor will have to provide, at a minimum, the following documentation:

1. A recommendation to pursue CWSRF funds from the WVIJDC;
2. An engineering agreement approved by the CWSRF program;
3. A facilities plan approved by the CWSRF program;
4. Documentation of a pre-design meeting with representatives of the CWSRF program;
5. A project timeline with an approvable project budget;
6. Documentation from the project sponsor that the customer base is willing to pay the proposed sewer rate; and
7. PSC approval, if required by law.

Based upon the above guidelines and criteria, a list of potential green projects is included in Appendix G of this document. These projects were submitted in response to a DEP solicitation for green projects that occurred in November and December 2016 simultaneously with the project priority list solicitation. The CWSRF program will further evaluate these projects to determine funding eligibility.

D. Annual administrative fees on POTW loans

Since 1994, an annual administrative fee has been charged on all loans as a means of supporting the administrative costs of operating the CWSRF in perpetuity. These fees are maintained in a separate account outside the CWSRF. The use of these fees is restricted in accordance with *EPA's Guidance on Fees Charged by States to*

Recipients of Clean Water State Revolving Program Assistance as published in the Federal Register on October 20, 2006. Funds have been expended from the account since FY1998.

The annual administrative fee is initially calculated using the outstanding principle amount of the loan over its life, but repaid over the term of loan in equal installments as contained in the loan amortization schedule. The chart in Section V (A) will be used to determine the annual administrative fee on each loan. The administrative budget is approximately \$2.2 million. This includes funding the DEP's Project WET position. The amount of the funds available as of December 31, 2016 was \$9,165,529. These funds can also be used to fund the onsite systems program and are being used to match an ARC grant to provide sewer system mapping to several communities in the southern part of the State. The CWSRF is also funding a position with the WV Rural Water Association that provides technical and project support to local communities. This position also provides asset management support and educates local utilities on energy and water efficiency technologies.

E. Maximum allowable loans

In FY2018, there will not be a limit set on the amount of funds available to any single project. This practice will be reviewed annually and may change in future intended use plans.

F. BAN leveraging program

DEP is continuing the following option for multimillion dollar projects that cannot reduce their scope to reflect a reasonable cost. A specific dollar amount will be issued by the entity using a BAN for the length of the construction period. The CWSRF will commit out of its repayment stream a certain amount each fiscal year until the total commitment is equal to the BAN. The loan will then be closed following construction completion, retiring the BAN. This proposed closing date will also be reflected in the BAN documents. Repayment of the CWSRF loan will begin immediately using the first full calendar quarter following loan closing.

G. Extended Bond Purchase Program

1. 30-year bonds

The EPA approval of the 30-year extended bond purchase program on April 13, 1999, allowed many disadvantaged communities in West Virginia to be funded under the CWSRF, resulting in additional water quality improvement projects and providing rate relief to local governmental entities. The more advantageous bond terms have increased the number of sewer construction projects in the State and have allowed better leveraging of other State and Federal funds available for wastewater projects.

Section 603(d)(2) of the CWA allows local bonds to be purchased by the State at below market interest rates without limiting the term to 20 years as contained in Section 603(d)(1). West Virginia law governing municipalities and public service districts provides that governing bodies must issue bonds to pay the costs of wastewater projects and sets forth detailed terms regarding interest rates, maturity dates and security

provisions and with certain exceptions provides that the term of such bonds shall not exceed 40 years from the date of issuance.

Under the EBPP, the CWSRF will be purchasing local bonds with up to 30-year terms only for disadvantaged communities defined in Section V (A). Extended terms up to 30 years will be available to eligible communities meeting the above definition after a request is received from the community and an affordability analysis has been performed to determine what maturity date is necessary (not exceeding 30 years) in achieving, if possible, the targeted rate equal to 1.50% MHI.

Loans closed before July 2, 1999, cannot be refinanced or restructured using extended bond terms unless:

- a. DEP determines that such restructuring is necessary to protect the integrity of the CWSRF;
- b. the financial difficulty is due to unforeseen events (except population decline);
- c. the community has taken all reasonable steps to reduce expenses and increase revenues and such measures have not remedied the financial difficulty;
- d. the community has not discriminated in its payment of debt service on other outstanding debt;
- e. the community agrees to and implements a long term management plan; and
- f. the PSC has approved the proposed restructuring (if applicable).

2. 40-year bonds

In May 2001, EPA approved an extension to the 30-year extended bond purchase program by allowing bond terms to exceed 30 years, but no longer than 40 years. As with the 30-year bond program, offering up to 40-year terms requires that the long term revolving nature of the CWSRF must be protected. The offering of extended financing terms must not decrease the projected revolving level of the fund by 10% or more compared to the revolving level that the fund would have attained if extended financing terms were not available.

In implementing this 40-year program and in consideration of the federal mandates, the DEP established the following parameters that must be met by a disadvantaged community in order to be eligible for extended bond terms greater than 30 and less than or equal to 40 years. The intent is to balance the financial need of the community with the long term financial health of the CWSRF.

Facilities plans will include detailed information concerning expected increases in operation and maintenance costs from years 20 to 40 including, but not limited to schedules for the repair and replacement of all facilities units / components, including equipment.

Where there has been a historical decline in population, additional information in the facilities plan will be required concerning the composition of the population base, such as age and income characteristics. Other economic indicators, such as trends in tax base, number of jobs and housing starts, may be requested to determine those communities that pose a high risk to the CWSRF program.

For revenue projection and rate-setting purposes, the CWSRF will require that only 90% of any new potential customers be used in the facilities plan. This requirement will apply during the entire preconstruction phase of the project, including the PSC certificate case. A copy of the Rule 42 exhibit (or equivalent if a PSC certificate is not required) shall be submitted to the DEP to document compliance with this requirement. This requirement will not apply to existing customers already served by a collection system.

At the completion of final design and prior to the project authorization to advertise for bids, the above information will be utilized for the purposes of conducting a final financial review.

H. Requirements for CWSRF Commitment

Formal Commitments – once it has been determined that a project can realistically proceed to construction within six months, a formal commitment of CWSRF funding will be made that may include such terms and conditions as deemed necessary. The CWSRF will continue to commit funds to projects in order of their position on the priority list on a first-come, first-served basis, as long as all applicable program requirements have been met. At a minimum, the facilities plan and plans and specifications must be approved. Consideration will be given to the status of rights-of-way obtainment and other items on the pre-bid checklist during this process. As projects are deemed eligible for a binding commitment, they will be funded in order of priority. Prior to loan closing, the project must appear on the current year's priority list.

I. Expanded uses of the CWSRF – Nonpoint Sources (NPS)

In addition to financing municipal sewage treatment and disposal projects, the CWSRF can finance an array of environmental projects to address NPS pollution.

NPS pollution is runoff from areas that have hard-to-trace specific sources of pollution such as farmland and suburban neighborhoods.

As with most other states, West Virginia has devoted the majority of CWSRF funds to the construction of traditional municipal wastewater treatment systems. However, in 1997 the CWSRF funded its first NPS water quality projects through the DEP's Agricultural Water Quality Loan Program in partnership with the West Virginia Conservation Agency. The purpose of the AgWQL program is to provide a source of low-interest financing match funds to implement best management agricultural practices that will reduce NPS impacts on water quality. This program is operated in conjunction with local participating banks.

In 2000, the CWSRF began a pilot implementation of its second NPS program titled the Onsite Systems Loan Program. The purpose of this program was to eliminate existing health hazards and water quality problems due to direct sewage discharges from houses using malfunctioning septic tank systems or direct pipes to a nearby stream. This was a cooperative venture between the DEP and county health departments. After several years of frustration, this program was revived in

2008 and is now fully operational. The West Virginia Housing Development Fund and other nonprofit associations are participating in this program to make it accessible to existing individual homeowners throughout the state.

In creating the CWSRF, Congress ensured that it would be able to fund virtually any type of water quality project, including nonpoint source, wetlands, estuary, and other types of watershed projects, as well as more traditional municipal wastewater treatment systems. The CWSRF provisions in the CWA give no more preference to one category or type of project than any other.

1. Agriculture Water Quality Loan Program

With the initiation of the FY1998 pilot program in five counties (Grant, Mineral, Pendleton, Hardy, and Hampshire), DEP addressed nonpoint sources of pollution by the installation of best management practices. The pilot program was a cooperative effort among the DEP, West Virginia Conservation Agency, United States Department of Agriculture, Natural Resources Conservation Service, local Soil Conservation Districts and local banking institutions.

Agricultural producers at the local level work with the SCD, CA and NRCS to develop a conservation plan. A local participating bank then provides a 2% interest loan with terms not to exceed 10 years for construction that will be monitored by these agencies. The CWSRF loans money to local banks at 0% interest as a mechanism for the banks to reduce their interest rate. The DEP expanded this program statewide after securing EPA approval to do so. As of June 30, 2015, more than \$13 million had been loaned under this program for installation of best management practices. Each fiscal year, an additional amount of money is set aside to fund more of these NPS projects. A one-time administrative fee is charged on each loan to cover DEP administrative expenses.

The CWSRF will continue this program with a set-aside reserve of \$150,000 to provide the necessary match to these agriculture grants.

2. Onsite Systems Loan Program

An OSLP guidance document is available which explains the NPS program. Individual loans are limited to \$10,000 and lender interest rates cannot exceed 2% with terms not to exceed 10 years for the replacement, repair or upgrade of onsite sewage systems. Exceptions to the \$10,000 limit are made on a case-by-case basis.

During the 2007 legislative session, the CWSRF statute was amended to expand the definition of “local entity”, which allows CWSRF money to be loaned to other entities who will act as an intermediary lender in the OSLP. The West Virginia Housing Development Fund was the first entity to enter into an agreement with the CWSRF to provide low interest loans to homeowners to correct failing onsite sewage systems. SAFE Housing and Economic Development, Inc. (SHED) has also entered into an agreement with the CWSRF to provide these loans to homeowners. The CWSRF will provide \$300,000 as a set-aside for this program this fiscal year. Funds from the administrative fee

account may also be used to fund this program.

3. Other CWA Section 319 Nonpoint Source Activities

Nonpoint sources of water pollution, that may include contaminated groundwater flow and runoff from agricultural and developed land, have received far less attention. This is because nonpoint sources of pollution are harder to identify and address since they are not discrete end-of-pipe pollution sources.

In West Virginia, other nonpoint sources of pollution are identified in the State nonpoint source management plan developed by DEP. We will continue to evaluate the merits of providing funds to other NPS activities.

J. Federal requirements

To streamline the program and reduce project costs, all new binding commitments made to POTW projects in this fiscal year will not have to meet many federal requirements. As a recipient of federal CWSRF funds, the DEP has to apply these federal requirements to loans equal to the amounts of all the federal capitalization grants. Recipients of earmark grants from Congress will still have to meet these federal requirements for the entire project, including any CWSRF funds. This will likely continue in future fiscal years.

The following projects have been selected to comply with federal requirements including, but not limited to, the Single Audit Act, FFATA, etc. These projects total more than the FFY 2017 capitalization grant which is \$20,668,000.

Project Sponsor	Project Description	CWSRF Amount
Oak Hill, City of	WWTP Upgrade/Line Extension	\$14,000,000
Greater Harrison County PSD	WWTP/Line Extension	\$10,878,000
	TOTAL	\$24,878,000

SECTION VI

Assurances

DEP has provided the necessary assurances and certifications as part of the operating agreement with EPA. The Operating Agreement defines the mutual obligations between EPA and DEP. The purpose of the OA is to provide a framework of procedures to be followed in the management and administration of the CWSRF. The OA includes the requirements of the following sections of the federal Clean Water Act:

- 602(a) - Environmental Reviews – the DEP will conduct the reviews in accordance with State regulations.
- 602(b)(2) - Anticipated Cash Draw Ratio (Proportionality) – State match

funds are disbursed prior to using capitalization grant funds.

- 602(b)(3) - Binding Commitments – the DEP will enter into binding commitments for 120% of each quarterly grant payment within one year of receipt of the payment.
- 602(b)(4) - Expeditious and Timely Expenditures – the DEP will expend all funds in the CWSRF in a timely manner.
- 602(b)(5) - First Use for Enforceable Requirements – the DEP has certified that all national municipal policy projects have met this requirement.

These and other procedures are described in the OA and may be examined by contacting the DEP. The OA underwent revisions this past year and has been accepted by the WV DEP and the U.S. EPA.

SECTION VII

Criteria and Method for Distribution of Funds

The following approach was used to update the priority list, intended use plan and projection of the distribution of all funds contained in the CWSRF:

1. Analysis of community and financial assistance needed;
2. Review of project schedule to determine when the project would be in a state of readiness to proceed to construction;
3. Individual contact with potential loan recipient or its representative;
4. Allocation of funds among projects;
5. Development of an EPA payment schedule which will provide for making timely binding commitments to projects selected for CWSRF financial assistance;
6. Development of individual disbursement schedules to timely pay project costs as incurred;
7. Analysis of NPS activities and the extent to which reserved funds would be needed for such projects; and
8. Estimate of administrative expenditures that will occur during the fiscal year.

SECTION VIII

Public Participation

On June 2, 2017 at 1:30pm, a public hearing was held to receive comments on the CWSRF IUP for FY2018. The meeting was legally advertised in newspapers throughout the State. In addition, DEP issued a notice of the meeting by sending a mass mailing directly to consulting engineers, regional councils and other interested parties.

Appendix D contains the public hearing notice, attendance sign-in sheet and a summary of the meeting.

SECTION IX

Agreement

The DEP has agreed to provide EPA with information for the environmental results for all loans closed during this fiscal year. This documentation is being requested by EPA to better ascertain the environmental results of projects funded under the CWSRF program.

APPENDIX A

FISCAL YEAR 2018
Project PRIORITY LIST

2018 Priority List

Project	SRF #C	Ranking	PriorityPoints
Albright, Town of	C54459	72	50.00
Auburn, Town of	547201	8	145.00
Belle, Town of (Phase III)	544177	10	140.00
Benwood, City of (Phase I)	544531	12	135.00
Beverly, Town of	544336	79	45.00
Bluefield Sanitary Board	544462	80	45.00
Boone County PSD (West Madison)	544494	58	80.00
Brooke County PSD (Phase II-B Eldersville Rd)	544006	15	120.00
Buffalo Creek PSD	544555	94	20.00
Burnsville PSD	544578	42	100.00
Cairo, Town of	547101	66	65.00
Canaan Valley PSD	544560	87	40.00
Center PSD	544268	90	25.00
Central Boaz PSD	544059	67	60.00
Century Volga PSD	544556	5	160.00
Chapmanville, Town of	544483	64	70.00
Charleston, City of (Woodward Branch)	544557	59	75.00
Clarksburg Sanitary Board	544549	73	50.00
Colfax PSD	544333	39	115.00
Crab Orchard-MacArthur PSD (Marsh Fork)	544484	95	20.00
Crab Orchard-MacArthur PSD (Rhodell)	544462	2	210.00
Culloden PSD	544360	81	45.00
Delbarton, Town of	544201	13	125.00
Elizabeth, Town of	544552	65	70.00
Elkins, City of	544585	16	120.00
Ellenboro Lamberton PSD	547601	40	115.00
Enlarged Hepzibah PSD	544559	91	25.00

Project	SRF #C	Ranking	PriorityPoints
Farmington, Town of	544561	74	50.00
Frankfort PSD	544411	68	60.00
Gary, City of	544501	49	95.00
Gilbert, Town of (Justice)	544502	43	100.00
Greater Harrison Co. PSD (Enterprise)	544296	17	120.00
Greater Harrison County PSD (Phase II/Rt. 73)	544451	50	95.00
Greater Paw Paw PSD (Phase II)	544509	51	95.00
Greater Paw Paw PSD (Phase III)	544558	52	95.00
Greater St. Albans PSD (Phase IIIC Tackett's Creek)	544406	1	220.00
Greenbrier PSD #2	544568	82	45.00
Hancock County PSD	544431	89	35.00
Harpers Ferry-Bolivar PSD	544504	70	55.00
Hinton, City of	544550	60	75.00
Huttonsville PSD	544569	69	60.00
Jefferson County PSD (Flowing Springs Interceptor)	544546	75	50.00
Kanawha Falls PSD	544562	61	75.00
Kanawha PSD (Lens Creek)	544222	18	120.00
Logan County PSD (Phase III B2)	544460	19	120.00
Logan County PSD (Phase III B3)	544460	20	120.00
Logan, City of	544563	53	95.00
Logan, City of (Phase III Stollings)	544364	21	120.00
Lubeck PSD	544072	96	20.00
Man, Town of Sanitary Board	544572	76	50.00
Mason, Town of	544452	41	110.00
Matewan, Town of	544482	83	45.00
Matewan, Town of (Red Jacket)	544474	22	120.00
McDowell County PSD (Coalwood)	547302	3	180.00
McDowell County PSD (laeger-Phase I)	544513	44	100.00

Project	SRF #C	Ranking	PriorityPoints
McMechen Sewage Disposal System	544553	23	120.00
Mingo County PSD	544312	45	100.00
Monongah, Town of	544565	24	120.00
Montgomery Sanitary Board	544297	25	120.00
Morgantown Utility Board (Scotts Run Phase III)	544545	46	100.00
Mount Hope, City of	544586	26	120.00
North Beckley PSD (Phase IIIB Piney View)	544522	27	120.00
Northern Wayne County PSD	544402	92	25.00
Norton-Harding-Jimtown PSD	544567	28	120.00
Nutter Fort, Town of	544314	29	120.00
Oak Hill, City of	544535	30	120.00
Oakvale Road PSD (Phase II)	544524	77	50.00
Oceana, Town of	544525	31	120.00
Page Kincaid PSD	544508	88	40.00
Parsons, City of	544311	54	95.00
Pea Ridge PSD	544576	32	120.00
Pennsboro, City of	544409	6	150.00
Philippi, City of	544355	33	120.00
Point Pleasant, City of	544602	34	120.00
Preston County Sewer PSD (Bruceton Mills)	544538	62	75.00
Richwood, City of	544579	63	75.00
Ripley, City of Sanitary Board	544575	55	95.00
Romney, City of	544588	57	90.00
Rowlesburg, Town of	544307	35	120.00
Salem, Town of	544541	78	50.00
Shady Spring PSD (Pluto Road)	544410	47	100.00
Sissonville PSD	544570	93	25.00
Sophia, Town of	544085	36	120.00

Project	SRF #C	Ranking	PriorityPoints
South Charleston Sanitary Board	544580	37	120.00
St. Albans Municipal Utility Commission	544489	71	55.00
Sun Valley PSD	544587	48	100.00
Union PSD	544573	14	125.00
Vienna, City of	544233	84	45.00
Warm Springs PSD	544574	38	120.00
Webster Springs PSD (Bergoo)	544334	11	140.00
Welch, City of (North Welch)	544217	7	150.00
Wellsburg, City of	544577	9	145.00
West Dunbar Public Service District	544168	85	45.00
Weston, City of	544471	4	170.00
Williamson, City of	544544	86	45.00
Winfield, City of	544566	56	95.00

CLEAN WATER STATE REVOLVING FUND 2018 PRIORITY LIST

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="1"/>	Greater St. Albans PSD (Phase IIIC Tackett's Creek) County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544406-03"/> NPDES #WV: <input type="text" value="0035068"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIA,IIIB,IVA,IVB"/>	<input type="text" value="\$17,970,000"/>	<input type="text" value="\$17,970,000"/>	Problem Failing septic systems and package treatment plants. The Coal River Group has documented water quality degradation in the area from these discharges. Solution Extend sewer service to 700 new customers and replace/rehabilitate existing sewers.
Points <input type="text" value="220.00"/>				
Rank <input type="text" value="2"/>	Crab Orchard-MacArthur PSD (Rhodell) County: <input type="text" value="Raleigh"/> SRF #C: <input type="text" value="544462"/> NPDES #WV: <input type="text" value="0082309"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="XII"/>	<input type="text" value="\$2,659,180"/>	<input type="text" value="\$5,159,180"/>	Problem Elimination of direct discharges of raw sewage into Stone Coal and Tommy Creeks Solution Construct new wastewater collection and treatment system for approximately 110 residences in the Town of Rhodell.
Points <input type="text" value="210.00"/>				

Needs Category Definitions: I. Secondary Treatment - II. Advance Treatment - IIIA. I/I Correction - IIIB. Major Sewer Rehab - IVA. New Collector Sewer - IVB. New Interceptor Sewer - V. CSO Correction - VI Storm Water Controls - XII Decentralized

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="3"/>	McDowell County PSD (Coalwood) County: <input type="text" value="McDowell"/> SRF #C: <input type="text" value="547302"/> NPDES #WV: <input type="text" value="0000000"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="XII"/>	<input type="text" value="\$450,000"/>	<input type="text" value="\$1,950,000"/>	Problem Collection system discharging untreated sewage into local waterways. Solution Construct a decentralized WWTP and upgrade portions of the collection system.
Points <input type="text" value="180.00"/>				
Rank <input type="text" value="4"/>	Weston, City of County: <input type="text" value="Lewis"/> SRF #C: <input type="text" value="544471"/> NPDES #WV: <input type="text" value="0028068"/> Binding Date: <input type="text" value="12/31/2017"/> Needs Category: <input type="text" value="IIIA,IIIB,IVA,IVB"/>	<input type="text" value="\$6,800,000"/>	<input type="text" value="\$8,333,000"/>	Problem Unserved areas of Butchersville and Turnertown. Approximately 157 residential customers and 4 commercial customers failing septic tanks. Package plant that is unable to meet NPDES Permit requirements. Stonecoal Creek interceptor is a large source of I/I & the old WWTP site was never remediated. Solution New collection system to unserved areas. Send all flow to the Weston WWTP. Replace sewer interceptor pipeline running along Stonecoal Creek, and upgrading the existing Jackson's Mill pump station and remediating the site of the City's former WWTP.
Points <input type="text" value="170.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="5"/>	Century Volga PSD County: <input type="text" value="Barbour"/> SRF #C: <input type="text" value="544556"/> NPDES #WV: <input type="text" value="0000000"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="XII"/>	<input type="text" value="\$1,870,000"/>	<input type="text" value="\$2,870,000"/>	Problem Failing septic tanks and drain fields along with failing HAU's. Raw sewage and grey water being discharged into the streams and ditches. Solution Install a gravity collection system to serve the 57 residences of Century along with the UMWA Hall, community center and a church. A new 16,000 GPD WWTP would treat the wastewater collected. The nearest public sewer to the community is approximately 9 miles away and therefore it is not economical to pump the wastewater that distance for treatment.
Points <input type="text" value="160.00"/>				
Rank <input type="text" value="6"/>	Pennsboro, City of County: <input type="text" value="Ritchie"/> SRF #C: <input type="text" value="544409-03"/> NPDES #WV: <input type="text" value="0025739"/> Binding Date: <input type="text" value="6/30/2016"/> Needs Category: <input type="text" value="I"/>	<input type="text" value="\$2,672,600"/>	<input type="text" value="\$5,172,600"/>	Problem Current plant cannot handle the existing peak flow, which creates a permitted sanitary sewer overflow at the facility. The contact stabilization treatment is incapable of meeting the ammonia-nitrogen limitations listed in the City's NPDES permit. Solution New secondary treatment system of a sequential batch reactor (SBR) sized for a maximum of 2.10 mgd will be capable of regularly meeting the NPDES permit limits and will remove the temporary sanitary sewer overflow from the WWTP.
Points <input type="text" value="150.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="7"/>	Welch, City of (North Welch) County: <input type="text" value="McDowell"/> SRF #C: <input type="text" value="544217"/> NPDES #WV: <input type="text" value="0024589"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$6,030,000"/>	<input type="text" value="\$6,280,000"/>	Problem Unserved area, direct discharge sewer in the Trail Fork & Browns Creek, impaired/affected by Fecal Coliform. Failing septic systems. Solution Construct a new sanitary sewer system in the North Welch area. Hopefully reducing the Fecal Coliform impairment in the Trail Fork and Browns Creek streams. Will provide sewer service to approximately 92 additional customers.
Points <input type="text" value="150.00"/>				
Rank <input type="text" value="8"/>	Auburn, Town of County: <input type="text" value="Ritchie"/> SRF #C: <input type="text" value="547201"/> NPDES #WV: <input type="text" value="0000000"/> Binding Date: <input type="text" value="12/31/2017"/> Needs Category: <input type="text" value="XII"/>	<input type="text" value="\$1,214,725"/>	<input type="text" value="\$2,714,725"/>	Problem Raw sewage discharges to roadside ditches and to Bone Creek. Solution Installation of 50 individual Orenco AX20 treatment units and appurtenances to serve the Town of Auburn.
Points <input type="text" value="145.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="9"/>	Wellsburg, City of County: <input type="text" value="Brooke"/> SRF #C: <input type="text" value="544577"/> NPDES #WV: <input type="text" value="0026832"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$4,250,000"/>	<input type="text" value="\$4,250,000"/>	Problem The proposed project is the next step in the City's compliance with the USEPA Water Quality Standard for CSO Communities. The project will help eliminate inflow and infiltration from entering the system thus reducing the volume of sanitary and storm combined sewer overflows. Solution The City is proposing to rehabilitate a portion of their system by separating the storm and sanitary sewer flows on 15th Street.
Points <input type="text" value="145.00"/>				
Rank <input type="text" value="10"/>	Belle, Town of (Phase III) County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544177-04"/> NPDES #WV: <input type="text" value="0021946"/> Binding Date: <input type="text" value="9/30/2017"/> Needs Category: <input type="text" value="I"/>	<input type="text" value="\$4,045,000"/>	<input type="text" value="\$5,045,000"/>	Problem WWTP has outlived its expected useful life, upgrades are needed to meet NPDES permit limits DEP Order 5753. Solution Replacement of wastewater treatment plant with a package treatment system in one circular tank, and upgrade of both the main pump station and the headworks.
Points <input type="text" value="140.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="11"/>	Webster Springs PSD (Bergoo) County: <input type="text" value="Webster"/> SRF #C: <input type="text" value="544334"/> NPDES #WV: <input type="text" value="0497875"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="XII"/>	<input type="text" value="\$2,353,000"/>	<input type="text" value="\$2,353,000"/>	Problem Bergoo is reportedly being presently served by individual septic tank and absorption fields, some of which may be failing. Three discharge pipes are visible in Leatherwood Creek and Elk River. Solution Construct a new decentralized wastewater collection system and wastewater treatment plant.
Points <input type="text" value="140.00"/>				
Rank <input type="text" value="12"/>	Benwood, City of (Phase I) County: <input type="text" value="Marshall"/> SRF #C: <input type="text" value="544531"/> NPDES #WV: <input type="text" value="0020648"/> Binding Date: <input type="text" value="9/30/2017"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$3,775,400"/>	<input type="text" value="\$3,775,400"/>	Problem Large amount of I/I associated with the combined sewer system overwhelms Lift Station D and creates CSO events. Also, diversion structure for CSO C-008 is approximately 200' down a drainage tunnel and it is dangerous for staff to check on the structure's condition. Solution Install a new sanitary sewer system with the existing combined sewer system left in place to serve as a storm drainage system.
Points <input type="text" value="135.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="13"/>	Delbarton, Town of County: <input type="text" value="Mingo"/> SRF #C: <input type="text" value="544201"/> NPDES #WV: <input type="text" value="0042374"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$2,000,000"/>	<input type="text" value="\$5,181,000"/>	Problem Failing onsite wastewater treatment systems. Solution Installation of a centralized gravity wastewater collection system to approximately 200 customers in the Ragland area.
Points <input type="text" value="125.00"/>				
Rank <input type="text" value="14"/>	Union PSD County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544573"/> NPDES #WV: <input type="text" value="0037486"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IVA,IVB"/>	<input type="text" value="\$3,761,500"/>	<input type="text" value="\$7,523,000"/>	Problem Individual septic systems are in failing condition. Treatment equipment at the Rock Fork WWTP are in deteriorating condition and has reached the end of their useful lives. Solution Extend service area of Union PSD. Extension consists of constructing conventional gravity collection lines and associated manholes, sewage pumping stations and associated forcemains, as well as upgrades to existing wastewater treatment plant.
Points <input type="text" value="125.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="15"/>	Brooke County PSD (Phase II-B Eldersville Rd) County: <input type="text" value="Brooke"/> SRF #C: <input type="text" value="544006-03"/> NPDES #WV: <input type="text" value="0084182"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA, IVB"/>	<input type="text" value="\$5,200,000"/>	<input type="text" value="\$7,200,000"/>	Problem Existing leach fields for proposed customers are saturated, thus not percolating into the ground. The proposed customers will be served with a new public collection system, thus eliminating their onsite septic systems. Solution An extension of the Mahan Lane, Eldersville Road and St. John's Road project. 6" or 8" lines will gravity feed into the existing system installed in the Phase I and Phase IIA projects.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="16"/>	Elkins, City of County: <input type="text" value="Randolph"/> SRF #C: <input type="text" value="544585"/> NPDES #WV: <input type="text" value="0020028"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$2,761,500"/>	<input type="text" value="\$2,761,500"/>	Problem Significant I/I associated with combined sewers. Solution Separate sewers along Lavalette Avenue and Elm Street by installing new sanitary sewers and keeping existing combined sewers for storm drains.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="17"/>	Greater Harrison Co. PSD (Enterprise) County: <input type="text" value="Harrison"/> SRF #C: <input type="text" value="544296"/> NPDES #WV: <input type="text" value="0105213"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$8,694,000"/>	<input type="text" value="\$8,694,000"/>	Problem Enterprise is lacking a public sewage collection system. Residences rely on septic systems or directly discharge into the local streams and tributaries of the West Fork River. DEP samples of the river tested positive for fecal matter. Solution Construct a standard gravity sewer collection system to serve the area of Enterprise. Would provide service to approximately 397 customers. The collected sewage would be pumped to the Town of Worthington's WWTP for treatment.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="18"/>	Kanawha PSD (Lens Creek) County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544222-03"/> NPDES #WV: <input type="text" value="0021784"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,VB"/>	<input type="text" value="\$1,100,000"/>	<input type="text" value="\$5,100,000"/>	Problem Outdated and failing septic tank systems which drain into Lens Creek causing high volumes of fecal material being transported into the Kanawha River. Solution Construct 5,000 LF of 10" gravity sewer, 27,350 LF of 8" gravity sewer, 3,700 LF of 6" PVC, 6,630 LF of 4" PVC laterals and 5,000 LF of 6" Force Main along with 185 manholes, 1 Pump Station, 2 stream crossings and 1 connection & master meter at the WWTP.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="19"/>	Logan County PSD (Phase III B2) County: <input type="text" value="Logan"/> SRF #C: <input type="text" value="544460-02"/> NPDES #WV: <input type="text" value="0033821"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$1,000,000"/>	<input type="text" value="\$4,900,000"/>	Problem Failing onsite wastewater treatment systems. Solution Construct a centralized wastewater collection system to replace the failing onsite wastewater treatment systems. Project will serve approximately 168 new customers.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="20"/>	Logan County PSD (Phase III B3) County: <input type="text" value="Logan"/> SRF #C: <input type="text" value="544460-03"/> NPDES #WV: <input type="text" value="0033821"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$1,000,000"/>	<input type="text" value="\$4,780,000"/>	Problem Failing onsite wastewater treatment systems. Solution Construct a centralized wastewater collection system to replace the failing onsite wastewater treatment systems. Project will serve approximately 115 new customers.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="21"/>	Logan, City of (Phase III Stollings) County: <input type="text" value="Logan"/> SRF #C: <input type="text" value="544364-03"/> NPDES #WV: <input type="text" value="0033821"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$17,803,000"/>	<input type="text" value="\$18,803,000"/>	Problem Direct discharges of untreated sewage from 400 residences in McConnel and Stollings and partially treated sewage discharges from 200 residences along Dingess Run. Solution Extend gravity sewer system to serve McConnel, Stollings and Dingess Run. Sewage to be treated at Logan County PSD sewage treatment plant.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="22"/>	Matewan, Town of (Red Jacket) County: <input type="text" value="Mingo"/> SRF #C: <input type="text" value="544474"/> NPDES #WV: <input type="text" value="0024783"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$2,380,000"/>	<input type="text" value="\$5,380,000"/>	Problem Failing vacuum collection system and onsite systems. Solution Construction of a new gravity collection system to replace the failing existing vacuum system and failing onsite systems.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="23"/>	McMechen Sewage Disposal System County: <input type="text" value="Marshall"/> SRF #C: <input type="text" value="544553"/> NPDES #WV: <input type="text" value="0020141"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIB,VA"/>	<input type="text" value="\$3,750,000"/>	<input type="text" value="\$3,750,000"/>	Problem WWTP has reached the end of useful life. Collection System is dated & degraded and materials are inaccessible due to multiple HMA overlays. I/I 54.09% of system flow. Surface storm water inlets-large debris entering collection system, lift stations not operating, failing pumps. Administrative Orders #6705 & #8243. Solution Complete required upgrades and improvements to the facility and equipment within the WWTP, remove and replace sections of the collection system with storm/sewer system separation and rehabilitation/upgrades to both lift stations.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="24"/>	Monongah, Town of County: <input type="text" value="Marion"/> SRF #C: <input type="text" value="544565"/> NPDES #WV: <input type="text" value="0027324"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$2,280,000"/>	<input type="text" value="\$2,280,000"/>	Problem Existing sanitary sewer collection system is in poor condition and allows I/I into the collection system. Steep and/or rocky terrain hinder the maintenance crew to access the right-of-way's with the equipment they have available. Order #6682 & subsequent NOV's. Solution A portion of the gravity sewer system will be rehabilitated or replaced to remove I/I and allow for more efficient operation of the system.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="25"/>	Montgomery Sanitary Board County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544297"/> NPDES #WV: <input type="text" value="0020621"/> Binding Date: <input type="text" value="12/31/2017"/> Needs Category: <input type="text" value="IIIB"/>	<input type="text" value="\$664,742"/>	<input type="text" value="\$768,120"/>	Problem Sanitary Board's existing Sixth Avenue Pump Station is over 50 years old, and has reached the end of its useful life. The station requires frequent repairs and is located in the middle of Sixth Avenue which creates an unsafe situation for Sanitary Board workers who need to work on it. Solution Upgrade and relocate the Sixth Avenue Sewage Pumping Station in Montgomery, West Virginia.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="26"/>	Mount Hope, City of County: <input type="text" value="Fayette"/> SRF #C: <input type="text" value="544586"/> NPDES #WV: <input type="text" value="0021776"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIB"/>	<input type="text" value="\$635,000"/>	<input type="text" value="\$3,201,610"/>	Problem The inflows and infiltrations to the city's sewer system has caused bypasses of its sewage treatment plant when the flows exceed the plants hydraulic capacity to treat those flows. Solution To bring their sanitary sewer system into compliance with their NPDES permit the City needs to construct a 2.0 million gallon flow equalization tank to contain the bypasses until they can be treated at the wastewater treatment plant. This project will construct that tank and associated systems.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="27"/>	North Beckley PSD (Phase IIIB Piney View) County: <input type="text" value="Raleigh"/> SRF #C: <input type="text" value="544522"/> NPDES #WV: <input type="text" value="0027740"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$4,119,500"/>	<input type="text" value="\$5,619,500"/>	Problem 142 failing septic tanks/soil absorption systems along Piney Creek drainage which is on the 303(d) list for impaired streams for Fecal Coliform. Solution Providing a new gravity sewer system to replace failing septic tanks.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="28"/>	Norton-Harding-Jimtown PSD County: <input type="text" value="Randolph"/> SRF #C: <input type="text" value="544567"/> NPDES #WV: <input type="text" value="0106054"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$1,272,500"/>	<input type="text" value="\$1,486,500"/>	Problem Failing existing sewer lines and septic systems. Discharge of raw sewage. Solution Near Norton Area install new gravity sewer lines, manholes, station and force main that ties into the PSD existing force main. Second area is County Route 151 proposed to install new gravity sewer lines, manholes, 2 lift stations, and 2 force mains.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="29"/>	Nutter Fort, Town of County: <input type="text" value="Harrison"/> SRF #C: <input type="text" value="544314"/> NPDES #WV: <input type="text" value="0010090"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$1,549,800"/>	<input type="text" value="\$1,549,800"/>	Problem The system currently has significant I/I into it's system. In addition the system is a combined system and has CSO's. Separation of the sanitary sewage from the storm water needs to be addressed and separated. Solution The project includes conducting smoke/dye testing to identify problem areas infected by Inflow and Infiltration and installing corrective measures where they are located. The measures will include sewer line replacement, storm /sewer separation and a flow meter to monitor I&I from the Stonewood system.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="30"/>	Oak Hill, City of County: <input type="text" value="Fayette"/> SRF #C: <input type="text" value="544535"/> NPDES #WV: <input type="text" value="0022028"/> Binding Date: <input type="text" value="9/30/2017"/> Needs Category: <input type="text" value="I,IIIA,IIIB,IVB"/>	<input type="text" value="\$14,000,000"/>	<input type="text" value="\$23,625,000"/>	Problem The existing collection system has high I/I resulting in numerous bypasses at the Minden Road & Rt. 61 WWTP's. Both WWTP's are approaching their design treatment capacities at average daily flow & exceed their design capacities during wet weather events. Arbuckle PSD's system is in failing condition. Solution Consolidate Arbuckle PSD(APSD) into Oak Hill Sanitary Board(OHSB) system, construct a sewer pumping station with associated force main to transport flows from the existing APSD WWTP to OHPSD Minden WWTP. Rehab the OHSB collection system, upgrade 2 existing OHSB WWTPs.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="31"/>	Oceana, Town of County: <input type="text" value="McDowell"/> SRF #C: <input type="text" value="544525"/> NPDES #WV: <input type="text" value="0024431"/> Binding Date: <input type="text" value="3/31/2018"/> Needs Category: <input type="text" value="II,IIIB"/>	<input type="text" value="\$6,695,750"/>	<input type="text" value="\$6,695,750"/>	Problem Pump station equipment is failing & WWTP's is exceeding its rated permitted capacity. This is causing NPDES violations & the DEP has issued Order #8268. Solution Increase the existing 500,000 gpd wastewater treatment plant to 750,000 gpd and upgrade 26 existing pump stations.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="32"/>	Pea Ridge PSD County: <input type="text" value="Cabell"/> SRF #C: <input type="text" value="544576"/> NPDES #WV: <input type="text" value="0002741"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IVA, IVB"/>	<input type="text" value="\$18,280,000"/>	<input type="text" value="\$29,280,000"/>	Problem The PDS's A Plant is currently experiencing flows in excess of the design treatment capacity of the plant. The surrounding areas has 15 existing package plants, and 2 industrial parks in need of access to public sewer. The District's existing A Plant currently experiences an average daily flow of 0.926 MGD which is greater than the design capacity of 0.850 MGD. Solution The project proposes to extend sanitary sewer service to serve approximately 750 potential customers. The project proposes to upgrade the PDS's A Plant to increase the treatment capacity to allow for the treatment of the additional flows and reduce or eliminate sewage overflows due to the high flows experienced at the WWTP.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="33"/>	Philippi, City of County: <input type="text" value="Barbour"/> SRF #C: <input type="text" value="544355"/> NPDES #WV: <input type="text" value="0021857"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$5,227,900"/>	<input type="text" value="\$5,227,900"/>	Problem Excessive I/I in combined sewers. Solution Separate portion of collection system in northern section of city and replace North lift station force main. This will address the second compliance task from the LTCP implementation schedule.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="34"/>	Point Pleasant, City of County: <input type="text" value="Mason"/> SRF #C: <input type="text" value="544602"/> NPDES #WV: <input type="text" value="0022039"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,VA"/>	<input type="text" value="\$1,718,000"/>	<input type="text" value="\$1,718,000"/>	Problem Equipment at the wastewater treatment plant is past the expected life cycle and needs replaced. Combined sewers were found by smoke testing upstream of the Southern States Lift Station. Lift stations and treatment plant are not totally served by generators. Solution Wastewater treatment plant improvements including new screen, vortex grit system, flow meters, roof, and generator. Sewer separation along previously installed storm drainage channel. Lift station generators.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="35"/>	Rowlesburg, Town of County: <input type="text" value="Preston"/> SRF #C: <input type="text" value="544307"/> NPDES #WV: <input type="text" value="0027481"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIA,IIIB"/>	<input type="text" value="\$7,778,000"/>	<input type="text" value="\$8,778,000"/>	Problem WWTP is very old and in desperate need of upgrades, treatment ponds in poor condition in need of sludge removal, aeration system needs replaced, plant needs new chlorination/dechlorination system. Collection system is old and has to be repaired periodically. Separate storm/sanitary sewer flow. Solution Install a new chlorination/dechlorination station, install a WWTP liner for both ponds, WWTP sludge removal for both ponds, install a WWTP aeration system, replace (3) pump stations, and replace/separate approximately 25,000 LF of sanitary & storm sewer lines. DEP Order #8269.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="36"/>	Sophia, Town of County: <input type="text" value="Raleigh"/> SRF #C: <input type="text" value="544085"/> NPDES #WV: <input type="text" value="0024422"/> Binding Date: <input type="text" value="6/30/2017"/> Needs Category: <input type="text" value="I,IVA,IVB"/>	<input type="text" value="\$2,350,000"/>	<input type="text" value="\$13,888,000"/>	Problem Project is to add sanitary sewer service to 440 residential customers of Coal City, replacing the existing treatment plant and propose additional flows while still meeting the requirements and conditions of its NPDES Permit. Most houses in the Coal City area use septic tanks and leach fields to dispose of wastewater and the size of these fields may be limited as a result of soils and topography constraints. Solution A new 0.40 MGD WWTP will be constructed at a new site above the 100 year flood plain close to the existing plant location. A new collection system comprised of gravity sewer pipe, pump stations and force main will be constructed for the Coal City customers with the pump station and force main used to convey the flows to the new Sophia WWTP.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="37"/>	South Charleston Sanitary Board County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544580"/> NPDES #WV: <input type="text" value="0023116"/> Binding Date: <input type="text" value="6/30/2017"/> Needs Category: <input type="text" value="IIIA"/>	<input type="text" value="\$5,000,000"/>	<input type="text" value="\$5,000,000"/>	Problem South Charleston is addressing I/I to reduce the number of overflows throughout the collection system. The work being proposed is for the Green Valley Sewer Shed. Solution The work will include a study and report phase on their current system, I&I Reduction, replacement of existing sewer line, and possible increase in collection system capacity.
Points <input type="text" value="120.00"/>				
Rank <input type="text" value="38"/>	Warm Springs PSD County: <input type="text" value="Morgan"/> SRF #C: <input type="text" value="544574"/> NPDES #WV: <input type="text" value="0027707"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIA,IVA,IVB"/>	<input type="text" value="\$3,070,000"/>	<input type="text" value="\$3,070,000"/>	Problem Berkeley Springs WWTP: Unable to operate at 100% during power outages due to undersized standby generator. Both clarifiers boundary walls experience snow build up causing the walkways and arms to stop turning. Collection System: The PSC reports I&I accounts for 73.77% of system flow to the WWTP. Multiple residential and development areas are requesting sanitary service. Solution Berkeley Springs WWTP: Installation of a new standby generator with automatic transfer switch sized to operate the entire WWTP during power outages and installation of embedded heat trace system into both clarifiers boundary walls. Collection System: Rehab of existing collections system and manholes to remove and/or reduce the high I/I. Installation of sewer extensions to the areas requesting service.
Points <input type="text" value="120.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="39"/>	Colfax PSD County: <input type="text" value="Marion"/> SRF #C: <input type="text" value="544333"/> NPDES #WV: <input type="text" value="0032131"/> Binding Date: <input type="text" value="12/31/2017"/> Needs Category: <input type="text" value="IIIA,IIIB,IVA,IVB"/>	<input type="text" value="\$641,500"/>	<input type="text" value="\$2,141,500"/>	Problem WWTP on unstable ground has reached its useful life and is failing. Need to comply with NOV. Excessive I/I, overflows during high flow periods. Solution Construct new sanitary sewer system; abandon WWTP and connect the system to Kingmill Valley PSD.
Points <input type="text" value="115.00"/>				
Rank <input type="text" value="40"/>	Ellenboro Lamberton PSD County: <input type="text" value="Ritchie"/> SRF #C: <input type="text" value="547601"/> NPDES #WV: <input type="text" value="0027308"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB,IIIB"/>	<input type="text" value="\$2,120,000"/>	<input type="text" value="\$2,120,000"/>	Problem WWTP and collection system is in poor condition due to age and failing equipment. Sand filters are damaged and dirty causing partially treated sewage to seep through the concrete walls. Inspections show high fecal counts in an outlet pipe near the plant, creating unsafe and unsanitary condition for residents. This can also create unfavorable conditions for the environment. Under DEP Order No. 8135. Solution Eliminate the Ellensboro WWTP and construct a new sanitary sewer system from Ellenboro to a point of connection Pennsboro sewer system.
Points <input type="text" value="115.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="41"/>	Mason, Town of County: <input type="text" value="Mason"/> SRF #C: <input type="text" value="544452-02"/> NPDES #WV: <input type="text" value="0021849"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIA,IIIB"/>	<input type="text" value="\$2,884,500"/>	<input type="text" value="\$3,634,500"/>	Problem The wastewater treatment plant has had problems consistently meeting the effluent limits in its NPDES permit - suspended solids, fecal coliform, & Kjeldahl nitrogen, as identified in DEP Consent Order #6891. The collection system experiences I/I due to broken or deteriorated manhole walls & chimneys. Solution Upgrade wastewater treatment plant by replacing aeration system (piping, diffusers, blowers, etc.), rehabilitate automatic bar screen, convert open-channel UV system to closed unit, refurbish belt press, build a new garage, upgrade the electrical system, rehabilitate 2 pump stations, & rehabilitate/replace 64 manholes.
Points <input type="text" value="110.00"/>				
Rank <input type="text" value="42"/>	Burnsville PSD County: <input type="text" value="Braxton"/> SRF #C: <input type="text" value="544578"/> NPDES #WV: <input type="text" value="0024945"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIA,IIIB,IVB"/>	<input type="text" value="\$1,250,000"/>	<input type="text" value="\$4,860,000"/>	Problem Remove excess inflow and infiltration from the existing wastewater collection system due to connected drop inlets and outdated wastewater collection lines in low lying areas near waterways. Remove a package treatment facility and provide service approximately to 50 new customers. Solution Construction of approximately 500 feet of 18" stormwater collection line, 6 drop inlets, 11,150 ft. of 10" and smaller gravity wastewater collection line, 7,800 ft. of 6" & smaller diameter forcemain, 4 new pumping stations, and various other related appurtenances.
Points <input type="text" value="100.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="43"/>	Gilbert, Town of (Justice) County: <input type="text" value="Mingo"/> SRF #C: <input type="text" value="544502"/> NPDES #WV: <input type="text" value="0071820"/> Binding Date: <input type="text" value="6/30/2017"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$928,000"/>	<input type="text" value="\$4,428,000"/>	Problem Failing on site wastewater treatment systems. Solution New centralized gravity collection system to replace the existing failing onsite treatment systems.
Points <input type="text" value="100.00"/>				
Rank <input type="text" value="44"/>	McDowell County PSD (laeger-Phase I) County: <input type="text" value="Mingo"/> SRF #C: <input type="text" value="544513"/> NPDES #WV: <input type="text" value="0115011"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IVA,IVB"/>	<input type="text" value="\$2,000,000"/>	<input type="text" value="\$6,400,000"/>	Problem Failing onsite septic systems in the laeger area. Solution Construction of a centralized wastewater collection and treatment system.
Points <input type="text" value="100.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="45"/>	Mingo County PSD County: <input type="text" value="Mingo"/> SRF #C: <input type="text" value="544312"/> NPDES #WV: <input type="text" value="0037699"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIB,IVA,IVB"/>	<input type="text" value="\$2,513,000"/>	<input type="text" value="\$2,513,000"/>	Problem 51 residents in the eastern end of Chattaroy, WV are using failing septic systems. Sewage is leaking into the nearby Buffalo Creek. Several sections of sewer pipe within the existing system are in a state of near collapse. Solution Extend sewer service to 51 residents and 3 of the most deteriorated sections of the existing system will be replaced.
Points <input type="text" value="100.00"/>				
Rank <input type="text" value="46"/>	Morgantown Utility Board (Scotts Run Phase III) County: <input type="text" value="Monongalia"/> SRF #C: <input type="text" value="544545"/> NPDES #WV: <input type="text" value="0023124"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$7,200,000"/>	<input type="text" value="\$7,800,000"/>	Problem Residents currently rely on private sewage systems of unknown integrity. Solution Extend sanitary sewer service to +80 residents. Install +/-25,000 lf of 8" gravity sewer, +/-7,000 lf of 6" force main, and 2 pump stations.
Points <input type="text" value="100.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="47"/>	Shady Spring PSD (Pluto Road) County: <input type="text" value="Raleigh"/> SRF #C: <input type="text" value="544410"/> NPDES #WV: <input type="text" value="0080403"/> Binding Date: <input type="text" value="12/31/2017"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$5,375,171"/>	<input type="text" value="\$5,375,171"/>	Problem Failing septic systems are creating health issues in the Pluto Road area and also contributing to the pollution of Glade Creek of New River. Solution Construct a conventional gravity/grinder pump pressure sewer collection system to eliminate failing septic systems. Collected wastewater will be pumped to existing wastewater treatment plant at Glen Morgan.
Points <input type="text" value="100.00"/>				
Rank <input type="text" value="48"/>	Sun Valley PSD County: <input type="text" value="Harrison"/> SRF #C: <input type="text" value="544587"/> NPDES #WV: <input type="text" value="0010466"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$2,225,000"/>	<input type="text" value="\$2,240,000"/>	Problem The current system consists of five (5) pumping stations, eight (8) grinder pumping stations to transmit wastewater to nearby treatment facilities. The system is made up of approximately 24.9 miles of gravity collection mains and 4.6 miles of force mains. Solution The Sun Valley Public Service District is looking to extend its existing system to potential customers. The District intends to extend service to approximately 95 customers in four (4) areas around the District's existing area of operation.
Points <input type="text" value="100.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="49"/>	Gary, City of County: <input type="text" value="McDowell"/> SRF #C: <input type="text" value="544501"/> NPDES #WV: <input type="text" value="0020044"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIA,IIIB"/>	<input type="text" value="\$1,543,000"/>	<input type="text" value="\$1,543,000"/>	Problem The City is under consent order #7442 from the WVDEP. Excessive I/I and system is also deteriorated. Solution Repair/replace existing WWTP to optimize operation and maintenance. Repair/replacement of existing sewer collection mains to minimize I/I.
Points <input type="text" value="95.00"/>				
Rank <input type="text" value="50"/>	Greater Harrison County PSD (Phase II/Rt. 73) County: <input type="text" value="Harrison"/> SRF #C: <input type="text" value="544451"/> NPDES #WV: <input type="text" value="0084301"/> Binding Date: <input type="text" value="10/31/2017"/> Needs Category: <input type="text" value="I,IVA,IVB"/>	<input type="text" value="\$10,878,500"/>	<input type="text" value="\$22,265,500"/>	Problem The Clarksburg Country Club and Laurel Park areas are currently served by failing septic systems, violating package plants at the end of their useful lives, and direct stream discharges. Solution Installation of gravity sewer collection system, pump stations, force mains and construction of a new 100,000 GPD wastewater treatment plant. Areas to be served include, Clarksburg Country Club, Laurel Park, and Route 73.
Points <input type="text" value="95.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="51"/>	Greater Paw Paw PSD (Phase II) County: <input type="text" value="Marion"/> SRF #C: <input type="text" value="544509"/> NPDES #WV: <input type="text" value="0084310"/> Binding Date: <input type="text" value="12/31/2017"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$2,915,000"/>	<input type="text" value="\$2,930,000"/>	Problem Excessive I/I, piping in disrepair and in many locations there are no manholes or means to access the existing piping. Location of piping is not known in many places and some lines cross under houses. Solution A new gravity Sanitary Sewer System is being installed and the old system abandoned in many locations. This will eliminate the excessive I/I in the Orchard Hill area and around the Elementary School. This is in accordance with Ph. II of their approved LTCP.
Points <input type="text" value="95.00"/>				
Rank <input type="text" value="52"/>	Greater Paw Paw PSD (Phase III) County: <input type="text" value="Marion"/> SRF #C: <input type="text" value="544558"/> NPDES #WV: <input type="text" value="0084310"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$1,690,000"/>	<input type="text" value="\$3,380,000"/>	Problem Excessive I/I, piping is in disrepair and no manholes or means to access the existing piping in many locations. Location of piping is not known and some of the lines cross under houses. Solution New gravity Sanitary Sewer System is being installed and the old system abandoned in many locations. This will eliminate a large amount of the I/I problems in Granttown and around Greenhill section of Rivesville. This is in accordance with Ph. III of their approved LTCP.
Points <input type="text" value="95.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="53"/>	Logan, City of County: <input type="text" value="Logan"/> SRF #C: <input type="text" value="544563"/> NPDES #WV: <input type="text" value="0033821"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$4,618,000"/>	<input type="text" value="\$4,618,000"/>	Problem City discharges combined storm and sanitary sewage flows during wet weather. Existing treatment plant is failing mechanically and treated effluent violates WVNPDES permit limits. Solution Connect city's collection system to Logan County PSD for treatment of ADF. Convert existing treatment plant to CSO treatment facility.
Points <input type="text" value="95.00"/>				
Rank <input type="text" value="54"/>	Parsons, City of County: <input type="text" value="Tucker"/> SRF #C: <input type="text" value="544311"/> NPDES #WV: <input type="text" value="0022063"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$500,000"/>	<input type="text" value="\$500,000"/>	Problem Separation of storm water & sanitary sewer flows. This is to reduce overflows in the system. Solution This project consists of installing a 24" storm sewer line in order to separate storm sewer from sanitary sewer. The City of Parsons is a CSO community.
Points <input type="text" value="95.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="55"/>	Ripley, City of Sanitary Board County: <input type="text" value="Jackson"/> SRF #C: <input type="text" value="544575"/> NPDES #WV: <input type="text" value="0045543"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIB,IVB"/>	<input type="text" value="\$8,000,000"/>	<input type="text" value="\$16,500,000"/>	Problem Both sewer systems are under Order to upgrade the WWTP's because they are unable to consistently meet the permitted effluent limits. Solution The project consists of constructing a new, centralized wastewater treatment facility that will treat flows collected from both Ripley and Evans. Sewage from the Evans system will be pumped to the new facility. The existing ponds in Ripley and Evans will be closed after the new facility is placed in service. This will consist of dewatering, and sludge removal and disposal.
Points <input type="text" value="95.00"/>				
Rank <input type="text" value="56"/>	Winfield, City of County: <input type="text" value="Putnam"/> SRF #C: <input type="text" value="544566"/> NPDES #WV: <input type="text" value="0024503"/> Binding Date: <input type="text" value="6/30/2017"/> Needs Category: <input type="text" value="I"/>	<input type="text" value="\$7,480,000"/>	<input type="text" value="\$7,480,000"/>	Problem The plant is hydraulically overloaded and fails to maintain compliance with permit requirements on a regular basis. Several occurrences of overflows at the bar screen and the ponds, allow untreated wastewater to find its way into the river. Solution The construction of a new 0.5 MGD SBR WWTP will allow the City to achieve compliance with their current NPDES permit requirements and ensure compliance for the foreseeable future. The plant will also be hydraulically expandable to 1.0 MGD design flow if additional capacity is needed. It is also recommended that two lift stations be replaced due to their age and frequent maintenance requirements.
Points <input type="text" value="95.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="57"/>	Romney, City of County: <input type="text" value="Hampshire"/> SRF #C: <input type="text" value="544588"/> NPDES #WV: <input type="text" value="0020699"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIA"/>	<input type="text" value="\$1,516,500"/>	<input type="text" value="\$1,516,500"/>	Problem System construction consists of dated and degraded pipes that are busted or contain separated joints and root invasion. The reported Inflow and Infiltration accounts for significant flows that exceed 250% of the estimated dry weather average. Solution Complete required upgrades and improvements through removal and replacement of existing sanitary sewer lines and manholes along Bolton Street, Washington Street, and Rannels Acres.
Points <input type="text" value="90.00"/>				
Rank <input type="text" value="58"/>	Boone County PSD (West Madison) County: <input type="text" value="Boone"/> SRF #C: <input type="text" value="544494"/> NPDES #WV: <input type="text" value="0035939"/> Binding Date: <input type="text" value="3/31/2018"/> Needs Category: <input type="text" value="I,VA"/>	<input type="text" value="\$4,690,800"/>	<input type="text" value="\$4,725,000"/>	Problem Certain items at the WWTP have outlived their useful life and it is time to replace these units. I/I is causing excessive flows when rain events occur. Solution Upgrade certain collection system components in/and near West Madison and upgrade the Danville WWTP, replacing belt filter press with a fan press and upgrade capacity via addition of 3rd clarifier. Will help the LTCP compliance.
Points <input type="text" value="80.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="59"/>	Charleston, City of (Woodward Branch) County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544557"/> NPDES #WV: <input type="text" value="0023205"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$7,270,975"/>	<input type="text" value="\$7,324,975"/>	Problem This project is part of the CSO Long-term Control Plan submitted to WVDEP 12/27/2005. The project will help reduce excessive I/I in this section of the wastewater collection system. Solution The project will replace existing sewers in the Woodward Branch service area of the City of Charleston and provide for the abandonment of existing sewers that are allowing excessive I/I.
Points <input type="text" value="75.00"/>				
Rank <input type="text" value="60"/>	Hinton, City of County: <input type="text" value="Summers"/> SRF #C: <input type="text" value="544550"/> NPDES #WV: <input type="text" value="0024732"/> Binding Date: <input type="text" value="6/30/2017"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$2,024,000"/>	<input type="text" value="\$4,024,000"/>	Problem To reduce the frequency and duration of the discharge from permitted discharge CSO 007. Solution Replacement of existing outdated wastewater collection system and pumping station which will reduce the frequency and duration of the discharge from permitted discharge from CSO 007.
Points <input type="text" value="75.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="61"/>	Kanawha Falls PSD County: <input type="text" value="Fayette"/> SRF #C: <input type="text" value="544562"/> NPDES #WV: <input type="text" value="0034991"/> Binding Date: <input type="text" value="6/30/2017"/> Needs Category: <input type="text" value="IIIB"/>	<input type="text" value="\$1,000,000"/>	<input type="text" value="\$4,503,000"/>	Problem Deficient equipment at the WWTP such as the plant lift stations, headworks, treatment basins, wash water system, and replacement of an oversized forcemain, that is causing septic conditions in the system. Solution Install new main pumping station components, new bar screen, new grit unit and compactors, refurbish treatment basins and other pertinent repairs at the WWTP. Also replace oversized force main.
Points <input type="text" value="75.00"/>				
Rank <input type="text" value="62"/>	Preston County Sewer PSD (Bruceton Mills) County: <input type="text" value="Preston"/> SRF #C: <input type="text" value="544538"/> NPDES #WV: <input type="text" value="0025101"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIB"/>	<input type="text" value="\$4,100,000"/>	<input type="text" value="\$4,100,000"/>	Problem WWTP operating with out of date equipment & failing infrastructure. Comminutor & tertiary filter are both out of service. Air piping needs replaced as well as controls. Pump station is in need of full upgrades, control panel replacements, increased storage, and more effective pumps. Excessive I/I issues. Solution Replace the damaged baffles, clarifiers, controls, blowers, piping, tankage fence, and grating. Relocate the influent pump and install a new emergency generator with an automatic transfer switch. Upgrade Pump Station to include new pumps, controls, hoist systems, & other appurtenances. Project will reduce burden of I&I on the system.
Points <input type="text" value="75.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="63"/>	Richwood, City of County: <input type="text" value="Richwood"/> SRF #C: <input type="text" value="544579"/> NPDES #WV: <input type="text" value="0022004"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I"/>	<input type="text" value="\$10,511,000"/>	<input type="text" value="\$10,511,000"/>	Problem The existing WWTP is at the end of its useful life and needs replaced. It is also not able to treat all of the flow that reaches the plant due to their combined sewer system. Solution The project proposes to build 0.75 MGD WWTP with tertiary filtration and new headworks facilities.
Points <input type="text" value="75.00"/>				
Rank <input type="text" value="64"/>	Chapmanville, Town of County: <input type="text" value="Logan"/> SRF #C: <input type="text" value="544483-02"/> NPDES #WV: <input type="text" value="0024678"/> Binding Date: <input type="text" value="12/31/2017"/> Needs Category: <input type="text" value="I,IIIB"/>	<input type="text" value="\$7,877,000"/>	<input type="text" value="\$7,877,000"/>	Problem Pump station equipment is failing, and bypassing of raw sewage is occurring. Treatment plant equipment is failing, and capacity of plant has been reached. Solution Replace 3 pump stations and upgrade sewage treatment plant to 400,000 gpd SBR treatment plant.
Points <input type="text" value="70.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="65"/>	Elizabeth, Town of County: <input type="text" value="Wirt"/> SRF #C: <input type="text" value="544552"/> NPDES #WV: <input type="text" value="0041505"/> Binding Date: <input type="text" value="3/31/2018"/> Needs Category: <input type="text" value="IIIA"/>	<input type="text" value="\$1,386,500"/>	<input type="text" value="\$3,386,500"/>	Problem It has been determined that inflow to the WWTP is much greater than anticipated, especially during rainfall events. The smoke test also identified areas where storm drains are connected directly to the sanitary sewer system. Solution This project proposes to rehab the areas of the collection system as well as separating the storm sewer from the sanitary system. In addition the project will upgrade 2 lift stations.
Points <input type="text" value="70.00"/>				
Rank <input type="text" value="66"/>	Cairo, Town of County: <input type="text" value="Ritchie"/> SRF #C: <input type="text" value="547101"/> NPDES #WV: <input type="text" value="0084212"/> Binding Date: <input type="text" value="3/31/2018"/> Needs Category: <input type="text" value="IIIA,XII"/>	<input type="text" value="\$1,503,325"/>	<input type="text" value="\$2,503,325"/>	Problem Existing manholes and sewers are deteriorating and the steel package treatment plant is corroding and the electrical equipment is beginning to fail. Pumping equipment is also failing. Excessive I/I. Solution Replace existing treatment plant and refurbish pump stations, manhole and sewer lines.
Points <input type="text" value="65.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="67"/>	Central Boaz PSD County: <input type="text" value="Wood"/> SRF #C: <input type="text" value="544059"/> NPDES #WV: <input type="text" value="0084221"/> Binding Date: <input type="text" value="3/31/2018"/> Needs Category: <input type="text" value="I,IVA,IVB"/>	<input type="text" value="\$2,602,000"/>	<input type="text" value="\$2,607,000"/>	Problem Unserved area along WV RT 14 and existing WWTP aeration & decanting systems aren't functioning properly & UV disinfection and vacuum pits have reached the end of their useful lives. Solution Construct a pressure sewer system to serve the WV RT 14 area, upgrade the existing WWTP and replace vacuum pits.
Points <input type="text" value="60.00"/>				
Rank <input type="text" value="68"/>	Frankfort PSD County: <input type="text" value="Mineral"/> SRF #C: <input type="text" value="544411-03"/> NPDES #WV: <input type="text" value="105988"/> Binding Date: <input type="text" value="10/31/2017"/> Needs Category: <input type="text" value="IIIA"/>	<input type="text" value="\$3,700,000"/>	<input type="text" value="\$3,700,000"/>	Problem Existing lines are in poor condition and undersized, existing sewer lines are failing and have I/I problems. Work was originally planned as part of Phase 2 but had to be eliminated due to bid overrun. Solution This project is to replace all the existing sewer lines throughout Sunrise Heights, Sherwood Acres, Knobley Estates, and Moreland Mobile Home Park. These developments were connected to the system during Phase I.
Points <input type="text" value="60.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="69"/>	Huttonsville PSD County: <input type="text" value="Randolph"/> SRF #C: <input type="text" value="544569"/> NPDES #WV: <input type="text" value="0080535"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I"/>	<input type="text" value="\$2,000,000"/>	<input type="text" value="\$2,000,000"/>	Problem The Mill Creek WWTP is not able to meet Ammonia discharge requirements outlined in the NPDES Permit. Order #8454 Solution The project proposes to upgrade the Mill Creek WWTP by installing Bio Domes in the secondary ponds in order to meet discharge parameters outlined in the NPDES permit.
Points <input type="text" value="60.00"/>				
Rank <input type="text" value="70"/>	Harpers Ferry-Bolivar PSD County: <input type="text" value="Jefferson"/> SRF #C: <input type="text" value="544504"/> NPDES #WV: <input type="text" value="0039136"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I"/>	<input type="text" value="\$2,599,779"/>	<input type="text" value="\$2,599,779"/>	Problem Replace aging critical assets identified in the Asset Management Plan. The existing WWTP is almost 38 years old and can fail at any time. Solution Upgrade existing system, includes the replacement of blowers, diffusers, air piping, outdated switch gear, controls, power distribution and separates chlorination and dechlorination.
Points <input type="text" value="55.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="71"/>	St. Albans Municipal Utility Commission County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544489"/> NPDES #WV: <input type="text" value="0023175"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I"/>	<input type="text" value="\$2,287,150"/>	<input type="text" value="\$2,287,150"/>	Problem Current UV disinfection system is nearing the end of it's useful life and is becoming problematic. The system does not have flow pacing and is inefficient causing excessive energy use. The current sludge belt filter press is beyond its useful life and requires excessive reoccurring maintenance. Solution The proposed project will replace the existing UV disinfection system with a new system that is more energy efficient. The new system will also provide flow pacing further reducing energy consumption. The project will also replace the existing belt filter press allowing for dependable operation.
Points <input type="text" value="55.00"/>				
Rank <input type="text" value="72"/>	Albright, Town of County: <input type="text" value="Preston"/> SRF #C: <input type="text" value="C544592"/> NPDES #WV: <input type="text" value="0055138"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIA"/>	<input type="text" value="\$1,357,000"/>	<input type="text" value="\$2,357,000"/>	Problem The existing sanitary sewer collection system is burdened by large amounts of I/I. During wet weather events, it is reported that the wastewater treatment plant operates as much as three times above its design conditions. Solution This project proposes to add head works and upgrade the existing equipment at the treatment plant. The existing sewer collection system will be rehabilitated by upgrading the three existing lift stations in the collection system and by replacing select manhole lids with water tight frames and covers as well as plug previously abandoned service laterals in order to reduce the effects of I/I.
Points <input type="text" value="50.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="73"/> Points <input type="text" value="50.00"/>	Clarksburg Sanitary Board County: <input type="text" value="Harrison"/> SRF #C: <input type="text" value="544549"/> NPDES #WV: <input type="text" value="0023302"/> Binding Date: <input type="text" value="3/31/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$7,500,000"/>	<input type="text" value="\$7,500,000"/>	Problem Gravity sewer lines are being overloaded with storm sewer flows during periods of wet weather. Tide-Flex valves are in need of replacement. Solution Removal and replacement of concrete gravity sewer pipe with PVC gravity sewer pipe as well as the installation of HDPE storm sewer pipe. Install new manholes, storm sewer inlets, and concrete wingwalls. Tide-Flex valves are to be installed on CSO's of high priority and in need of replacement.
Rank <input type="text" value="74"/> Points <input type="text" value="50.00"/>	Farmington, Town of County: <input type="text" value="Marion"/> SRF #C: <input type="text" value="544561"/> NPDES #WV: <input type="text" value="0024865"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIA,IIIB"/>	<input type="text" value="\$1,100,000"/>	<input type="text" value="\$1,100,000"/>	Problem WWTP needs upgrades to the clarifiers, installation of a skid mounted RAS/WAS pump station, installation of a manual bar screen, electrical improvements. Manholes and existing sewer lines need rehabilitated. Solution Install skid mounted RAS/WAS pump station, manual bar screen with drying deck, new flow meter, upgrade clarifiers, remove/dispose of existing telescoping valves ,replace roof, update electrical at the sewer plant. Rehabilitate existing manholes/pipes.

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="75"/>	Jefferson County PSD (Flowing Springs Interceptor) County: <input type="text" value="Jefferson"/> SRF #C: <input type="text" value="544546"/> NPDES #WV: <input type="text" value="0084361"/> Binding Date: <input type="text" value="9/30/2017"/> Needs Category: <input type="text" value="IVA,IIIB"/>	<input type="text" value="\$3,575,000"/>	<input type="text" value="\$7,150,000"/>	Problem Collection system operating near its capacity. Deferred maintenance and improvements to collection system, have experienced backups into a basement at the Breckenridge pump station, civil suites, additional capacity needed. Solution Construct gravity interceptors & new pump station, upgrade 3 pump stations & construct a force main. Eliminate 5 existing pump stations, improve capacity, reliability & safety of conveyance system to City of Charles Town's WWTP. Capacity for Jefferson County.
Points <input type="text" value="50.00"/>				
Rank <input type="text" value="76"/>	Man, Town of Sanitary Board County: <input type="text" value="Logan"/> SRF #C: <input type="text" value="544572"/> NPDES #WV: <input type="text" value="0022462"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="VA"/>	<input type="text" value="\$623,500"/>	<input type="text" value="\$623,500"/>	Problem The existing sanitary sewer system is currently experiencing significant I/I flowing into its system. The system is also a combined (CSO) system. The purpose of this project is to separate the storm flows from sanitary flows and to eliminate a significant amount of I/I. Solution The project proposes to reduce the I&I by removing stormwater drains which are connected directly to the sanitary sewer system. This project also includes upgrading the lift stations to include a new telemetry system, and new generator outlets as well as installing a new flow meter on the main sewer line.
Points <input type="text" value="50.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="77"/>	Oakvale Road PSD (Phase II) County: <input type="text" value="Mercer"/> SRF #C: <input type="text" value="544524"/> NPDES #WV: <input type="text" value="0080489"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$5,256,000"/>	<input type="text" value="\$5,256,000"/>	Problem Areas described to receive service consists of unserved residents and developable lands. Green Acres WWTP wish to discontinue providing sewer treatment to the Green Acres Subdivision. Sewer effluent from Green Acres WWTP discharges to a tributary of Christian Fork. Solution Extension of existing sewer collection mains to unserved areas and construction of multiple lift stations. Connection of the Green Acres subdivision to the new extensions and abandonment of the existing Green Acres WWTP. Green Acres Consent Order #7731.
Points <input type="text" value="50.00"/>				
Rank <input type="text" value="78"/>	Salem, Town of County: <input type="text" value="Harrison"/> SRF #C: <input type="text" value="544541"/> NPDES #WV: <input type="text" value="0020257"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIA"/>	<input type="text" value="\$971,000"/>	<input type="text" value="\$1,971,000"/>	Problem Excessive inflow which is inundating the system causing permit exceedances. Solution Modification of existing system to remove the connection of approximately 27 catch basins which allows rain/surface water to inundate the collection system and overrun the treatment plant.
Points <input type="text" value="50.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="79"/>	Beverly, Town of County: <input type="text" value="Randolph"/> SRF #C: <input type="text" value="544336-02"/> NPDES #WV: <input type="text" value="0084000"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIA"/>	<input type="text" value="\$5,300,000"/>	<input type="text" value="\$6,905,390"/>	Problem Monthly flow at the POTW has been exceeding 90% of the design flow on a consistent basis. WVDEP's Permits Section mandated the Town to correct the situation. Plant has no redundancy equipment, some structures at treatment plant need replaced. Solution Eliminate all known sources of inflow. Sewage pumping stations will be rehabilitated for longer service life. Major upgrade of treatment plant to increase capacity. Some treatment units will be replaced/rehabilitated.
Points <input type="text" value="45.00"/>				
Rank <input type="text" value="80"/>	Bluefield Sanitary Board County: <input type="text" value="Mercer"/> SRF #C: <input type="text" value="544462"/> NPDES #WV: <input type="text" value="0023141"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,II,IIIB"/>	<input type="text" value="\$9,425,500"/>	<input type="text" value="\$9,425,500"/>	Problem The project will solve multiple problems and prevent other from occurring. The project replaces a section of interceptor sewer which has multiple sags and breaks which allows infiltration as well as requiring regular maintenance to prevent overflows. Replace a pump stations & treatment plant equipment that have reached the end of their design life. Solution A new interceptor sewer line will be installed along side the existing sewer line and reconnected on each end of the troublesome section. The treatment plant equipment (Influent pump station), Screening, Grit Removal, Disk Filters, Generators, and other associated work) will be replaced with newer technology in order to prevent unexpected failures.
Points <input type="text" value="45.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="81"/>	Culloden PSD County: <input type="text" value="Cabell"/> SRF #C: <input type="text" value="544360"/> NPDES #WV: <input type="text" value="0027731"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIA,IIIB"/>	<input type="text" value="\$1,336,163"/>	<input type="text" value="\$2,086,163"/>	Problem <p>The Culloden PSD has an aged wastewater collection system that allows a high percentage of I/I. Additionally the the Culloden PSD operates a lift station named Sovine that has regular maintenance issues with limited access.</p> Solution <p>The project will replace gravity sewer lines along Virginia Avenue which are believed to be a major contributor to the I/I problem. Additionally a new lift station will be built to replace the existing Sovine lift station providing better reliability and access.</p>
Points <input type="text" value="45.00"/>				
Rank <input type="text" value="82"/>	Greenbrier PSD #2 County: <input type="text" value="Greenbrier"/> SRF #C: <input type="text" value="544568"/> NPDES #WV: <input type="text" value="0040525"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIA"/>	<input type="text" value="\$8,640,000"/>	<input type="text" value="\$8,640,000"/>	Problem <p>The sanitary sewer system has not had a significant upgrades in almost 40 years. In need of upgrades, repairs and the I/I rate is now 49.98%. The project will provide I/I and remedial line project along with upgrades to the Wetted plant has seen flows exceeding 1.60 MGD. The plant needs a general overhaul/refurbishing.</p> Solution <p>This project will provide an I/I study and remedial line project along with upgrades to the WWTP. The project will also replace portions of the collection system in correcting the I/I into the aged collection system. The project will be phased detailed in the proposed Facility Plan.</p>
Points <input type="text" value="45.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="83"/>	Matewan, Town of County: <input type="text" value="Mingo"/> SRF #C: <input type="text" value="544482"/> NPDES #WV: <input type="text" value="0024783"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I"/>	<input type="text" value="\$3,160,000"/>	<input type="text" value="\$6,160,000"/>	Problem The existing RBC Wastewater Treatment Facility is not meeting discharge permit limits and is the subject of DEP Enforcement Action. Solution Upgrade the existing wastewater treatment facility to address more stringent discharge limits and comply with DEP requirements.
Points <input type="text" value="45.00"/>				
Rank <input type="text" value="84"/>	Vienna, City of County: <input type="text" value="Wood"/> SRF #C: <input type="text" value="544233"/> NPDES #WV: <input type="text" value="0023221"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$2,676,000"/>	<input type="text" value="\$2,676,000"/>	Problem Existing lift stations and package plant have maintenance issues. Solution Extending gravity sewers along 46th Street to Rosemar Road in order to eliminate a package plant serving an industrial complex and three smaller lift stations that serve residential developments.
Points <input type="text" value="45.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="85"/> Points <input type="text" value="45.00"/>	West Dunbar Public Service District County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544168"/> NPDES #WV: <input type="text" value="0089591"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIA,IIIB"/>	<input type="text" value="\$6,000,000"/>	<input type="text" value="\$7,500,000"/>	Problem Proposing to rehabilitate its system in order to reduce the storm weather flow at the Dunbar POTW. Solution Replace majority of the vitrified clay collection lines that are old & deteriorated beyond repair, rehabilitate some of the pumping stations and relocate 2 of the stations to a new location above 100-yr flood levels.
Rank <input type="text" value="86"/> Points <input type="text" value="45.00"/>	Williamson, City of County: <input type="text" value="Mingo"/> SRF #C: <input type="text" value="544544"/> NPDES #WV: <input type="text" value="0026271"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIB,IVA"/>	<input type="text" value="\$3,000,000"/>	<input type="text" value="\$4,024,000"/>	Problem Outdated & failing wastewater pumping stations, correction of structural issues at the existing wastewater treatment facility & extend service to (3) unserved customers. Solution Modifications to existing wastewater collection system, replace aged pumping stations, correct structural issues, and extend small collection system to add three customers to existing system.

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="87"/>	Canaan Valley PSD County: <input type="text" value="Davis"/> SRF #C: <input type="text" value="544560"/> NPDES #WV: <input type="text" value="0606011"/> Binding Date: <input type="text" value="3/31/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$2,350,000"/>	<input type="text" value="\$2,350,000"/>	Problem Areas of Deerfield, Windwood, Canaan Village, own and operate private sewer systems. These 3 systems suffer from deteriorating wastewater collection & treatment systems. Solution PSD to take over the treatment of flows from these communities. Install sewer lift stations at Deerfield facility and Windwood facility. Flow transported by way of a standard gravity flow system. Both lift stations will pump sewer flows through separate forcemains to County Route 35, combining into one force man to the plant.
Points <input type="text" value="40.00"/>				
Rank <input type="text" value="88"/>	Page Kincaid PSD County: <input type="text" value="Fayette"/> SRF #C: <input type="text" value="544508"/> NPDES #WV: <input type="text" value="0084425"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="XII"/>	<input type="text" value="\$904,211"/>	<input type="text" value="\$3,204,211"/>	Problem Unserved areas depend on private septic systems, which are often ineffective in treating the sewer due to the inability of the soils to percolate the effluent discharging from the septic tanks. Solution Construct a decentralized wastewater system for 52 customers in Robson area. install a STEP (Septic Tank Effluent Pump) and STEG (Septic Tank Effluent Gravity) system.
Points <input type="text" value="40.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="89"/>	Hancock County PSD County: <input type="text" value="Hancock"/> SRF #C: <input type="text" value="544431"/> NPDES #WV: <input type="text" value="0045136"/> Binding Date: <input type="text" value="9/30/2017"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$5,500,000"/>	<input type="text" value="\$6,300,000"/>	Problem Discharge of semi treated or not treated wastewater into the local waterways. Solution Project will serve 160 users along US Rt. 30 and WV-PA state line. Collected wastewater will be transported to the city of Chester POTW for treatment and final disposal. Collection system will be conventional gravity sewer with occasional sewage pumping stations.
Points <input type="text" value="35.00"/>				
Rank <input type="text" value="90"/>	Center PSD County: <input type="text" value="Wyoming"/> SRF #C: <input type="text" value="544268-01"/> NPDES #WV: <input type="text" value="0027138"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIA,IIIB"/>	<input type="text" value="\$2,165,900"/>	<input type="text" value="\$4,063,000"/>	Problem Inflow, Infiltration, and deterioration of the existing collection system that results in backups and overflows. Needed improvements at the WWTP to help reduce maintenance and operation costs. Solution Phase I - Replacement of approximately 1250 ft. of 15" pipe, 4,812 ft. of 12" pipe, and 38 existing manholes, install a rotary fan press, changing pre-treatment screens motor placement, and install a non-potable water system, (Work orders and PSC Case documenting issues and complaints).
Points <input type="text" value="25.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="91"/>	Enlarged Hepzibah PSD County: <input type="text" value="Harrison"/> SRF #C: <input type="text" value="544559"/> NPDES #WV: <input type="text" value="0021001"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IIIB,IVA,IVB"/>	<input type="text" value="\$2,720,000"/>	<input type="text" value="\$2,720,000"/>	Problem Two pump stations need to be replaced due to age and deterioration. Residences and businesses along Route 24 currently use septic tanks or HAU's to treat sanitary sewer. Solution Replace both pump stations at Pete Dry Golf Course with duplex submersible stations with concrete wet wells and valve vaults. Install a standard gravity sewer collection system to serve area residences & businesses, and 3 pump stations to convey sewer into the Spelter collection system.
Points <input type="text" value="25.00"/>				
Rank <input type="text" value="92"/>	Northern Wayne County PSD County: <input type="text" value="Wayne"/> SRF #C: <input type="text" value="544402"/> NPDES #WV: <input type="text" value="0089621"/> Binding Date: <input type="text" value="12/31/2018"/> Needs Category: <input type="text" value="IVA,IIIB"/>	<input type="text" value="\$2,771,311"/>	<input type="text" value="\$3,771,311"/>	Problem In the Dock Creek and Miller Creek drainage area major operational problems which can be attributed to high wastewater flow rates & high operating head conditions on the grinder pump units. Also a large industrial area and subdivision that is unserved. Solution Reroute the force main in the Pine Hills subdivision to a new sewage pumping station, construct a gravity sewer system to serve 90 to 95 unsewered homes, new service to 4 industries, pump the wastewater from this area to the Huntington WWTP for treatment.
Points <input type="text" value="25.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="93"/>	Sissonville PSD County: <input type="text" value="Kanawha"/> SRF #C: <input type="text" value="544570"/> NPDES #WV: <input type="text" value="0029530"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IIIB,IVA,IVB"/>	<input type="text" value="\$5,152,000"/>	<input type="text" value="\$5,152,000"/>	Problem Portions of the WWTP have reached the end of their useful life and need rehabilitated or replaced. The collection system experiences moderate to high rates of I/I; and some unserved residents within the service area have undersized or failing septic systems. Solution Upgrade wastewater treatment plant by making repairs, replacing old equipment, & making improvements; rehabilitate 6 lift stations by increasing capacity, decreasing O&M costs & time, & provide emergency power; extend collection system to serve 105 customers along Route 21, Wolfe Pen Road & Honaker Lane.
Points <input type="text" value="25.00"/>				
Rank <input type="text" value="94"/>	Buffalo Creek PSD County: <input type="text" value="Logan"/> SRF #C: <input type="text" value="544555"/> NPDES #WV: <input type="text" value="003851"/> Binding Date: <input type="text" value="6/30/2017"/> Needs Category: <input type="text" value="I,IVA,IVB"/>	<input type="text" value="\$13,839,000"/>	<input type="text" value="\$14,839,000"/>	Problem Increase the capacity of the WWTP for future extension projects. Due to DEP regulations , the existing RBC plant cannot be modified or expanded so a new plant will need to be constructed. Failing onsite treatment units are also a problem in the area. Solution Construction a new WWTP and extension of a centralized wastewater collection system in the areas of Taplin and Rita.
Points <input type="text" value="20.00"/>				

Rank / Points	Project	SRF Loan Amount	Total Costs	Problem / Solution
Rank <input type="text" value="95"/>	Crab Orchard-MacArthur PSD (Marsh Fork) County: <input type="text" value="Raleigh"/> SRF #C: <input type="text" value="544484"/> NPDES #WV: <input type="text" value="0082309"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="I,IVA,IVB"/>	<input type="text" value="\$15,500,000"/>	<input type="text" value="\$15,500,000"/>	Problem Failing onsite sewage treatment systems are polluting Marsh Fork of the Coal River. Existing Holly Hills WWTP has reached the end of its useful life and has reached capacity. Solution Extend gravity sewer system from Holly Hills WWTP to Glen Daniel, and replace existing WWTP with 175,000 gpd SBR treatment plant.
Points <input type="text" value="20.00"/>				
Rank <input type="text" value="96"/>	Lubeck PSD County: <input type="text" value="Wood"/> SRF #C: <input type="text" value="544072"/> NPDES #WV: <input type="text" value="0032590"/> Binding Date: <input type="text" value="6/30/2018"/> Needs Category: <input type="text" value="IVA,IVB"/>	<input type="text" value="\$312,000"/>	<input type="text" value="\$2,312,000"/>	Problem Two unserved commercial customers in the Washington Bottom area. Solution Extend service to the 2 potential customers by connection to the existing Lubeck PSD system with approximately 5,000 ft. of 10" and smaller diameter gravity pipe, 15,210 ft. of 5" and small diameter force main, 19 manholes, 1 major pumping station, 1 duplex grinder pumping station, service laterals and other related appurtenances.
Points <input type="text" value="20.00"/>				

APPENDIX B

PROPOSED BINDING COMMITMENTS
BY QUARTER

Appendix B - Binding Commitments and Cash Draw Proportionality
 Projects Budgeted for the Federal FY 2017 Grant

Name	Project Scope	Proj Num C-544___	Activity Code	State Fiscal Year 2018 (\$1,000)			
				1st Qtr July-Sept	2nd Qtr Oct-Dec	3rd Qtr Jan-Mar	4th Qtr Apr-June
Greater Harrison Co. PSD	New WWTP/Ext.	451	D3		\$10,878		
Hancock Co. PSD	Line Ext.	431	D3	\$5,500			
Oak Hill	WWTP Upgrade	535	D2		\$14,000		
DEP Administration*	n/a	n/a	n/a		\$0		
Total Projects and Admin				\$5,500	\$24,878	\$0	\$0

Federal Share (0.8333)				\$4,583	\$20,731	\$0	\$0	\$25,314
State Share (0.1667)				\$917	\$4,147	\$0	\$0	\$5,064
Total**				\$5,500	\$24,878	\$0	\$0	\$30,378

Payment Schedule for the CWSRF Program: CS-540001-17

Federal Quarter	Payment Date	CWSRF Amount	Cumulative Amount
		\$25,000,000	\$25,000,000

Activity Codes

P - facilities planning underway

D - design underway

D2 - design under review at DEP

D3 - design approved by DEP/bid process underway

* No administrative costs will be used in this grant.

** Any amounts exceeding the grant amount will come from repayments.

APPENDIX C

PROJECTS BUDGETED
FOR IUP AVAILABLE FUNDS

Appendix C - Projects Budgeted for the Intended Use Plan Available Funds

Name	Project Scope	Proj Num C-544__	Activity Code	State Fiscal Year 2018 (\$1,000)			
				1st Qtr July-Sept	2nd Qtr Oct-Dec	3rd Qtr Jan-Mar	4th Qtr Apr-June
Belle	WWTP Upgrade	177-04	D3	\$4,045			
Benwood	CSO	531	D2			\$2,000	
Central Boaz	WWTP & Coll. Sys. Upgrade	59	D3	\$2,995			
Chapmanville	WWTP Upgrade	483-01	D3		\$7,930		
Greater Harrison Co. PSD	New WWTP/Sewer Ext.	451	D3		\$10,878		
Hancock Co. PSD	Sewer Extension	431	D2				\$5,500
Harpers Ferry-Bolivar PSD	WWTP & Coll. Sys. Upgrade	504	D3	\$2,600			
Montgomery	PS Upgrade	297	D2		\$782		
Oak Hill	WWTP Upgrade	535	D3		\$14,000		
Oceana	WWTP Upgrade	525-02	D2				\$5,370
DEP Administration	n/a	n/a	n/a		\$0		
NPS - Agriculture	various	n/a	n/a	\$25	\$25	\$25	\$25
NPS - Onsite	various	n/a	n/a	\$300			
Sub-total				\$9,965	\$33,615	\$2,025	\$10,895
						Grand total	\$56,500

The projects identified above are forecasted based upon the known current status of the project and individual knowledge as to readiness to proceed to construction within six months of receiving a binding commitment. Other projects not identified here may also receive a binding commitment if they proceed on a faster pace than expected or receive funding commitments from other agencies which requires a CWSRF commitment.

Activity Codes

- P - facilities planning underway
- D - design underway
- D2 - design under review at DEP
- D3 - design approved by DEP/bid process underway
- R - refinancing

APPENDIX D

PUBLIC HEARING
SUMMARY

MEETING SIGN-IN SHEET

Project: CWSRF FY2018 Intended Use Plan Public Hearing

Meeting Date: June 2 1:30am

Facilitator: Kathy Emery

Place/Room: WVDEP
DOLLY SODS CONFERENCE ROOM

Name	Company	Phone	E-Mail
Sannee Lee	Jackson Kelly LLC	3043401345	sjk@jacksonkelly.com
Kathy Emery	WV DEP		
Kimberly Anderson	WV DEP		
Tina Hall	WV DEP	926-0466 X1603	jtingley@wv.gov
John Tingley	WV DEP	926-0466 X1603	jtingley@wv.gov
Carrie Gerium	TRIAD ENGINEERING	304/755-0721	carium@triadeng.com
Jesse Brady	WV DEP	926 0499 X1611	
Suzi Anderson	WV DEP		

Clean Water State Revolving Fund
FY2018 Intended Use Plan
Public Hearing Minutes

Kathy Emery

It is 1:40 on Friday, June 2nd and this is for the public hearing of the CWSRF FY2018 Intended Use Plan(IUP). We have one member of the public present at our meeting.

To briefly cover the highlights and changes in our FY2018 IUP, if you look at page 4, it's got an estimated grant amount from EPA at this point and time. We do not have the final numbers, so this is what was done to move the FY2018 IUP forward. I am anticipating that number to slide down to \$20-\$21 million dollars and at that point it will change the highlighted section at the bottom of the page and we will update that with what we anticipate applying for, for our state match. We will not be able to do that until we have a final grant number.

Per comments from EPA we will be adjusting one of our Short-Term Goals to acknowledge our efforts with biological nutrient removal at several of our Tygart River watershed waste water treatment plants.

The largest change in the IUP is the change in interest rates for upcoming projects. This was noticed in our FY2017 IUP. We've moved from 3 tier to 4 tier interest rates. We changed our gallons of monthly water usage from 4,000 to 3,400 gallons and are moving to the 2015 Census Data as published by American Fact Finder.

Underneath the additional subsidization, that is also subject to change once we get our final grant amount. I used the data from the same formulas that EPA gave us in last year's grant award. We used 20% of our grant for debt forgiveness funding. I will update that as well whenever EPA awards our grant.

Our point system did not change for eligibility for debt forgiveness. What did change with that was the update to the 2015 Census data and the move from 4,000 to 3,400 gallons water usage. We updated our unemployment chart to data published as of May 2016, by Workforce West Virginia. We also updated the population trends chart with data available from calendar years 2013 to 2015 to have more recent data.

The point system did not change. You are still eligible for the lesser of 50% of eligible projects costs, or 1 million dollars in principal forgiveness if you achieve 60 points or the lesser of 100% of eligible project costs; \$1,500,000 in principal forgiveness if you receive 90 points.

Green project reserves should still be in effect with the upcoming grant award. Last year's grant required not less than 10% of the funds be used to address green infrastructure projects. I kept that statement in here. If that is changed in the upcoming grant award it will be updated as well.

The amount of principal forgiveness available for energy efficiency, water efficiency and storm water projects did not change and neither did the option to receive up to 100% in principal forgiveness for decentralized sewer systems underneath the Environmental Innovative category.

We are also still offering the prebid debt forgiveness costs to be paid up front for decentralized sewer system projects only. If the project meets the criteria within those 7 items and it appears it will proceed for advertising for bids in 12 to 18 months of receiving the funds.

Our Administrative Fee account, our budget for that is approximately \$2.2 million dollars a year. It also funds the DEP Project WET position. A couple of changes this year were that we used \$250,000 of that to match an ARC Grant for the Region I Planning & Development Council to do system wide GIS mapping of communities within the Region I & Region IV Planning Development areas and we also funded a technical assistance position with the WV Rural Water Association that will provide technical and project support to local communities. In addition to that, that position will provide Asset Management support and educate local utilities on energy and water efficiency technologies.

We still have not set a limit for a maximum allowable loan. The Ban Leveraging program is still in place as well as the 30-year and 40-year Bond options. And as always, to receive a binding commitment, the project needs to be able to close within 6 months and have an approved facility plan and plans and specifications. We will also consider the status of right-of-ways and other items on the prebid checklist during the binding commitment process.

Our Agriculture Water Quality Loan Program and On-Site Systems Loan Program are still in place with no changes.

On page 15 underneath the federal requirements we selected a small number of projects that amount to, or slightly exceed the amount of our federal Cap Grant to be our equivalency projects that are subject to all federal requirements such as the Single Audit Act or for FFATA or other requirements. The total number of projects right now is at \$30,378,000. That was assuming up to a \$25,000,000 EPA grant. If it drops to down to \$20 or \$21 million then the projects that will be chosen will be Oak Hill and Greater Harrison County PSD.

That concludes the summary of the updates and changes to the 2018 IUP. Are there any questions or comments? If none, then this concludes the hearing on the FY2018 IUP.

APPENDIX E

MEDIAN HOUSEHOLD INCOME BY
COUNTY AND MAGISTERIAL DISTRICT

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
COUNTY & MAGISTERIAL DISTRICTS**

County/Magisterial District	Median HH Income			
		1.50%	1.75%	2.00%
Barbour	37,066	46.33	54.05	61.78
North district	30,994	38.74	45.20	51.66
South district	39,421	49.28	57.49	65.70
West district	45,206	56.51	65.93	75.34
Berkeley	55,239	69.05	80.56	92.07
Adam Stephens district	35,137	43.92	51.24	58.56
Norborne district	73,240	91.55	106.81	122.07
Potomac district	56,184	70.23	81.94	93.64
Shenandoah district	57,319	71.65	83.59	95.53
Tuscarora district	55,729	69.66	81.27	92.88
Valley district	56,250	70.31	82.03	93.75
Boone	39,958	49.95	58.27	66.60
District 1	38,725	48.41	56.47	64.54
District 2	40,042	50.05	58.39	66.74
District 3	41,075	51.34	59.90	68.46
Braxton	32,750	40.94	47.76	54.58
Eastern district	31,583	39.48	46.06	52.64
Northern district	38,832	48.54	56.63	64.72
Southern district	31,946	39.93	46.59	53.24
Western district	32,563	40.70	47.49	54.27
Brooke	46,215	57.77	67.40	77.03
Follansbee district	48,375	60.47	70.55	80.63
Weirton district	46,887	58.61	68.38	78.15
Wellsburg district	41,804	52.26	60.96	69.67
Cabell	38,344	47.93	55.92	63.91
District 1	38,410	48.01	56.01	64.02
District 2	23,014	28.77	33.56	38.36
District 3	29,743	37.18	43.38	49.57
District 4	46,574	58.22	67.92	77.62
District 5	48,610	60.76	70.89	81.02
Calhoun	35,568	44.46	51.87	59.28
District 1	31,300	39.13	45.65	52.17
District 2	32,222	40.28	46.99	53.70
District 3	42,390	52.99	61.82	70.65
District 4	41,111	51.39	59.95	68.52
District 5	33,885	42.36	49.42	56.48
Clay	31,325	39.16	45.68	52.21
District A	34,688	43.36	50.59	57.81
District B	25,383	31.73	37.02	42.31
District C	33,446	41.81	48.78	55.74
Doddridge	39,974	49.97	58.30	66.62

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
COUNTY & MAGISTERIAL DISTRICTS**

County/Magisterial District	Median HH Income			
		1.50%	1.75%	2.00%
Beech district	42,875	53.59	62.53	71.46
Maple district	39,301	49.13	57.31	65.50
Oak district	45,363	56.70	66.15	75.61
Pine district	34,750	43.44	50.68	57.92
Fayette	36,293	45.37	52.93	60.49
New Haven district	38,339	47.92	55.91	63.90
Plateau district	34,320	42.90	50.05	57.20
Valley district	34,683	43.35	50.58	57.81
Gilmer	37,536	46.92	54.74	62.56
Center district	34,148	42.69	49.80	56.91
City district	33,315	41.64	48.58	55.53
De Kalb - Troy district	39,259	49.07	57.25	65.43
Glenville district	40,673	50.84	59.31	67.79
Grant	39,088	48.86	57.00	65.15
Grant district	44,146	55.18	64.38	73.58
Milroy district	32,102	40.13	46.82	53.50
Union district	37,805	47.26	55.13	63.01
Greenbrier	39,746	49.68	57.96	66.24
Central district	44,606	55.76	65.05	74.34
Eastern district	37,617	47.02	54.86	62.70
Western district	36,543	45.68	53.29	60.91
Hampshire	27,995	34.99	40.83	46.66
Bloomery district	33,591	41.99	48.99	55.99
Capon district	25,578	31.97	37.30	42.63
Gore district	30,995	38.74	45.20	51.66
Mill Creek district	35,595	44.49	51.91	59.33
Romney district	29,375	36.72	42.84	48.96
Sherman district	23,739	29.67	34.62	39.57
Springfield district	29,926	37.41	43.64	49.88
Hancock	39,959	49.95	58.27	66.60
Butler district	42,852	53.57	62.49	71.42
Clay district	38,306	47.88	55.86	63.84
Grant district	39,258	49.07	57.25	65.43
Hardy	40,303	50.38	58.78	67.17
Capon district	37,344	46.68	54.46	62.24
Lost River district	52,159	65.20	76.07	86.93
Moorefield district	37,313	46.64	54.41	62.19
Old Fields district	32,454	40.57	47.33	54.09
South Fork district	40,595	50.74	59.20	67.66
Harrison	43,987	54.98	64.15	73.31
Eastern district	60,777	75.97	88.63	101.30

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
COUNTY & MAGISTERIAL DISTRICTS**

County/Magisterial District	Median HH Income			
		1.50%	1.75%	2.00%
Northern district	39,554	49.44	57.68	65.92
North Urban district	31,951	39.94	46.60	53.25
Southern district	46,911	58.64	68.41	78.19
South Urban district	44,450	55.56	64.82	74.08
Southwest district	41,443	51.80	60.44	69.07
Jackson	41,314	51.64	60.25	68.86
Eastern district	35,275	44.09	51.44	58.79
Northern district	32,016	40.02	46.69	53.36
Western district	56,220	70.28	81.99	93.70
Jefferson	66,677	83.35	97.24	111.13
Charles Town district	51,318	64.15	74.84	85.53
Harpers Ferry district	66,920	83.65	97.59	111.53
Kabletown district	90,929	113.66	132.60	151.55
Middleway district	60,354	75.44	88.02	100.59
Shepherdstown district	75,274	94.09	109.77	125.46
Kanawha	45,882	57.35	66.91	76.47
District 1	40,602	50.75	59.21	67.67
District 2	51,167	63.96	74.62	85.28
District 3	48,819	61.02	71.19	81.37
District 4	42,912	53.64	62.58	71.52
Lewis	37,849	47.31	55.20	63.08
Courthouse - Collins Settlement district	34,452	43.07	50.24	57.42
Freemans Creek district	36,160	45.20	52.73	60.27
Hackers Creek - Skin Creek district	43,981	54.98	64.14	73.30
Lincoln	35,800	44.75	52.21	59.67
Carroll district (2012)	38,348	47.94	55.92	63.91
Duval district (2012)	34,256	42.82	49.96	57.09
Harts district (2012)	37,431	46.79	54.59	62.39
Jefferson district (2011)	25,417	31.77	37.07	42.36
Laurel Hill district (2012)	29,010	36.26	42.31	48.35
Sheridan district (2012)	30,347	37.93	44.26	50.58
Union district (2011)	33,826	42.28	49.33	56.38
Washington district (2012)	33,196	41.50	48.41	55.33
Logan	36,763	45.95	53.61	61.27
Central district	36,569	45.71	53.33	60.95
Eastern district	39,054	48.82	56.95	65.09
Western district	34,975	43.72	51.01	58.29
Marion	43,165	53.96	62.95	71.94
Middletown district	34,750	43.44	50.68	57.92
Palatine district	53,678	67.10	78.28	89.46
West Augusta district	42,347	52.93	61.76	70.58

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
COUNTY & MAGISTERIAL DISTRICTS**

County/Magisterial District	Median HH Income			
		1.50%	1.75%	2.00%
Marshall	45,182	56.48	65.89	75.30
District 1	48,181	60.23	70.26	80.30
District 2	37,885	47.36	55.25	63.14
District 3	47,977	59.97	69.97	79.96
Mason	36,448	45.56	53.15	60.75
Arbuckle district	45,844	57.31	66.86	76.41
Clendenin district	32,616	40.77	47.57	54.36
Cologne district	25,132	31.42	36.65	41.89
Cooper district	54,623	68.28	79.66	91.04
Graham district	34,525	43.16	50.35	57.54
Hannan district	22,178	27.72	32.34	36.96
Lewis district	35,930	44.91	52.40	59.88
Robinson district	40,417	50.52	58.94	67.36
Union district	50,977	63.72	74.34	84.96
Waggener district	36,265	45.33	52.89	60.44
McDowell	24,921	31.15	36.34	41.54
Big Creek district	24,558	30.70	35.81	40.93
Browns Creek district	26,263	32.83	38.30	43.77
North Elkin district	30,069	37.59	43.85	50.12
Sandy River district	19,844	24.81	28.94	33.07
Mercer	36,195	45.24	52.78	60.33
District I	33,933	42.42	49.49	56.56
District II	37,309	46.64	54.41	62.18
District III	36,775	45.97	53.63	61.29
Mineral	31,790	39.74	46.36	52.98
District 1	30,985	38.73	45.19	51.64
District 2	26,837	33.55	39.14	44.73
District 3	38,157	47.70	55.65	63.60
Mingo	33,221	41.53	48.45	55.37
Beech Ben Mate district	28,284	35.36	41.25	47.14
Kermit Harvey district	36,288	45.36	52.92	60.48
Lee district	30,676	38.35	44.74	51.13
Magnolia district	28,780	35.98	41.97	47.97
Stafford district	29,560	36.95	43.11	49.27
Tug Hardee district	48,723	60.90	71.05	81.21
Williamson district	34,827	43.53	50.79	58.05
Monongalia	45,467	56.83	66.31	75.78
Central district	33,539	41.92	48.91	55.90
Eastern district	50,876	63.60	74.19	84.79
Western district	48,735	60.92	71.07	81.23
Monroe	36,918	46.15	53.84	61.53

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
COUNTY & MAGISTERIAL DISTRICTS**

County/Magisterial District	Median HH Income			
		1.50%	1.75%	2.00%
Central district	39,000	48.75	56.88	65.00
Eastern district	34,383	42.98	50.14	57.31
Western district	38,010	47.51	55.43	63.35
Morgan	39,324	49.16	57.35	65.54
District 1	33,426	41.78	48.75	55.71
District 2	39,255	49.07	57.25	65.43
District 3	43,643	54.55	63.65	72.74
Nicholas	39,171	48.96	57.12	65.29
Beaver district	31,233	39.04	45.55	52.06
Grant district (2014)	48,171	60.21	70.25	80.29
Hamilton district	44,736	55.92	65.24	74.56
Jefferson district	35,817	44.77	52.23	59.70
Kentucky district	46,441	58.05	67.73	77.40
Summersville district	41,791	52.24	60.95	69.65
Wilderness district	44,833	56.04	65.38	74.72
Ohio	40,569	50.71	59.16	67.62
District 1	47,810	59.76	69.72	79.68
District 2	32,878	41.10	47.95	54.80
District 3	44,553	55.69	64.97	74.26
Pendleton	36,953	46.19	53.89	61.59
Central district	36,380	45.48	53.05	60.63
Eastern district	41,458	51.82	60.46	69.10
Western district	31,641	39.55	46.14	52.74
Pleasants	44,288	55.36	64.59	73.81
District A	42,727	53.41	62.31	71.21
District B	42,239	52.80	61.60	70.40
District C	40,439	50.55	58.97	67.40
District D	54,643	68.30	79.69	91.07
Pocahontas	36,827	46.03	53.71	61.38
Edray district	39,479	49.35	57.57	65.80
Greenbank district	32,569	40.71	47.50	54.28
Huntersville district	32,727	40.91	47.73	54.55
Little Levels district	39,537	49.42	57.66	65.90
Preston	45,064	56.33	65.72	75.11
Fifth district	45,050	56.31	65.70	75.08
First district	44,920	56.15	65.51	74.87
Fourth district	43,295	54.12	63.14	72.16
Second district	51,804	64.76	75.55	86.34
Third district	40,644	50.81	59.27	67.74
Putnam	56,774	70.97	82.80	94.62
Buffalo - Union district	46,288	57.86	67.50	77.15

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
COUNTY & MAGISTERIAL DISTRICTS**

County/Magisterial District	Median HH Income			
		1.50%	1.75%	2.00%
Curry district	46,275	57.84	67.48	77.13
Pocatalico district	44,982	56.23	65.60	74.97
Scott district	62,282	77.85	90.83	103.80
Teays district	76,175	95.22	111.09	126.96
Raleigh	41,032	51.29	59.84	68.39
District 1	41,317	51.65	60.25	68.86
District 2	37,351	46.69	54.47	62.25
District 3	44,367	55.46	64.70	73.95
Randolph	39,457	49.32	57.54	65.76
Beverly district	41,200	51.50	60.08	68.67
Dry Fork district	32,614	40.77	47.56	54.36
Huttonsville district	29,545	36.93	43.09	49.24
Leadsville district	40,971	51.21	59.75	68.29
Middle Fork district	37,009	46.26	53.97	61.68
Mingo district	42,736	53.42	62.32	71.23
New Interest district	54,688	68.36	79.75	91.15
Roaring Creek district	36,842	46.05	53.73	61.40
Valley Bend district	38,810	48.51	56.60	64.68
Ritchie	37,636	47.05	54.89	62.73
Clay district	37,153	46.44	54.18	61.92
Grant district	37,333	46.67	54.44	62.22
Murphy district	42,303	52.88	61.69	70.51
Union district	37,171	46.46	54.21	61.95
Roane	31,813	39.77	46.39	53.02
District 1	37,549	46.94	54.76	62.58
District 2	28,727	35.91	41.89	47.88
District 3	32,699	40.87	47.69	54.50
Summers	36,651	45.81	53.45	61.09
Bluestone River district	34,125	42.66	49.77	56.88
Greenbrier River district	37,913	47.39	55.29	63.19
New River district	37,056	46.32	54.04	61.76
Taylor	43,970	54.96	64.12	73.28
Eastern district	38,338	47.92	55.91	63.90
Tygart district	39,833	49.79	58.09	66.39
Western district	55,305	69.13	80.65	92.18
Tucker	40,533	50.67	59.11	67.56
Black Fork district	41,281	51.60	60.20	68.80
Clover district	27,750	34.69	40.47	46.25
Davis district	38,750	48.44	56.51	64.58
Dry Fork district	47,000	58.75	68.54	78.33
Fairfax district	37,344	46.68	54.46	62.24

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
COUNTY & MAGISTERIAL DISTRICTS**

County/Magisterial District	Median HH Income			
		1.50%	1.75%	2.00%
Licking district (2014)	8,676	10.85	12.65	14.46
St. George district	27,016	33.77	39.40	45.03
Tyler	38,854	48.57	56.66	64.76
Central district	37,708	47.14	54.99	62.85
North district	41,397	51.75	60.37	69.00
South district	35,294	44.12	51.47	58.82
West district	40,833	51.04	59.55	68.06
Upshur	40,330	50.41	58.81	67.22
First district	37,524	46.91	54.72	62.54
Second district	39,080	48.85	56.99	65.13
Third district	43,613	54.52	63.60	72.69
Wayne	36,318	45.40	52.96	60.53
Butler district	43,936	54.92	64.07	73.23
Ceredo district	36,822	46.03	53.70	61.37
Stonewall district	28,829	36.04	42.04	48.05
Union district	30,814	38.52	44.94	51.36
Westmoreland district	42,880	53.60	62.53	71.47
Webster	29,086	36.36	42.42	48.48
Central district	27,632	34.54	40.30	46.05
Northern district	28,415	35.52	41.44	47.36
Southern district	34,330	42.91	50.06	57.22
Wetzel	39,096	48.87	57.02	65.16
District 1	34,025	42.53	49.62	56.71
District 2	43,036	53.80	62.76	71.73
District 3	40,039	50.05	58.39	66.73
Wirt	39,352	49.19	57.39	65.59
Central district	38,269	47.84	55.81	63.78
Northeast district	36,875	46.09	53.78	61.46
Southwest district	44,375	55.47	64.71	73.96
Wood	41,884	52.36	61.08	69.81
Clay district	47,452	59.32	69.20	79.09
Harris district	38,657	48.32	56.37	64.43
Lubeck district	49,139	61.42	71.66	81.90
Parkersburg district	35,098	43.87	51.18	58.50
Slate district	61,463	76.83	89.63	102.44
Steele district	37,813	47.27	55.14	63.02
Tygart district	30,420	38.03	44.36	50.70
Union district	50,288	62.86	73.34	83.81
Walker district	23,988	29.99	34.98	39.98
Williams district	55,439	69.30	80.85	92.40
Wyoming	33,730	42.16	49.19	56.22

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
COUNTY & MAGISTERIAL DISTRICTS**

County/Magisterial District	Median HH Income			
		1.50%	1.75%	2.00%
District 1	36,620	45.78	53.40	61.03
District 2	27,009	33.76	39.39	45.02
District 3	34,583	43.23	50.43	57.64

Source: US Census Bureau American Fact Finder

http://factfinder2.census.gov/faces/nav/jsf/pages/guided_search.xhtml

APPENDIX E1

MEDIAN HOUSEHOLD INCOME BY
MUNICIPALITY

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
MUNICIPALITIES**

MUNICIPALITIES	Median HH Income	Average Bill based on % MHI		
		1.50%	1.75%	2.00%
A				
Addison (Webster Springs), town	35,595	44.49	51.91	59.33
Albright, town	28,438	35.55	41.47	47.40
Alderson , town	24,643	30.80	35.94	41.07
Anawalt, town	24,219	30.27	35.32	40.37
Anmoore, town	26,429	33.04	38.54	44.05
Ansted, town	41,000	51.25	59.79	68.33
Athens, town	33,542	41.93	48.92	55.90
Auburn, town (2014)	17,083	21.35	24.91	28.47
B				
Bancroft, town	75,278	94.10	109.78	125.46
Barboursville, village	39,068	48.84	56.97	65.11
Barrackville, town	47,344	59.18	69.04	78.91
Bath (Berkeley Springs), town	36,250	45.31	52.86	60.42
Bayard, town	31,875	39.84	46.48	53.13
Beckley, city	34,944	43.68	50.96	58.24
Beech Bottom, village	39,464	49.33	57.55	65.77
Belington, town	34,438	43.05	50.22	57.40
Belle, town	44,583	55.73	65.02	74.31
Belmont, city	39,375	49.22	57.42	65.63
Benwood, city	29,276	36.60	42.69	48.79
Bethany, town	56,364	70.46	82.20	93.94
Bethlehem, village	63,587	79.48	92.73	105.98
Beverly, town	22,917	28.65	33.42	38.20
Blacksville, town	46,250	57.81	67.45	77.08
Bluefield, city	34,972	43.72	51.00	58.29
Bolivar, town	49,236	61.55	71.80	82.06
Bradshaw, town	28,750	35.94	41.93	47.92
Bramwell, town	40,417	50.52	58.94	67.36
Brandonville, town	64,286	80.36	93.75	107.14
Bridgeport, city	79,324	99.16	115.68	132.21
Bruceton Mills, town	45,179	56.47	65.89	75.30
Buckhannon, city	30,833	38.54	44.96	51.39
Buffalo, town	37,115	46.39	54.13	61.86
Burnsville, town	34,000	42.50	49.58	56.67
C				
Cairo, town	32,500	40.63	47.40	54.17
Camden-on-Gauley, town	27,500	34.38	40.10	45.83
Cameron, city	31,250	39.06	45.57	52.08
Capon Bridge, town	27,500	34.38	40.10	45.83
Carpendale, town	39,659	49.57	57.84	66.10
Cedar Grove, town	38,958	48.70	56.81	64.93
Ceredo, city	41,146	51.43	60.00	68.58

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
MUNICIPALITIES**

MUNICIPALITIES	Median HH Income	Average Bill based on % MHI		
		1.50%	1.75%	2.00%
Chapmanville, town	34,469	43.09	50.27	57.45
Charleston, city	48,442	60.55	70.64	80.74
Charles Town, city	59,483	74.35	86.75	99.14
Chesapeake, town	40,286	50.36	58.75	67.14
Chester, city	34,508	43.14	50.32	57.51
Clarksburg, city	37,036	46.30	54.01	61.73
Clay, town	24,073	30.09	35.11	40.12
Clearview, village	60,625	75.78	88.41	101.04
Clendenin, town	42,461	53.08	61.92	70.77
Cowen, town	35,240	44.05	51.39	58.73
D				
Danville, town	26,875	33.59	39.19	44.79
Davis, town	36,250	45.31	52.86	60.42
Davy, town	23,667	29.58	34.51	39.45
Delbarton, town	30,833	38.54	44.96	51.39
Dunbar, city	41,287	51.61	60.21	68.81
Durbin, town	31,477	39.35	45.90	52.46
E				
East Bank, town	52,083	65.10	75.95	86.81
Eleanor, town	51,414	64.27	74.98	85.69
Elizabeth, town	31,691	39.61	46.22	52.82
Elk Garden, town	17,813	22.27	25.98	29.69
Elkins, city	38,214	47.77	55.73	63.69
Ellenboro, town	35,694	44.62	52.05	59.49
F				
Fairmont, city	36,086	45.11	52.63	60.14
Fairview, town	34,583	43.23	50.43	57.64
Falling Spring, town	55,000	68.75	80.21	91.67
Farmington, town	46,518	58.15	67.84	77.53
Fayetteville, town	36,429	45.54	53.13	60.72
Flatwoods, town	30,625	38.28	44.66	51.04
Flemington, town	30,417	38.02	44.36	50.70
Follansbee, city	51,144	63.93	74.59	85.24
Fort Gay, town	12,454	15.57	18.16	20.76
Franklin, town	42,361	52.95	61.78	70.60
Friendly, town	23,929	29.91	34.90	39.88
G				
Gary, city	31,667	39.58	46.18	52.78
Gassaway, town	34,375	42.97	50.13	57.29
Gauley Bridge, town	37,344	46.68	54.46	62.24
Gilbert, town	43,333	54.17	63.19	72.22
Glasgow, town	41,648	52.06	60.74	69.41
Glen Dale, city	52,262	65.33	76.22	87.10

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
MUNICIPALITIES**

MUNICIPALITIES	Median HH Income	Average Bill based on % MHI		
		1.50%	1.75%	2.00%
Glennville, town	30,474	38.09	44.44	50.79
Grafton, city	34,844	43.56	50.81	58.07
Grantsville, town	28,646	35.81	41.78	47.74
Grant Town, town	33,750	42.19	49.22	56.25
Granville, town	32,242	40.30	47.02	53.74
H				
Hambleton, town	26,250	32.81	38.28	43.75
Hamlin, town	36,250	45.31	52.86	60.42
Handley, town	35,250	44.06	51.41	58.75
Harman, town	28,750	35.94	41.93	47.92
Harpers Ferry, town	65,714	82.14	95.83	109.52
Harrisville, town	40,900	51.13	59.65	68.17
Hartford City, town	33,625	42.03	49.04	56.04
Hedgesville, town	55,938	69.92	81.58	93.23
Henderson, town	25,250	31.56	36.82	42.08
Hendricks, town	45,000	56.25	65.63	75.00
Hillsboro, town	27,614	34.52	40.27	46.02
Hinton, city	31,019	38.77	45.24	51.70
Hundred, town	32,778	40.97	47.80	54.63
Huntington, city	29,873	37.34	43.56	49.79
Hurricane, city	52,347	65.43	76.34	87.25
Huttonsville, town	27,396	34.25	39.95	45.66
I				
laeger, town	20,313	25.39	29.62	33.86
J				
Jane Lew, town	34,464	43.08	50.26	57.44
Junior, town	32,222	40.28	46.99	53.70
K				
Kenova, city	32,140	40.18	46.87	53.57
Kermit, town	48,333	60.42	70.49	80.56
Keyser, city	24,450	30.56	35.66	40.75
Keystone, city	22,125	27.66	32.27	36.88
Kimball, town	38,250	47.81	55.78	63.75
Kingwood, city	44,886	56.11	65.46	74.81
L				
Leon, town	31,786	39.73	46.35	52.98
Lester, town	43,750	54.69	63.80	72.92
Lewisburg, city	49,904	62.38	72.78	83.17
Logan, city	29,712	37.14	43.33	49.52
Lost Creek, town	53,250	66.56	77.66	88.75
Lumberport, town	38,750	48.44	56.51	64.58
M				
Mabscott, town	54,856	68.57	80.00	91.43

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
MUNICIPALITIES**

MUNICIPALITIES	Median HH Income	Average Bill based on % MHI		
		1.50%	1.75%	2.00%
McMechen, city	41,000	51.25	59.79	68.33
Madison, city	46,559	58.20	67.90	77.60
Man, town	55,250	69.06	80.57	92.08
Mannington, city	43,750	54.69	63.80	72.92
Marlinton, town	28,633	35.79	41.76	47.72
Marmet, city	36,382	45.48	53.06	60.64
Martinsburg, city	37,843	47.30	55.19	63.07
Mason, town	33,859	42.32	49.38	56.43
Masontown, town	46,488	58.11	67.80	77.48
Matewan, town	14,135	17.67	20.61	23.56
Matoaka, town	26,875	33.59	39.19	44.79
Meadow Bridge, town	35,192	43.99	51.32	58.65
Middlebourne, town	31,250	39.06	45.57	52.08
Mill Creek, town	29,702	37.13	43.32	49.50
Milton, town	35,500	44.38	51.77	59.17
Mitchell Heights, town	64,583	80.73	94.18	107.64
Monongah, town	36,739	45.92	53.58	61.23
Montgomery, city	24,716	30.90	36.04	41.19
Montrose, town	58,125	72.66	84.77	96.88
Moorefield, town	32,775	40.97	47.80	54.63
Morgantown, city	34,090	42.61	49.71	56.82
Moundsville, city	34,628	43.29	50.50	57.71
Mount Hope, city	21,218	26.52	30.94	35.36
Mullens, city	43,942	54.93	64.08	73.24
N				
Newburg, town	46,875	58.59	68.36	78.13
New Cumberland, city	25,045	31.31	36.52	41.74
New Haven, town	36,750	45.94	53.59	61.25
New Martinsville, city	40,039	50.05	58.39	66.73
Nitro, city	43,434	54.29	63.34	72.39
Northfork, town	31,786	39.73	46.35	52.98
North Hills, town	92,344	115.43	134.67	153.91
Nutter Fort, town	39,583	49.48	57.73	65.97
O				
Oak Hill, city	39,316	49.15	57.34	65.53
Oakvale, town (2014)	25,625	32.03	37.37	42.71
Oceana, town	29,125	36.41	42.47	48.54
P				
Paden City, city	35,898	44.87	52.35	59.83
Parkersburg, city	31,876	39.85	46.49	53.13
Parsons, city	35,450	44.31	51.70	59.08
Paw Paw, town	29,821	37.28	43.49	49.70
Pax, town	33,625	42.03	49.04	56.04

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
MUNICIPALITIES**

MUNICIPALITIES	Median HH Income	Average Bill based on % MHI		
		1.50%	1.75%	2.00%
Pennsboro, city	29,038	36.30	42.35	48.40
Petersburg, city	31,792	39.74	46.36	52.99
Peterstown, town	34,875	43.59	50.86	58.13
Philippi, city	21,698	27.12	31.64	36.16
Piedmont, town	22,353	27.94	32.60	37.26
Pine Grove, town	19,750	24.69	28.80	32.92
Pineville, town	53,375	66.72	77.84	88.96
Pleasant Valley, city	45,563	56.95	66.45	75.94
Poca, town	49,464	61.83	72.14	82.44
Point Pleasant, city	31,827	39.78	46.41	53.05
Pratt, town	48,472	60.59	70.69	80.79
Princeton, city	30,856	38.57	45.00	51.43
Pullman, town	17,917	22.40	26.13	29.86
Q				
Quinwood, town	24,063	30.08	35.09	40.11
R				
Rainelle, town	25,000	31.25	36.46	41.67
Ranson Town, corporation of	43,464	54.33	63.39	72.44
Ravenswood, city	30,546	38.18	44.55	50.91
Reedsville, town	34,943	43.68	50.96	58.24
Reedy, town	48,438	60.55	70.64	80.73
Rhodell, town	37,813	47.27	55.14	63.02
Richwood, city	27,234	34.04	39.72	45.39
Ridgeley, town	21,389	26.74	31.19	35.65
Ripley, city	31,162	38.95	45.44	51.94
Rivesville, town	41,741	52.18	60.87	69.57
Romney, city	25,925	32.41	37.81	43.21
Ronceverte, city	37,898	47.37	55.27	63.16
Rowlesburg, town	29,766	37.21	43.41	49.61
Rupert, town	30,125	37.66	43.93	50.21
S				
St. Albans, city	44,758	55.95	65.27	74.60
St. Marys, city	42,664	53.33	62.22	71.11
Salem, city	35,438	44.30	51.68	59.06
Sand Fork, town	72,578	90.72	105.84	120.96
Shepherdstown, town	31,583	39.48	46.06	52.64
Shinnston, city	47,039	58.80	68.60	78.40
Sistersville, city	31,042	38.80	45.27	51.74
Smithers, city	28,333	35.42	41.32	47.22
Smithfield, town	20,781	25.98	30.31	34.64
Sophia, town	33,929	42.41	49.48	56.55
South Charleston, city	46,390	57.99	67.65	77.32
Spencer, city	22,453	28.07	32.74	37.42

**WEST VIRGINIA MEDIAN HOUSEHOLD INCOME
2015 CENSUS
MUNICIPALITIES**

MUNICIPALITIES	Median HH Income	Average Bill based on % MHI		
		1.50%	1.75%	2.00%
Star City, town	40,833	51.04	59.55	68.06
Stonewood, city	45,000	56.25	65.63	75.00
Summersville, town (2012)	34,924	43.66	50.93	58.21
Sutton, town	35,938	44.92	52.41	59.90
Sylvester, town	52,500	65.63	76.56	87.50
T				
Terra Alta, town	36,513	45.64	53.25	60.86
Thomas, city	33,000	41.25	48.13	55.00
Thurmond, town (2000 again)	23,750	29.69	34.64	39.58
Triadelphia, town	29,063	36.33	42.38	48.44
Tunnelton, town	46,042	57.55	67.14	76.74
U				
Union, town	28,409	35.51	41.43	47.35
V				
Valley Grove, village	35,357	44.20	51.56	58.93
Vienna, city	46,968	58.71	68.50	78.28
W				
War, city	20,625	25.78	30.08	34.38
Wardensville, town	35,000	43.75	51.04	58.33
Wayne, town	17,559	21.95	25.61	29.27
Weirton, city	39,832	49.79	58.09	66.39
Welch, city	28,112	35.14	41.00	46.85
Wellsburg, city	31,288	39.11	45.63	52.15
West Hamlin, town	16,094	20.12	23.47	26.82
West Liberty, town (2014)	21,250	26.56	30.99	35.42
West Logan, town	40,750	50.94	59.43	67.92
West Milford, town	48,125	60.16	70.18	80.21
Weston, city	31,776	39.72	46.34	52.96
Westover, city	35,792	44.74	52.20	59.65
West Union, town	30,583	38.23	44.60	50.97
Wheeling, city	36,989	46.24	53.94	61.65
White Hall, town	63,333	79.17	92.36	105.56
White Sulphur Springs, city	30,363	37.95	44.28	50.61
Whitesville, town	24,375	30.47	35.55	40.63
Williamson, city	33,872	42.34	49.40	56.45
Williamstown, city	49,890	62.36	72.76	83.15
Windsor Heights, village	41,607	52.01	60.68	69.35
Winfield, town	56,300	70.38	82.10	93.83
Womelsdorf (Coalton), town	47,222	59.03	68.87	78.70
Worthington, town	26,875	33.59	39.19	44.79

Source: US Census Bureau American Fact Finder

<http://factfinder2.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>

APPENDIX F

SOURCES AND USES CHART
(FOR EPA USE ONLY)

West Virginia Clean Water State Revolving Fund
Intended Use Plan - Sources and Uses of Funds
(for EPA use only)

Cumulative Sources as of December 31, 2016

Capitalization Grants (28)	\$ 638,991,586	
State Matches (actual)	\$ 115,579,895	
Repayments (P + I; 212 + 319)	\$ 401,806,227	
Investment Earnings	\$ 28,799,744	
Sources sub-total (a)		<u>\$ 1,185,177,452</u>

Cumulative Uses as of December 31, 2016

Loan Assistance (212+319)	\$ 1,193,541,619	
DEP Administration (4%)	\$ 14,143,540	
Uses sub-total (b)		<u>\$ 1,207,685,159</u>

FY2018 Sources of Funds

Available funds from prior IUPs (a - b)	\$ (22,507,707)	
Capitalization Grant #29 (FFY2017 Funds)	\$ 20,668,000	
State Match	\$ 4,133,600	
Earnings	\$ 453,432	
Repayments	\$ 38,566,013	
Sources of Funds (c)		<u>\$ 41,313,338</u>

Less

Appendix C Projects	\$ 56,500,000	
AgWQLP Reserves	\$ 150,000	
OSLP Reserve	\$ 300,000	
Total		<u>\$ 56,950,000</u>

APPENDIX G

POSSIBLE GREEN TECHNOLOGY PROJECTS

CLEAN WATER STATE REVOLVING FUND

"Green" Infrastructure Project Solicitation for FY2018 IUP

Project	Category	Description	Cost Estimate
Auburn, Town of	decentralized sewer system	Decentralized individual treatment units	\$2,714,725
Cairo, Town of	decentralized sewer system	Packaged Ext. Aer. Plant	\$2,503,325
Century Volga PSD	decentralized sewer system	Decentralized recirculating sand filter with subsurface discharge	\$2,844,000
Huttonsville PSD	energy efficiency	Biodome project	\$2,000,000
Jefferson Co. PSD	energy efficiency	Sewer interceptor construction removing 5 pump stations	\$6,919,984
McDowell Co. PSD - Coalwood	decentralized sewer system	Packaged MBBR plant and collection system	\$1,950,000
Rhodell, Town of	decentralized sewer system	STEG/STEP system	\$5,159,180
Webster Springs PSD (Bergoo)	decentralized sewer system	STEG/STEP system	\$2,353,000
TOTAL			\$26,444,214

APPENDIX H

UNEMPLOYMENT DATA

Labor Force Data by County 2015

County	Rate
Barbour	7.4
Berkeley	5.0
Boone	9.6
Braxton	9.0
Brooke	7.3
Cabell	5.4
Calhoun	12.5
Clay	11.2
Doddridge	5.7
Fayette	8.5
Gilmer	7.8
Grant	7.6
Greenbrier	6.5
Hampshire	5.5
Hancock	7.8
Hardy	7.5
Harrison	6.4
Jackson	7.2
Jefferson	4.1
Kanawha	6.0
Lewis	8.2
Lincoln	9.7
Logan	11.4
McDowell	13.0
Marion	6.9
Marshall	8.4
Mason	8.5
Mercer	7.3
Mineral	7.3
Mingo	13.1
Monongalia	4.7
Monroe	5.6
Morgan	5.5
Nicholas	9.1
Ohio	5.6
Pendleton	4.7
Pleasants	8.5
Pocahontas	8.2
Preston	6.0
Putnam	5.5
Raleigh	7.3
Randolph	7.0
Ritchie	7.0
Roane	11.5
Summers	7.0
Taylor	6.0
Tucker	6.1
Tyler	9.4
Upshur	8.0
Wayne	6.9
Webster	7.7
Wetzel	10.0
Wirt	10.3
Wood	6.2
Wyoming	9.7
WV	6.7

Source: from www.workforcewv.org

APPENDIX I

POPULATION DATA

Population Data

County	2013	2015	delta	% Change
	Estimate	Estimate		*red reflects negative
Barbour	16,781	16,704	77	0.46
Berkeley	108,589	111,901	3312	3.05
Boone	24,077	23,372	705	2.93
Braxton	14,436	14,415	21	0.15
Brooke	23,712	23,350	362	1.53
Cabell	96,987	96,844	143	0.15
Calhoun	7,540	7,470	70	0.93
Clay	9,204	8,910	294	3.19
Doddridge	8,291	8,176	115	1.39
Fayette	45,596	44,997	599	1.31
Gilmer	8,639	8,518	121	1.40
Grant	11,796	11,766	30	0.25
Greenbrier	35,781	35,516	265	0.74
Hampshire	23,453	23,353	100	0.43
Hancock	30,235	29,815	420	1.39
Hardy	13,989	13,852	137	0.98
Harrison	68,982	68,714	268	0.39
Jackson	29,233	29,237	4	0.01
Jefferson	54,958	56,482	1524	2.77
Kanawha	191,373	188,332	3041	1.59
Lewis	16,450	16,448	2	0.01
Lincoln	21,540	21,415	125	0.58
Logan	35,985	34,707	1278	3.55
McDowell	20,874	19,835	1039	4.98
Marion	56,769	56,925	156	0.27
Marshall	32,577	31,978	599	1.84
Mason	27,172	27,037	135	0.50
Mercer	61,829	61,164	665	1.08
Mineral	27,728	27,451	277	1.00
Mingo	25,956	25,292	664	2.56
Monongalia	101,938	104,236	2298	2.25
Monroe	13,510	13,506	4	0.03
Morgan	17,447	17,524	77	0.44
Nicholas	25,935	25,594	341	1.31
Ohio	43,694	43,066	628	1.44
Pendleton	7,416	7,229	187	2.52
Pleasants	7,593	7,674	81	1.07
Pocahontas	8,669	8,607	62	0.72
Preston	33,697	33,940	243	0.72
Putnam	56,621	56,848	227	0.40
Raleigh	78,585	77,510	1075	1.37
Randolph	29,555	29,126	429	1.45
Ritchie	10,077	9,982	95	0.94
Roane	14,623	14,435	188	1.29
Summers	13,543	13,239	304	2.24
Taylor	16,994	16,912	82	0.48
Tucker	6,954	6,966	12	0.17
Tyler	8,981	8,975	6	0.07
Upshur	24,638	24,758	120	0.49
Wayne	41,626	40,971	655	1.57
Webster	8,868	8,755	113	1.27
Wetzel	16,181	15,816	365	2.26
Wirt	5,874	5,880	6	0.10
Wood	86,487	86,452	35	0.04
Wyoming	22,947	22,151	796	3.47

Source: <http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>