

AlexRenew is an independent public authority that manages Alexandria's wastewater to improve our local waterways.

703.721.3500 AlexRenew.com **f** 

1800 Limerick Street, Alexandria, Virginia 22314

#### BOARD OF DIRECTORS

John Hill Chair

James Beall *Vice Chair* 

William Dickinson Sec'y-Treas

Adriana Caldarelli

Kerry Donley

CHIEF EXECUTIVE OFFICER

Karen L. Pallansch P.E., BCEE

#### GENERAL COUNSEL

McGuire Woods, LLP



## MEMORANDUM

TO:	AlexRenew Board of Directors
FROM:	Secretary-Treasurer
DATE:	April 12, 2022
SUBJECT:	Regular Board of Directors Meeting

The Regular Meeting of the Board of Directors will be held on Tuesday, April 19, at 6:00 p.m. at Alexandria Renew Enterprises.

There are two new business items for Board action this month:

- Presentation of the FY23 Proposed Operating & Capital Budget
- Review of Recommendation to Update Calculation of Winter Averaging

#### Agenda Alexandria Renew Enterprises Board of Directors Meeting Tuesday, April 19, 2022 @ 6:00 p.m. 1800 Limerick Street, Ed Semonian Boardroom & Via livestream:

No.	Item	Presenter	Action Required
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The Tuesday, April 19, 2022, Board of Directors meeting is being held at Alexandria Renew Enterprises (1800 Limerick Street, Ed Semonian Boardroom, Alexandria, VA 22314). Members of the Board and staff are participating in person. The public can access the meeting in the Ed Semonian Boardroom or through the live broadcast on YouTube: <a href="https://www.youtube.com/playlist?list=PLZxvuf\_sglmpuAllUAX3t0oa\_ng24Nnt1">https://www.youtube.com/playlist?list=PLZxvuf\_sglmpuAllUAX3t0oa\_ng24Nnt1</a>

Public comments will be taken in person at Alexandria Renew Enterprises. Submission of written statements is encouraged. Written statements may be emailed to the Board Secretary at <u>lorna.huff@alexrenew.com</u>.

1	Call To Order (6:00 p.m.)	Chairman	
2.	Approval of Agenda (6:02 p.m.)	Chairman	Approval
3.	Public Comment Period (6:12 p.m.)	Chairman	
4.	Consent Agenda (6:15 p.m.) A. Minutes (Meeting March 15, 2022) (Tab 1) B. Review and Approve Revised Board Policies (Tab 2)	Chairman	Approval
5.	Unfinished Business (6:17 p.m.) A. Governance Committee Update on Search Firm Selection	Chairman	Approval
6.	<ul> <li>New Business (7:00 p.m.)</li> <li>A. Presentation of the FY23 Proposed Operating &amp; Capital Budget (Tab 3)</li> <li>B. Review of Recommendation to Update Calculation of Winter Averaging (Tab 4)</li> </ul>	Chairman Ms. Pallansch	Approval
7.	AlexRenew Monthly Outcomes Update (7:10 p.m.) (Tab 5)	Ms. Pallansch	Information
8.	Adjourn (7:20 p.m.)	Chairman	

Times shown in parentheses are approximate and serve as guidelines

If you need an interpreter, translator, materials in alternate formats or other accommodations to access this service, activity or program, please call (703) 721-3500 ext. 2260 at least three business days prior to the meeting.

A meeting of the Board Finance and Audit Committee is scheduled for Monday, April 25, 2022 @ 5:00 p.m.

A Public Hearing on the FY23 Budget is scheduled for Saturday, May 7, 2022 @ 9:30 a.m.

The next Regular Board of Directors meeting is scheduled for Tuesday, May 17, 2022 @ 6:00 p.m.

Members of the public may park in the parking lot across the street from Alexandria Renew at the corner of Limerick and Bartholomew Streets

> Chairman- John Hill • Vice Chairman- Jim Beall • Secretary-Treasurer-William Dickinson • Members- Adriana Caldarelli, Kerry Donley

#### Minutes of the 892nd Meeting *"Celebrating Over 60 Years of Continuous Environmental Excellence"* Alexandria Renew Enterprises 6:00 p.m., Tuesday, March 15, 2022

On Tuesday, March 15, 2022, the Alexandria Renew Enterprises Board of Directors held its regular Board of Directors meeting in the Edward Semonian Board Room at 1800 Limerick Street, with the following present:

Members:	Mr. John Hill, Chairman Mr. James Beall, Vice Chairman Mr. William Dickinson, Secretary-Treasurer Ms. Adriana Caldarelli, Member Mr. Kerry Donley, Member
Staff:	Ms. Karen Pallansch, Chief Executive Officer Ms. Allison Deines, Director of Strategy and Policy Ms. Liliana Maldonado, Chief of Environmental Performance Ms. Lorna Huff, Secretary to the Board
Counsel:	Mr. Jonathan Rak, General Counsel, McGuireWoods LLP
Fairfax County Representative:	Mr. Shahram Mohsenin, Director, Wastewater Planning & Monitoring Division
City Representative:	Ms. Erin Bevis-Carver, Acting Division Chief, T&ES/Sanitary Sewer Infrastructure Division
Consultants:	Mr. Justin Carl, Owner's Advisor Brown & Caldwell

#### Call to Order

The Chairman called the meeting to order at 6:12 p.m.

#### Approval of Agenda

The Chairman requested that members review the agenda, noting an amendment adding a closed session. There being no changes, the Chairman requested a motion to approve the revised agenda. Ms. Caldarelli moved, and Mr. Donley seconded. The Board unanimously approved.

#### Public Comment Period

There being no members of the public in attendance wishing to speak, the Chairman closed the public comment period. The Chairman moved to the Consent Agenda.

#### Consent Agenda

The Chairman requested members review the Consent Agenda which contained the Minutes of the February 15, 2022, meeting. Mr. Donley moved approval, and Mr. Dickinson seconded. The Board unanimously approved the Consent Agenda.

#### **Unfinished Business**

#### A. None

#### New Business

#### A. Review and Approve the Executive Search Firm Process for the CEO/General Manager

#### **Discussion**

Mr. Rak reported on the process for selecting from two executive search firms to assist with interviewing and finding candidates for the CEO position. Both firms have existing contracts with Virginia governmental agencies and AlexRenew can ride the contracts to avoid a lengthy RFP solicitation process. Staff recommends that the Chairman and Vice Chairman interview each contact from the referenced search firms and then make a selection. The process is time constrained due to the expiration of the cooperative procurement agreement with one of the firms. Members inquired about the time frame for the selection and how the two firms were selected to receive interviews.

Mr. Rak reported that interviews and a decision is expected by the end of March. Ms. Pallansch reported that AlexRenew's human resources director reached out to her counterparts at the City and around the Commonwealth. These two firms came highly recommended. Mr. Dickinson inquired about how the firms get candidates. Firms have a list of candidates that they can reach out to. The firm will ensure that candidates are well-qualified and vetted prior to being interviewed by the Board. They will additionally, organize the search, develop a format for interviewing candidates and help the Board make a decision. The two firms presented are the only ones with comparable experience in this area. The Chairman inquired if there were any additional questions or comments from the Board. The Chairman further noted that he would be seeking input on questions from each of the Board members.

The Chairman requested a motion to approve. Mr. Beall moved, and Mr. Dickinson seconded. The Board unanimously approved.

There were no other questions or comments and the Chairman moved to the CEO Outcome Report.

#### CEO Monthly Outcome Reports

The Chairman recognized Ms. Pallansch who noted her written report and reviewed various handouts. The first handout was the updated Board of Directors Event Calendar. She provided an update on RiverRenew funding, noting that the general assembly ended their session without passing a budget. A special session will be called. The status of the \$40 million grant funding previously allocated to AlexRenew for the CSO project by the prior Administration is uncertain. Conferees will meet to determine whether that grant funding returns. Ms. Pallansch traveled to Richmond and met with delegates and staff to discuss AlexRenew's case for reinstating the funding. She used the referenced handouts to illustrate the issue and its effect on rates. Staff also shared the ALICE (Asset limited, income constrained employed) which shows the impact on low- and fixed-income citizens.

Mr. Donley inquired about the current Administration's response. The direction striking the line item came from the Governor's office. Ms. Pallansch will continue to lobby for CSO grant funding.

Ms. Pallansch reminded members of the March 17, SAG meeting. SAG members requested a flyer outlining all the water projects in the City. The flyer titled, Alexandria's Flood Mitigation and Water

Board of Directors Page **3** of **4** 3/15/2022

Projects was produced with input from Erin Bevis-Carver and her team. She requested that members share with their community groups.

Ms. Pallansch met with the new City Manager noting that he is familiar with authorities. She provided him with talking points about AlexRenew, its service area, and key accomplishments to help the City meet its environmental goals. She referenced the updated AlexRenew Annual Report and noted two new characters in the CLOE book series.

#### RiverRenew Dashboard.

The delay in Outfall 001 was a document submission issue and has no bearing on the overall schedule. She further noted a delay at Outfall 002, but this also has no impact to the schedule.

The Tunnel Boring Machine (TBM) is behind schedule. These are supply chain issues. Mr. Hill inquired on TBM shipping. Ms. Pallansch reported the TBM would be shipped by boat. Members inquired about local supply chain issues, labor issues, and bond rates. Ms. Pallansch reported issues with concrete pours and parts getting delayed. Delays are due to external factors and the team is working well together to mitigate these where possible.

Ms. Pallansch reported the "Sip n See" events have moved to the African American Heritage Park. They will take place on Tuesdays from 10:00 a.m. to 1:00 p.m. Community Listening Sessions are July 11<sup>th</sup> - 14<sup>th</sup>. They will be at Pendleton, Royal, and AlexRenew.

#### **Financials**

Ms. Pallansch reported that normally staff would have a budget document for Board review. At this point, due to inflation, chemical costs have doubled. Staff will bring the budget to the Board in April. She noted that while the O&M budget has remained flat over the years, staff anticipates an increase in the next budget. Staff may need to make changes at mid-yeart. Staff is managing to get through the current fiscal year without exceeding the approved budget.

Mr. Dickinson inquired about delinquencies. Ms. Pallansch that those who have arrearages are being moved into payment plans.

#### **Closed Session**

At 7:01 p.m., the Chairman moved to enter a closed session for discussion, consideration or interviews of prospective candidates for employment, assignment, appointment, promotion, performance, demotion, salaries, disciplining or resignation of specific officers, appointees or employees. Mr. Dickinson moved and. The board unanimously approved.

At 7:23 p.m., the meeting returned to open session, and the following certification was unanimously adopted by the members: "Pursuant to 2.2-3712(D) of the Virginia Freedom of Information Act, it is hereby certified that to the best of each Member's knowledge, (1) only public business matters lawfully exempted from the open meeting requirements of the Act, and (2) only public business matters identified in the motion by which this closed meeting was convened were heard, discussed, or considered by Alexandria Renew Enterprises."

Motion was made by Mr. Donley I and seconded by Mr. Hill. All Members present voted via roll call:

Mr. Hill	Aye
Mr. Beall	Aye

Mr. Dickinson	Aye
Mr. Caldarelli	Aye
Ms. Donley	Aye

The Chairman requested a motion to approve the There were no additional questions or comments and the meeting adjourned.

APPROVED:



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703.721.3500 AlexRenew.com **f ⊻ ☉** in 1800 Limerick Street, Alexandria, Virginia 22314

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#### GENERAL COUNSEL

McGuire Woods, LLP



## MEMORANDUM

TO:	Alexandria Renew Board of Directors
FROM:	Karen Pallansch, CEO
DATE:	April 12, 2022
SUBJECT:	Action Item, Consent Agenda, Review & Approve Revised Board Policies

#### Issue:

Alexandria Renew Enterprises Board policies were recently reviewed by the Governance Committee. Updates need to be approved by the full Board.

#### Recommendation:

Staff respectfully recommends that the Board approve the attached updated policies.

Budget and Funding: N/A

#### Discussion:

On January 27, 2022, the Board of Directors Governance Committee met and reviewed AlexRenew's Board Policies. The following policies contain minor edits: Writeoff Policy, Rate Adjustment Principles, Employee Compensation Philosophy, Overview of Board Committee Policy, Financial Policy, Community Benefit Policy, and Ethics Policy.

The remaining policies are under review by staff and counsel and will be submitted for approval at a later date.

#### Congruence with AlexRenew Strategic Plan:

This enables our strategic outcome of Public Trust.

Approved:

Disapproved:

Approved with Modification:

Modification(s):

## **AlexRenew Board Policy Review, Summary of Board Comments and Staff Responses**

Policy Name	BOD Comments	Staff/Counsel Comments
Write off Policy	No comments	
Rate Adjustment Principles	No comments	
Employee Compensation Philosophy	Is there a comparable benefits policy document? Do we comply with benchmark market study every two years?	Yes there is a staff policy that cascades from the Board's philosophy; it is updated whenever the Board updates its philosophy Yes benchmark is done in even years. We have already started the process. Noted in budget presentations.
Board Roles and Responsibilities	Board chair, CEO and Board members should review this for any possible changes (and to ensure we are all familiar with it.)	Will include responsibility review as part of annual legal review process
	Page 1 I would like to reword the first page as the language seems awkward. [Draft provided]	Will rework by April
	Page 1 Who is responsible for "ensuring the capability, suitability and vitality of its membership"?	The Board Chair has the responsibility to ensure that the board functions well together and that each board member is an active participant
	Page 6 Board Member Job Description - This is really repetitive. Should we consider starting with general Board member responsibilities and the add section below that for specific responsibilities for the Chair, Vice-Chair, and Secretary? We could use language such as, "In addition to the responsibilities stated above, the Board Chair/Vice-Chair/Secretary are also responsible for"	Will rework by April
Board Committee Guidelines	Correct typos on pp. 3 and 4 (delete the hard return) CEO, Board chair, Finance and Audit committee should review	Will review and update
Public-Private Education Facilities & Infrastructure Guidelines	Has recent assembly legislation required any revisions to this? Increase review fee from \$2,500 to \$5,000	Counsel has prepared revised draft to incorporate changes to legislation. Recommend \$10,000 review fee.
Financial Policy	Need CFO, CEO, Audit committee review. No other comments.	Policy reviewed as part of the work to get WIFIA and CWRLF approvals in 2021. Will update review date and reissue.

## **AlexRenew Board Policy Review, Summary of Board Comments and Staff Responses**

Policy Name	BOD Comments	Staff/Counsel Comments
Investment Policy	<ul> <li>Ask our Counsel to review Virginia code references for accuracy</li> <li>Ask our financial advisor and CFO to review Section G Authorized Investments.</li> <li>Page 3 Standard of Prudence "Public funds held and invested by AlexRenew shall be held in trust for the citizens of AlexRenew" Should this be ratepayers, customers, or citizens of the Alex Renew service area?</li> <li>Page 8 Engagement of Investment Managers - Is there a process to change, or terminate contracts, of investment advisors?</li> <li>Page 9 "The CEO will prepare an investment report on at least a quarterly basis for the Audit Committee or other committee designated by Board of Directors." Is this done?</li> </ul>	<ul> <li>Need to correct C.1. to read "Sections 2.2-4400 et seq. and 2.2-4500"</li> <li>Investment advisors are comfortable with the language and it meets our current needs. Our investments are very basic and within the standards and conservativism of municipal investments.</li> <li>AlexRenew Financial Advisor reviewed, noting that our website refers to 'citizens' which was probably picked up in the original issuance of the policy. If the Board wishes to change the language, staff will make a revision.</li> <li>Yes, engagement of investment managers is subject to the Virginia Public Procurement Act.</li> <li>Quarterly reports are submitted to the CFO quarterly. A presentation of our investments is presented in the monthly financial report; staff had been informed in the past that this monthly investment overview in the board report was sufficient to meet this requirement.</li> </ul>
Media Relations Policy	Does this address guidance for Board member activity?	Staff to update this policy; targeting May timeframe for draft
Procedures for the Procurement of Construction Management & Design-Build	Have there been any legislative changes that would require revisions to this ? No other comments.	The state updated its CM & DB guidance on $1/1/20$ , so MW recommended changes that spring, to more closely follow. I believe that we discussed whether to hold off on adoption until the tunnel design-build procurement was completed, but I don't recall the final decision on that. It does not appear that the state has adopted new guidelines since then, nor do we know of any recent or pending legislation (at this time) that has bearing on the applicable statutes.
Resolution Concerning Authority of CEO	Ask Counsel to review references to Virginia Code and Alex Renew bylaws	Need to revise 2 <sup>nd</sup> recital clause "consistent with the Virginia Public Procurement Act; and".

## **AlexRenew Board Policy Review, Summary of Board Comments and Staff Responses**

Policy Name	BOD Comments	Staff/Counsel Comments
Environmental Justice Policy (DRAFT)	This policy seems to meld two concepts that are in my mind separate. I'd like to discuss if this needs to be bifurcated into an Environmental Justice Policy and a Diversity and Inclusion policy, or perhaps we rename it to encompass both concepts. We should schedule this for Board review and approval	Staff review this policy in concert with community benefits policy and provide a recommendation. Staff will review and prepare recommendations for future governance and board review.
Guidelines for Public Comment	Correct location of Board meetings.	Will review and update guidelines
Community Benefit Policy	No Comments	
Ethics Policy	Should we add a reference to potential conflicts of interest with non-profit groups? Add section similar to 8.0 (or amend 8.0) to prohibit solicitations for nonprofit, charitable or advocacy organizations. [Text provided] Should we update this section 13.0 to include the most recent attendance policy regarding a board member attending in-person meetings electronically under certain circumstances?	Discussion Electronic attendance in compliance with FOIA counts as attendance so no need to update.

## City of Alexandria, Virginia Sanitation Authority dba Alexandria Renew Enterprises Board Adopted Policy



Title: Write-Off Policy

Date of	Date of	Page 1 of 1
Adoption: October 26, 2016	Review: January 27, 2022	
	October 26, 2016	

An active account's past due balance for services rendered by Alexandria Renew Enterprises will not be written off unless an exception is made by the Chief Executive Officer or the following criteria is met:

• The debt is discharged through legal action (bankruptcy or court judgment)

An inactive account's past due balance for services rendered by Alexandria Renew Enterprises will be considered uncollectible, and written off, after the appropriate collection procedures have been followed and if it meets one or more of the following criteria:

- The account remains unpaid after six months (180 days) and the amount is under \$50.00;
- The account remains unpaid after one year (365 days) and the amount is under \$100.00;
- The debtor has died and there is no known estate or guarantor;
- The debt is discharged through legal action (bankruptcy or court judgment);
- The debtor is a company which is no longer in business;
- The debtor cannot be located, nor any of the debtor's assets, by the external collection agency after six months (180 days);
- The external collection agency determines after a period of one year (365 days) that the debtor has no assets and there is no expectation they will have any in the future;
- The account remains unpaid after the lesser of two years (730 days) or the applicable period for commencement of a recovery action (statute of limitations [three (3) years]); and/or
- The debt has been forgiven by action of the Chief Executive Officer or designated representative.

## City of Alexandria, Virginia Sanitation Authority Board Adopted Policy

Title: Resolution on Rate Adjustment Principles		
Date of	Date of	Page 1 of 1
Adoption: February 19, 2019	Review: January 27, 2022	

WHEREAS Alexandria Renew Enterprises will continue to manage its operations and capital improvement budgets to ensure the sustainability of our operations; and

WHEREAS It is essential to ensure stakeholder understanding and engagement in rate setting actions; and

WHEREAS Alexandria Renew Enterprises rates should be developed so that they are described in straightforward language, free of technical terminology, that can be readily understood by the public; and

WHEREAS To ensure financial strength that benefits our customers and community, Alexandria Renew Enterprises will plan for rate adjustments that create revenue stability and predictability; and

WHEREAS Alexandria Renew Enterprises will continue to partner with the City of Alexandria to provide bestin-class wastewater collection and treatment services, compliant with environmental requirements, at a reasonable cost to all our customers.

NOW, THEREFORE, The Board of Directors of Alexandria Renew Enterprises do hereby adopt the following principles for the development and consideration of rate changes.

- 1. Recovering our cost of service, with reasonable reserves, will be the foundation of our rate and fee design. Rate structures will be created to ensure that revenue is sustainable and predictable thereby satisfying rating agencies such that Alexandria Renew Enterprises maintains fiscal sustainability.
- Alexandria Renew Enterprises will provide appropriate public notice of any rate changes that are contemplated by the board in a manner and with sufficient notice to allow for public participation. Our rates and rate change communications will be presented in a straightforward manner ensuring complete understanding by customers and stakeholders.
- Our billing policies and procedures will allow for payment flexibility to assist those facing financial hardships while maintaining necessary and equitable revenues, within the restrictions of applicable Virginia Laws.
- 4. Notwithstanding situations beyond our control, Alexandria Renew Enterprises will diligently plan and project budget and capital requirements such that year to year rate adjustments do not impose drastic rate increases that unduly burden its customers.

The foregoing Resolution was adopted by the Alexandria Renew Board of Directors at its regular meeting held on February 19, 2019.

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<b>Title: Compensation Policy</b>		
Date of	Date of	Page 1 of 3
Adoption: December 2010	Review: January 27, 2022	

#### **Objectives**

The statement of compensation philosophy is intended as a guide to provide a broad framework for the Board, Alexandria Renew Enterprises (AlexRenew) employees, and the public we serve on decisions affecting pay. It is designed to reflect the important role public employees play in the delivery of services and programs to the community; that compensation is a clear measure of that importance; and that there is fair and equitable treatment of all employees, regardless of race, gender, or disability, and in accordance with EEO/AA goals. In addition, our philosophy establishes the commitment and necessity to maintain comparability with jurisdictions that are most likely to affect recruitment and retention of employees.

#### Competitiveness and Comparability

The intent of the compensation philosophy is to maintain a competitive compensation program in order to attract, retain, and motivate qualified employees. To that end, the following principles govern compensation programs:

- Pay programs are intended to be competitive in the primary labor market. The primary labor market is currently defined as the Counties of Arlington, Fairfax, Prince William, Montgomery and Prince George's.
- AlexRenew specifically targets employee salaries at a compa-ratio between 90% and 110% of each respective salary range.
- Compa-ratio is a term used in the human resources specialty area of wage and compensation management. In its simplest form, it is the ratio of an employee's current wage to the organization's benchmark rate, in our case, the salary grade mid-point. Compa-ratios are normally expressed as a percentage of benchmark. For example, an employee earns \$45,000 per year in a job with a salary grade mid-point of \$50,000. The equation is \$45,000/\$50,000 = 0.9%. The employee is said to have a compa-ratio of 90%.
- From time-to-time, AlexRenew may recommend that other comparators should be used (e.g., Commonwealth of Virginia, agencies of the Federal government, or private sector employers or industry groups) where information from the primary labor market is considered insufficient to attract/retain specific positions or classification groups.
- In all instances, for benchmark jobs, information for an assessment of pay competitiveness will be ascertained through reliably published compensation survey data.
- Every two years, AlexRenew will conduct a market study of benchmark positions to determine the competitive posture of the organization, and propose a plan of action. AlexRenew may determine if a classification needs review in the interim.
- If an average salary falls below market averages to the extent that attracting and retaining highlyqualified employees may be jeopardized, AlexRenew will propose actions necessary to align the position or classification with the competitive marketplace for implementation in the next fiscal year or sooner, if financially feasible.

#### General Salary Adjustments

Annually, the Chief Executive Officer (CEO), Chief Human Resources Officer & Chief Financial Officer will recommend a budget for general salary adjustments that is based upon:

- Overall competitive posture of the organization.
- AlexRenew Compensation Model.
- Market rate adjustments.



Title: Compensation Policy		
Date of	Date of	Page 2 of 3
Adoption: December 2010	Review: January 27, 2022	

- Comparator organizations in the primary labor market.
- Financial affordability.

#### **Pay Scales**

AlexRenew will promulgate pay scales for all employees that will provide information on salary increases that an employee may expect from year-to-year if performing satisfactorily.

For AlexRenew employees, the annual increases in base salaries from year to year will be based on meeting established performance standards. In all cases, employees will know performance expectations for advancement.

The specific schedules will be competitive at 100% of the average pay levels for the relevant labor market and will be adjusted whenever necessary to maintain market competitiveness.

Salary increases from the pay scale are a function of performance-merit. Such increases are recognition of performance that meets and exceeds expectations for advancement.

All employees should be made aware that such increases are recognition of performance that meets and exceeds expectations. Performance standards and supervisory evaluations should stress that merit increases are not automatic.

#### **Education and Tuition Assistance**

An objective of compensation is to encourage and support advanced study, education and degree attainment for job-related courses and programs. AlexRenew will prepare and disseminate procedures for applying for and receiving education and tuition assistance, including academic grades or measures necessary for an employee to be reimbursed and the type of course work that is authorized. The amount to be budgeted for this program will be the average of the budgets for the primary comparator jurisdictions.

#### Incentives

It is also the intent of the compensation philosophy to provide financial incentives for extraordinary and exemplary performance in two categories; first, with the recommendation of the AlexRenew CEO and the approval of AlexRenew Board, an employee may be given a taxable cash award ranging from \$1,000 to \$10,000. Such awards are to be given only in those instances where performance or contributions are deemed unique, truly extraordinary, and significantly beneficial to AlexRenew.

Second, there should be a program for rewarding employees at any time who demonstrate exemplary performance significantly beyond job expectations. Taxable cash awards in this category may be given to a maximum of \$500, with typical awards being between \$100 and \$250. The AlexRenew CEO should recommend a specific budget allocation to be made available for awards in this category, with procedures for determining selection of incentive awards.

In either category, these awards are one-time cash awards and should not be considered increases in base salary or benefits.

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Title: Compensation Policy		
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#### Exceptions

Nothing in this compensation philosophy statement should be construed as a required benefit in the event that AlexRenew experiences a decline in revenue or revenue growth lower than the projected increase in expenditures. "Revenue" is currently defined as the two largest components of operating revenue: the sewage disposal charges paid by customers, and reimbursement by Fairfax County for a portion of our expenses based on total flow volume. As with all budget decisions, merit increases, market rate adjustments and funds for other employee benefits are subject to annual appropriation.

City of Alexandria, Virginia	Sanitation Authority Board A	dopted Policy	
Title: Overview of Board Co	ommittees		
Date of	Date of	Page 1 of 3	
Adoption: October 2010	Review: January 27, 2022		

#### **Overview of Board Committees**

Committees are often considered the workhorses of the board because they do the majority of the board's work between meetings, thereby allowing the full board to focus on the big picture and critical decisions. Committee work engages board members in regular activities that extend their responsibilities far beyond participation in board meetings. Committees allow the organization to tap into an individual board member's full experience, talents, interests, and enthusiasm. They can also expand the board member's understanding of the organization, and they are often the training ground for prospective board members and future board officers.

#### **Board Committee Protocols**

- 1. The board will decide what committees will be formed and appoint a board member to chair each committee.
- 2. A committee meeting can be called by the chair of the committee or by the chair of the full board.
- 3. Each committee will be made up of a minimum of two and maximum of three members approved by the board chair. A majority of the committee members shall constitute a quorum for any decision of the committee.
- 4. The board will set the goals of the committee, while the committee will set its own strategies for reaching those goals.
- 5. Prior to the first meeting of the committee, the board chair, the Chief Executive Officer and the committee chair will meet to review the goals and expectations set by the board and this protocol.
- 6. Committees will meet at least twice per year. The chair of the committee will report in writing at the following board meeting the progress and activities of the committee.
- 7. The board chair and the Chief Executive Officer can sit on any committee ex officio. They will be copied on all committee correspondence.
- 8. Staff persons present at a committee meeting will be present to assist because of knowledge of the actual day-to-day operations. An important job of the head of the committee is to protect the staff from being assigned tasks inappropriate to the committee.
- 9. The Chief Executive Officer is responsible for communicating to staff members their role in committee deliberations.
- 10. A Committee will not enter into any contractual obligations on behalf of the board.

#### Governance Committee

#### Key Elements

- The governance committee is the board's mechanism for looking after itself. As such, its work is vital to the health of the board and the entire organization. It should ensure that the board is doing its job to provide leadership and oversight to the organization and that individual board members are carrying out their duties.
- The committee has a role in board recruitment and development of board policies and procedures related to composition.
- Other aspects of board education that fall into the governance committee's purview should be included, such as officer job descriptions, orientation, educational items on board meeting agendas, and board retreats.
- Many governance committees have the difficult task of deciding how to handle the poor performance of individual board members. This will occur naturally when their terms come up, and

## City of Alexandria, Virginia Sanitation Authority Board Adopted Policy

Title: Overview of Board Co	mmittees	
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it may also happen along the way. Because these are often sensitive issues, they are best handled in this kind of smaller work group setting and with active involvement of the board chair and Chief Executive Officer.

• The committee may also be charged with addressing board structure and performance, such as reviewing the current committee structure, leading the board self-assessment process, and updating the bylaws.

#### GOVERNANCE COMMITTEE JOB DESCRIPTION

The governance committee is responsible for ongoing review and recommendations to enhance the quality and future viability of the board. The governance committee shall be composed of 2 to 3 members of the board, appointed by the chair, and serve one-year terms. The chair serves as an ex officio member. The Vice Chair of the Board shall serve as the governance committee chair. The focus of the committee revolves around the following five major areas:

- 1. Board Role and Responsibilities
  - a. Leads the board in regularly reviewing and updating the board's statement of its role and areas of responsibility, and the expectations of individual board members
  - b. Assists the board in periodically updating and clarifying the primary areas of focus for the board the board's agenda for the next year or two, based on the strategic plan
- 2. Board Composition
  - a. Leads in assessing current and anticipated needs for board composition, determining the board's knowledge, attributes, skills, abilities, influence, and access the board will need to consider to accomplish future work of the board
  - b. Develops a profile of the board as it should evolve over time
  - c. Identifies and presents potential board member candidates and explores with each candidate his or her interest and availability for board service
  - d. Nominates individuals to be elected as directors of the board
  - e. In cooperation with the board chair, meets annually with each board member to assess his or her continuing interest in board membership and term of service. Works with each board member to identify the appropriate role he or she might assume on behalf of the organization
- 3. Board Knowledge
  - a. Designs and oversees a process of board orientation, including information prior to election as a board member and information needed during the first cycle of board activity for new board members
  - b. Designs and implements an ongoing program of board information and education for all board members
- 4. Board Effectiveness
  - a. Leads the periodic assessment of the board's performance; proposes, as appropriate, changes in board structure, roles, and responsibility
  - b. Provides ongoing counsel to the board chair and other board leaders on steps they might take to enhance board effectiveness
  - c. Regularly reviews the board's practices regarding member participation, conflict of interest, confidentiality, etc., and suggests improvements as needed
  - d. Periodically reviews and updates the board's policy guidelines and practices
- 5. Board Leadership
  - a. Takes the lead in succession planning, taking steps to recruit and prepare for future board leadership

# City of Alexandria, Virginia Sanitation Authority Board Adopted PolicyTitle: Overview of Board CommitteesDate of<br/>Adoption: October 2010Date view: January 27, 2022

b. Nominates board members for election as board officers

#### FINANCE AND AUDIT COMMITTEE

#### Introduction

The financial committees of a governmental organization are truly at the heart of the public's trust. The full board has the ultimate responsibility for and fiduciary obligation to the organization.

#### **Key Elements**

- The Finance and Audit committee is responsible for monitoring the organization's overall financial health. Its core duties include overseeing budgeting and financial planning, safeguarding the organization's assets and reviewing its insurance coverage, reviewing and proposing fiscal policies, anticipating financial problems, and ensuring that the board receives accurate and timely financial reports. The principal responsibilities for the audit portion are to hire an independent auditor, review the audit report with the auditor, and ensure that appropriate internal controls are in place. This is not a policy-making body; rather, its role is to help the board carry out its fiduciary duties.
- When recruiting board members, keep in mind the need for financial proficiency. Not every board member needs to be a financial expert, but each board needs some members with specialized skills and knowledge such as accounting, taxes, investing, and financial planning to guide the board's oversight and to communicate complicated financial issues to the rest of the board.
- Committee members need to understand when they are wearing the financial oversight, and audit hats.

#### FINANCE AND AUDIT COMMITTEE JOB DESCRIPTION

The finance and audit committee coordinates the board's financial oversight responsibilities by recommending policy to the board, interpreting it for the staff, and monitoring its implementation. The committee also provides board oversight of the organization's financial audit.

The finance and audit committee monitors the organization's financial records; reviews and oversees the creating of accurate, timely, and meaningful financial statements to be presented to the board; reviews the annual budget and recommends it to the full board for approval; monitors budget implementation and financial procedures; monitors budget assets; monitors compliance with federal, state, and other reporting requirements; reviews the organization's insurance coverage; and helps the full board understand the organization's finances.

The finance and audit committee also ensures that the organization has an independent audit of its financial statements annually, recommends the independent auditors for full board approval, receives the audit report, and periodically reports the auditor's findings and recommendations to the board.

The finance and audit committee shall consist of not fewer than 2 board members. The members of the finance and audit committee shall be elected for one- year terms by the board at the annual meeting. Committee members should have a strong background in accounting, finance, or business. The board treasurer should chair this committee.



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#### 1.0 Purpose and Need

Alexandria Renew Enterprises (AlexRenew) formerly Alexandria Sanitation Authority is a special purpose governmental unit created by the City Council of Alexandria, Virginia (City Council) in 1952 for the purpose of constructing, operating and maintaining a wastewater treatment System (System) for the City of Alexandria, Virginia (City). AlexRenew is governed and administered by a Board of Directors (Board) with five members who serve staggered terms and are appointed by the City Council. The Chief Executive Officer (CEO) oversees AlexRenew's operations and plans for the construction, maintenance, repair and financing of the System. AlexRenew operates as an enterprise fund, has no taxing power and receives no financial assistance from the City.

AlexRenew recognizes that one of the keys to sound financial management is the development of a formal financial policy. This view is confirmed by bond rating agencies, investors and the Government Finance Officers Association. Establishing formal financial policies is also a common practice among comparable water and wastewater authorities throughout the Commonwealth and the United States.

The financial policy is designed to help protect AlexRenew's financial resources by:

- 1. Promoting sound financial management;
- 2. Guiding AlexRenew and its managers in policy and debt issuance decisions;
- 3. Establishing appropriate levels of operating cash reserves;
- 4. Developing a system to efficiently finance necessary capital improvements;
- 5. Ensuring the legal and prudent use of AlexRenew's debt issuance authority;
- 6. Providing a framework for AlexRenew to achieve a strong credit rating, and
- 7. Maintaining reasonable and well justified levels of rates and fees in accordance with the financial policy.

In general, these financial policies are more restrictive and require higher standards than the legal requirements contained in the Master Indenture of Trust (Bond Indenture), which is the agreement between AlexRenew and debt holders. These financial policies will be reviewed periodically and updated as appropriate.

The following are the financial policies that will guide AlexRenew's financial management, capital planning and debt financing.

**1.** Debt Service Coverage

a.For FY2011 through and including FY2013, AlexRenew will adopt budgets that it projects will enable AlexRenew to maintain annual debt service coverage (Coverage) of 1.40 times Net Revenues, as defined in the Bond Indenture, on all senior and parity debt. Beginning in FY2014 and thereafter, AlexRenew will maintain Coverage of at least 1.50 times on all senior and parity debt.

2. Reserves

a.An important metric of AlexRenew's financial flexibility is its liquidity as measured by available cash and reserves. These reserve policies identify amounts available for known risks and obligations and set minimum funding goals that may be used in emergency or other unexpected situations as they arise. The reserves represent an



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earmarking for budgetary and financial policy purposes. These reserves are in addition to existing legal reserves required by the Master Indenture of Trust (Bond Indenture) and any funds earmarked for capital improvements.

- b.AlexRenew will maintain a balance equal to at least 120 days of the current years budgeted amount for operating and maintenance expenses. As required by the Bond Indenture, one sixth of the current year's budgeted amount for operating expenses (60 days) will be held in the Operating Fund. The remainder of the reserves will be held in the General Reserve Fund, a subfund of the General Fund. In the event the General Reserve Fund is used to provide funding for unanticipated expenses or otherwise drops below the policy level, the CEO will submit a plan in writing to the Board that will restore the General Reserve Fund to the policy level over a period not to exceed four years.
- c. All other funds will be funded as required by the Bond Indenture, with a summary as follows:
  - i. Senior Debt Service Fund: An amount that will cause the balance on deposit to be sufficient to pay the principal and interest on the respective payment dates.
  - ii. Improvement, Renewal and Replacement Fund (IRR): An amount equal to the Alexandria portion (40%) of the annual calculation of the required contribution to the IRR Fund.
  - iii. General Fund: Any remaining amounts after the requirement deposits.
- d.Debt Service Reserve Fund: An amount equal to the Debt Service Reserve Fund requirement as defined in the Bond Indenture. When necessary and prudent, AlexRenew may create additional accounts within the General Fund for specific purposes. These accounts could include accounts for capital projects, risk management and revenue stabilization, among others.
- 3. Budgetary Principles
  - a.Annual Operating Budget Proposals
    - i. Per Section 9.3 of the Bond Indenture, AlexRenew is required to adopt a budget for the System for the ensuing fiscal year before the beginning of each fiscal year. The annual budget is required to be prepared in such a manner as to show in reasonable detail the estimated revenues, operating expenses, IRR amounts, debt service amounts, other costs and expenses and the amount of Net Revenues available to meet the Revenue Covenant per the Bond Indenture.
    - ii. In conjunction with the budget requirements of the Bond Indenture, the Board will strive to adopt an operating budget that:
      - Is structurally balanced whereby current budgetary revenues are sufficient to meet current budgetary expenses (those that are ongoing in nature);
      - 2. Has fees and user charges at levels intended to support the direct and indirect cost of the activity.
      - 3. Sets fees and user charges with the intent to provide the lowest reasonable fees and user charges over time, not necessarily the lowest fees and user charges right now.
      - 4. Is at a level necessary to ensure the adequate maintenance and operations of the wastewater system;



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b. Long Range i. Beg ther fore 4. Debt Management a.AlexRenew i Long-term b will be struct expected us b.Short-term i flow deficits c.Permitted D below. The determined sale. i. Leas equi app entr ii. Bon typic Alex final inco rate futu	•	cies; debt service coverage policy apital improvement program in h-year CIP that identifies ext ten years to meet projected ansion, and replacing old or aggregate useful lives that do g. al improvement costs and get and in each fiscal year at least a three year financial es. hes in this financial policy. ent operations. Long-term debt not exceed the aggregate y funding of operational cash debt instruments described posed sale of debt shall be et conditions at the time of financing for facilities or this is the most cost effective or projects that do not warrant ude Commercial Paper, are by their very nature, expose . BANs may be used to (i) ct or projects can be during times of high interest est rates will stabilize in the et conditions are such that a

time as the project is placed into service.
Long-Term Revenue Bonds –AlexRenew may issue long-term revenue bonds to fund capital projects. These bonds may be issued by AlexRenew in a number of ways, including, but not limited to, those listed below. AlexRenew



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will evaluate multiple methods for issuing long-term revenue bonds and use the method that is most advantageous to AlexRenew.

- 1. AlexRenew may issue the bonds through a public sale under its own name in the capital markets.
- 2. AlexRenew may issue the bonds through a private placement under its own name.
- 3. AlexRenew may issue the bonds to the Virginia Resources Authority (VRA) under one of VRA's loan programs.
- iv. Revenue Anticipation Notes (RANs) may be issued to meet AlexRenew's operational cash flow needs.
- v. Lines of Credit may be considered as an alternative to other short-term borrowing options.
- d.Guidelines on Debt Issuance
  - i. Bond Indenture AlexRenew will abide by the covenants contained in the Bond Indenture. AlexRenew considers these covenants to be minimum requirements, and generally expects to exceed the requirements of each covenant.
  - ii. Authorization Prior to issuance of debt, the Board will pass a resolution authorizing the financing arrangements and setting appropriate limits and parameters for the anticipated financing in accordance with applicable laws.
  - iii. Lowest Cost Financing AlexRenew intends to pursue the lowest cost of financing within the parameters of these financial policies, the Bond Indenture and AlexRenew's enabling legislation.
  - iv. Method of Issuance Prior to each debt issuance, AlexRenew will evaluate the available methods of issuance and pursue the method of issuance that is most advantageous to AlexRenew, whether a stand-alone issue by AlexRenew or use of a third party financing approach such as Revolving Fund Loans or pooled borrowing programs available through the VRA. Some considerations for evaluating the method of issuance, particularly when determining whether to issue debt through VRA or under AlexRenew's name, include:
    - 1. Financing Cost. This analysis should evaluate the overall cost of the financing, including borrowing rates, upfront fees, (such as the cost of obtaining a credit rating), whether a Debt Service Reserve Fund is required, ongoing costs and any other costs of financing.
    - Permitted Uses of Funds. Some project costs are not eligible to be funded through certain financing programs. For example, land purchase costs are not eligible to be funded through the Department of Environmental Quality's Revolving Loan Fund program that AlexRenew has used in the past.
    - 3. Structural Flexibility. When selecting a financing program, AlexRenew will consider the flexibility of debt features available under each program. For example, AlexRenew will consider how flexible repayment features, call provisions, and borrowing terms are under each program.
  - v. Project Costs Prior to Debt Issue If project costs are incurred prior to the



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issuance of debt, the Board will pass a resolution documenting its intent to be reimbursed from bond proceeds as appropriate.

- vi. Variable Rate Debt (VRD) VRD carries inherent interest rate risk. Such securities historically have interest rates lower than long-term fixed rate securities and offer the potential for lower debt service costs over the term of the bond issue. AlexRenew will consider using VRD when it: (i) improves matching of assets and liabilities, (ii) potentially lowers debt service costs, (iii) adds flexibility to AlexRenew's capital structure, or (iv) diversifies AlexRenew's investor base.
  - Debt service on VRD will be budgeted at a conservative rate based on historical fluctuations in interest activity and current market assumptions. Before issuing VRD, AlexRenew will determine how potential spikes in the debt service will be funded and consider the impact of various debt ratios.
  - 2. AlexRenew will not issue VRD in excess of 20 percent of its total debt portfolio. This limitation does not apply to other VRD which AlexRenew has endeavored to offset with an operating investment portfolio intended to act as an economic hedge to interest rate fluctuations associated with the VRD. This limitation also excludes any VRD that may be hedged through an appropriate derivative agreement, if such technique is approved by the AlexRenew Board.
- e.Method of Sale
  - i. AlexRenew will select a method of sale (competitive, negotiated, or private placement) it believes is the most appropriate in light of financial, market, transaction-specific and AlexRenew-related conditions.
- f. Term of Debt
  - i. AlexRenew will not issue debt for a period longer than the aggregate useful lives of the projects being financed. AlexRenew does not expect to issue debt with a final maturity more than 40 years from the date of issuance. Factors to be considered when determining the final maturity of debt include: the average life of the assets being financed, relative level of interest rates, and the year-to-year differential in interest rates.
- g. Debt Structure
  - i. Interest Rate Structure AlexRenew may use both variable and fixed rate debt in accordance with limitations set forth in this policy.
  - ii. Maturity Structure AlexRenew's long-term debt may include serial and term bonds. Other maturity structures may also be considered when demonstrated to be advantageous to AlexRenew.
  - iii. Coupon Structure Fixed rate debt may include par, discount, premium and capital appreciation bonds.
  - iv. Redemption Features In order to preserve flexibility and refinancing opportunities, AlexRenew debt shall generally be issued with call provisions. AlexRenew may consider call provisions that are shorter than traditional and/or no-callable debt when warranted by market conditions and opportunities. For each transaction, various call option scenarios will be evaluated so that the most beneficial can be utilized.
  - v. Credit Enhancement AlexRenew may use bond insurance and/or line and



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letters of credit for credit enhancement when it is economically advantageous to do so.

- vi. Debt Service Reserve Fund AlexRenew will fund a Debt Service Reserve Fund (DSRF) if required by the Bond Indenture.
- vii. Capitalized Interest By definition, capitalization of interest increases the amount of debt that is issued. AlexRenew will capitalize interest for a period not longer than 12 months after the project being financed is expected to be placed in service.
- viii. Refinancing of Debt - AlexRenew will refinance debt from time to time to achieve debt service savings as market opportunities arise. Since federal regulations limit a tax-exempt issue to one advance refunding (a refinancing more than 90 days prior to a bond's call date), AlexRenew will ensure that the advance refunding results in a significant present value savings. A proposed refinancing must achieve a minimum cumulative, net present value savings of 3 percent of the amount refinanced. An exception to this minimum refinancing savings policy will be if the refinancing is being done for debt restructuring purposes and the Board determines that it is in the best interests of AlexRenew to complete the refinancing without achieving the refinancing savings policy. In addition, AlexRenew will consider the efficiency of a proposed refinancing transaction. The efficiency evaluation will consider the value realized by AlexRenew when exercising its option to redeem its bonds early calculated under a variety of different interest rate environments, versus the savings garnered. In general, AlexRenew will consider refinancing bonds when the aggregate efficiency is equal to or greater than 70 percent.
- ix. In any refinancing transaction, AlexRenew maintains a bias to not extend maturities.
- h.Escrow Structuring
  - i. AlexRenew will utilize the least costly securities available in structuring refinancing escrows. Unless state and local government securities (SLGS) are used, a certificate will be provided by a third party agent stating that the securities were procured through an arms-length, competitive bid process (in the case of the open market securities), and that the price paid for the securities was reasonable within federal guidelines. Under no circumstances will an underwriter, agent or financial advisor sell escrow securities to AlexRenew from its own account.
- i. Hiring of Professionals All members of the financial advisory team including underwriter, financial advisor, bond counsel, and other professionals will be selected in a manner consistent with AlexRenew's procurement policy for professional services.
  - i. Underwriter Selection
    - 1. Senior Manager Selection AlexRenew will select a senior manager for any proposed negotiated sale. The selection criteria will include but not be limited to the following:
      - a. The firm's ability and experience in managing transactions similar to that contemplated by AlexRenew.
      - b.Prior knowledge and experience with AlexRenew.

<b>Alexandria Renew</b>	Enterprises	Board Adopted Policy
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	<ul> <li>February 24, 2017</li> <li>c. The firm's ability and willid demonstration of the firm underwriting of unsold bat d.Quality and experience of AlexRenew's engagement e. Financing plan presented f. Cost including underwritin</li> <li>2. Co-Manager Selection – Co-manabases as the senior manager with fees, which are determined by the their qualifications, co-managers will be a function of transaction s maximum distribution of AlexRen</li> <li>3. Underwriter's Counsel – In any newhich legal counsel is required to appointment will be made by the from AlexRenew.</li> <li>4. Underwriter's Discount – AlexRen underwriter's discount against conthere are multiple underwriters in determine the allocation of under fees. The allocation of fees will be established and comma AlexRenew. The senior manager sexpenses.</li> <li>5. Evaluation of Underwriter Perform each bond sale after completion issuance including underwriters' in terms of the overall interest cobasis, and the distribution of bon</li> <li>6. Syndicate Policies – For each neg AlexRenew will establish syndicat priority of orders and designation sale. AlexRenew shall require the</li> </ul>	's capital availability and lances. personnel assigned to ng fees and anticipated pricing.
ü	<ul> <li>b.Comply with the Municipa (MRSB) regulations gover allocations.</li> <li>c. Within 10 working days a AlexRenew a detail of ord information pertaining to</li> </ul>	Il Securities Rulemaking Board's ning the priority of orders and fter the sale date, submit to ers, allocations and other relevant AlexRenew's sale.
ii. Co	nsultants 1. Financial Advisor – AlexRenew wi assist in its debt issuance and de Selection of the AlexRenew's fina	



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i. Co dis dis	a b c d 2. Bond C counse propose necess federal docume Counse The Bo 3. Conflict advisor conflict permitt whethe 4. Disclos membe relative outside nature agreem ability t best int of inter cation and Disc sclosure is in sclosure oblig d thorough n	ited to, the following crite Experience in providing of similar to AlexRenew. Knowledge and experient bond issues. Experience and reputation. Fees and expenses. Counsel – AlexRenew will it affirming that AlexRenew for any for issuance, and a definition issuance is of Interest – AlexRenew finition is provide objective advice is a greements will be selected to provide independent and the issuance is of the transaction. However, and is of the transaction. However, and is of the transaction is of the transaction. However, and the issuer is a selected independent adviced to a set. Isclosure – AlexRenew recompetitive is of the transaction is of the transaction is of the transaction. However, and the issuer is a selected is of the transaction is of the transaction. However, and the issuer is a set of the transaction is of the transaction. However, and the issuer is a set of the transaction is of the transaction. However, and the issuer is a set of the transaction is of the transaction. However, and the issuer is a set of the transaction is of the transaction. However, and the issuer is a set of the transaction is	consulting services to entities ice in structuring and analyzing on of assigned personnel. Include a written opinion by legal w is authorized to issue the has met all legal requirements etermination of the proposed debt's pproving opinion and other fince of debt will be prepared by ce in public finance and tax issues. ed by AlexRenew. w requires that its consultants and e and analysis, maintain the incial plans, and be free from any II AlexRenew's financial advisor be cion of AlexRenew's bond issues, egotiated. embers – all financing team wide full and complete disclosure, or financing team members or sclosure may vary depending on the
со	mply with the	5	ordkeeping and reporting in order to iance Requirements of the Internal
a.Derivative AlexRenev risks whic may incre savings or	w meet impor h must be ur ase AlexRene r enhanced ir	rtant financial objectives, nderstood and managed. ew's financial flexibility, pi	ions are financial tools that can help however they introduce multiple Properly used, these instruments rovide opportunities for interest rate p AlexRenew manage its balance

sheet through matching assets and liabilities. b.AlexRenew will not enter into any financial derivative or swap until the following



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have occurred:

- i. The Board has adopted a comprehensive derivatives/swaps policy outlining
  - the following related to the use of derivatives/swaps:
    - 1. Approach and Objectives

a.Specific objectives for utilizing swaps b.Prohibited swap features

- 2. Legal Authority
- 3. Permitted Instruments
- 4. Procedure for Submission and Execution
- 5. Swap Analysis and Participant Requirements
  - a.Swap risks
  - b.Notional amount
  - c. Benefit expectation
- 6. Legal and Contractual Requirements
  - a.Legal terms of swaps
  - b.Notional amount
  - c. Final maturity
  - d.Termination provisions
  - e.Collateral
- 7. Ongoing Management
- 8. Ongoing Reporting Requirements
- 9. Acceptable Collateral
- ii. The Board has approved the execution of the specific financial derivative or swap transaction.



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#### 2.0 Definitions

Bond Anticipation Note (BANs): Notes which are paid from the proceeds of the issuance of longterm bonds typically used for capital projects.

**Call Provisions:** The terms of bond giving the issuer the right to redeem all or a portion of a bond prior to its stated date of maturity at a specific price, usually at or above par.

**Capital Improvement Program (CIP):** Plan for major non-recurring facility, infrastructure, or acquisition expenditures that expand or improve the system and/or community assets. Projects included in the CIP include physical descriptions, implementation schedules, year of expenditure cost and funding sources estimates, and an indication of priorities and community benefits.

**Capitalized Interest:** A portion of the proceeds of a bond issue which is set aside to pay interest on the same bond issue for a specific period of time. Interest is commonly capitalized for the construction period of the project.

**Commercial Paper:** Short-term, unsecured promissory notes issued by corporations to finance receivables for a maturity specified by the purchaser that ranges from three days to 270 days. Notes are generally sold at a discount, and carry credit ratings issued by an NRSRO.

**Competitive Sale:** A sale/auction of securities by an issuer in which underwriters or syndicates of underwriters submit sealed bids to purchase the securities. Contrast to a negotiated sale.

**Continuing Disclosure:** The principle that accurate and complete information material to the transaction which potential investors would be likely to consider material in making investment decisions with respect to the securities be made available on an ongoing basis.

**Credit Enhancement:** Credit support purchased by the issuer to raise the credit rating of a debt issue. The most common credit enhancements consist of bond insurance, direct or standby letters of credit, and lines of credit.

**Debt Service Reserve Fund:** The fund in which moneys are placed which may be used to pay debt service if pledged revenue is insufficient to satisfy the debt service requirements.

Derivatives: A financial product whose value is derived from some underlying asset value.

**Designation Policies:** Outline how an investor's order is filled when a maturity is oversubscribed when there is an underwriting syndicate. The senior managing underwriter and issuer decide how the bonds will be allocated among the syndicate. There are three primary classifications of orders which form the designation policy: Group Net orders; Net Designated orders and Member orders.

**Escrow:** A fund established to hold moneys pledged and to be used to pay debt service on an outstanding issue.

**Expenses:** Compensates senior managers for out-of-pocket expenses including: underwriters counsel, DTC charges, travel, syndicate expenses, dealer fees, overtime expenses, communication



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expenses, computer time and postage.

Letters of Credit: A bank credit facility wherein the bank agrees to lend a specified amount of funds for a limited term.

**LIBOR:** The London InterBank Offered Rate is the rate on the U.S. dollar denominated deposits with maturities from 1 day to 12 months transacted between banks in London. LIBOR is the benchmark swap floating index in the taxable or corporate swap market.

Liquidity: The ability of ease with which an asset can be converted into cash without a substantial loss of value.

**Management Fee:** The fixed percentage of the gross spread, which is paid to the managing underwriter for the structuring phase of a transaction.

**Maturity:** The date upon which the principal or stated value of an investment becomes due and payable.

Members: Underwriters in a syndicate other than the senior underwriter.

**Nationally Recognized Statistical Rating Organization (NSRO):** A credit rating agency which issues credit ratings that the U.S. Securities and Exchange Commission (SEC) permits other financial firms to use for certain regulatory purposes. Examples include Moody's Investor Service, Standard & Poor's and Fitch Ratings.

**Negotiated Sale:** A method of sale in which the issuer chooses an underwriter to negotiate terms pursuant to which such underwriter will purchase and market the bonds.

**Original Issue Discount:** The amount by which the original par amount of an issue exceeds its public offering price at the time it is originally offered to an investor.

Portfolio: Collection of securities held by an investor.

Present Value: The current value of a future cash flow.

**Private Placement:** The original placement of an issue with one or more investors versus being publicly offered or sold.

**Revenue Bonds:** Bonds secured by a specific revenue pledge of rates, rents or fees.

Securities and Exchange Commission (SEC): Agency created by Congress to protect investors in securities transactions by administering securities legislation.

**Selling Groups:** The group of securities dealers who participate in an offering not as underwriters but rather who receive securities less the selling concession from the managing underwriter for distribution at the public offering price.



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**SIFMA:** The Securities Industry and Financial Markets Association is a high grade market index of 7day variable rate demand notes that is produced by Municipal Market Data. SIFMA is the benchmark swap floating in the tax-exempt swap market.

**Syndicate Policies:** The contractual obligations placed on the underwriting group relating to distribution, price limitations and market transactions.

**Underwriter:** A dealer that purchases new issues of municipal securities from the Issuer and resells them to investors.

**Underwriter's Discount:** The difference between the price at which bonds are bought by the Underwriter from the Issuer and the price at which they are offered to investors, representing the compensation earned by the Underwriter for placing the bonds with investors.

Variable Rate Debt: An interest rate on a security which changes at intervals according to an index or a formula or other standard of measurement as stated in the bond contract.

Yield: The rate of annual income return.

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ALEXAN

#### **RESOLUTION CONCERNING AUTHORITY OF CHIEF EXECUTIVE OFFICER**

**WHEREAS**, pursuant to Section 15.2-5114 of the Virginia Code, Alexandria Renew is authorized to procure goods, services, insurance and construction, consistent with the requirements of Section 2.2-4300 et seq. of the Virginia Code (the "Virginia Public Procurement Act"); and

**WHEREAS**, pursuant to Section 2.2-4302 of the Virginia Code, Alexandria Renew is authorized to adopt procurement resolutions and regulations consistent with the Virginia Public Procurement Act; and

**WHEREAS,** pursuant to Section 15.2.-5113 of the Virginia Code, the Chief Executive Officer of Alexandria Renew shall perform such duties as may be delegated to her by the Board; and

WHEREAS, pursuant to Article III, Section 5 of the By-Laws of the Authority, the Board may specifically authorize the Chief Executive Officer to sign contracts and other instruments on behalf of the Authority.

**NOW, THEREFORE BE IT RESOLVED** that the Board of Directors does hereby authorize the Chief Executive Officer to sign on behalf of the Authority the following categories of contracts and other instruments that are in accordance with the general policies and directives of the Authority:

- Contracts for goods or services authorized in the Annual Budget adopted by the Board, except construction or professional services contracts for \$100,000 or more, any such contract that exceeds its estimated value by greater than 30% or any amendment to a construction or professional services contract that would cause a contract to exceed \$100,000.
- 2. Contracts for goods or services and construction or professional services necessary for the RiverRenew project in individual amounts not to exceed \$2,000,000 provided such expenditures are included in the capital improvement program for RiverRenew.
- 3. Deeds of Easements.
- 4. Draws Upon Letters of Credit.
- 5. Demands Upon Bonds;
- 6. Any documents or instruments pursuant to her authority as custodian of the funds of the Authority; and
- 7. Other documents or instruments expressly approved by the Board.

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Alexandria Renew Enterprises affirms and commits to the goal of developing an inclusive and comprehensive community benefits program to better serve and foster our partnership with the communities in the City and to ensure that public benefits are shared across all communities.

Alexandria Renew acknowledges its responsibility to develop a community benefits program that is intentional in its participation and support programs and projects that are designed to benefit our City, is centrally coordinated within Alexandria Renew, applies to all of its operations and its activities in all service areas, and which is sustainable, transparent, measurable, and accessible by stakeholders and Alexandria Renew staff.

Alexandria Renew defines community benefits as those positive effects on a community that result from Alexandria Renew's operation and improvement of its wastewater services. Alexandria Renew seeks to be a good neighbor to all whose lives or neighborhoods are directly affected by its activities. Alexandria Renew has adopted a decision matrix analysis to guide its decisions, balancing Alexandria Renew's economic, environmental, employee, production and social equity goals, to promote sustainability and community benefits.

The Board of Directors of Alexandria Renew will devote sufficient resources to Alexandria Renew staff to achieve outcomes including:

(1) Workforce development, including coordination of internal and external workforce programs and strategic recruitment, training, placement, and succession planning for current and future Alexandria Renew staff to ensure a skilled and diverse workforce;

(2) Environmental programs and policies which preserve and expand clean, renewable water and energy resources, decrease pollution, reduce environmental impacts, and reward proposals for innovative and creative new environmental programs;

(3) Economic development resulting from collaborative partnerships which promote contracting with local companies, hiring local workers, and providing efficient, renewable energy at reduced costs;

(4) Support for arts and culture related to the Alexandria Renew's mission, goals and activities;

(5) Educational programs;

(6) Use of land in a way that maximizes health, environmental sustainability and innovative ideas;

(7) Diversity and inclusion programs and initiatives;

(8) In-kind contributions and volunteerism; and

(9) Improvement in community health through Alexandria Renew activities, services and contributions.

In application of this policy to Alexandria Renew's operations, projects and activities, Alexandria Renew staff shall:

Develop and update a budget and staffing plan to implement and sustain the Community Benefits Program.

Develop an implementation strategy to review, analyze and coordinate community benefits initiatives and integrate these initiatives into an agency-wide Community Benefits Program. Develop and implement guidelines, metrics, and evaluation methodologies for existing and future community benefits initiatives.

Develop diverse and culturally competent communication strategies to ensure wide ranging discussion.



BOARD OF DIRECTORS

John Hill *Chair* 

James Beall *Vice Chair* 

William Dickinson Sec'y-Treas

Adriana Caldarelli

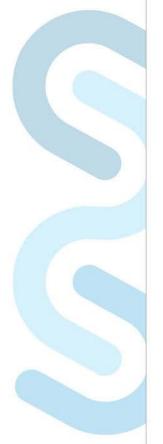
Kerry Donley

CHIEF EXECUTIVE OFFICER

Karen L. Pallansch P.E., BCEE

#### GENERAL COUNSEL

McGuire Woods, LLP



AlexRenew is an independent public authority that manages Alexandria's wastewater to improve our local waterways.

703.721.3500 AlexRenew.com **f** 9 (a) in

1800 Limerick Street, Alexandria, Virginia 22314

## MEMORANDUM

Information	
SUBJECT:	Review and Approve Draft Fiscal Year 2023 Operating and Capital Budget for Public Notice and Set the Public Hearing
DATE:	April 14, 2022
FROM:	Karen Pallansch, CEO
TO:	Alexandria Renew Enterprises Board of Directors

#### Information

Each year, staff presents a draft budget to the Board for review and community input as part of the Budget approval process.

#### Recommendation

Staff respectfully requests the Board of Directors authorize the CEO to appropriately post notice of a public hearing to receive comments on the AlexRenew Draft Fiscal Year 2023 Operating and Capital Budget on Saturday, May 7, 2022, at 9:30 a.m. at AlexRenew.

#### Discussion

Staff is pleased to present the preliminary draft Fiscal Year 2023 Operating and Capital Budget. The proposed budget balances complex economic conditions with AlexRenew's need to meet its day-to-day water transformer mission and continue to invest in healthier waterways through the RiverRenew program.

The preliminary draft includes an Operating Budget Estimate of \$30.4 million and a Capital Budget of \$175.8 million. A rate increase of 6.5% for FY 2023 was approved by the AlexRenew Board as part of the two-year rate adoption process. The current rate adoption process is in response to the planned capital spending associated with RiverRenew.

#### Congruence with AlexRenew Strategic Plan

This action enables our strategy of *Effective Financial Stewardship*.

#### ACTION TAKEN

Approved:

Disapproved:

Approved with Modification:

Modification(s):

# FY 2023

## OPERATING AND CAPITAL BUDGET

July 1, 2022 – June 30, 2023 Alexandria, VA



EY2023 Preliminary Draft Budget – April 19, 2022

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Appendix A - Financial Policies



#### Alexandria Renew Enterprises Board of Directors

John B. Hill, Chairman James Beall, Vice Chairman William Dickinson, Secretary-Treasurer Adriana Caldarelli, Member Kerry Donley, Member

### Fairfax County Representative to the Board

Shahram Mohsenin, P.E.

### **Executive Staff**

Karen L. Pallansch, P. E., Chief Executive Officer Liliana Maldonado, Chief Environmental Performance Officer Christine McIntyre, Chief Financial Officer Dave Roberts, Chief Information Technology Officer Wendy Callahan, Director of Human Resources & Employee Experience Allison Deines, Director of Research and Strategy Engagement Caitlin Feehan, Director of Communications and External Programs



#### To the Alexandria Renew Enterprises Board of Directors and our Ratepayers:

Alexandria Renew Enterprises (AlexRenew) supports the City of Alexandria in maintaining the City's stellar reputation as a great place to live, work, learn and visit by being a strong anchor institution. Equitable and affordable access to healthy water resources through anchor institutions is essential for a community's well-being and economic development. Throughout the 2020-2022 pandemic, AlexRenew continued its mission of creating healthier waterways by continuing investment in wastewater infrastructure, supporting our local businesses, creating jobs, and improving public health.

We at AlexRenew recognize that the pandemic has caused economic strain on many in our community. My team has worked diligently to incorporate those concerns into this budget, while balancing AlexRenew's need to meet our mission, constantly comply with Federal, state, and local mandates for water quality and continue to invest in healthier waterways for the city through our RiverRenew program, the largest infrastructure program undertaken in the city's history. Because of our status as an independent authority, we did not receive any Federal assistance during the pandemic. Yet we have continued to meet our mission through the judicious use of reserves and the talent and dedicated work of our employees, who continued to be on-site at AlexRenew's facilities throughout the pandemic.

The Fiscal Year 2023 proposed budget and rate structure minimize increases to residential and commercial customers, while maintaining a fiscally sustainable utility and building capacity for the future. The proposed Operating Budget totals \$30.4 million, representing a 7.2% year-over-year increase. Over the past few years, AlexRenew has successfully held our operating budget steady with no increases. The Operating Budget increase recognizes the current inflationary conditions faced by all as labor and supply shortages affect our ability to procure the needed energy, chemicals, and supplies to meet our mission. It invests in our employees, helps implement changes in our customer service practice required by 2024, continues our cybersecurity efforts and enhances our resiliency initiatives.

The proposed Fiscal Year 2023 Capital Improvement Program budget totals \$175.8 million. This is consistent relative to last year's budget and continues to reflect the investments for the RiverRenew program. AlexRenew received two grants from the Commonwealth of Virginia over the last two years for \$25 million each to help offset the rate shock being experienced by our ratepayers caused by the legislatively mandated RiverRenew program costs.

AlexRenew continues to improve local waterways and help make our community's water environment a cleaner, healthier place. We will continue our strong community partnerships that help keep our waterways clean. Thank you for your passionate support of AlexRenew's clean water mission.

Karen Pallansch, P. E., BCEE, General Manager and Chief Executive Officer Alexandria Renew Enterprises

# Understanding the Budget



AlexRenew's budget is a financial instrument, crafted within a financial, legal, policy, regulatory and capital investment framework to ensure financial sustainability, support public health, and provide a clean, healthy water environment for the community. The budget is developed in a manner that ensures AlexRenew has the financial resources to efficiently construct, operate, and maintain a water resource recovery facility, intercepting system, and pump stations that comply with state and federal law.

Current expenses and capital outlays are estimates based on experience and judgment related to cost trends in labor, materials, and services required to operate and maintain AlexRenew's facilities. AlexRenew has no discretion with respect to the level of service it must provide to meet its regulatory requirements, and no discretionary programs within its assigned scope of activity. The primary purpose of the budget is to ensure AlexRenew maintains its mandated level of service, satisfies the requirements of the Master Indenture of Trust ("Indenture"), and achieves the objectives of AlexRenew's Financial Policies.

AlexRenew has only two major sources of revenue to fund all expenditures: wastewater treatment charges paid by City of Alexandria customers, and the reimbursement of a portion of expenses paid by Fairfax County. Fairfax County makes payments to AlexRenew under an amended and restated Service Agreement dated October 1, 1998 ("Fairfax County Agreement"). In accordance with the Fairfax County Agreement, Fairfax County pays a percentage of operations and maintenance expenses based upon sewer flow volume. Fairfax County also contributes to the Improvement, Renewal and Replacement Fund (IRR) and Capital Improvement Program (CIP), at predetermined levels, to allow for the upgrade and replacement of capital assets as they depreciate, and the acquisition of new assets associated with regulatory compliance.

#### How is AlexRenew's Budget Organized?

AlexRenew builds its budget from documents that provide legal or internal policy direction. These documents include a Master Indenture of Trust (Indenture) and related financing documents; the Fairfax County Service Agreement; a Service Agreement with the City of Alexandria; a service agreement between AlexRenew and Arlington County (Arlington County Agreement); and Financial Policies adopted by the AlexRenew Board of Directors.

The Indenture is a legal agreement that mandates how AlexRenew will collect and use its revenues for operations, maintenance and capital expenses. This document requires that wastewater treatment charges collected from City of Alexandria sewer system customers be deposited in a Revenue Fund. This document also requires operating expense payments that are made by Fairfax County to AlexRenew, for its reserved capacity in the sewer system, also be deposited in the Revenue Fund. The amount due to AlexRenew from Fairfax County is established in the Fairfax County Service Agreement.

The Fairfax County Service Agreement further directs the amount and timing for monies to be paid by the County to AlexRenew for improvements and repairs to the sewer system infrastructure and investments in major capital projects.

The Arlington County Service Agreement is similar to the Fairfax County Service Agreement. This legal document establishes the amount and timing for monies paid by AlexRenew to Arlington County for agreed upon capacity in the Arlington County sewer system that treats wastewater flows from the northwestern quadrant of the city.

AlexRenew's budget is also structured to comply with the Financial Policies adopted by the Board of Directors to maintain a combined 120 days of reserves in the Operating Fund and General Reserve sub-Fund, to ensure that revenues available to pay debt service are at least equal to 1.50 times the amount of debt service due in any fiscal year, and to fund at least 15% of the Capital Improvement Program from cash and reserves (PAYGO).

#### What is AlexRenew's Strategic Plan?

The AlexRenew Strategic Plan cascades from the AlexRenew 2040 Vision, shown on the following page. The 2040 Vision was originally developed in 2012 by AlexRenew's citizen-led Board and was most recently updated in 2018.



# **2040 Vision**

# By 2040, AlexRenew has effectively partnered with all watershed stakeholders to:

Enable local citizens the opportunity to embrace the best use of water resources and establish a **personal connection** with **local waterways**.

**Sustainably** manage water as a **single resource** through the entire water cycle.

Create a **healthy environment** and improve **quality of life** through the exceptional reclamation of used water resources.

Maximize use of multiple financial options to continue **fiscal stability**.

### **Strategic Outcomes**



**Operational Excellence:** 100% compliance with all imposed mandates through continuous improvement efforts.



Public Engagement and Trust: Transparency in all public interactions.



**Watershed Stewardship:** Sustainability and resiliency integrated through effective partnerships.



Adaptive Culture: All employees continue to be fully rounded water professionals.



**Effective Financial Stewardship:** Provides cleaned water in a cost effective and efficient manner.



AlexRenew utilizes a fiscal year cycle ending June 30. The FY 2023 budget will encompass the 12-month period from July 1, 2022 – June 30, 2023. AlexRenew typically develops the budget during the prior fiscal year before it undergoes review by the Board of Directors and the public. The prior FY 2022 budget cycle included the adoption of new rates and charges for FY 2022 and for FY 2023. A public hearing is scheduled for **May 7, 2022** to obtain public comments pertaining to AlexRenew's proposed FY 2023 budget.

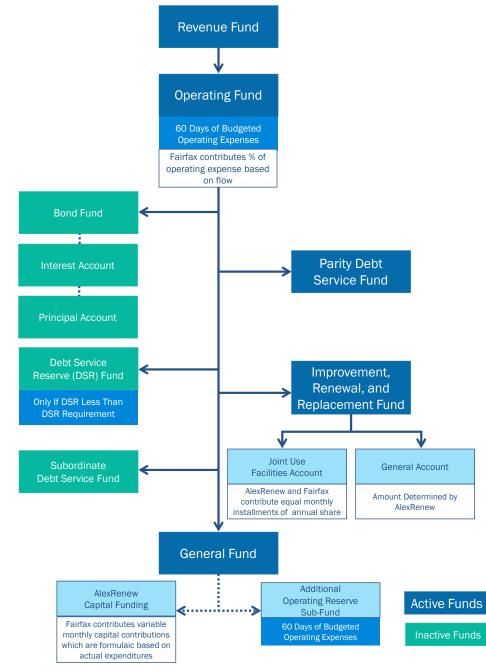
Month	Customer	Board of Directors	Staff
August - February			Proposed Budget Development Departments prepare budget proposals; CEO develops a balanced proposed budget.
March-April		Budget Review Board of Directors request additional information on specific budget issues from staff.	The CEO presents the proposed budget to the Board of Directors.
Мау	Customers are informed of proposed budget via posting to the AlexRenew website and may provide written comments, if any. Customers invited to attend Public Hearing May 7, 2022.		
June		Final Adoption Board of Directors makes final decisions and adopts the AlexRenew budget for the upcoming fiscal year.	Budget adoption no later than the June Board meeting: Execute adopted FY 2023 Budget starting July 1, 2022

# **Consolidated Enterprise Budget Statement**



AlexRenew begins its annual budget presentation by preparing a Consolidated Enterprise Budget Statement (Statement) that combines all the estimated sources and uses of funds for the upcoming fiscal year. This statement is organized in accordance with the terms mandated in Article VII of the Indenture. The primary purpose for this Statement is to demonstrate that the overall FY 2023 operating and capital budgets are in "structural" balance – which means all of the revenues and expenses are consistent with the historical financial performance, all balances that remain in the prescribed funds and accounts meet stated requirements, and if total revenues exceed total expenses, any potential excess funds are deposited in the General Fund to serve as reserves.

The graphic below provides a visual presentation of the flow of monies through the financial structure established in the Indenture. A definition for each fund and account is provided on the following page. In general, customer payments and Fairfax County operating expense charges are deposited in the Revenue Fund and are subsequently transferred to other Funds and Accounts in the order of priority (per below) and the amounts prescribed in the Indenture.



#### **AlexRenew Flow of Funds**



The chart below serves as a glossary that can be used to better understand the purpose, order of priority and funding method for each of the Funds and Accounts established in the Indenture.

Master Indenture of Trust – Flow of Fu	inds
Revenues	Revenues means all revenues, receipts and other income derived or received by AlexRenew from owning and operating the utility system. This primarily includes AlexRenew wastewater treatment charges and Fairfax County operating expense charges.
Revenue Fund	Revenues are initially deposited into the Revenue Fund and then transferred to the other funds in the following order of priority.
Operating Fund	To the Operating Fund to pay Operating Expenses. At the end of each month, AlexRenew must ensure at least $1/6$ th (or 60 days) of annual budgeted operating expenses are deposited into the operating fund.
Parity Debt Service Fund	To the Parity Debt Service in order to pay debt service payments in equal monthly amounts such that debt service payments can be paid when due.
Improvement, Renewal and Replacement (IRR) Fund – Joint Use Facilities Account	To the Joint-Use Facilities Account of the IRR Fund an amount equal to $1/12$ th of AlexRenew's share of the amount due.
Improvement, Renewal and Replacement (IRR) Fund – General Account	To the General Account of the IRR Fund in an amount predetermined by AlexRenew.
General Fund	To the General Fund any revenues remaining.

The Statement on the following page presents a consolidated profile of AlexRenew's overall operating and capital budgets for FY 2023. This schedule directly follows the flow of funds mandated in the Indenture.

# **Consolidated Enterprise Budget Statement**



Consolidated Enterprise Budget Statement	Adopted FY2022	Draft Proposed FY2023
REVENUE FUND (Per Master Indenture)	¢ 47.014.540	¢ 50,000,485
AlexRenew Wastewater Treatment Charges	\$ 47,814,540 10,785,205	
Estimated Fairfax County Operating Expense Charge	10,785,305	11,694,706
Total Revenues	58,599,845	62,617,191
OPERATING FUND		
Beginning Balance	4,666,355	4,666,355
Revenue Fund Transfer	28,376,991	30,770,96
Interest Income	10,000	10,00
Operating Expenses	(28,386,991)	(30,442,98
Ending Balance (Operating Fund Reserve)	4,666,355	5,004,32
REVENUE FUND BALANCE [Total Revenues LESS Transfer to Operating Fund]	30,222,855	31,846,23
PARITY DEBT SERVICE FUND Beginning Balance	12,364	(
Revenue Fund Transfer	13,817,255	14,649,50
Interest Income	90.000	90,00
Parity Debt Service Payment	(13,919,620)	(14,739,50
Ending Balance	(13,919,020)	(14,739,50
REVENUE FUND BALANCE [LESS transfer to Parity Debt Service Fund]	16,405,600	17,196,72
IMPROVEMENT, RENEWAL AND REPLACEMENT FUND		
Joint Use Facilities Account		
Beginning Balance	8,319,883	
Revenue Fund Transfer	2,319,561	2,410,80
Fairfax County Annual Required Contribution	3,346,197	3,477,81
IRR Joint Use Facilities Expenses	(5,667,100)	(10,327,85
Ending Balance	11,545,464	7,106,228
General Account (Alex-only)		
Beginning Balance	-	-
Revenue Fund Transfer	124,400	689,47
IRR Alex-Only Expenses	(124,400)	(689,47
Ending Balance	-	-
REVENUE FUND BALANCE [LESS transfer for IRR Funds]	13,961,638	14,096,44
GENERAL FUND		
Beginning Balance	45,046,760	42,250,35
Revenue Fund Transfer	13,961,638	14,096,44
Interest Income	15,000	15,00
Alex-Only General CIP Capital Costs	(4,532,005)	
Transfer to CIP - Joint Use Facilities	(17,527,058)	(11,886,20
Ending Balance	36,964,336	40,994,30
General Reserve sub-Fund		
Available Balance	(4,666,355) 32,297,981	(5,004,32) 35,989,973
DEVENUE FUND DALANCE ILESS transfor to Constal Fund		
REVENUE FUND BALANCE [LESS transfer to General Fund]	-	-
PROJECT FUND		
Beginning Balance		
Parity Debt / New Bond Proceeds	134,395,696	118,814,13
Transfer to CIP - Joint Use Facilities	(137,968,696)	(118,814,13
Ending Balance	-	-
CAPITAL IMPROVEMENT PROGRAM - JOINT USE FACILITIES		
Beginning Balance	-	
General Fund Transfer	17,527,058	
Project Fund Transfer	137,968,696	118,814,13
Estimated Fairfax County Capital Contributions	19,851,158	30,699,88
Joint Capital Costs	(175,346,912)	(161,400,22
	,	

# Consolidated Enterprise Budget Summary



The schedule below summarizes the funding sources and budgeted expenses associated with AlexRenew's FY 2023 budget, which total \$221.4 million, a 3% decrease compared to the prior year.

Condensed Summary	Adopted FY2022	Draft Proposed FY2023	ANNUAL VAR %
OPERATING REVENUES			
AlexRenew Wastewater Treatment Charges	\$ 47,814,540	\$ 50,922,485	6%
Fairfax County Operating Expense Charge	10,785,305	11,694,706	8%
	\$ 58,599,845	\$ 62,617,191	7%
IR&R AND CAPITAL CONTRIBUTIONS			
Fairfax County IRR Contribution	\$ 3,346,197	\$ 3,477,819	4%
Fairfax County Capital Contribution	19,851,158	30,699,887	55%
	\$ 23,197,355	\$ 34,177,706	47%
DEBT PROCEEDS AND OTHER SOURCES			
Parity Debt Proceeds	\$ 137,968,696	\$ 118,814,132	-14%
Interest Income	115,000	115,000	0%
Use of Fund Balances	8,096,130	5,695,285	-30%
	\$ 146,179,826	\$ 124,624,417	-15%
TOTAL FUNDING SOURCES	\$ 227,977,027	\$ 221,419,313	-3%
OPERATING EXPENSES			
Operating and Maintenance Expenses - AlexRenew Portion	\$ 17,601,686	\$ 18,748,282	7%
Operating and Maintenance Expenses - Estimated Fairfax County Portion	10,785,305	11,694,706	8%
	\$ 28,386,991	\$ 30,442,988	7%
NON-OPERATING EXPENSES			
Parity Debt Service	13,919,620	14,739,509	6%
Joint IRR	5,667,100	10,327,855	82%
Alex-only IRR	124,400	689,475	454%
Fund Balance Additions	-	337,972	0%
	\$ 19,711,120	\$ 26,094,810	32%
CAPITAL OUTLAY			
RiverRenew (Alex-only)	\$ 67,857,050	\$ 65,800,000	-3%
RiverRenew (Joint)	93,320,649	57,800,000	-38%
General CIP (Alex-only)	4,532,005	3,481,290	-23%
General CIP (Joint)	14,169,213	37,800,225	167%
	\$ 179,878,918	\$ 164,881,515	-8%
TOTAL EXPENSES AND CAPITAL OUTLAY	\$ 227,977,027	\$ 221,419,313	-3%

The FY 2023 revenue projection is based on the rates and charges adopted by AlexRenew's Board during the prior FY 2022 budget cycle including a rate adjustment of approximately 6.5% to become effective on July 1, 2022 for FY 2023. The rate adjustment is further detailed on pages 14-15 to follow.

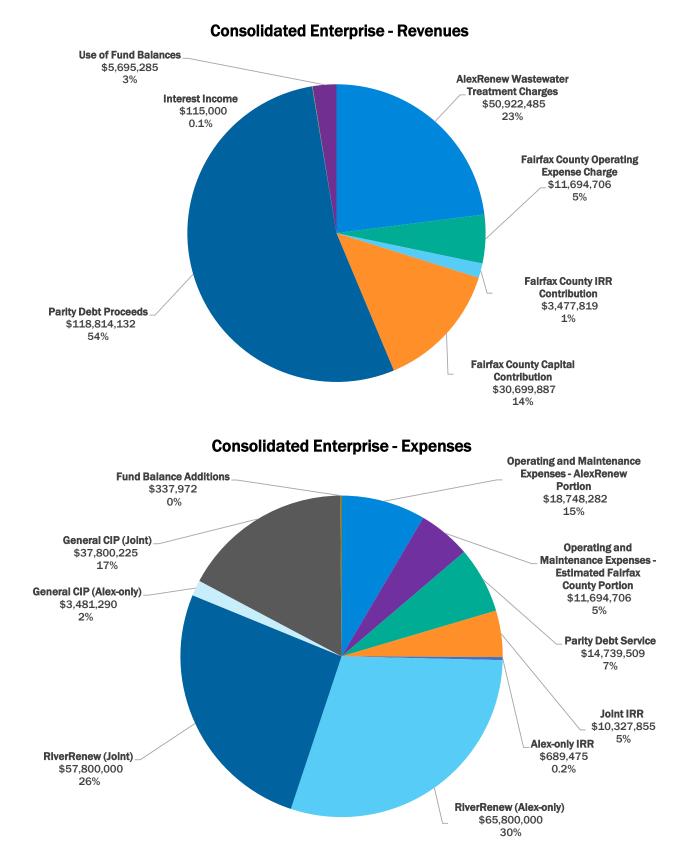
At approximately 74%, capital outlay represents the largest share of the budget. Together with the Parity Debt Service Fund at 7%, these combined expenses comprise 81% of the FY 2023 budget, demonstrating the capital-intensive nature of the wastewater utility business.

The proposed FY 2023 operating budget reflects an increase of 7.2%, a departure from the prior three fiscal years during which AlexRenew was able to maintain its annual operating budget with no increases. Even during times of economic stability, wastewater expenses tend to increase at least at the rate of inflation. As global and regional markets have begun to recover from the COVID pandemic, many core expense areas are experiencing significant cost increase pressures, including energy, chemicals, construction, labor, and transportation. As such, the proposed budget accounts for current market conditions while maintaining efficiency across the business while conservatively planning for future needs.

The proposed FY 2023 capital budget reflects continued momentum in the capital program with \$164 million in planned spending across the RiverRenew and general capital improvement programs. Funding for improvement, renewal and replacement projects increased year-over-year reflecting an effort to ensure timely upgrades of AlexRenew's infrastructure to maintain efficient operations. The proposed budget funds the capital program with cash and reserves, along with \$118 million in debt proceeds for RiverRenew construction.



The charts below further depict the funding sources and budgeted expenses for FY 2023, again highlighting the significant activity related to debt financing and capital project construction associated with RiverRenew.





For more than fifteen years, AlexRenew has employed rate modeling to analyze, evaluate and implement an annual and long-term fee structure to support the financial obligations of the enterprise. AlexRenew has engaged an independent, third-party consultant to develop and monitor a rate model designed specifically for AlexRenew. This model is used to manage revenue performance in the current year and to forecast revenue requirements, based on anticipated operating and capital costs, each year over a 10-year time horizon.

In addition to rate modeling, the AlexRenew Board of Directors (Board) has adopted a strong Financial Policy (see Appendix A) to guide the approach to setting rates and maintaining a sustainable financial position. These policies target key financial metrics, represent best practices, and ensure AlexRenew maintains cost-efficient operations while delivering superior public services for AlexRenew's customers and community.

#### The Rate Modeling Process

Annually, upon completion and acceptance of AlexRenew's audited financial statements, and more frequently as necessary, rate consultants review and update the AlexRenew rate model. This process, and the model, is heavily data-driven and uses historical and projected data comprised of billing statistics, historical financial data, the current budget, and capital plan forecasts. The rate consultants perform comprehensive due diligence exercises to validate all information provided by AlexRenew and obtained from other relevant sources. Once validation is complete, the rate consultants review their findings with AlexRenew leadership to discuss observed historical trends, how they compare to prior forecasts, what the current projections are, and whether the consultants should adjust for known conditions, as a contingency.

The resultant revenues, and assumptions of additional debt and capital funding, are evaluated relative to AlexRenew's annual cash flow requirements and likely financial position at year-end. This iterative process allows AlexRenew and its rate consultants to examine how subtle changes to rates or assumptions today have the potential to materially influence financial position across the forecast. It also allows for sensitivity analysis and the ability to examine AlexRenew's financial profile under various hypothetical scenarios, which is instructive to management and provides a stronger basis for recommending the timing and magnitude of potential rate adjustments.

As a single, dominant revenue source that accounts for almost 50% of operating revenues, the Wastewater Treatment Charges are critical to the funding of current operations and long-term financial viability. As a result, it is imperative to combine a thorough understanding of the rate modeling process, strict adherence to the terms of the Indenture, faithfulness to AlexRenew's Financial Policies, and the needs of the community when establishing rates and charges.

#### **Revenue Growth Assumptions**

AlexRenew has historically modeled growth in Wastewater Treatment Charges of approximately 0.50% - 2.00% and Fairfax County Operating Expense Charges of approximately 1.00% - 3.00% when determining rates and revenues over the forecast period.

#### Expenditure Growth Assumptions

AlexRenew has historically used CPI to evaluate costs over the forecast period and has commonly assumed an inflation range of 2.0% to 3.5%.

#### **Revenue Forecast Assumptions**

Starting in FY 2020, AlexRenew began implementing a multi-year phased rate increase initiative, primarily to fund capital expenditures including the RiverRenew program. The revenue forecast that forms the basis of this budget includes annual rate increases that were adopted by AlexRenew's Board for FY 2022 and FY 2023, as further described on the following page.



The following schedule details the monthly rates and charges for all individually metered residential customers and commercial customers discharging sewage to and/or requiring wastewater treatment service from AlexRenew. Commercial wastewater customers include all commercial, industrial, government and other public agencies, master-metered residential, and all other accounts or customers not otherwise classified as individually metered residential customers.

A wastewater customer's monthly bill for wastewater interception, treatment and discharge services is based on the sum of their: (1) base charge and (2) wastewater treatment charge, as determined by water meter readings conducted by Virginia American Water, at the customer premise. The base charge serves as the minimum monthly bill for sewer service for all customers served by AlexRenew.

The AlexRenew Board of Directors previously approved a rate adjustment effective July 1, 2022 for the upcoming FY 2023. The adopted rates are shown below and are projected to increase the average monthly bill by approximately 6.5% or \$3/month based on average water usage. Based on current projections, these rate adjustments will allow AlexRenew to maintain its fiscal profile while funding the budget and capital program herein. The chart below details the rate structures in effect for FY 2021, FY 2022, and the upcoming FY 2023.

Description	Meter Size	Prior (Effective July 1, 2020) Monthly	Current (Effective July 1, 2021) Monthly	Adopted (Effective July 1, 2022) Monthly
Residential Base Charge	All Meters	\$11.54	\$12.34	\$13.14
Commercial Base Charge	5/8"	\$34.63	\$37.02	\$39.42
	3⁄4"	\$34.63	\$37.02	\$39.42
	1"	\$86.59	\$92.55	\$98.55
	1-1/2"	\$173.17	\$185.10	\$197.10
	2"	\$277.08	\$296.16	\$315.36
	3"	\$519.52	\$555.30	\$591.30
	4"	\$865.87	\$925.50	\$985.50
	6"	\$1,731.74	\$1,851.00	\$1,971.00
	8"	\$2,770.79	\$2,961.60	\$3,153.60
Residential Customer Activation Fee		\$15.00	\$15.00	\$15.00

Base Charge. Charge per account based on meter size at the customer premise.

**Treatment Charge.** Charge per account based on water consumption as measured by Virginia American Water from meter at customer premise.

Description	Meter Size	Prior (Effective July 1, 2020) Per 1,000 Gallons	Current (Effective July 1, 2021) Per 1,000 Gallons	Adopted (Effective July 1, 2022) Per 1,000 Gallons
Individual Meter Residential Wastewater Charge	All Meters	\$8.13	\$8.69	\$9.26
Commercial Wastewater Treatment Charge	All Meters	\$8.13	\$8.69	\$9.26



AlexRenew's Indenture establishes nine (9) Funds into which monies may be deposited to manage operating and maintenance, non-operating, and capital obligations. The collection and deposit of monies typically occurs monthly at specified times and in specified amounts, and in a prescribed order of priority.

AlexRenew is required to collect and deposit *Revenues*, as defined in the Indenture, in the Revenue Fund and make monthly transfers to each of its actively managed Funds. Deposits to the Revenue Fund do not include Fairfax County Improvement, Renewal and Replacement (IRR) payments or Capital Contributions. These dollars are deposited by Fairfax County directly into the Joint Use Facilities Account of the IRR Fund or the Project or General Fund for capital outlay reimbursements, as appropriate.

The schedule below presents adopted, proposed, and estimated Revenues expected to be received by AlexRenew for the period FY 2022 – FY 2027, respectively. In addition, proposed Revenue transfers to various operating and non-operating Funds are provided to highlight the use or purpose of the funds.

Revenue Fund	Adopted FY2022	Proposed FY2023	VAR %	Estimated FY2024	Estimated FY2025	Estimated FY2026	Estimated FY2027
REVENUES AlexRenew Wastewater Treatment Charges	\$ 47,814,540	\$ 50,922,485	6%	\$ 53,621,377	\$ 56,302,446	\$ 59,004,963	\$ 60,067,052
Fairfax County Operating Expense Charge Total Revenues	\$ 10,785,305 58,599,845	\$ 11,694,706 62,617,191	8% <b>7%</b>	\$ 12,045,729 65,667,106	\$ 12,407,287 68,709,733	\$ 12,655,433 <b>71,660,396</b>	\$ 12,910,752 72,977,805
TRANSFERS							
Transfer to Operating Fund <sup>1</sup>	\$ 28,376,991	\$ 30,770,960	8%	\$ 31,496,409	\$ 32,441,600	\$ 33,039,087	\$ 33,700,069
Transfer to Parity Debt Service Fund	13,817,255	14,649,508	6%	16,358,494	19,036,687	21,257,774	21,405,144
Transfer to IRR Fund - Joint Use Facilities Account	2,319,561	2,410,801	4%	2,581,223	2,704,353	2,879,101	2,971,371
Transfer to IRR Fund - General Account	124,400	689,475	454%	2,077,725	191,000	166,000	166,000
Transfer to General Fund	13,961,638	14,096,447	1%	13,153,254	14,336,093	14,318,434	14,735,220
Total Uses	\$ 58,599,845	\$ 62,617,191	7%	\$ 65,667,106	\$ 68,709,733	\$ 71,660,396	\$ 72,977,804

<sup>1</sup> Includes entire Fairfax County Operating Expense Charge

## **Fairfax County Contributions**



The following schedule demonstrates the method by which Fairfax County annual payments and contributions are determined based on the capacity rights Fairfax County currently receives under the Agreement. The County currently makes equal monthly Operating Expense Charge installments into the Revenue Fund, equal monthly contributions into the Joint Use Facilities Account of the IRR Fund, and variable monthly capital contributions (formulaic reimbursements based actual capital expenditures) into the Project Fund.

perating Expense Charge: Total Estimated Operating Expenses Less Estimated "Alexandria Only" Expenses Net Estimated Joint Operating Expenses Estimated Fairfax County Net Flow	\$	28,386,991 (4,379,920) 24,007,071		30,442,988 (4,414,233)	7%	\$							
Total Estimated Operating Expenses Less Estimated "Alexandria Only" Expenses Net Estimated Joint Operating Expenses	Ĺ	(4,379,920) 24,007,071		(4,414,233)		*							
Less Estimated "Alexandria Only" Expenses Net Estimated Joint Operating Expenses	Ĺ	(4,379,920) 24,007,071		(4,414,233)		•							
Net Estimated Joint Operating Expenses	\$	24,007,071	\$	( , , ,		Þ	31,356,278	\$		\$	32,942,905	\$	33,601,763
	\$		\$	00 000 755	1%		(4,546,660)		(4,683,060)		(4,776,721)		(4,872,256
Estimated Fairfax County Net Flow			1	26,028,755	8%	\$	26,809,617	\$	27,613,906	\$	28,166,184	\$	28,729,50
		45.0%		45.0%			45.0%		45.0%		45.0%		45.0
Estimated Fairfaix County Operating Expense Charge		10,803,182		11,712,940	8%		12,064,328		12,426,258		12,674,783		12,928,278
Less Alexandria Only Flow Charge		(17,877)		(18,234)	2%		(18,599)		(18,971)		(19,350)		(17,52)
Estimated Fairfax County Operating Expense Charge	\$	10,785,305	\$	11,694,706	8%	\$	12,045,729	\$	12,407,287	\$	12,655,433	\$	12,910,752
R Fund - Joint Account Contribution:													
Estimated Joint Use Plant Investment	\$	809,394,053	\$	841,231,254	4%	\$	900,699,169	\$	943,664,099	\$	1,004,641,248	\$ :	1,036,838,184
Estimated Joint Use IRR Funding Percentage		0.7%		0.7%	0%		0.7%		0.7%		0.7%		0.7
Estimated Joint Use IRR Investment	\$	5,665,758	\$	5,888,619	4%	\$	6,304,894	\$	6,605,649	\$	7,032,489	\$	7,257,867
Investment Allocation at 60%	\$	5,269,155	\$	5,476,416	4%	\$	5.863.551	\$	6,143,254	\$	6,540,215	\$	6,749,816
Investment Allocation at 49%	Ť	339,946	Ť	353.317	4%	Ť	378,294	ľ	396.339	ľ	421,949	Ť	435.472
Investment Allocation at 32%		56.658		58,886	4%		63.049		66,056		70.325		72,579
Total IRR - Joint Account Investment	\$	5,665,758	\$	5,888,619	4%	\$	6,304,894	\$		\$		\$	7,257,867
Fairfax County Allocation at 60%	\$	3.161.493	\$	3,285,850	4%	\$	3.518.131	\$	3,685,952	\$	3,924,129	\$	4.049.890
Fairfax County Allocation at 49%	ľ	166,573	Ť	173,125	4%	Ť	185,364	ľ	194,206	Ľ	206,755	Ť	213,381
Fairfax County Allocation at 32%		18,130		18,844	4%		20,176		21,138		22,504		23,225
Total Fairfax County IRR - Joint Account Contribution		3,346,197		3,477,819	4%		3,723,670		3,901,297		4,153,388		4,286,496
Alex Renew Joint IRR Contribution		2,319,561		2,410,801	4%		2,581,223		2,704,353		2,879,101		2,971,371
apital Project Contribution - Joint Use Facilities:													
Estimated Joint Capital Improvements at 60%/40%	\$	13,059,213	\$	37,150,225	184%	\$	25,649,630	\$	43,395,891	\$	30,910,000	\$	21,705,000
Fairfax County Allocation at 60%	ľ	7,835,528	ľ	22,290,135	184%	ľ	15,389,778	Ť	26,037,535	ľ	18,546,000	Ť	13,023,000
Estimated Joint Capital Improvements at 49%/51%		1,110,000		650,000	-41%		150,000		150,000		1,200,000		-
Fairfax County Allocation at 49%		543,900		318,500	-41%		73,500		-		588,000		-
Estimated Joint Capital Improvements RiverRenew		93,320,649		57,800,000	-38%		73,700,000		90,900,000		9,300,000		-
Fairfax County Allocation <sup>1</sup>		11,471,731		8,091,252	-29%		10,158,466		14,521,004		820,409		-
Estimated Joint Capital Improvements at 32%/68%		-		-	0%		-				300,000		-
Fairfax County Allocation at 32%		-		-	0%		-				96,000		-
Total Fairfax County Capital Contribution		19,851,158		30,699,887	55%		25,621,744		40,558,539		20,050,409		13,023,000
Total Fairfax County Contributions	\$	33,982,661	\$	45,872,411	35%	\$	41,391,143	\$	56,867,122	\$	36,859,230	\$	30,220,249

<sup>1</sup> Fairfax County allocation based on Contractor Schedule of Values (Rev 1)

# **Operating Fund Statement**



AlexRenew manages its Operating Fund by functional area and strategic outcome. This allows the enterprise to understand the impact of each department on the overall budget and how monies are being spent to achieve key business objectives.

#### **Operational Excellence.**

This element of the operating budget primarily includes utilities and chemicals required to meet all regulatory compliance obligations for AlexRenew's cleaned water product as well as ongoing operating needs such as biosolids reuse and solids disposal.

#### Public Engagement and Trust.

This operating budget category includes community education and outreach, and customer collection and billing services.

#### Watershed Stewardship.

This operating budget item encompasses the costs for legal, financial, and engineering partners. It also includes the cost of supporting the operations and maintenance associated with the City's capacity rights at the Arlington County Water Pollution Control Plant.

#### Adaptive Culture.

This operating budget category covers personnel services including all compensation related costs, required safety materials, training and professional development, and licensing and dues. This operating budget item also contains the ancillary services required to ensure clean, safe water for the community and environment, including laboratory testing and research support.

#### Effective Financial Stewardship.

This component of the operating budget covers all preventative and corrective maintenance for infrastructure assets, technology investments, general back-office support, and annual asset renewal and insurance needs.

Operating Fund		Adopted FY2022		Proposed FY2023	VAR %		Estimated FY2024		Estimated FY2025		Estimated FY2026		Estimated FY2027
REVENUES													
Transfer from Revenue Fund	\$	28,376,991	\$	30,770,960	8%	\$	31,496,409	\$	32,441,600	\$	33.039.087	\$	33,700,069
Interest Income		10,000		10,000	0%	Ľ	10,000	Ľ	10,000	Ľ	10,000	Ľ	10,000
Total	\$	28,386,991	\$	30,780,960	8%	\$	31,506,409	\$	32,451,600	\$	33,049,087	\$	33,710,069
EXPENSES Operational Excellence Public Engagement and Trust	\$	7,168,460 2,385,686	\$	8,752,407 2,564,960	22% 8%	\$	9,014,980 2,641,909	\$	9,285,429 2,721,166	\$	9,471,138 2,775,589	\$	9,660,560 2,831,101
Watershed Stewardship Adaptive Culture Effective Financial Stewardship		2,758,250 14,073,082 2,001,514		2,622,403 14,657,154 1,846,064	-5% 4% -8%		2,701,075 15,096,868 1,901,446		2,782,108 15,549,774 1,958,489		2,837,750 15,860,770 1,997,659		2,894,505 16,177,985 2,037,612
Total	\$	28,386,992	\$	30,442,988	7%	\$	31,356,278	\$	32,296,966	\$	32,942,905	\$	33,601,763
FUND BALANCE - Beginning FUND BALANCE - Ending <sup>1</sup>	\$ \$	4,666,355 4,666,354	\$ \$	4,666,354 5,004,326		\$ \$	5,004,326 5,154,457	\$ \$	5,154,457 5,309,091	\$ \$	5,309,091 5,415,272	\$ \$	5,415,272 5,523,577

<sup>1</sup> Operating Reserve Requirement of 60 days cash

# Adaptive Culture Highlights



AlexRenew continues to invest in its workforce to attract, retain and continuously develop top tier water sector professionals. Over \$13.3 million (44%) of AlexRenew's budgeted operating expenditures are utilized for personnel expenses, consisting of salaries and benefits. Salaries are provided for full and part time employees, while fringe benefits for qualifying employees include healthcare, retirement, social security, short and long-term disability, personal protective gear and other competitive benefits. Paid time off is provided at a rate based on years of service.

Personnel B	Bud	get	Operating Budget						
Salaries	\$	9,739,942	Personnel	\$	13,339,176				
Benefits		3,599,234	Non-Personnel		17,103,812				
Total Personnel Budget	\$	13,339,176	Total Operating Budget	\$	30,442,988				

Other personnel and compensation highlights from the FY 2023 Budget include:

- In keeping with AlexRenew's Board enacted compensation philosophy, AlexRenew recently completed a compensation study to benchmark positions and determine the competitive posture of AlexRenew's compensation packages. AlexRenew has 14 general salary grades. The results of the compensation study led to adjustments in salary bands and positions, which have been incorporated into the FY 2023 budget. Employees are eligible for performance-based pay increases ranging from 2.0 to 5.0% of salary.
- In December 2021, AlexRenew received the employee health insurance renewal rates from United Healthcare. The renewal rate was four percent (4%). AlexRenew will continue to offer only one medical plan option, High Deductible with a Health Savings Account. AlexRenew pays 85% for employee-only premiums and 83% of dependent coverage.
- AlexRenew continues to offer a benefits program that balances quality and affordability and includes broad offerings such as the Employee Assistance Program, short and long term disability, family care & tutoring services through Care@Work, legal and identity theft support, and a robust Employee Wellness Incentive Program that encourages participation in wellness program activities, events, and challenges.
- A total of 1,440 hours of safety training are planned for AlexRenew employees during FY 2023, reflecting investment in the safety of AlexRenew team members beyond mandated trainings.

#### **Retirement Benefit**

Budgeted funds for staff retirement are the contributions AlexRenew pays into the Virginia Retirement System (VRS). VRS administers pension plans and other benefits for Virginia's covered public sector employees and updates the employer contribution every other even calendar year. AlexRenew's contribution to VRS increased from 7.27% to 8.19% in July 2022 through June 2024.

Full-time, regular employees hired since January 1, 2014 have been placed into the VRS Hybrid plan unless they are already participating in VRS from previous employment. The VRS Hybrid plan does not offer disability benefits as part of its core provisions. VRS has offered the VLDP (Virginia Local Disability Plan) for jurisdictions who do not elect to opt out. AlexRenew has opted out of the VLDP Plan and provides a comparable disability plan.

AlexRenew currently has 20 employees in the VRS Plan 1 retirement plan, which allowed enrollment before July 1, 2010. AlexRenew has 7 employees in the VRS 2 retirement plan, which was available between July 1, 2010 and December 31, 2013. 71 employees are enrolled in the VRS Hybrid plan, which started on January 1, 2014 and is still in effect.

#### Other Post-Employment Benefits (OPEB)

OPEB funding supports retiree healthcare benefits. The FY 2023 budget provides for approximately \$150,000 in OPEB funding. AlexRenew currently has 5 retirees receiving this benefit.



#### Workforce by Full Time Equivalent (FTE)

As shown below by Focus Area, the FY 2023 budget includes a modest increase in head count (the addition of two FTEs) compared to the FY 2022 Adopted Budget.

Focus Area	FY 2022 Adopted	FY 2023 Proposed	FTE Impact
Effective Financial Stewardship			
Executive Finance	5 11	4 11	-1 0
Subtotal	16	15	-1
Watershed Stewardship			
Strategy & Policy Laboratory	3 8	5 7	+2 -1
Subtotal	11	12	+1
Public Engagement and Trust			
Communications	2.5	5	+2.5
Subtotal	2.5	5	+2.5
Operational Excellence			
Operations & Maintenance Engineering & Planning Information Systems	69 12 7	70 8 9	+1 -4 +2
Subtotal	88	87	-1
Adaptive Culture			
Human Resources	3	3.5	+0.5
Subtotal	3	3.5	+0.5
Grand Total	120.5	122.5	+2

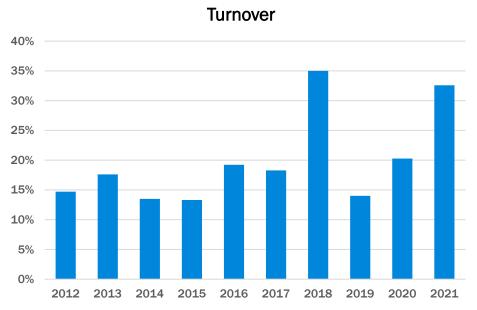
#### Equity in the Workplace

AlexRenew is committed to fostering, promoting, and preserving a culture of diversity and inclusion throughout the workplace. To support this commitment, our current diversity and inclusion initiatives extend to our practices and policies on recruitment and selection; compensation and benefits; professional development and training; and the ongoing development of a work environment built on the premise of gender and diversity equity.



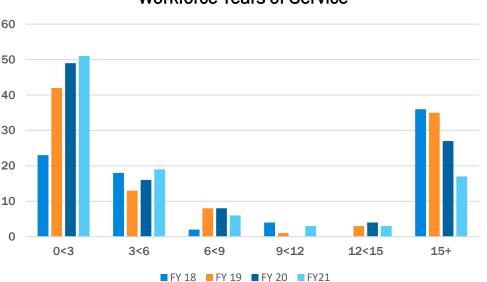
#### Workforce Impacts

AlexRenew saw continued workforce impacts due to pandemic related stresses as employees made life decisions affecting their tenure at AlexRenew. AlexRenew continues to utilize the apprentice program for succession development for its trades.



#### Years of Service

Almost three quarters of the current workforce (70%) has been employed with AlexRenew for ten years or less while 30% have worked for AlexRenew for more than 10 years. The average years of service is currently nine (9) years. Over the past three years, the number of AlexRenew employees with less than three years of service increased while those with fifteen years of service or more decreased, in part due to a voluntary retirement program initiated during 2020.

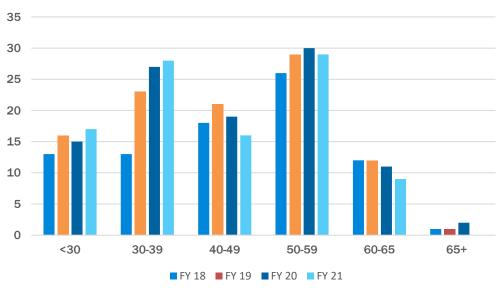


#### Workforce Years of Service



#### **Employee Demographics**

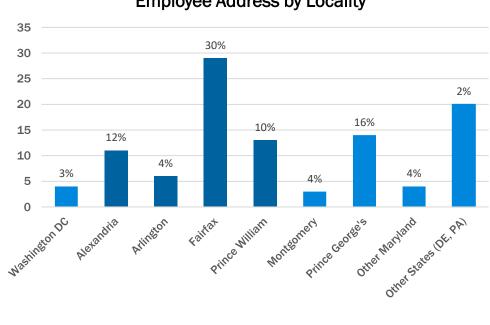
Over eighty three percent (83%) of AlexRenew's workforce falls within the ages of 30 and 60 years old with an average age of 44 years old. The percentage of the AlexRenew workforce in the 30-39 and 50-59 age range have increased considerably over the past three years, while the 60-65 age range has declined.



Workforce Age in Years

#### Employee Home Address by Locality

Just over half (57%) of AlexRenew's workforce live in Virginia (depicted in dark blue below) and twelve percent (12%) live in the City of Alexandria. The remainder live in Washington DC (3%) or in surrounding states such as Maryland.



# **Employee Address by Locality**



The Parity Debt Service Fund includes the amounts due in FY 2023 to pay principal and interest on outstanding and projected AlexRenew debt. To date, AlexRenew has borrowed from the Virginia Clean Water Revolving Loan Fund (CWRLF) and Virginia Pooled Financing Program (VPFP) through the Virginia Resources Authority (VRA) as well as through the federal Water Infrastructure Financing and Innovation Act (WIFIA) loan program. Within the context of the Indenture, capital funding in this manner is deemed parity debt.

During FY 2021, AlexRenew issued two new sewer revenue bonds to fund construction associated with the RiverRenew capital program – a loan of up to \$185.6 million from the CWRLF and a loan of up to \$320.9 million from the WIFIA program. In total, the FY 2023 budget assumes that AlexRenew funds \$118 million of its capital spending through debt or grants.

The debt service schedules below make certain assumptions about the pace of spending the debt proceeds and the repayment schedules shown for the Series 2021 CWRLF and WIFIA Bonds may vary (but will not exceed) the levels shown below. AlexRenew's outstanding bonds bear interest at fixed interest rates; the Series 2021 CWRLF Bonds at 1.35%, the Series 2021 WIFIA Bonds at a 1.88% and the Series 2019 Bonds at a 1.10%. Repayment of the Series 2021 CWRLF Bonds begins in the upcoming FY 2023 while the Series 2021 WIFIA Bond payments begin in FY 2025. AlexRenew is also working with its financial advisor and the CWRLF to reset the rate on its Series 2011 Bonds for net present value savings, which are not yet reflected in the figures below.

AlexRenew also currently maintains a \$30 million line of credit with a commercial bank to provide cash flow flexibility. AlexRenew fully drew on the facility in FY 2021 to fund RiverRenew construction and expects to repay the line with bond proceeds in the future. The line of credit bears interest at a variable rate. The line of credit is considered subordinate debt under the Indenture and as such, projected interest and fees associated with it are budgeted as an operating expense rather than included in the Parity Debt Service fund.

Parity Debt Service Fund	Adopted FY2022	Proposed FY2023	Estimated FY2024	Estimated FY2025	Estimated FY2026	Estimated FY2027
REVENUES						
Beginning Balance	\$ 12,365	\$ 0	\$ 0	\$ (0)	\$ (0)	\$ 0
Transfer from Revenue Fund	13,817,255	14,649,508	16,358,494	19.036.687	21,257,774	21,405,144
Interest Income	90,000	90,000	90,000	90,000	90,000	90,000
Total Revenue	13,919,620	14,739,508	16,448,494	19,126,687	21,347,774	21,495,144
EXPENDITURES						
VRA BOND SERIES OOB INTEREST	\$ 345,827	\$ 77,464	\$-	\$-	\$-	\$-
VRA BOND SERIES OOB PRINCIPAL	6,589,727	4,024,113	-	-	-	-
VRA BOND SERIES 04 INTEREST	45,433	31,609	17,646	3,543	-	-
VRA BOND SERIES 04 PRINCIPAL	1,378,979	1,392,803	1,406,766	708,669	-	-
VRA BOND SERIES 06 INTEREST	48,246	39,187	30,038	20,798	12,979	5,589
VRA BOND SERIES 06 PRINCIPAL	903,561	912,620	921,769	830,185	737,180	744,570
VRA BOND SERIES 09 INTEREST	197,438	175,299	152,554	129,186	105,178	80,51
VRA BOND SERIES 09 PRINCIPAL	808,439	830,578	853,324	876,692	900,700	925,36
VRA BOND SERIES 11 INTEREST	129,590	120,332	110,856	101,157	91,277	81,06
VRA BOND SERIES 11 PRINCIPAL	391,620	400,877	410,353	420,053	429,982	440,14
VRA BOND SERIES 14A INTEREST	120,112	112,361	104,513	96,566	88,520	80,37
VRA BOND SERIES 14A PRINCIPAL	618,159	625,910	633,758	641,705	649,751	657,89
VRA BOND SERIES 14B INTEREST	22,362	20,857	19,333	17,792	16,231	14,65
VRA BOND SERIES 14B PRINCIPAL	125,062	126,567	128,117	128,859	130,410	132,77
VRA BOND SERIES 14C INTEREST	855,463	841,625	827,019	811,772	795,756	775,71
VRA BOND SERIES 14C PRINCIPAL	260,000	280,000	290,000	305,000	320,000	490,00
VRA BOND SERIES 17A INTEREST	907,506	892,772	862,534	830,759	797,319	762,08
VRA BOND SERIES 17A PRINCIPAL	-	575,000	605,000	635,000	670,000	705,00
VRA BOND SERIES 19 INTEREST	167,096	114,070	112,970	111,870	110,220	107,47
VRA BOND SERIES 19 PRINCIPAL	5,000	100,000	100,000	100,000	300,000	100,00
VRA BOND SERIES 21 INTEREST	-	3,045,463	3,597,117	8,867,258	2,293,042	2,234,38
VRA BOND SERIES 21 PRINCIPAL	-	-	5,264,825	2,442,336	6,514,011	6,572,67
WIFIA BOND SERIES 21 INTEREST	-	-	-	1,047,488	6,284,926	6,284,09
WIFIA BOND SERIES 21 PRINCIPAL	-	-	-	-	100,291	300,78
TOTAL EXPENSES	\$ 13,919,620	\$ 14,739,509	\$ 16,448,494	\$ 19,126,687	\$ 21,347,774	\$ 21,495,144
Total Interest	2,839,073	5,471,040	5,834,582	12,038,188	10,595,449	10,425,93
Total Principal	11,080,547	9,268,468	10,613,912	7,088,499	10,752,325	11,069,20



The Improvement, Renewal & Replacement (IRR) Fund – Joint Use Facilities Account funds the project costs associated with the upgrade of infrastructure and equipment for the portions of the facility used jointly by the City and Fairfax County.

As noted in the accompanying schedule, contributions to the Joint Use Facilities Account are made annually by both AlexRenew and Fairfax County in a combined amount equal to 0.7% of AlexRenew's estimated joint capital asset value for FY 2023. Fairfax County's portion of the total contribution is also based on the allocation percentages detailed on page 16 and affirmed in the Agreement.

Planned spending in the IRR program is expected to increase in the upcoming FY 2023 to provide funding for smaller projects in broad, treatment-process-based categories (e.g., preliminary/primary, secondary, solids, tertiary), as well as several new projects (e.g., UV system rehabilitation, warehouse upgrades, network upgrades, SCADA/PLC work) and ongoing investments in cybersecurity.

IRR Fund - Joint Use Facilities Account		Adopted FY2022		Proposed FY2023	VAR %		Estimated FY2024		Estimated FY2025		Estimated FY2026		Estimated FY2027
REVENUES	<b></b>	0.040.504	<b>_</b>	0 440 004	4.07	<b>~</b>	0 504 000	<i>•</i>	0 704 050	<i>•</i>	0 704 050	¢	0 070 404
Revenue Fund Transfer	\$	2,319,561	⇒	2,410,801	4%	\$	2,581,223	\$	2,704,353		2,704,353	\$	2,879,101
Fairfax County Contribution		3,346,197		3,477,819	4%		3,477,819		3,723,670		3,901,297		4,153,388
Total Revenues	\$	5,665,758	\$	5,888,619	4%	\$	6,059,042	\$	6,428,023	\$	6,605,649	\$	7,032,489
EXPENSES													
Campus Digital Signage	\$	_	\$	_	_	\$	_	\$		\$	140.000	¢	
Campus Wide Projects	Ψ	315.600	Ť	1,178,756	273%	Ψ	1.101.944	Ψ	1.200.000	Ψ	1,200,000		2,281,699
Collection System Projects		15,000		15.000	0%		15.000		15.000		15,000		15.000
Compliance Laboratory		13,000		45.500	100%		50.000		20.000		10,000		20.000
Information Technology Projects		1,350,000		3,000,000	122%		2,000,000		1,800,000		1,000,000		500,000
Preliminary / Primary Infrastructure		80,000		80,800	1%		2,000,000 85,648		86,504		87,370		34,948
PLC Equipment and Network Upgrades		80,000		300,000	100%		300,000		300,000		300.000		300,000
Safety and Security		-		355,000	100%		355,000		300,000		300,000		300,000
Secondary Infrastructure		1,638,000		1,737,099	100% 6%		1,754,470		- 1,772,015		1,789,735		1,807,633
Solids Infrastructure					-39%								
		1,635,500		1,000,000			750,000		750,000		1,000,000		1,000,000
Tertiary Infrastructure		633,000		2,240,700	254%		2,252,100		1,763,900		1,776,000		683,500
UV System Rehabilitation		-		225,000	100%		-		-		325,810		-
Warehouse and Inventory Upgrades		-		150,000	100%		500,000		500,000		150,000		25,000
WRRF Fire Alarm Upgrade		-		-	-		-		50,000		300,000		1,000,000
Joint IRR Expenses	\$	5,667,100	\$	10,327,856	82%	\$	9,164,163	\$	8,257,420	\$	8,083,916	\$	7,667,781
FUND BALANCE - Beginning	\$	12,445,000	\$	11,545,464		\$	7.106.227	\$	4,001,106	\$	2.171.710	\$	693,443
FUND BALANCE - Ending	\$	11,545,464	\$	7,106,227		\$	4,001,106	\$	2,171,710		693,443		58,151



The Improvement, Renewal & Replacement (IRR) Fund – General Account funds the project costs associated with the upgrade of infrastructure and equipment for the portions of the facility used for the benefit of the City only.

Contributions to the General Account are made annually for projects AlexRenew determines are necessary to maintain the safe and effective operation of the facility.

The proposed Alex-only IRR program increased year-over-year to accommodate the procurement and implementation of a new customer information system that is required by January 2024 and maintains funding levels for collection system and Alex-only campus needs.

IRR Fund - General Account	Adopted FY2022	Proposed FY2023	VAR %	Estimated FY2024	Estimated FY2025	Estimated FY2026	Estimated FY2027
Revenues Revenue Fund Transfer	\$ 124.400	\$ 689.475		\$ 2.077.725	\$ 191,000	\$ 166.000	\$ 166.000
Total Revenue	\$ 124,400	689,475	454%	\$ 1- 1 -	\$ 191,000	\$ 166,000	\$ 166,000
Expenses							
Billing and Customer Information System	\$ -	\$ 523,475	-	\$ 1,728,725	\$ 25,000	\$ -	\$ -
Campus Wide Projects	21,000	22,000	5%	205,000	22,000	22,000	22,000
Collection System Projects	103,400	144,000	39%	144,000	144,000	144,000	144,000
Total Expenses	\$ 124,400	\$ 689,475	454%	\$ 2,077,725	\$ 191,000	\$ 166,000	\$ 166,000

### **General Fund Statement**



The General Fund is the repository of funds remaining after deposits to all other Funds are made and may be used for any lawful purpose of AlexRenew. AlexRenew uses the General Fund to finance City-only capital improvements, contribute PAYGO (cash) funding to the Joint capital program, manage unanticipated expenditures, and maintain sufficient reserves to promote ongoing financial strength.

The General Fund balance is projected to decrease slightly (by \$1.2 million or 3%) through FY 2023 but remain strong at fiscal year-end, with a projected balance of over \$35 million.

General Fund	Adopted FY2022	Proposed FY2023	VAR %	Estimated FY2024	Estimated FY2025	Estimated FY2026	Estimated FY2027
REVENUES							
Revenue Fund Transfer	\$ 13,961,638	\$ 14,096,447	1%	\$ 13,153,254	\$ 14,336,093	\$ 14,318,434	\$ 14,735,220
Interest Income	15,000	15,000	0%	15,000	15,000	15,000	15,000
Total Revenues	\$ 13,976,638	\$ 14,111,447	1%	\$ 13,168,254	\$ 14,351,093	\$ 14,333,434	\$ 14,750,220
EXPENSES							
Alex-only General Capital Exenses	\$ 4,532,005	\$ 3,481,290	-23%	\$ 5,629,800	\$ 6,366,008	\$ 5,096,386	\$ 3,667,740
Transfer to Joint CIP Project Fund	17,527,058	11,886,206	-32%	7,017,043	12,687,119	0	C
Total Expenses	\$ 22,059,063	\$ 15,367,496	-30%	\$ 12,646,843	\$ 19,053,127	\$ 5,096,386	\$ 3,667,740
Fund Balance Increase (Decrease)	\$ (8,082,424)	\$ (1,256,049)		\$ 521,411	\$ (4,702,034)	\$ 9,237,048	\$ 11,082,480
Fund Balance - Beginning	\$ 45,046,760	\$ 42,250,354		\$ 36,964,336	\$ 37,485,746	\$ 37,485,746	\$ 32,783,713
Fund Balance - Ending	\$ 36,964,336	\$ 40,994,305		\$ 37,485,746	\$ 32,783,713	\$ 46,722,794	\$ 43,866,193
General Reserve sub-Fund <sup>1</sup>	\$ (4,666,355)	\$ (5,004,327)		\$ (5,154,457)	\$ (5,309,090)	\$ (5,309,090)	\$ (5,415,272
Available Balance	\$ 32,297,981	\$ 35,989,978	11%	\$ 32,331,290	\$ 27,474,622	\$ 41,413,704	\$ 38,450,921

<sup>1</sup> Additional Operating Reserve Requirement of 60 days cash per Board-approved Financial Policies



#### **Capital Improvement Program**

AlexRenew manages its capital outlay for both Joint Use and City only infrastructure and equipment through its Capital Improvement Program (CIP). The CIP is summarized in the 10-year plan and is a key element in planning for and managing to future regulatory compliance through large-scale capital investments.

The 10-year plan is an important tool used to formulate future project financing plans, maximize federal and state grant opportunities, proactively plan for the replacement or reconstruction of essential assets nearing the end of their service life, and schedule and coordinate the execution of multiple projects to minimize operational impact. The FY 2023 – FY 2032 CIP includes project cost assumptions for all capital projects, including the RiverRenew program, as well as the Improvement, Renewal and Replacement program.

While the CIP provides a long-term roadmap for planned capital expenditures, AlexRenew retains the ability to defer projects if needed, and may elect to defer certain new capital projects, depending on revenue performance throughout the fiscal year.

#### **Definition of Capital Projects**

A capital project involves expenditures to construct or acquire assets of a relatively permanent nature such as property, plant, and equipment with a useful life that exceeds approximately two years.

#### **CIP Funding**

Potential funding sources for CIP projects include loans from the Virginia Department of Environmental Quality (VA DEQ), Clean Water Revolving Loan Fund (CWRLF), Virginia Pooled Financing Program (VPFP), Commonwealth of Virginia Grant programs, Water Infrastructure Finance and Innovation Act (WIFIA) loans, revenue bond issues, bank loans and lines of credit, grants, and AlexRenew cash and reserves, also called pay-as-you-go (PAYGO) funds. To comply with its Board-adopted Financial Policies, AlexRenew funds at least 15% of the annual CIP with PAYGO funds.

#### Alex-Only CIP

Capital projects that are the responsibility of AlexRenew only are funded from General Fund resources and/or using various financing instruments. Costs associated with the Alex-only CIP are detailed on page 32 and specific project information is provided on pages 33-49.

#### Joint-Use CIP

Capital projects for which AlexRenew and Fairfax County share joint responsibility are funded pay-as-you-go from General Fund resources and/or using various financing instruments. Costs associated with the Joint Use Facilities CIP are detailed on pages 50-51 and project information is found on pages 52-109.

#### **Proposed CIP Overview**

AlexRenew is proposing a FY 2023 capital budget of \$175.8 million and a total 10-year capital budget of \$678.6 million. Based on current project spending projections, the capital spend in FY 2023 is expected to be similar to the year prior and remain at a similarly elevated level until the RiverRenew Tunnel System project concludes. The total 10-year budgeted CIP expenditures decreased year-over-year as the first major year of Tunnel System spend was completed in the prior FY 2022.

In addition to RiverRenew, highlights of the FY 2023 CIP include:

• Funding for City-only projects such as improvements to the Potomac Yard and Four Mile Run Pump Stations and design and construction of the Innovation District Pump Station

• Continued funding for ongoing Joint CIP projects such as Preliminary/Primary System Upgrades, Tertiary Filter Repairs, W3 System Improvements, and Solids Master Planning work

• New funding for CIP projects that grew out of IRR work related to the Preliminary Settling Tanks and Secondary Settling Tanks

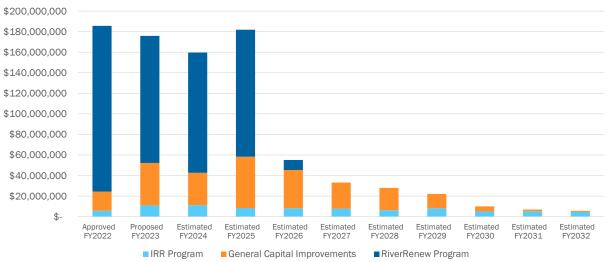
• New funding to track study drivers in areas such as regulatory strategy, sustainability and resilience



Highlights of the 10-year plan include:

- Continued funding for the RiverRenew Tunnel System project through 2025
- Continued funding for Preliminary Primary System upgrades through 2026
- Increased investments for IT systems and infrastructure and care of existing digital assets
- Funding for future Solids Management projects to come from master planning initiative through 2029
- Continued capital contributions to Arlington County
- Periodic plant and external systems odor control system upgrades
- Contingency based on overall capital spend

The graph below illustrates the planned capital spending over the 10-year period including the significant increase in capital spend for RiverRenew through 2025.



Draft Proposed CIP Expenditures - 10-year Forecast

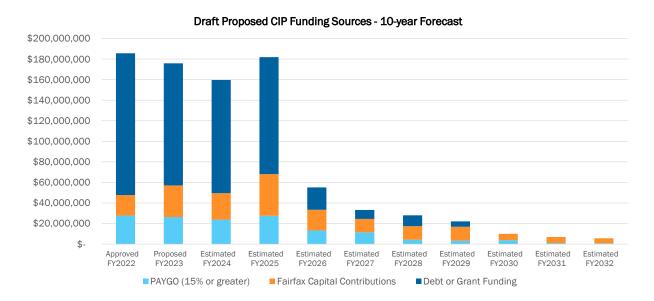
The specific funding sources for the proposed CIP include PAYGO (cash contributions from AlexRenew's operations and reserves), capital contributions from Fairfax County (which are determined according to negotiated percentages for the relevant project), and debt or grant funding. Per AlexRenew's Financial Policies, at least 15% of the CIP is funded from PAYGO each fiscal year.

Expected debt and grant funding sources include proceeds from four existing AlexRenew loans – its Series 2017, Series 2019 and Series 2021 Bonds issued through the Virginia Clean Water Revolving Loan Fund (CWRLF) and the Series 2021 WIFIA loan. Additional details on the loans can be found on pages 23-24 under the detailed Parity Debt Service Fund statement.

Although funding from the debt facilities is projected to be sufficient to fund the capital plan, AlexRenew has also pursued grant funding to support the RiverRenew program; to the extent additional grant proceeds are available in the coming fiscal years, a like amount less debt would be utilized to fund capital work that year. The graph on the following page illustrates the planned capital funding sources over the 10-year period including the significant debt financing to be utilized in the next several fiscal years to fund the high level of ongoing RiverRenew construction.

# **Capital Improvement Program**

The proposed CIP and related funding strategies comply with all relevant AlexRenew financial policies including the required 15% PAYGO funding requirement and sufficient projected net revenues to produce coverage of debt service requirements in excess of the 1.5x policy minimum.



The pages to follow provide additional detail on the specific funding levels for each project over each of the next ten fiscal years, as well as a project sheet for each major project detailing the project's description, justification, benefits, milestones, useful life, and impact to the community.





#### SUMMARY OF ESTIMATED EXPENDITURES

		Approved FY2022	Proposed FY2023	Estimated FY2024		Estimated FY2025	Estimated FY2026	Estimated FY2027	Estimated FY2028	Estimated FY2029	Estimated FY2030	Estimated FY2031	Estimated FY2032	P	Project Totals FY23-32
IRR Program															
Alex-only IRR	\$	124,400	\$ 689,475	\$ 2,077,725	\$	191,000	\$ 166,000	\$ 166,000	\$ 899,000	\$ 1,966,000	\$ 206,000	\$ 166,000	\$ 166,000	\$	6,693,200
Joint IRR	\$	5,667,100	\$ 10,327,855	\$ 9,164,162	\$	8,257,419	\$ 8,083,915	\$ 7,667,780	\$ 5,411,922	\$ 6,210,677	\$ 4,897,077	\$ 5,082,033	\$ 4,443,275	\$	69,546,115
IRR Program Subtotal	\$	5,791,500	\$ 11,017,330	\$ 11,241,887	\$	8,448,419	\$ 8,249,915	\$ 7,833,780	\$ 6,310,922	\$ 8,176,677	\$ 5,103,077	\$ 5,248,033	\$ 4,609,275	\$	76,239,315
General CIP															
Alex-only Capital Improvement Projects	\$	4,532,005	\$ 3,481,290	\$ 5,471,040	\$	5,414,440	\$ 4,097,240	\$ 3,667,740	\$ 3,479,000	\$ 4,513,040	\$ 870,000	\$ 460,000	\$ 460,000	\$	31,913,790
Joint Capital Improvement Projects	\$	14,169,213	\$ 37,800,225	\$ 25,958,390	\$	44,497,459	\$ 33,109,146	\$ 21,705,517	\$ 18,229,410	\$ 9,430,910	\$ 4,053,910	\$ 1,247,910	\$ 642,632	\$	196,675,509
General CIP Subtotal	\$	18,701,218	\$ 41,281,515	\$ 31,429,430	\$	49,911,899	\$ 37,206,386	\$ 25,373,257	\$ 21,708,410	\$ 13,943,950	\$ 4,923,910	\$ 1,707,910	\$ 1,102,632	\$	228,589,299
RiverRenew Program															
RiverRenew Bdg J Fac. Reloc. & Decom.	\$	100,000	\$ -	\$ -	\$	-	\$ -	\$	-						
RiverRenew Tunnel System	\$	161,077,699	\$ 123,600,000	\$ 117,000,000	\$	123,500,000	\$ 9,700,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	373,800,000
RiverRenew Subtotal	\$	161,177,699	\$ 123,600,000	\$ 117,000,000	\$	123,500,000	\$ 9,700,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	373,800,000
Total CIP Expenditures	\$:	185,670,417	\$ 175,898,845	\$ 159,671,317	\$1	181,860,318	\$ 55,156,301	\$ 33,207,037	\$ 28,019,332	\$ 22,120,627	\$ 10,026,987	\$ 6,955,943	\$ 5,711,907	\$(	678,628,614

#### SUMMARY OF ESTIMATED FUNDING SOURCES

		Approved	Proposed	Estimated		Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	F	Project Totals
		FY2022	FY2023	FY2024		FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032		FY23-32
Joint IRR Fund	\$	5,667,100	\$ 10,327,855	\$ 9,164,162	\$	8,257,419	\$ 8,083,915	\$ 7,667,780	\$ 5,411,922	\$ 6,210,677	\$ 4,897,077	\$ 5,082,033	\$ 4,443,275	\$	69,546,115
General Fund PAYGO	\$	22,183,463	\$ 16,056,971	\$ 14,565,808	\$	18,292,559	\$ 4,263,240	\$ 3,833,740	\$ 4,378,000	\$ 6,479,040	\$ 1,076,000	\$ 626,000	\$ 626,000	\$	70,197,358
Fairfax Capital Contributions	\$	19,851,158	\$ 30,699,887	\$ 25,621,744	\$	40,558,539	\$ 20,050,409	\$ 13,023,000	\$ 13,413,690	\$ 5,658,546	\$ 2,432,346	\$ 748,746	\$ 385,579	\$	152,592,486
Known Grant Funding	\$	25,000,000	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
Series 2019 CWRLF Bonds	\$	301,200	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	
Series 2021 CWRLF Bonds	\$	112,667,496	\$ 72,982,504	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	72,982,504
Series 2021 WIFIA Bonds	\$	-	\$ 45,831,628	\$ 110,319,603	\$	114,751,801	\$ 22,758,737	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	293,661,769
Future Debt	\$	-	\$ -	\$ -	\$	-	\$ -	\$ 8,682,517	\$ 4,815,720	\$ 3,772,364	\$ 1,621,564	\$ 499,164	\$ 257,053	\$	19,648,382
Debt or Grant Funding Subtotal	\$	137,968,696	\$ 118,814,132	\$ 110,319,603	\$	114,751,801	\$ 22,758,737	\$ 8,682,517	\$ 4,815,720	\$ 3,772,364	\$ 1,621,564	\$ 499,164	\$ 257,053	\$	386,292,655
-															
Total Estimated CIP Funding	\$1	L85,670,417	\$ 175,898,845	\$ 159,671,317	\$1	181,860,318	\$ 55,156,301	\$ 33,207,037	\$ 28,019,332	\$ 22,120,627	\$ 10,026,987	\$ 6,955,943	\$ 5,711,907	\$	678,628,614

# FY23 10-year Capital Improvement Program – Detailed Expenditures



		Adopted FY2022		Proposed FY2023		Estimated FY2024		Estimated FY2025		stimated FY2026		mated 2027		Estimated FY2028		Estimated FY2029		Estimated FY2030		Estimated FY2031		Estimated FY2032	F	roject Totals FY23-32
Alex-Only Capital Improvement Program Interceptor/ Trunk Sewers Rehabilitation Program																								
Commonwealth Interceptor Rehabilitation	\$	-	\$	-	\$	-	\$	313.000	\$	-	\$	-	\$	-	\$	-	\$	385,000	\$	-	\$	-	\$	698.000
Potomac Interceptor Rehabilitation	\$	-	\$	-	\$	-	\$	540,000	\$	1,200,000	\$ 1	,800,000	\$	1,800,000	\$	3,590,000	\$		\$	-	\$	-	\$	8,930,000
Improvement, Renewal & Replacement Program																								
IRR: Billing and Customer Information System	\$	-	\$	523,475	\$	1,728,725	\$	25,000	\$	-	\$	-	\$	550,000	\$	1,800,000	\$	40,000	\$	-	\$	-	\$	4,667,200
IRR: Campus Wide Projects	\$	21,000	\$	22,000	\$	205,000	\$	22,000	\$	22,000	\$	22,000	\$	205,000	\$	22,000	\$	22,000	\$	,	\$	22,000	\$	586,000
IRR: Collection System Projects	\$	103,400	\$	144,000	\$	144,000	\$	144,000	\$	144,000	\$	144,000	\$	144,000	\$	144,000	\$	144,000	\$	144,000	\$	144,000	\$	1,440,000
RiverRenew Program																								
RiverRenew Tunnel System - Category 1, City-only Portion	\$	67,857,050	\$	65,800,000	\$	43,300,000	\$	32,600,000	\$	400,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	142,100,000
Service Chambers and Pump Stations Upgrade Program	\$		\$			455 000			•		•				\$									
Bush Hill Service Chamber Four Mile Run Pump Station Modifications	\$ \$	-	\$	- 850,000	\$ \$	155,000	\$ \$	310,000	\$ \$	775,000	\$ \$	-	\$	-	⇒ \$		\$ \$	-	\$ \$		\$ \$		\$ \$	1,240,000 850,000
Innovation District Pumping Station Design and Construction	\$	125,000	ŝ	86,900	\$	-	\$	-	\$ \$	-	\$	-	\$	-	\$	-	\$	-	\$		\$		\$	86,900
Mark Center Pump Station Study	\$	-	\$	-	\$	260,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	260,000
Potomac Yards PS: Odor Control and Ventilation System Upgrade	\$	2,042,065	\$	240,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	240,000
WRRF Improvements Program																								
4 MGD WRRF Expansion Facility Plan	\$	-	\$	-	\$	-	\$	-	\$	-	\$ 1	,000,000	\$	1,000,000	\$	-	\$	-	\$	-	\$	-	\$	2,000,000
NMF Wet Well Elimination Study and Preliminary Design	\$	-	\$	-	\$	-	\$	-	\$	100,000	\$	200,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	300,000
Other Capital																								
Arlington County Capital Contributions	\$	1,817,000	\$	1,613,000	\$	4,334,000	\$	3,493,000	\$	1,318,000	\$	205,000	\$	204,000	\$	211,000	\$	210,000	\$	,	\$	210,000	\$	12,008,000
Capital Financing Fees	\$	250,000	\$	250,000	\$	250,000	\$	250,000	\$	250,000	\$	150,000	\$	150,000	\$	150,000	\$	150,000	\$	150,000	\$	150,000	\$	1,900,000
CONTINGENCY																								
Contingency on Alex-Only Funding Excluding RiverRenew	\$	297,940	\$	441,390	\$	472,040	\$	508,440	\$	454,240	\$	312,740	\$	325,000	\$	562,040	\$	125,000	\$	100,000	\$	100,000	\$	3,400,890
Alex-Only Capital Project Subtotal	¢	72,513,455		69,970,765	¢	50,848,765	¢	38,205,440	\$	4,663,240	\$ 36	833,740	¢	4,378,000	\$	6,479,040	¢	1,076,000	¢	626,000	¢	626,000	\$	180,706,990
	*	72,010,400	*	03,370,703	*	30,848,703	*	38,203,440	Ψ	4,003,240	Ψ 0,0	555,740	¥	4,378,000	*	0,473,040	¥	1,070,000	*	020,000	*	020,000	¥	130,700,330
Joint-Use Capital Improvement Program																								
Interceptor/ Trunk Sewers Rehabilitation Program																								
Commonwealth Interceptor Pile Intrusion	\$	-	\$	-	\$	-	\$	1 760 000	\$	,		750,000		-	\$	-	\$		\$		\$	-	\$	975,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation	\$ \$	40,000	\$ \$	-	\$ \$	- 880,000	· ·	- 1,760,000	\$			750,000 440,000		- 100,000	\$ \$	- 55,000	\$ \$		\$ \$		\$ \$	-	\$ \$	4,555,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program	\$	40,000	1 ×	-	\$	- 880,000	\$	- 1,760,000	\$	1,320,000	\$	440,000	\$	- 100,000	\$	- 55,000	\$	-	\$	-	\$	-	\$	4,555,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage	-	-	\$	- - 1.178.756	· *	-		-	*	1,320,000 140,000	\$	440,000	\$	-	۰× ۱	-	· ·	-		-	*	-	*	4,555,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program	\$	40,000 - 315,600 15,000	\$	- - 1,178,756 15,000	\$ \$	- 880,000 - 1,101,944 15,000	\$ \$ \$	- 1,760,000 - 1,200,000 15,000	\$	1,320,000 140,000 1,200,000	\$	440,000	\$ \$ \$	- 100,000 - 484,516 15,000	\$ \$ \$	55,000 - 487,361 15,000	\$	- 490,235	\$	- - 493,137	\$	- - 496,068 15,000	\$ \$	4,555,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Compliance Laboratory	\$ \$ \$ \$ \$	315,600 15,000 -	\$ \$ \$ \$ \$	15,000 45,500	* \$ \$ \$	1,101,944 15,000 50,000	* \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,200,000 15,000 20,000	* \$\$ \$\$ \$\$ \$	1,320,000 140,000 1,200,000 15,000	\$ \$ \$ 2	440,000 2,281,699 15,000 20,000	\$ \$ \$	484,516 15,000	\$ \$ \$ \$ \$	487,361 15,000 20,000	\$ \$ \$	- 490,235	• • • •	- 493,137 15,000 20,000	\$ \$ \$	- 496,068	* \$ \$ \$ \$ \$	4,555,000 140,000 9,413,716 150,000 175,500
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Collection System Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects	\$ \$ \$ \$ \$ \$ \$ \$	315,600 15,000 1,350,000	* * * * *	15,000 45,500 3,000,000	* * * * * *	1,101,944 15,000 50,000 2,000,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,200,000 15,000 20,000 1,800,000	* \$ \$ \$ \$ \$	1,320,000 140,000 1,200,000 15,000	\$ \$ 2 \$ \$ \$	440,000 ,281,699 15,000 20,000 500,000	\$ \$ \$ \$ \$ \$	484,516 15,000 500,000	\$ \$ \$ \$ \$	487,361 15,000 20,000 1,500,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 490,235 15,000 - -	\$ \$ \$ \$ \$ \$ \$	- 493,137 15,000 20,000 500,000	\$ \$ \$ \$ \$	- 496,068 15,000 - -	* \$* \$* \$* \$*	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure	* * * * * * *	315,600 15,000 1,350,000 80,000	\$ \$ \$ \$ \$ \$ \$ \$	15,000 45,500 3,000,000 80,800	* * * * * * *	1,101,944 15,000 50,000 2,000,000 85,648	\$ \$ \$ \$ \$ \$	1,200,000 15,000 20,000 1,800,000 86,504	* \$* \$* \$* \$* \$*	1,320,000 140,000 1,200,000 15,000 - 1,000,000 87,370	\$ \$ 2. \$ \$ \$ \$ \$	440,000 2,281,699 15,000 20,000 500,000 34,948	\$ \$ \$ \$ \$	484,516 15,000 500,000 35,297	\$ \$ \$ \$ \$ \$	487,361 15,000 20,000 1,500,000 35,650	* * * * * * *	- 490,235 15,000 - 36,007	\$ \$ \$ \$ \$ \$	- 493,137 15,000 20,000 500,000 36,367	\$ \$ \$ \$ \$ \$	- 496,068 15,000 - - 36,367	* \$ \$ \$ \$ \$ \$	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000 554,958
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Collection System Projects IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure IRR: PLC Equipment and Network Upgrades	\$ \$ \$ \$ \$ \$ \$	315,600 15,000 1,350,000	* * * * * *	15,000 45,500 3,000,000 80,800 300,000	** *****	1,101,944 15,000 50,000 2,000,000 85,648 300,000	\$ \$ \$ \$ \$ \$	1,200,000 15,000 20,000 1,800,000	* * * * * * * *	1,320,000 140,000 1,200,000 15,000 - 1,000,000 87,370 300,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 ,281,699 15,000 20,000 500,000	\$ \$ \$ \$ \$ \$ \$	484,516 15,000 500,000 35,297 300,000	* * * * * * *	487,361 15,000 20,000 1,500,000 35,650 300,000	* * * * * * *	- 490,235 15,000 - 36,007 300,000	\$ \$ \$ \$ \$ \$ \$	- 493,137 15,000 20,000 500,000 36,367 300,000	\$ \$ \$ \$ \$ \$	- 496,068 15,000 - -	* * * * * * * *	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000 554,958 3,000,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure IRR: PLC Equipment and Network Upgrades IRR: Safety and Security	* * * * * * *	315,600 15,000 1,350,000 80,000 1,635,500	\$ \$ \$ \$ \$ \$ \$ \$	15,000 45,500 3,000,000 80,800 300,000 355,000	* * * * * * *	1,101,944 15,000 50,000 2,000,000 85,648 300,000 355,000	* * * * * * * * *	1,200,000 15,000 20,000 1,800,000 86,504 300,000	* \$ \$ \$ \$ \$ \$ \$ \$ \$	1,320,000 140,000 1,200,000 15,000 - 1,000,000 87,370 300,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 2,281,699 15,000 20,000 500,000 34,948 300,000	\$ \$ \$ \$ \$ \$ \$	484,516 15,000 500,000 35,297 300,000 355,000	* * * * * * * *	487,361 15,000 20,000 1,500,000 35,650 300,000 355,000	* * * * * * *	- 490,235 15,000 - 36,007 300,000 -	\$ \$ \$ \$ \$ \$ \$ \$	- 493,137 15,000 20,000 500,000 36,367 300,000	* * * * * * * * *	496,068 15,000 - 36,367 300,000 -	* * * * * * * * *	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000 554,958 3,000,000 1,420,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure IRR: Preliminary/Primary Infrastructure IRR: Secondary Infrastructure	\$ \$ \$ \$ \$ \$ \$ \$ \$	315,600 15,000 1,350,000 80,000	* * * * * * *	15,000 45,500 3,000,000 80,800 300,000	** ******	1,101,944 15,000 50,000 2,000,000 85,648 300,000	* * * * * * * * * *	1,200,000 15,000 20,000 1,800,000 86,504	* * * * * * * *	1,320,000 1,200,000 15,000 - 1,000,000 87,370 300,000 - 1,789,735	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 2,281,699 15,000 20,000 500,000 34,948	* * * * * * * * *	484,516 15,000 500,000 35,297 300,000	* * * * * * * * *	487,361 15,000 20,000 1,500,000 35,650 300,000	* * * * * * * * *	- 490,235 15,000 - 36,007 300,000 -	\$ \$ \$ \$ \$ \$ \$ \$	- 493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029	\$ \$ \$ \$ \$ \$	496,068 15,000 - 36,367 300,000 -	* * * * * * * * *	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000 554,958 3,000,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure IRR: PLC Equipment and Network Upgrades IRR: Safety and Security	* * * * * * * * *	315,600 15,000 1,350,000 80,000 1,635,500 1,638,000	* * * * * * * *	15,000 45,500 3,000,000 80,800 300,000 355,000 1,737,099	* * * * * * * * * *	1,101,944 15,000 50,000 2,000,000 85,648 300,000 355,000 1,754,470	* * * * * * * * * * * *	1,200,000 15,000 20,000 1,800,000 86,504 300,000 1,772,015	* * * * * * * * * *	1,320,000 1,200,000 15,000 - 1,000,000 87,370 300,000 - 1,789,735 1,000,000	\$ \$2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 2,281,699 15,000 20,000 500,000 34,948 300,000 - 807,633 ,000,000	* * * * * * * * * *	484,516 15,000 500,000 35,297 300,000 355,000 1,825,709	* * * * * * * * *	487,361 15,000 20,000 1,500,000 35,650 300,000 355,000 1,843,966	* * * * * * * * * *	- 490,235 15,000 - 36,007 300,000 - 1,862,406 1,200,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029 1,200,000	* * * * * * * * * *	496,068 15,000 - - 36,367 300,000 - 1,899,840	********	4,555,000 9,413,716 150,000 175,500 10,800,000 554,958 3,000,000 1,420,000 18,173,902
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure IRR: Preliminary/Primary Infrastructure IRR: Safety and Security IRR: Secondary Infrastructure IRR: Solids Infrastructure IRR: Solids Infrastructure IRR: UV System Rehabilitation	* * * * * * * * * * * *	315,600 15,000 1,350,000 80,000 1,635,500 1,638,000 1,635,500	* * * * * * * * * * * *	15,000 45,500 3,000,000 80,800 355,000 1,737,099 1,000,000 2,240,700 225,000	** *********	1,101,944 15,000 2,000,000 85,648 300,000 355,000 1,754,470 750,000 2,252,100	* * * * * * * * * * * * * *	1,200,000 15,000 20,000 1,800,000 86,504 300,000 1,772,015 750,000 1,763,900	* * * * * * * * * * * * *	1,320,000 1,200,000 15,000 15,000 87,370 300,000 - 1,789,735 1,000,000 1,776,000 325,810	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 ,281,699 15,000 20,000 500,000 34,948 300,000 ,807,633 ,000,000 683,500	* * * * * * * * * *	484,516 15,000 35,297 300,000 355,000 1,825,709 1,200,000	* * * * * * * * * *	487,361 15,000 20,000 1,500,000 35,650 300,000 355,000 1,843,966 1,200,000	* * * * * * * * * * * *	- 490,235 15,000 - 36,007 300,000 - 1,862,406 1,200,000 597,400	* * * * * * * * * * * * * * *	493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029 1,200,000 611,500	* * * * * * * * * * *	496,068 15,000 - 36,367 30,000 - 1,899,840 1,200,000	*********	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000 554,958 3,000,000 1,420,000 18,173,902 10,500,000 11,571,200 946,839
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure IRR: Preliminary/Primary Infrastructure IRR: Safety and Security IRR: Safety and Security IRR: Solids Infrastructure IRR: Solids Infrastructure IRR: Solids Infrastructure IRR: Tertiary Infrastructure IRR: Vaystem Rehabilitation IRR: Warehouse and Inventory Upgrades	* * * * * * * * * * * *	315,600 15,000 1,350,000 1,635,500 1,635,500 1,635,500 392,000	* * * * * * * * * * * * *	15,000 45,500 3,000,000 80,800 300,000 355,000 1,737,099 1,000,000 2,240,700	** **********	1,101,944 15,000 2,000,000 85,648 300,000 355,000 1,754,470 750,000	* * * * * * * * * * * * * * *	1,200,000 15,000 20,000 1,800,000 86,504 300,000 1,772,015 750,000 1,763,900 500,000	* * * * * * * * * * * * * *	1,320,000 1,200,000 1,5000 - 1,000,000 87,370 300,000 - 1,789,735 1,000,000 1,776,000 325,810 150,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 ,281,699 15,000 20,000 34,948 300,000 34,948 300,000 683,500 - 25,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	484,516 15,000 35,297 300,000 355,000 1,825,709 1,200,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	487,361 15,000 20,000 1,500,000 35,650 300,000 355,000 1,843,966 1,200,000	** *********	- 490,235 15,000 - - 36,007 30,000 - 1,862,406 1,200,000 597,400 396,029	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029 1,200,000 611,500 - 25,000	* \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	496,068 15,000 - 36,367 30,000 - 1,899,840 1,200,000	** *********	$\begin{array}{c} 4,555,000\\ 140,000\\ 9,413,716\\ 150,000\\ 175,500\\ 10,800,000\\ 554,958\\ 3,000,000\\ 1,420,000\\ 18,173,902\\ 10,500,000\\ 11,571,200\\ 946,839\\ 1,350,000\\ \end{array}$
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure IRR: PLC Equipment and Network Upgrades IRR: Safety and Security IRR: Secondary Infrastructure IRR: Solids Infrastructure IRR: Solids Infrastructure IRR: Solids Infrastructure IRR: Solids Infrastructure IRR: Vaystem Rehabilitation IRR: Warehouse and Inventory Upgrades IRR: Wareh Fire Alarm Upgrade	* * * * * * * * * * * *	315,600 15,000 1,350,000 1,635,500 1,635,500 1,635,500 392,000	* * * * * * * * * * * *	15,000 45,500 3,000,000 80,800 355,000 1,737,099 1,000,000 2,240,700 225,000	** *********	1,101,944 15,000 2,000,000 85,648 300,000 355,000 1,754,470 750,000 2,252,100	* * * * * * * * * * * * * *	1,200,000 15,000 20,000 1,800,000 86,504 300,000 1,772,015 750,000 1,763,900	* * * * * * * * * * * * *	1,320,000 1,200,000 1,5000 - 1,000,000 87,370 300,000 - 1,7789,735 1,000,000 1,776,000 325,810 150,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 ,281,699 15,000 20,000 500,000 34,948 300,000 ,807,633 ,000,000 683,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	484,516 15,000 35,297 300,000 355,000 1,825,709 1,200,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	487,361 15,000 20,000 1,500,000 35,650 300,000 355,000 1,843,966 1,200,000	* \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 490,235 15,000 - - 36,007 30,000 - 1,862,406 1,200,000 597,400 396,029	* * * * * * * * * * * * * * *	- 493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029 1,200,000 611,500 - 25,000	* * * * * * * * * * * *	496,068 15,000 - 36,367 30,000 - 1,899,840 1,200,000	* * * * * * * * * * * *	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000 554,958 3,000,000 1,420,000 18,173,902 10,500,000 11,571,200 946,839
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Collection System Projects IRR: PileIminary/Primary Infrastructure IRR: PLC Equipment and Network Upgrades IRR: Safety and Security IRR: Safety and Security IRR: Safety and Security IRR: Secondary Infrastructure IRR: Secondary Infrastructure IRR: VSystem Rehabilitation IRR: Warehouse and Inventory Upgrades IRR: WRRF Fire Alarm Upgrade Non-Process Facilities Program	* * * * * * * * * * * *	315,600 15,000 1,350,000 1,635,500 1,635,500 1,635,500 392,000	* * * * * * * * * * * * *	15,000 45,500 3,000,000 80,800 355,000 1,737,099 1,000,000 2,240,700 225,000	** **********	1,101,944 15,000 2,000,000 85,648 300,000 355,000 1,754,470 750,000 2,252,100	* * * * * * * * * * * * * * *	1,200,000 15,000 20,000 1,800,000 86,504 300,000 1,772,015 750,000 1,763,900 500,000	* * * * * * * * * * * * * *	1,320,000 1,200,000 1,5000 - 1,000,000 87,370 300,000 - 1,789,735 1,000,000 1,776,000 325,810 150,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 ,281,699 15,000 20,000 34,948 300,000 34,948 300,000 683,500 - 25,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	484,516 15,000 35,297 300,000 355,000 1,825,709 1,200,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	487,361 15,000 20,000 1,500,000 35,650 300,000 355,000 1,843,966 1,200,000	** *********	- 490,235 15,000 - - 36,007 30,000 - 1,862,406 1,200,000 597,400 396,029	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029 1,200,000 611,500 - 25,000	* \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	496,068 15,000 - 36,367 30,000 - 1,899,840 1,200,000	** *********	$\begin{array}{c} 4,555,000\\ 140,000\\ 9,413,716\\ 150,000\\ 175,500\\ 10,800,000\\ 554,958\\ 3,000,000\\ 1,420,000\\ 18,173,902\\ 10,500,000\\ 11,571,200\\ 946,839\\ 1,350,000\\ \end{array}$
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Collection System Projects IRR: Preliminary/Primary Infrastructure IRR: PLC Equipment and Network Upgrades IRR: Safety and Security IRR: Safety and Security IRR: Secondary Infrastructure IRR: Secondary Infrastructure IRR: VS System Rehabilitation IRR: Warehouse and Inventory Upgrades IRR: WRRF Fire Alarm Upgrade Non-Process Facilities Program Environmental Center: 5th/6th Floor Modifications, Carpet and HVAC	* * * * * * * * * * * *	315,600 15,000 80,000 1,635,500 1,635,500 392,000 675,000	* * * * * * * * * * * * *	15,000 45,500 3,000,000 355,000 1,737,099 1,000,000 2,240,700 225,000 150,000	** **********	1,101,944 15,000 2,000,000 85,648 300,000 1,754,470 750,000 2,252,100	* * * * * * * * * * * * * * * * *	1,200,000 15,000 20,000 1,800,000 86,504 300,000 1,772,015 750,000 1,763,900 1,763,900 500,000 50,000	* * * * * * * * * * * * * *	1,320,000 1,200,000 1,200,000 - 1,000,000 87,370 300,000 - 1,789,735 1,000,000 1,776,000 325,810 150,000 300,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 ,281,699 15,000 20,000 34,948 300,000 34,948 300,000 683,500 - 25,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	484,516 15,000 35,297 300,000 355,000 1,825,709 1,200,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	487,361 15,000 20,000 1,500,000 35,650 300,000 355,000 1,843,966 1,200,000	** *********	- 490,235 15,000 - - 36,007 300,000 - 1,862,406 1,200,000 597,400 396,029 -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029 1,200,000 611,500 - 25,000	* \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	496,068 15,000 - 36,367 30,000 - 1,899,840 1,200,000	** *********	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000 554,958 3,000,000 1,420,000 18,173,902 10,500,000 11,571,200 946,839 1,350,000 1,350,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Collection System Projects IRR: PileIminary/Primary Infrastructure IRR: PLC Equipment and Network Upgrades IRR: Safety and Security IRR: Safety and Security IRR: Safety and Security IRR: Secondary Infrastructure IRR: Secondary Infrastructure IRR: VSystem Rehabilitation IRR: Warehouse and Inventory Upgrades IRR: WRRF Fire Alarm Upgrade Non-Process Facilities Program	* * * * * * * * * * * * * *	315,600 15,000 1,350,000 1,635,500 1,635,500 1,635,500 392,000	* * * * * * * * * * * * *	15,000 45,500 3,000,000 80,800 355,000 1,737,099 1,000,000 2,240,700 225,000	* * * * * * * * * * * * * * *	1,101,944 15,000 2,000,000 85,648 300,000 355,000 1,754,470 750,000 2,252,100	* * * * * * * * * * * * * * * * *	1,200,000 15,000 20,000 1,800,000 86,504 300,000 1,772,015 750,000 1,763,900 500,000	* * * * * * * * * * * * * * *	1,320,000 1,200,000 15,000 - 1,000,000 87,370 300,000 - 1,789,735 1,000,000 1,776,000 325,810 150,000 300,000	\$ \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 ,281,699 15,000 20,000 34,948 300,000 34,948 300,000 683,500 - 25,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	484,516 15,000 35,297 300,000 355,000 1,825,709 1,200,000	* * * * * * * * * * * * *	487,361 15,000 20,000 1,500,000 35,650 300,000 355,000 1,843,966 1,200,000	** *********	- 490,235 15,000 - - 36,007 300,000 - 1,862,406 1,862,406 1,200,000 597,400 396,029 -	* * * * * * * * * * * * * * *	- 493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029 1,200,000 611,500 - 25,000	***********	496,068 15,000 - 36,367 30,000 - 1,899,840 1,200,000	** *********	$\begin{array}{c} 4,555,000\\ 140,000\\ 9,413,716\\ 150,000\\ 175,500\\ 10,800,000\\ 554,958\\ 3,000,000\\ 1,420,000\\ 18,173,902\\ 10,500,000\\ 11,571,200\\ 946,839\\ 1,350,000\\ \end{array}$
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure IRR: PLC Equipment and Network Upgrades IRR: Safety and Security IRR: Secondary Infrastructure IRR: Solids Infrastructure IRR: Solids Infrastructure IRR: Vystem Rehabilitation IRR: Warehouse and Inventory Upgrades IRR: Warehouse and Inventory Upgrades IRR: WRRF Fire Alarm Upgrade Non-Process Facilities Program Environmental Center: Sth/6th Floor Modifications, Carpet and HVAC Upgrades	******************	315,600 15,000 1,350,000 1,635,500 1,638,000 1,638,500 392,000 675,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15,000 45,500 3,000,000 355,000 1,737,099 1,000,000 2,240,700 2,240,700 150,000	* * * * * * * * * * * * * * *	1,101,944 15,000 2,000,000 85,648 300,000 1,754,470 750,000 2,252,100	************	1,200,000 15,000 20,000 1,800,000 86,504 300,000 1,772,015 750,000 1,763,900 1,763,900 500,000 50,000	* * * * * * * * * * * * * * * * * *	1,320,000 140,000 1,200,000 87,370 300,000 1,789,735 1,000,000 1,776,000 325,810 150,000 300,000	\$ \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 .281,690 20,000 500,000 34,948 300,000 683,500 .000,000 .000,000	* * * * * * * * * * * * * * * *	484,516 15,000 35,297 300,000 355,000 1,825,709 1,200,000 696,400	* * * * * * * * * * * * * * * *	487,361 15,000 20,000 1,500,000 35,650 355,000 1,843,966 1,200,000 453,700	** **********	- 490,235 15,000 - - 36,007 300,000 - 1,862,406 1,200,000 597,400 396,029 - - -	* * * * * * * * * * * * * * * * * *	- 493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029 1,200,000 611,500 - 25,000 - - - 25,000 - -	* * * * * * * * * * * * * * * * * *	496,068 15,000 - 36,367 300,000 - 1,899,840 1,200,000 496,000 - -	** ***************	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000 554,958 3,000,000 1,420,000 1,420,000 1,500,000 1,350,000 1,350,000 1,50,000 150,000 300,000
Commonwealth Interceptor Pile Intrusion Upper Holmes Run Trunk Sewer Rehabilitation Improvement, Renewal & Replacement Program IRR: Campus Digital Signage IRR: Campus Wide Projects IRR: Collection System Projects IRR: Compliance Laboratory IRR: Information Technology Projects IRR: Preliminary/Primary Infrastructure IRR: Preliminary/Primary Infrastructure IRR: Safety and Security IRR: Secondary Infrastructure IRR: Solids Infrastructure IRR: Solids Infrastructure IRR: Solids Infrastructure IRR: Tertiary Infrastructure IRR: Tertiary Infrastructure IRR: Tertiary Infrastructure IRR: Warehouse and Inventory Upgrades IRR: WRRF Fire Alarm Upgrade Non-Process Facilities Program Environmental Center: Sth/6th Floor Modifications, Carpet and HVAC Upgrades Environmental Center: Outdoor Exhibit Upgrade	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	315,600 15,000 1,350,000 1,635,500 1,638,000 1,638,500 392,000 675,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15,000 45,500 3,000,000 355,000 1,737,099 1,000,000 2,240,700 2,240,700 150,000	* * * * * * * * * * * * * * * * * *	1,101,944 15,000 2,000,000 85,648 300,000 1,754,470 750,000 2,252,100	*************	1,200,000 15,000 20,000 1,800,000 86,504 300,000 1,772,015 750,000 1,763,900 1,763,900 500,000 50,000	* * * * * * * * * * * * * * * * *	1,320,000 1,200,000 1,200,000 1,000,000 87,370 300,000 - 1,789,735 1,000,000 1,776,000 325,810 150,000 300,000 - 300,000 700,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	440,000 281,699 15,000 20,000 500,000 34,948 300,000 683,500 - 25,000 ,000,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	484,516 15,000 500,000 35,297 300,000 355,000 1,825,709 1,200,000 696,400	* * * * * * * * * * * * * * *	487,361 15,000 20,000 1,500,000 35,650 300,000 355,000 1,843,966 1,200,000	** ***********	- 490,235 15,000 - - 36,007 300,000 - 1,862,406 1,200,000 597,400 396,029 - - - - -	* * * * * * * * * * * * * * * * * *	- 493,137 15,000 20,000 500,000 36,367 300,000 - 1,881,029 1,200,000 611,500 - - 25,000 - - - - - -	* * * * * * * * * * * * * * * * *	496,068 15,000 - 36,367 300,000 - 1,899,840 1,200,000 496,000 - -	** *************	4,555,000 140,000 9,413,716 150,000 175,500 10,800,000 554,958 3,000,000 1,420,000 18,173,902 10,500,000 11,571,200 946,839 1,350,000 1,350,000 2,000,000 150,000

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RiverRenew Program\$100,000\$.\$RiverRenew Bdg J Fac. Reloc. & Decom.\$\$100,000\$\$.\$RiverRenew Tunnel System - Joint Use\$\$93,220,649\$\$57,800,000\$7Regulatory Strategy Program\$\$-\$\$.\$\$\$\$Coliphage Study\$-\$\$.\$.\$	Estimated Estimated	Estimated Estimated	Estimated Estimated	Estimated Estimated	Estimated Project Totals
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RiverRenew Tunnel System - Joint Use         \$ 93,220,649         \$ 57,800,000         \$ 7           Regulatory Strategy Program         \$         -         \$         -         \$           Coliphage Study         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         \$         -         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         -         \$         - <td></td> <td></td> <td></td> <td></td> <td></td>					
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Building 22: Primary Weir Observation House         \$         -         \$         660,000         \$           Building G/4: Tertiary Filter Repairs         \$         -         \$         2,520,000         \$           Building F: Plant Effluent Water (W3) System Improvements         \$         -         \$         1,027,425         \$           Building I: Centrifuge Replacement         \$         -         \$         -         \$         -         \$           HMI Upgrade         \$         1,336,425         \$         1,600,000         \$           Main Campus Galleries Improvements         \$         -         \$         -         \$           Odor Control System Upgrade         \$         -         \$         -         \$           Prower Distribution Monitors         \$         -         \$         5,0000         \$           Preliminary /Primary System Upgrades         \$         8,249,270         \$         9,110,800         \$           Process Air Compressor (PAC) System Upgrade         \$         -         \$         -         \$           Purified Water System Upgrade         \$         -         \$         -         \$         -         \$           Secondary Settling Tanks Refurbishment         \$	s - s - s	\$ 781,000 \$ 3,334,00	00 \$ 3,278,000 \$ 4,301,00	00 \$ 2,652,000 \$ 646,0	00 \$ - \$ 14,992,000
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Power Distribution Monitors         \$         -         \$         50,000         \$           Preliminary /Primary System Upgrades         \$         8,249,270         \$         9,110,800         \$           Process Air Compressor (PAC) System Upgrade         \$         7,43,314         \$         -         \$           Primary Setting Tank Rehabilitiation         \$         -         \$         5,000,000         \$           Purified Water System Upgrade         \$         -         \$         -         \$           Secondary Settling Tanks Retrubishment         \$         1,638,000         \$         7,500,000         \$           Security Services During Construction         \$         400,000         \$         400,000         \$           Solids Management: Solids Master Plan         \$         750,000         \$         3,276,100         \$           Solids Management: Building 55: Replace Valves on W3 Cooling System         \$         -         \$         21,500         \$           Solids Management: Building 55: Solids Screen Replacement         \$         -         \$         533,400         \$           Solids Management: Building 55: Solids Screen Replacement         \$         -         \$         533,400         \$           Solids Manag	5 - 5 - 9	\$ - \$ -	\$ 500,000 \$ 500,00	00 \$ 300,000 \$ -	\$ - \$ 1,300,000
Preliminary /Primary System Upgrades         \$ 8,249,270         \$ 9,110,800         \$           Process Air Compressor (PAC) System Upgrade         \$ 743,314         \$ - \$         \$	\$ - \$ 500,000 \$	\$ - \$ -	\$ 1,000,000 \$ 1,000,00	00 \$ - \$ -	\$ - \$ 2,500,000
Process Air Compressor (PAC) System Upgrade         \$ 743,314         \$ - \$           Primary Settling Tank Rehabilitiation         \$ - \$         \$ 5,000,000         \$           Purified Water System Upgrade         \$ - \$         \$ 5,000,000         \$           Secondary Settling Tank Rehabilitiation         \$ - \$         \$ 5,000,000         \$           Purified Water System Upgrade         \$ - \$         \$ - \$         \$ - \$           Secondary Settling Tanks Refurbishment         \$ 1,638,000         \$ 7,500,000         \$           Security Services During Construction         \$ 400,000         \$ 400,000         \$         400,000         \$           Solids Management: Suilding 55: Additional Cooling for Digesters         \$ 750,000         \$ 7,00,000         \$           Solids Management: Building 55: Replace Valves on W3 Cooling System         \$ - \$         \$ 21,500         \$           Solids Management: Solidy, Resource Recovery Upgrades         \$ - \$         \$ 533,400         \$           Solids Management: Pre-Pasteurization System Improvements         \$ - \$         \$ 18,000         \$	\$ 100,000 <b>\$</b> 250,000 <b>\$</b>	\$ 100,000 \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 500,000
Primary Settling Tank Rehabilitiation         \$         -         \$         5,000,000         \$           Purified Water System Upgrade         \$         -         \$         -         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         -         \$         \$         7.00,000         \$         \$         700,000         \$         \$         700,000         \$         \$         3,276,100         \$         \$         3,276,100         \$         \$         2,1500         \$         \$         2,1500         \$         \$         2,1500         \$         \$         5,3,400         \$         \$         \$         3,3,400         \$         \$         \$         5,3,400<	9,350,000 \$ 18,690,000 \$	\$ 9,350,000 \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 46,500,800
Purified Water System Upgrade         \$         -         \$         -         \$           Secondary Settling Tanks Refurbishment         \$         1,638,000         \$         7,500,000         \$           Security Services During Construction         \$         4,00,000         \$         400,000         \$           Solids Management: Solids Master Plan         \$         750,000         \$         700,000         \$           Solids Management: Building 55: Additional Cooling for Digesters         \$         -         \$         3,276,100         \$           Solids Management: Building 55: Replace Valves on W3 Cooling System         \$         -         \$         21,500         \$           Solids Management: Building 55: Solids Screen Replacement         \$         -         \$         533,400         \$           Solids Management: Solids/Resource Recovery Upgrades         \$         -         \$         18,000         \$           Solids Management: Pre-Pasteurization System Improvements         \$         -         \$         18,000         \$	5 - \$ - 9	\$-\$-	\$ - \$ -	\$ - \$ -	\$ - \$ -
Secondary Settling Tanks Refurbishment\$ 1,638,000\$ 7,500,000\$Security Services During Construction\$ 400,000\$ 400,000\$Solids Management: Solids Master Plan\$ 750,000\$ 700,000\$Solids Management: Building 55: Additional Cooling for Digesters\$ -\$ 3,276,100\$Solids Management: Building 55: Replace Valves on W3 Cooling System\$ -\$ 21,500\$Solids Management: Building 55: Solids Screen Replacement\$ -\$ 533,400\$Solids Management: Building 55: Solids Screen Replacement\$ -\$ 533,400\$Solids Management: Pure-Pasteurization System Improvements\$ -\$ 18,000\$		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 5,000,000
Security Services During Construction\$400,000\$400,000\$Solids Management: Solids Master Plan\$750,000\$700,000\$Solids Management: Building 55: Additional Cooling for Digesters\$-\$3,276,100\$Solids Management: Building 55: Replace Valves on W3 Cooling System\$-\$21,500\$Solids Management: Building 55: Solids Screen Replacement\$-\$533,400\$Solids Management: Solids/Resource Recovery Upgrades\$-\$18,000\$CONTINGENCY*18,000\$		\$ 999,146 \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 2,109,474
Solids Management: Solids Master Plan\$ 750,000\$ 700,000\$Solids Management: Building 55: Additional Cooling for Digesters\$ -\$ 3,276,100\$Solids Management: Building 55: Replace Valves on W3 Cooling System\$ -\$ 21,500\$Solids Management: Building 55: Solids Screen Replacement\$ -\$ 533,400\$Solids Management: Solids/Resource Recovery Upgrades\$ -\$ 18,000\$Solids Management: Pre-Pasteurization System Improvements\$ -\$ 18,000\$		\$ 25,000 \$ 25,00	00 \$ 25,000 \$ 25,00	00 \$ 25,000 \$ 25,0	
Solids Management: Building 55: Additional Cooling for Digesters       \$       -       \$       3,276,100       \$         Solids Management: Building 55: Replace Valves on W3 Cooling System       \$       -       \$       21,500       \$         Solids Management: Building 55: Replace Valves on W3 Cooling System       \$       -       \$       \$       21,500       \$         Solids Management: Building 55: Solids Screen Replacement       \$       -       \$		\$ 400,000 \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 1,600,000
Solids Management: Building 55: Replace Valves on W3 Cooling System\$-\$\$ 21,500\$Solids Management: Building 55: Solids Screen Replacement\$-\$\$ 533,400\$Solids Management: Solids/Resource Recovery Upgrades\$-\$\$\$Solids Management: Pre-Pasteurization System Improvements\$-\$\$\$CONTINGENCY\$18,000\$	, ,	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 950,000
Solids Management: Building 55: Solids Screen Replacement       \$       -       \$       533,400       \$         Solids Management: Solids/Resource Recovery Upgrades       \$       -       \$       -       \$         Solids Management: Pre-Pasteurization System Improvements       \$       -       \$       18,000       \$         CONTINGENCY       -       -       -       \$       18,000       \$		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 3,494,500
Solids Management: Solids/Resource Recovery Upgrades       \$       -       \$       \$         Solids Management: Pre-Pasteurization System Improvements       \$       -       \$       18,000       \$         CONTINGENCY        -       \$       18,000       \$		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 21,500
Solids Management: Pre-Pasteurization System Improvements \$ - \$ 18,000 \$ CONTINGENCY	\$ 348,600 \$ - \$	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 882,000
CONTINGENCY	,,	\$ 5,628,000 \$ 5,628,00		00 \$ - \$ -	\$ - \$ 20,824,000
	s - s - s	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 18,000
Contingency on Joint Funding Excluding RiverRenew \$ 1,304,896 \$ 4,000,000 \$					
	1	\$ 2,650,000 \$ 2,760,63			
Joint Capital Project Subtotal \$116,827,154 \$105,928,080 \$108	\$108,822,552 \$143,654,878	\$ 50,493,061 \$ 29,373,29	97 \$ 23,641,332 \$ 15,641,58	37 \$ 8,950,987 \$ 6,329,94	3 \$ 5,085,907 \$ 497,921,624
ALEXRENEW 10-YEAR CIP TOTAL \$189,340,609 \$175,898,845 \$159	\$159,671,317   \$181,86 <u>0,318   </u>	\$ 55,156,301 \$ 33,207,03	37 <b>\$</b> 28,019,332 <b>\$</b> 22,120,62	27 <b>\$ 10,026,987 \$ <u>6,955,9</u></b>	43 \$ 5,711,907 \$ 678,628,614



The table below details the FY 2023 – FY 2032 (10-year) Alexandria-only CIP Projects and the strategic outcome to which they are attached. Following this summary are detailed project sheets for each project that include the project description, benefits, community impacts, lifetime budget, and other relevant details.

#### 10-year Capital Improvement Program – Alexandria Only

Projects	Watershed Stewardship	Operational Excellence	Adaptive Culture	Public Engagement and Trust	Effective Financial Stewardship	
Commonwealt h Interceptor Rehabilitation		٠				
Potomac Interceptor Rehabilitation		•				
IRR: Billing and Customer Information System				٠		
IRR: Campus Wide Projects		•				
IRR: Collection System Projects		•				
RiverRenew Tunnel System - Category 1, City-only Portion	•					
Bush Hill Service Chamber		•				
Four Mile Run Pump Station Modifications		•				
Innovation District Pumping Station Design and Construction	•					
Mark Center Pump Station Study		•				
Potomac Yards PS: Odor Control and Ventilation System Upgrade				•		

4 MGD WRRF Expansion Facility Plan		•		
NMF Wet Well Elimination Study and Preliminary Design		•		
Arlington County Capital Contributions	•			
Capital Financing Fees			•	

				Common	wealth In	terceptor f	Rehabilita	ation				
Managing	Department and	d Champion	P	roject Locatio	ı	Program	and Project	Category	Estin	nated Usefu	l Life	Lifetime Budget
	Engineering		Comr	monwealth Ave	enue	Interceptor		ers Rehab.		20-30 years	;	\$698,000 Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Undetermined 10 Yr. Total
Total	\$0	\$0	\$0	\$313,000	\$0	\$0	\$0	\$0	\$385,000	\$0	\$0	\$698,000
Financing								+ <del>-</del>				
AlexRenew	\$0	\$0	\$0	\$313,000	\$0	\$0	\$0	\$0	\$385,000	\$0	\$0	\$698,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
				Pr	oject Descri	ption and Justi	fication					
		Benefit	\$					Strate	gic Outcome	e Area		
Appropri	ate minor repaiı	rs and maintena	ance activities	maximize asse	et life.	Operationa	I Excellence					
	I	Key Milestones	for FY 23					Impact on O	perations or	Community		
• N/A						Operations Four Mile F control, an	ng and/or ins and Mainter Run Pumping d parking imp e to be notifie	nance person Station. Clea	nnel to active aning activit	ely manage t ies require (	he flow dow City permittin	nstream of the ng for traffic
	External or Inte	ernal Adopted Pl	an or Recomm	endation				Changes	s from Prior	rear CIP		
Draft Se												

				Potom	nac Interc	eptor Reh	abilitatio	n				
Managing	Department and	d Champion	P	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
	Engineering			ast Alexandria nes Point Par		Interceptor	•	ers Rehab.		20-30 years	;	\$8,930,000 Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$540,000	\$1,200,000	\$1,800,000	\$1,800,000	\$3,590,000	\$0	\$0	\$0	\$8,930,000
Financing												
AlexRenew	\$0	\$0	\$0	\$540,000	\$1,200,000	\$1,800,000	\$1,800,000	\$3,590,000	\$0	\$0	\$0	\$8,930,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
				P	roject Descrip	tion and Justi	fication	-	-	-	-	
• Clea	abilitate all 26 r an and/or Re-ins t <b>Method:</b> Undet	spect the entire ermined	length of the P		ceptor (City Pe	ermit required	) segments		* • •			
		Benefits	<b>i</b>					Strateg	gic Outcome	e Area		
Maximiz	es asset life.				•	Operationa	I Excellence					
	ł	Key Milestones 1	or FY 23					Impact on Op	perations or	Community		
• N/A					•	Traffic and repair/reha	d parking in ab activities	ongevity of th npacts possik ntractor equip	ble due to			ion and/or pipe
	External or Inte						51010.B0 01 00					ds.
		rnal Adopted Pla	an or Recomm	endation				Changes	from Prior	Year CIP		ds.

·			IRR: Billing	and Cust	omer Info	ormation S	System (A	lexandria	Only)			
Managing	Department and	d Champion	Pi	roject Location	1	Program	and Project	Category	Estin	nated Usefu	Il Life	Lifetime Budget
							Alex-only IRR	1				\$4,745,400
	Finance			Various		☑ Alexandr □ Joint Use				5 years		Grant/Debt Funded? No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$523,475	\$1,728,725	\$25,000	\$0	\$0	\$550,000	\$1,800,000	\$40,000	\$0	\$0	\$4,667,200
Financing												
AlexRenew	\$0	\$523,475	\$1,728,725	\$25,000	\$0	\$0	\$550,000	\$1,800,000	\$40,000	\$0	\$0	\$4,667,200
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
				Pro	oject Descrip	tion and Justi	fication					
years. Project Comp and payment	oonents: This pr	oject includes a g new contract	a new Billing an	d Customer In	formation Sy						Serie apple	ximately every 5
Procurement	Method: Profes future for the sy	sional consulti			a an existing	ayment proces	sing, enablir ontract. A fo	ng a new cont	act center s	olution, and	d designing	ging meter reads in quality control al(s) will likely be
Procurement		sional consulti	mentation, and		a an existing	ayment proces	sing, enablir ontract. A fo	ng a new cont	act center s	olution, and	d designing	in quality control
<ul> <li>Procurement issued in the</li> <li>Secure,</li> <li>City cust options, paperles</li> <li>Custome</li> </ul>	future for the sy accurate billing i comers increasin such as AlexRer	sional consultir stem, its imple Benefit is critical to bui gly expect tech new's existing c stems can also	mentation, and s Iding trust with nology-forward ustomer portal be used to be	customers , convenient pa , and features tter communic	a an existing her element ayment like ate with	ayment proces cooperative c s of the projec	sing, enablir ontract. A fo	ng a new cont rmal procurer <b>Strate</b>	act center s nent such a	olution, and	d designing	in quality control

Release formal procurement and develop firm implementation schedule	<ul> <li>Billing implementations often do involve customer impacts, such as requiring reregistration or affirming a payment method, though the project team will minizmie customer impacts to the extent feasible</li> <li>A communications campaign will accompany the implementation and clearly communicate any required customer actions</li> </ul>
External or Internal Adopted Plan or Recommendation	Changes from Prior Year CIP
Recommendations based on Phase 1 Billing Transition Support Services     Report dated November 29, 2021	New project established in June 2021 based on notification that existing contract would end January 2024

				RR: Camp								
Managing Department and Champion		Project Location			Program and Project Category			Estimated Useful Life			Lifetime Budget	
							Alex-only IRR					\$607,000
Various		Main and West Campus		Alexandria Only			10 years for Data Center and Network Improvements			Grant/Debt Funded.		
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	Joint Use	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	No 10 Yr. Total
otal	\$21,000	\$22,000	\$205,000	\$22,000	\$22,000	\$22,000	\$205,000	\$22,000	\$22,000	\$22,000	\$22,000	\$586,000
nancing	\$21,000	\$22,000	\$205,000	\$22,000	\$22,000	\$22,000	\$203,000	φ22,000	\$22,000	\$22,000	\$22,000	\$380,000
exRenew	\$21,000	\$22,000	\$205,000	\$22,000	\$22,000	\$22,000	\$205,000	\$22,000	\$22,000	\$22,000	\$22,000	\$586,000
airfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ackground:	are required to This subprogram	n covers Alexan							<b>-</b> .			-
system; reco	<b>conents:</b> Infrastr rds retention an	ructure and net d Sharepoint er	nhancements	periodic upda	tes to the Ale	Renew websi	te.	-			-	
system; reco	oonents: Infrasti	ructure and net d Sharepoint er	work enhance	periodic upda	tes to the Ale	Renew websi	te.	AlexRenew		; updates to	-	
<ul> <li>system; record</li> <li>Procurement</li> <li>24/7 ne</li> <li>Ensure arecordke</li> <li>Allowing business well as p</li> <li>Prevention</li> <li>Reduce paper recordke</li> <li>Up to da</li> <li>And upg</li> </ul>	<b>conents:</b> Infrastr rds retention an	ructure and net d Sharepoint er as appropriate Benefit urity monitoring ompliance with records by staff serve historically in litigation, ical obsolesces port continue pilities through t hing for critical a gency notification	work enhance hancements s and incident r federal, state f when needed y and culturally staff resources d and on-goir the use of train assets. on systems.	periodic upda ments to min esponse. e and local r l to conduct d y important re required to ng awareness ing.	egulatory lay-to-day ecords as	s; monitoring a	te.	AlexRenew	environment	; updates to	-	

<ul> <li>Development of detailed roadmap and roll out plan</li> <li>Security Event Monitoring and Incident Response</li> </ul>	<ul> <li>Data is more secure</li> <li>Decreased bandwidth requirements</li> <li>Information access is better controlled and managed</li> <li>Operational, reputational, and legal risks are managed</li> <li>Provides secure, available, and accurate systems and data</li> <li>Reduced hardware costs</li> <li>Regulatory Compliance</li> <li>Results in operational efficiencies</li> </ul>
External or Internal Adopted Plan or Recommendation	Changes from Prior Year CIP
<ul> <li>Cybersecurity Assessment completed by Achilles Shield, including assessment of vulnerabilities and hacker exploitation; and a physical security assessment</li> <li>Electronic Records Management (ERM) As-Is Observation Report</li> </ul>	• None

			IRR	: Collectio	on System	Projects	(Alexand	ria Only)				
Managing	Department and	l Champion	Pi	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
Opera	ations & Mainte	nance	AlexRenew a	and Multiple L Alexandria	ocations in	Improve., Re		cement	3 years fo	or pumps an	d grinders	\$1,440,000 Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$103,400	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$1,440,000
Financing												
AlexRenew	\$103,400	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$144,000	\$1,440,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Background: only use. Project Comp	ued improvemen This subprogram onents: Improve Method: Undete	n covers all imp ements to Intere	provement, reha	abilitation and	l replacemen	t projects asso	ociated with t	the pump sta	tions, servic	e chambers,	and outfall	s that are for city
		Benefit	\$					Strate	gic Outcome	e Area		
Full redu	ndancy and relia	ability of all ass	ets		•	Operationa	I Excellence					
	И	(ey Milestones	for FY 23					Impact on O	perations or	Community		
• N/A					•	Coordinatio	on with O&M	for any work				
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	s from Prior `	Year CIP		
• N/A					•	Costs upda	ated to \$144	,000 yearly fi	rom FY2023	- FY2032		

			R	liverRenew	v Tunnel	System (A	lexandria	a Only)				
Managing	Department and	d Champion	Р	roject Location		Program	and Project	Category	Estim	ated Useful	Life	Lifetime Budget
	RiverRenew		AlexRenew	and Multiple L Alexandria	ocations in	⊠ Alexandr	,		Tuni	nel - 100 ye	ars	\$223,200,000 Grant/Debt Funded? Yes
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$67,857,050	\$65,800,000	\$43,300,000	\$32,600,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$142,100,000
Financing		+ 05 0 5 5 5 5 5		400.011.111								
AlexRenew Fairfax	\$67,857,050 \$0	\$65,800,000 \$0	\$43,300,000 \$0	\$32,600,000 \$0	\$400,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$142,100,000 \$0
Fairiax	\$0	φU	<u>۵</u>			ption and Justi		\$0	\$0	\$0	<b>Φ</b>	\$U
Project Com • Wat • Hoo • Fou • Fou • Tun Alex Procurement	pture and conve ponents: The Riv terfront Tunnel: 2 offs Run Intercep ir diversion chan ir shafts ranging nel Dewatering a kRenew. t Method: In Nov rocurement proc	erRenew Tunne 2-mile long, 12' otor: 2,700-foot obers to direct of from 35-feet to and Wet Weath ember 2020, A	el System inclu 7-0" diameter s long, 6'-0" ope combined sewe o 65-feet in dia er Pumping Sta	des: egmentally line en-cut sewer. er flows to the meter. ation: 20-mgd	ed tunnel. Waterfront T tunnel dewa	unnel and Hoc tering and 130	offs Run Inter D-mgd wet we	rceptor. eather pumpi	ng station, i	-	·	structure at n following a 2-step
		Benefit	s					Strate	gic Outcome	e Area		
-	ant reduction of ( coration includes		•	locations	•	Watershed	Stewardship	0				
	ł	Key Milestones	for FY 23					Impact on O	perations or	<sup>r</sup> Community	/	
	esign submittals mining begins	complete			•			and the com naintain pum	•	-		tional.
	External or Inte	rnal Adopted P	lan or Recomm	nendation				Changes	s from Prior	Year CIP		
	rm Control Plan											

				В	ush Hill S	ervice Cha	amber					
Managing	Department and	d Champion	Pi	roject Locatio	ı	Program	and Project	Category	Estir	nated Usefu	I Life	Lifetime Budget
						Service Cha	mbers and F	PS Upgrades				\$1,240,000
	Engineering			Bush Hill		Alexandr	,			20 years		Grant/Debt Funded?
						🛛 Joint Use						Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total Financing	\$0	\$0	\$155,000	\$310,000	\$775,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,240,000
AlexRenew	\$0	\$0	\$155.000	\$310,000	\$775.000	\$0	\$0	\$0	\$0	\$0	\$0	\$1.240.000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		-		,		tion and Justi	floation	-				
Project Comp	sset rehabilitation conents: Condition Method: Undete	ion assessment										
		Benefits	3					Strateg	gic Outcome	e Area		
Maximiz	es asset perforn	nance and life.			•	Operationa	I Excellence					
	٢	Key Milestones	for FY 23					Impact on Op	erations or	Community	,	
• N/A					•	Improves a	isset perform	nance and reli	ability			
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	from Prior	Year CIP		
	en portion: Augu y and Recomme		ey & Hansen Co	ondition Asses	sment	Start of pro	oject moved t	to FY24. Costs	s each year	escalated a	t 3%.	

Managing Department an         Engineering         Expenditure       Prior Year         Total       \$150,000         Financing       AlexRenew         AlexRenew       \$150,000         Fairfax       \$0         Need: The proposed pump s         Background: Four Mile Run         pump over, sending flows m         in FY23.         Project Components: Piping	FY 2023 \$850,000 \$0 \$0 \$tation modificat Pumping Station	Fo Fr 2024 \$0 \$0 \$0 tions are to man	nage excess f experience exc	PS FY 2026 \$0 \$0 roject Descrip flows caused cess infiltration	Service Ch Alexandr Joint Use FY 2027 \$0 \$0 \$0 \$0 \$0 by inflow and inflow,	FY 2028 \$0 \$0 fication infiltration at causing sani	S Upgrades FY 2029 \$0 \$0 \$0 the station to tary sewer ov	FY 2030 \$0 \$0 \$0 prevent over	difications a	FY 2032 \$0 \$0 \$0 tions.	
Expenditure     Prior Year       Total     \$150,000       Financing     AlexRenew       AlexRenew     \$150,000       Fairfax     \$0       Need: The proposed pump s       Background: Four Mile Run       pump over, sending flows m       in FY23.	\$850,000 \$850,000 \$0 station modificat Pumping Station	FY 2024 \$0 \$0 \$0 tions are to man	FY 2025 \$0 \$0 \$0 Pr nage excess f experience exc	FY 2026 \$0 \$0 roject Descrip	Alexandr Joint Use FY 2027 \$0 \$0 \$0 by inflow and i pon and inflow,	ria Only FY 2028 \$0 \$0 \$0 \$0 fication infiltration at causing sani	FY 2029 \$0 \$0 the station to tary sewer ov	FY 2030 \$0 \$0 \$0 prevent ov erflows. Mo	FY 2031 \$0 \$0 erflow condi difications a	FY 2032 \$0 \$0 \$0 tions.	Grant/Debt Funded? Undetermined 10 Yr. Total \$850,000 \$0 \$0
Total       \$150,000         Financing       AlexRenew         AlexRenew       \$150,000         Fairfax       \$0         Need:       The proposed pump s         Background:       Four Mile Run         pump over, sending flows m       in FY23.	\$850,000 \$850,000 \$0 station modificat Pumping Station	\$0 \$0 \$0 tions are to main continues to e	\$0 \$0 \$0 Pi nage excess f experience exc	\$0 \$0 \$0 roject Descrij	\$0 \$0 \$0 btion and Justi by inflow and i on and inflow,	\$0 \$0 \$0 fication infiltration at causing sani	\$0 \$0 \$0 the station to tary sewer ov	\$0 \$0 \$0 prevent ov erflows. Mo	\$0 \$0 \$0 erflow condi	\$0 \$0 \$0 tions.	\$850,000 \$850,000 \$0
Financing         AlexRenew       \$150,000         Fairfax       \$0         Need: The proposed pump s         Background: Four Mile Run         pump over, sending flows m         in FY23.	\$850,000 \$0 station modificat Pumping Station	\$0 \$0 tions are to man	\$0 \$0 Pi nage excess f experience exc	so so roject Descrij lows caused cess infiltratio	\$0 \$0 by inflow and i on and inflow,	\$0 \$0 fication infiltration at causing sani	\$0 \$0 the station to tary sewer ov	\$0 \$0 prevent ov erflows. Mo	\$0 \$0 erflow condi difications a	\$0 \$0 tions.	\$850,000 \$0
AlexRenew       \$150,000         Fairfax       \$0         Need: The proposed pump s         Background: Four Mile Run pump over, sending flows m in FY23.	so station modificat Pumping Station	so tions are to man n continues to e	\$0 Pi nage excess f experience exc	\$0 roject Descrij lows caused cess infiltratio	\$0 <b>otion and Justi</b> by inflow and i on and inflow,	\$0 fication infiltration at causing sani	\$0 the station to tary sewer ov	\$0 prevent over erflows. Mo	\$0 erflow condi difications a	\$0 tions. re needed t	\$0 to automate the
Fairfax\$0Need: The proposed pump sBackground: Four Mile Runpump over, sending flows min FY23.	so station modificat Pumping Station	so tions are to man n continues to e	\$0 Pi nage excess f experience exc	\$0 roject Descrij lows caused cess infiltratio	\$0 <b>otion and Justi</b> by inflow and i on and inflow,	\$0 fication infiltration at causing sani	\$0 the station to tary sewer ov	\$0 prevent over erflows. Mo	\$0 erflow condi difications a	\$0 tions. re needed t	\$0 to automate the
Need: The proposed pump s Background: Four Mile Run pump over, sending flows m in FY23.	station modificat Pumping Station	tions are to main continues to e	Pi nage excess f experience exc	roject Descrij lows caused cess infiltratio	b <b>tion and Justi</b> by inflow and i on and inflow,	fication infiltration at causing sani	the station to tary sewer ov	p prevent over	erflow condi difications a	tions. re needed t	o automate the
<b>Background:</b> Four Mile Run pump over, sending flows m in FY23.	Pumping Station	n continues to e	nage excess f experience exc	lows caused	by inflow and i on and inflow,	infiltration at causing sani	tary sewer ov	erflows. Mo	difications a	re needed t	
<b>Background:</b> Four Mile Run pump over, sending flows m in FY23.	Pumping Station	n continues to e	nage excess f experience exc	lows caused	by inflow and i on and inflow,	infiltration at causing sani	tary sewer ov	erflows. Mo	difications a	re needed t	
Procurement Method: Desig		fications, SCAD	A programmir	ng.							
	Benefits	s					Strate	gic Outcome	e Area		
Reduce manual operati	on of pump over	r.		•	Operationa	al Excellence					
	Key Milestones	for FY 23					Impact on O	perations or	Community		
Complete construction				•	Constructio	on work will r	need to be co	ordinated wi	ith O&M.		
External or Inte	ernal Adopted Pl	lan or Recomm	endation				Changes	from Prior	Year CIP		
Preliminary Engineering	, Report is under	rway as of Dece	ember 2021.	•	New projec	ct					

			Innovati	on Distric	t i umpin	0	U					
Managing	Department and	d Champion	Р	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
	Engineering			Various		Service Ch	ambers & PS ia Only	S Upgrades		20 years	-	\$339,416 Grant/Debt Funded?
						🛛 🗆 Joint Use	9				-	No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$125,000	\$86,900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$86,900
Financing	<b>*</b> 105.000	<u> </u>	<u> </u>	<b>*</b> 2	<u> </u>		<u> </u>	<u> </u>		<u> </u>	<b>*</b> 2	****
AlexRenew Fairfax	\$125,000 \$0	\$86,900 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$86,900 \$0
	ΦΟ	ΨU		_	_	ption and Justi		ΨU	φυ	φ <b>υ</b>	ΨΟ	ΨŪ
Purpose: To p	participate in the	e design and co	nstruction of th	ne Innovation	District Pum	ping Station (IE	DPS).					
Background: has been col Project Comp		District Pumpin he city and the Permit, Design	ng Station is be Developer on 1 , and Construc	ing built to se the pump stat	erve new dev ion's design,	elopments in t	he city broug				ech (VT) Cam	ipus. AlexRenew
Background: has been col Project Comp	The Innovation aborating with t onents: Review	District Pumpin he city and the Permit, Design	g Station is be Developer on t , and Construc Itant contract	ing built to se the pump stat	erve new dev ion's design,	elopments in t	he city broug	infrastructur		ents.	ch (VT) Cam	ipus. AlexRenew
Background: has been col Project Comp Procurement • Ensures	The Innovation aborating with t onents: Review	District Pumpin he city and the Permit, Design existing consu Benefit s constructed ir	ng Station is be Developer on t , and Construc Itant contract <b>s</b> n accordance w	ing built to se the pump stat tion submittal	erve new dev ion's design, s	elopments in t sewer impacts	he city broug	infrastructur Strate	e improvem	ents.	ch (VT) Car	ipus. AlexRenew
Background: has been col Project Comp Procurement • Ensures	The Innovation aborating with t onents: Review Method: Part of that new IDPS is tions and AlexR	District Pumpin he city and the Permit, Design existing consu Benefit s constructed ir	ng Station is be Developer on t , and Construc Itant contract <b>s</b> n accordance w ments.	ing built to se the pump stat tion submittal	erve new dev ion's design, s	elopments in t sewer impacts	he city broug and related	infrastructur Strate	e improvem gic Outcome	ents.		ipus. AlexRenew
Background: has been col Project Comp Procurement • Ensures specifica	The Innovation aborating with t onents: Review Method: Part of that new IDPS is tions and AlexR ipate in/provide	District Pumpin he city and the Permit, Design existing consu Benefits constructed ir enew's requirer (ey Milestones	ng Station is be Developer on t , and Construc Itant contract <b>s</b> n accordance w ments. <b>for FY 23</b>	ing built to se the pump stat tion submittal /ith the design	erve new dev ion's design, s	elopments in t sewer impacts Watershed	he city broug s and related Stewardship	infrastructur Strate	e improvem gic Outcome perations or	ents.		ipus. AlexRenew
Background: has been col Project Comp Procurement • Ensures specifica	The Innovation aborating with t onents: Review Method: Part of that new IDPS is tions and AlexR ipate in/provide	District Pumpin he city and the Permit, Design existing consu Benefit s constructed ir enew's requirer (ey Milestones e services relate	ng Station is be Developer on t , and Construct Itant contract <b>s</b> n accordance w ments. <b>for FY 23</b> ed to the design	ing built to se the pump stat tion submittal /ith the design	erve new dev ion's design, s	elopments in t sewer impacts Watershed	he city broug s and related Stewardship	Impact on Open	e improvem gic Outcome perations or	ents.		ipus. AlexRenew

				Mark	Center I	Pump Stati	on Study	,				
Managing	Department and	l Champion	Pr	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
						Service Ch	ambers & PS	S Upgrades				\$260,000
	Engineering		Mark C	enter Pump S	Station	☑ Alexandr □ Joint Use	•			N/A		Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$260,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$260,000
Financing												
AlexRenew	\$0	\$0	\$260,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$260,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Comp	Commission a s onents: Reliabil Method: Undete	ity/redundancy										
		Benefit	S					Strate	gic Outcome	e Area		
Maximize	es asset perform	nance and life.				<ul> <li>Operational</li> </ul>	I Excellence					
	h	key Milestones	for FY 23					Impact on O	perations or	Community		
• N/A						<ul> <li>Improves F</li> </ul>	S performan	ice and reliab	ility.			
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	from Prior	Year CIP		
• N/A						<ul> <li>Project mo</li> </ul>	ved to FY24.	Costs were e	scalated by	3%.		

	ſ	Potomac Ya	ards Pump	Station -	Odor Co	ntrol and V	Ventilatio	on System	Upgrad	e Project		
Managing	Department and	l Champion	P	roject Locatio	n	Program	and Project	Category	Estir	mated Usefu	l Life	Lifetime Budget
						Service Cha	mbers and F	PS Upgrades				\$1,134,920
	Engineering		Potomad	c Yards Pump	Station	🛛 Alexandr	ia Only			20 years		Grant/Debt Funded?
						🛛 Joint Use						No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$2,042,065	240,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$240,000
Financing AlexRenew	\$2,042,065	\$240,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$240,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			1	Pi	roject Descrip	otion and Justi	fication					
	oonents: This pro				control syste	m and modific	ation of the l	PS ventilation	systems ar	nd declassify	the occupi	ed spaces.
		Benefits	5					Strateg	gic Outcome	e Area		
	es PS odors and I sewer gas	protects operat	tions and main	tenance staff	from	Public Eng	agement and	d Trust				
	٢	(ey Milestones	for FY 23					Impact on Op	perations or	<sup>r</sup> Community		
Complet	e construction o	f the ventilatior	n and odor cont	trol improvem	ents •	Reduction	in objectiona	able odors fror	n the Potor	nac Yards Pi	umping Stat	ion
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	from Prior	Year CIP		
	nendations from March 26, 2021	the Potomac Y	ards Pump Sta	ition Basis of	Design •	Project awa					-	3. . Costs updated

		4MG	D Water R	esource R	ecovery	Facility (W	(RRF) Exp	ansion F	acility Pla	an		
Managing [	Department and	I Champion	Р	roject Location	1	Program	and Project (	Category	Estir	mated Usefu	l Life	Lifetime Budget
	Engineering			WRRF		WRRF Im	•	Program		40 years		\$2,000,000 Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$2,000,000
Financing												
AlexRenew	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$2,000,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Compo	Development in onents: Facility Method: Undete	plan. No desigi	•	-				nt. Oity exper				g.
		Benefits	6					Strate	gic Outcome	e Area		
Necessar	y to accommod	ate anticipated	flows and sup	port growth in	the City	Operationa	I Excellence					
	м	key Milestones 1	for FY 23					Impact on O	perations or	<sup>r</sup> Community		
• N/A						Anticipate	impacts to pla	ant operation	ns during co	nstruction		
	External or Inte	rnal Adopted Pla	an or Recomm	endation				Changes	s from Prior	Year CIP		
City of Ale	exandria Sanita	ry Sewer Maste	r Plan (approv	ed October 20	21)	<ul> <li>New Project</li> </ul>	t.					

	N	utrient Mar	nagement	Facility (N								
Managing	Department and	I Champion	Р	roject Locatio	n	Program	and Project	Category	Estin	nated Usefu	ıl Life	Lifetime Budget
						WRR	F Improvem	ents				\$300,000
	Engineering		Bu	uilding 60 (NN	IF)	Alexandri	•			N/A		Grant/Debt Funded?
						□ Joint Use				=		Undetermined
Expenditure	Prior Year \$0	FY 2023	FY 2024 \$0	FY 2025 \$0	FY 2026	FY 2027	FY 2028	FY 2029 \$0	FY 2030	FY 2031 \$0	FY 2032	10 Yr. Total
Total Financing	ΦU	\$0	ΦU	ΦU	\$100,000	\$200,000	\$0	ΦU	\$0	ΦU	\$0	\$300,000
AlexRenew	\$0	\$0	\$0	\$0	\$100,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$300,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			-	-	- releat Deserin	tion and Justif	lection		-	-	-	
Background: changed, the		ell was designed s no longer ne	d to function as eded. Work is	s part of the w needed to ac	vet weather pu Idress observ	umping station ed higher thar	(WWPS) ass	ociated with	the tunnel s	ystem. As t	he location (	nd harmonics. of the WWPS has ruction costs are
Background: changed, the unknown, the Project Com	The NMF wet we NMF wet well i	ell was designed s no longer ne lects the costs and preliminal	d to function as eded. Work is for an enginee	s part of the w needed to ac	vet weather pu Idress observ	umping station ed higher thar	(WWPS) ass	ociated with	the tunnel s	ystem. As t	he location (	of the WWPS has
Background: changed, the unknown, the Project Com	The NMF wet we NMF wet well i budget only ref conents: A study	ell was designed s no longer ne lects the costs and preliminal	d to function as eded. Work is for an enginee ry design	s part of the w needed to ac	vet weather pu Idress observ	umping station ed higher thar	(WWPS) ass	ociated with IF pump har	the tunnel s	ystem. As t the extent o	he location (	of the WWPS has
Background: changed, the unknown, the Project Comp Procurement	The NMF wet we NMF wet well i budget only ref conents: A study	ell was designed s no longer ne lects the costs and preliminate ermined Benefits	d to function as eded. Work is for an enginee ry design <b>s</b>	s part of the w needed to ac ering study and	vet weather pu ddress observ d preliminary	umping station ed higher thar design.	(WWPS) ass	ociated with IF pump har	the tunnel s monics. As	ystem. As t the extent o	he location (	of the WWPS has
Background: changed, the unknown, the Project Comp Procurement	The NMF wet wet NMF wet well i budget only ref ponents: A study Method: Undete es/re-purposes a	ell was designed s no longer ne lects the costs and preliminate ermined Benefits	d to function as eded. Work is for an enginee ry design <b>s</b> cture and maxi	s part of the w needed to ac ering study and	vet weather pu ddress observ d preliminary	umping station ed higher thar design.	(WWPS) ass	ociated with IF pump har	the tunnel s monics. As t gic Outcome	ystem. As t the extent o	he location (	of the WWPS has
Background: changed, the unknown, the Project Comp Procurement	The NMF wet wet NMF wet well i budget only ref ponents: A study Method: Undete es/re-purposes a	ell was designed s no longer ne lects the costs and preliminat ermined Benefits an unused struc	d to function as eded. Work is for an enginee ry design <b>s</b> cture and maxi	s part of the w needed to ac ering study and	vet weather pu ddress observ d preliminary	umping station ed higher thar design. Operationa	(WWPS) ass	Impact on O	the tunnel s monics. As t gic Outcome	ystem. As t the extent o	he location (	of the WWPS has
Background: changed, the unknown, th Project Comp Procurement • Eliminat	The NMF wet wet NMF wet well i budget only ref ponents: A study Method: Undete es/re-purposes a	ell was designed s no longer ne lects the costs and preliminatermined Benefits an unused struct Key Milestones	d to function as eded. Work is for an enginee ry design s cture and maxi for FY 23	s part of the w needed to ac ering study and imizes asset li	vet weather puddress observ d preliminary	umping station ed higher thar design. Operationa	(WWPS) ass desired NM	Strate Impact on O	the tunnel s monics. As t gic Outcome	Area	he location (	of the WWPS has

				Arlingto	n County	Capital Co	ontributic	ons				
Managing	g Department and	d Champion	Pi	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
	Finance			Various		⊠ Alexandr □ Joint Use	5	1		20 years		Ongoing Grant/Debt Funded? No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$1,817,000	\$3,226,000	\$4,334,000	\$3,493,000	\$1,318,000	\$205,000	\$204,000	\$211,000	\$210,000	\$210,000	\$210,000	\$13,621,000
Financing	, , , , , , , , , , , , , , , , , , , ,		+ .,	, , , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
AlexRenew	\$1,817,000	\$3,226,000	\$4,334,000	\$3,493,000	\$1,318,000	\$205,000	\$204,000	\$211,000	\$210,000	\$210,000	\$210,000	\$13,621,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	s service agreem ion Control Plant	-	•	the City, AlexF	Renew provide	-	designated a	•	•	•		
and conveya	ance facilities.		•	enali or the ch	ty sewer users	s to Arlington t						County and City, gton wastewater
site Wareho Enhancemer Secondary C	ponents: Curren ouse which requi nts (Process Cor Clarifiers (necess support a long-te	res work to a ntrol System pr ary rehabilitatio	retaining wall) rojects to prote on to support p	kRenew has b , Non-Expans ect critical inf ermit complia	udgeted cont ion Maintena frastructure), ance), Solids	ributions inclu nce Capital ( Odor Control, Master Plan (I	to fund alloca ude: Improve includes HV/ , Primary Cla both immedi	able portions ment to the A AC improvem arifier Upgrad ate needs su	of capital im rlington plan ents and en les (work to ch as replac	nprovements nt's Eads Sti nergy optim pumps, mo	e at the Arlin reet Property ization stud otors, and in	gton wastewater y (the plant's off- ies), Technology nstrumentation),
site Wareho Enhancemer Secondary C	ponents: Curren ouse which requi nts (Process Cor Clarifiers (necess	res work to a ntrol System pr ary rehabilitatio	retaining wall) rojects to prote on to support p producing a Cla	kRenew has b , Non-Expans ect critical inf ermit complia	udgeted cont ion Maintena frastructure), ance), Solids	ributions inclu nce Capital ( Odor Control, Master Plan (I	to fund alloca ude: Improve includes HV/ , Primary Cla both immedi	able portions ment to the A AC improvem arifier Upgrad ate needs su ile Run Interc	of capital im rlington plan ents and en les (work to ch as replac	nprovements nt's Eads Stin nergy optim pumps, mo cing the mot	e at the Arlin reet Property ization stud otors, and in	gton wastewater y (the plant's off- ies), Technology nstrumentation),
site Wareho Enhancemen Secondary C phases that	ponents: Curren ouse which requi nts (Process Cor Clarifiers (necess	res work to a htrol System pr ary rehabilitatio erm solution to Benefits ant remains in g	retaining wall) rojects to prote on to support p producing a Cla s	Renew has b , Non-Expans ect critical inf ermit complia ass A biosolids	udgeted cont ion Maintena frastructure), ance), Solids s project) and	ributions inclu nce Capital ( Odor Control, Master Plan (I the relining o	to fund alloca ude: Improve includes HV/ , Primary Cla both immedi	able portions ment to the A AC improvem arifier Upgrad ate needs su ile Run Interc <b>Strate</b>	of capital im rlington plan ents and en les (work to ch as replac eptor	nprovements nt's Eads Stin nergy optim pumps, mo cing the mot	e at the Arlin reet Property ization stud otors, and in	gton wastewater y (the plant's off- ies), Technology nstrumentation),
site Wareho Enhancemen Secondary C phases that	ponents: Curren ouse which requi nts (Process Cor Clarifiers (necess support a long-te s the Arlington pla new's capacity rig	res work to a htrol System pr ary rehabilitatio erm solution to Benefits ant remains in g	retaining wall) rojects to prote on to support p producing a Cla s good condition	Renew has b , Non-Expans ect critical inf ermit complia ass A biosolids	udgeted cont ion Maintena frastructure), ance), Solids s project) and	ributions inclu nce Capital ( Odor Control, Master Plan (I the relining o	to fund alloca ude: Improve includes HV/ , Primary Cla both immedi f the Four M	able portions ment to the A AC improvem arifier Upgrad ate needs su ile Run Interc <b>Strate</b>	of capital im rlington plar ents and er les (work to ch as replac eptor <b>gic Outcome</b>	provements nt's Eads Stin nergy optim pumps, mo sing the mot	eet Property ization stud otors, and in or control c	gton wastewater y (the plant's off- ies), Technology nstrumentation),
site Wareho Enhancemen Secondary C phases that • Ensures AlexRen • While th continue seconda	ponents: Curren ouse which requi nts (Process Cor Clarifiers (necess support a long-te s the Arlington pla new's capacity rig	ires work to a ntrol System pr ary rehabilitatio erm solution to Benefits ant remains in g ths Key Milestones are the County's ion Capital, Tec	retaining wall) rojects to prote on to support p producing a Cla s good condition for FY 23 s to manage, w chnology enhan	Renew has b , Non-Expans ect critical inf ermit complia ass A biosolids to accommod ork is expected cements and	udgeted cont ion Maintena frastructure), ance), Solids s project) and late	ributions inclu nce Capital ( Odor Control, Master Plan (I the relining o Watershed	to fund alloca ude: Improve includes HV/ , Primary Cla both immedi f the Four M	able portions ment to the A AC improvem arifier Upgrad ate needs su ile Run Interc <b>Strate</b> p	of capital im rlington plan ents and en les (work to ch as replac eptor gic Outcome perations or	Area	eet Property ization stud otors, and in or control c	gton wastewater y (the plant's off- ies), Technology nstrumentation),
site Wareho Enhancemen Secondary C phases that • Ensures AlexRen • While th continue seconda	ponents: Curren ouse which requi nts (Process Cor Clarifiers (necess support a long-te s the Arlington pla new's capacity rig hese milestones a e on Non-Expans ary clarifiers, alor	ires work to a ntrol System pr ary rehabilitatio erm solution to p Benefits ant remains in g thts (ey Milestones are the County's ion Capital, Tec ng with continue	retaining wall) rojects to prote on to support p producing a Cla s good condition for FY 23 s to manage, w hnology enhan ed planning for	Renew has b , Non-Expans ect critical inf ermit complia ass A biosolids to accommod ork is expected cements and the County's	udgeted cont ion Maintena frastructure), ance), Solids s project) and late	ributions inclu nce Capital ( Odor Control, Master Plan (I the relining o Watershed	to fund alloca ude: Improve includes HV/ , Primary Cla both immedi f the Four M	able portions ment to the A AC improvem arifier Upgrad ate needs su ile Run Interc <b>Strate</b> p Impact on O efficiencies fo	of capital im rlington plan ents and en les (work to ch as replac eptor gic Outcome perations or	provements of s Eads Stin pergy optim pumps, mo sing the mot of Area	eet Property ization stud otors, and in or control c	gton wastewater y (the plant's off ies), Technology nstrumentation)

					Capital F	inancing F	ees					
Managing	Department and	l Champion	Р	roject Locatio	n	Program	and Project	Category	Estin	nated Usefu	I Life	Lifetime Budget
	Finance			Various		☑ Alexandr □ Joint Use	•			20 years		Ongoing Grant/Debt Funded. Yes
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$1,900,000
Financing												
AlexRenew	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$1,900,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
				Pi	roject Descrip	otion and Justi	fication					
documentati	The financial ad	visory fees rela ant work to cor	nsider the impa	ng of debt to fu act of funding	und both the mechanism	General CIP ar on rates, and	nd RiverRene application f	ew program, l ees to poten	tial grant or	loan progra	ms. To acco	mmodate these
documentati fees, funds a Infrastructur Project Comp	The financial ad	visory fees rela ant work to cor apital budget is novation Act (V al advisory fee depending upo	ate to structurir nsider the impa s required. Cer VIFIA) Loan. es, legal fees, ra on service rece	ng of debt to fu act of funding rtain ongoing f ate consultant	und both the mechanism fees are requ	General CIP and on rates, and ired during the	nd RiverRene application f RiverRenew	w program, I ees to poten constructior g fees.	tial grant or	loan progra aintain Alex	ms. To acco	mmodate these
documentati fees, funds a Infrastructur Project Comp Procurement	The financial ad on, rate consulta llocation in the c e Finance and In <b>conents:</b> Financi <b>Method:</b> Varies	visory fees rela ant work to cor capital budget is novation Act (V cal advisory fee depending upo	ate to structurin nsider the impa s required. Cer VIFIA) Loan. es, legal fees, ra on service rece <b>s</b>	ng of debt to fu act of funding rtain ongoing f ate consultant ived	und both the mechanism fees are requ work, and lo	General CIP and on rates, and ired during the	nd RiverRene application f RiverRenew	w program, I ees to poten constructior g fees.	tial grant or	loan progra aintain Alex	ms. To acco	mmodate these
documentati fees, funds a Infrastructur Project Comp Procurement • Investing	The financial ad on, rate consulta Ilocation in the c Finance and In <b>conents:</b> Financi	visory fees rela ant work to cor apital budget is novation Act (V ial advisory fee depending upo Benefit ce fees helps e	ate to structurin nsider the impa s required. Cer VIFIA) Loan. es, legal fees, ra on service rece <b>s</b>	ng of debt to fu act of funding rtain ongoing f ate consultant ived	und both the mechanism fees are requ work, and lo	General CIP and on rates, and ired during the an application	nd RiverRene application f RiverRenew	w program, I ees to poten constructior g fees. Strate	tial grant or	loan progra aintain Alex	ms. To acco	mmodate these
documentati fees, funds a Infrastructur Project Comp Procurement • Investing	The financial ad on, rate consulta llocation in the c e Finance and In <b>ponents:</b> Financi <b>Method:</b> Varies g in capital finan d in the most effi	visory fees rela ant work to cor apital budget is novation Act (V ial advisory fee depending upo Benefit ce fees helps e	ate to structurin hsider the impa s required. Cer VIFIA) Loan. es, legal fees, ra on service rece <b>s</b> ensure that cap	ng of debt to fu act of funding rtain ongoing f ate consultant ived	und both the mechanism fees are requ work, and lo	General CIP and on rates, and ired during the an application	nd RiverRene application f RiverRenew and servicing	w program, I ees to poten constructior g fees. Strate	tial grant or a period to m gic Outcome	loan progra aintain Alex Area	ms. To acco	mmodate these
documentati fees, funds a Infrastructur Project Comp Procurement • Investing executed • Maintair	The financial ad on, rate consulta llocation in the c e Finance and In <b>ponents:</b> Financi <b>Method:</b> Varies g in capital finan d in the most effi	visory fees rela ant work to cor capital budget is novation Act (V ial advisory fee depending upo Benefit ce fees helps e cient manner Key Milestones	ate to structurin hisider the impa s required. Cer VIFIA) Loan. es, legal fees, ra on service rece s ensure that cap for FY 23	ng of debt to fu act of funding rtain ongoing f ate consultant ived ital financing	und both the mechanism fees are requ work, and lo	General CIP an on rates, and ired during the an application Effective Fi	nd RiverRene application f RiverRenew and servicing	w program, I ees to poten constructior g fees. Strate ardship Impact on O	tial grant or period to m gic Outcome perations or	loan progra aintain Alex Area Community	ms. To acco Renew's \$32	mmodate these
documentati fees, funds a Infrastructur Project Comp Procurement • Investing executed • Maintair	The financial ad on, rate consulta llocation in the c e Finance and In <b>ponents:</b> Financi <b>Method:</b> Varies g in capital finan d in the most effi p ongoing WIFIA	visory fees rela ant work to cor capital budget is novation Act (V ial advisory fee depending upo Benefit ce fees helps e icient manner Key Milestones	ate to structurin hisider the impa is required. Cerv VIFIA) Loan. es, legal fees, ra on service rece is ensure that cap for FY 23 gement proces	ng of debt to fu act of funding rtain ongoing f ate consultant ived ital financing S	und both the mechanism fees are requ work, and lo is	General CIP an on rates, and ired during the an application Effective Fi	nd RiverRene application f RiverRenew and servicing	w program, I ees to poten constructior g fees. Strate ardship Impact on O apital Financi	tial grant or period to m gic Outcome perations or	loan progra aintain Alex Area Community	ms. To acco Renew's \$32	mmodate these



The table below and on the following page detail the FY 2023 – FY 2032 (10-year) Joint-use CIP Projects and the strategic outcome to which they are attached. Following this summary are detailed project sheets for each project including the project description, benefits, community impacts, lifetime budget, and other relevant details. Also included are descriptions of the Improvement, Renewal and Replacement Projects that are funded from the Joint IRR Fund.

Projects	Watershed Stewardship	Operational Excellence	Adaptive Culture	Public Engagement and Trust	Effective Financial Stewardship
Commonwealth Interceptor Pile Intrusion					
Upper Holmes Run Trunk Sewer Rehabilitation					
IRR: Campus Digital Signage					
IRR: Campus Wide Projects					
IRR: Collection System Projects					
IRR: Compliance Laboratory					
IRR: Information Technology Projects					
IRR: Preliminary/Primary Infrastructure					
IRR: PLC Equipment and Network Upgrades					
IRR: Safety and Security					
IRR: Secondary Infrastructure					
IRR: Solids Infrastructure					
IRR: Tertiary Infrastructure					
IRR: UV System Rehabilitation					
IRR: Warehouse and Inventory Upgrades					
IRR: WRRF Fire Alarm Upgrade					
Environmental Center: 5th/6th Floor Modifications,				•	
Carpet and HVAC Upgrades					
Environmental Center: Outdoor Exhibit Upgrade				•	
Holland Lane Pavement Reconstruction					
South Carlyle Partnership	•				
WRRF HVAC Automation System Upgrade					
RiverRenew Tunnel System - Joint Use	•				
Coliphage Study					
Emerging Contaminant Analysis	•				
Total Nitrogen Limit Compliance Study					
Climate Resilience Initiatives Stormwater System - Structural/Nonstructural Best					
Management Practices	•				
Campus-Wide Electrical Upgrade Sub-Program					
Centrate Pretreatment Facility Improvements					-
contrato i rotroatmont i aonty improvomonto					

10-year Capital	<b>Improvement Program</b>	– Joint Use
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Continued on following page



Continued from previous page

Projects	Watershed Stewardship	Operational Excellence	Adaptive Culture	Public Engagement and Trust	Effective Financial Stewardship
Building 22: Prima	ry Weir Observat	tion House			
Building G/4: Terti					
Building F: Plant El Improvements	ffluent Water (W	3) System		•	
Building L: Centrifu	ige Replacemen	t			
HMI Upgrade					
Main Campus Gall	eries Improveme	ents			
Odor Control Syste	m Upgrade				•
Purified Water Syst					
Power Distribution					
Preliminary / Prima					
Preliminary Settling	-				
Secondary Settling					
Security Services	-				•
Solids Managemer					•
Solids Managemer Digesters	nt: Building 55: A	Additional Cooling for		•	
Solids Managemer Cooling System	nt: Building 55: F	Replace Valves on W3		•	
Solids Managemer Replacement	nt: Building 55: S	Solids Screen		•	
Solids Managemer	nt: Solids/Resou	rce Recovery			•
Solids Managemer	nt: Pre-Pasteuriz	ation System		٠	

				Commor	wealth In	terceptor	Pile Intru	sion				
Managing	Department an	d Champion	Р	roject Locatio	'n	Program and Project Category			Estimated Useful Life			Lifetime Budget
	Engineering		88 feet so	WRRF outh of Junction	on Box 34	Interceptor/ Trunk Sewer Rehab.			40 years			\$975,000 Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$0	\$225,000	\$750,000	\$0	\$0	\$0	\$0	\$0	\$975,000
Financing												
AlexRenew	\$0	\$0	\$0	\$0	\$90,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$390,800
Fairfax	\$0	\$0	\$0	\$0	\$135,000	\$450,000	\$0	\$0	\$0	\$0	\$0	\$585,200
				P	roject Descrir	otion and Justi	fication					
	oonents: Desigr t Method: Undet		on of one of th	e options pre	sented in the	2014 report.						
		Benefits	S			Strategic Outcome Area						
the Cl. /	an 80% of the d Although being r d, reliable perfo	nonitored, the p				Operationa	I Excellence					
	l	Key Milestones	for FY 23					Impact on O	perations or	Community	,	
• N/A					•	Decreases Reduces ris	future O&M sk	costs				
	External or Inte	ernal Adopted Pl	an or Recomm	nendation				Changes	s from Prior	Year CIP		
• 2014 G	reeley and Hans	en Report "72 li	nch Commonw		Changes from Prior Year CIP     Cost escalated to construction mid-point.							

			Up	r Rehabi	litation								
Managing	Department and	d Champion	P	roject Location	I	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget	
						Interceptor	/ Trunk Sew	ers Rehab.		\$4,555,0000			
	Engineering		w	/est Alexandria		□ Alexandria Only			20-30 years			Grant/Debt Funded?	
						🛛 Joint Use					1	Undetermined	
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026 FY 2027		FY 2028 FY 2029		FY 2030	FY 2031	FY 2032	10 Yr. Total	
Total	\$40,000 \$0 \$880,000 \$1,760,000 \$1,3			\$1,320,000	\$440,000	\$100,000	\$55,000	\$0	\$0	\$0	\$4,555,000		
Financing AlexRenew	\$16,000	\$0	\$352,000	\$704,000	\$528,000	\$176,000	\$40,000	\$22,000	\$0	\$0	\$0	\$1,822,000	
									\$0	\$0			
Fairfax	\$24,000	\$0	\$528,000	\$1,056,000	\$792,000	\$264,000	\$60,000	\$33,000	<b>D</b>	<u>۵</u>	\$0	\$2,733,000	
				Pro	oject Descrip	tion and Justi	fication						
<ul> <li>Imp in tl for</li> <li>Ado ove orig</li> </ul>	ne CIP for FY201 FY26-27. ress Condition I	e: Rehabilitate : 6, to address ca ssues: Surface et, beginning w er connection a	30"/36" pipe ir apacity limitatic aggregate visil ith manhole 55	n Reach 8 and ons, but work h ble defects are 514 at the Fair	9 from the R as not yet be present thr fax County s	each 7 to Dow gun; re-inspec oughout man ewer connecti	den Terrance tion is neces / pipe segme on in Camero	e (~ approxim sary.) Design ents in Reach on Run Regio	ately 5,700 is schedule les 4 & 5. T nal Park, thi	feet). (This v d for FY24-2 he proposed rough manh	vork was pr 5. Construc d rehabilitat	ion extents span ownstream of the	
		Benefit	S					Strate	gic Outcome	e Area			
• Minor R	epairs and main	tenance activiti	es to maximize	asset life	•	Operationa	I Excellence						
	I	Key Milestones	for FY 23					Impact on O	perations or	Community			
• N/A							<ul> <li>Improve reliability and longevity of the HRTS.</li> <li>Traffic and parking impacts possible due to pipe cleaning/inspection and/or pipe repair/rehab activities</li> <li>Presence/storage of contractor equipment possible in City neighborhoods.</li> </ul>						

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				IRR: Car	npus Digi	tal Signag	e (Joint U	lse)				
Managing	Department and	l Champion	Р	roject Locatio	'n	Program	and Project	Category	Estimated Useful Life			Lifetime Budget
	Communications	6	Envi	Environmental Center		Non-Process Facilities  Alexandria Only  Joint Use			10 years			\$140,000 Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$0	\$140,000	\$0	\$0	\$0	\$0	\$0	\$0	\$140,000
Financing												
AlexRenew	\$0	\$0	\$0	\$0	\$56,000	\$0	\$0	\$0	\$0	\$0	\$0	\$56,000
Fairfax	\$0	\$0	\$0	\$0	\$84,000	\$0	\$0	\$0	\$0	\$0	\$0	\$84,000
				Р	roject Descrij	otion and Justi	fication					
informative of also be requi	communications											nprehensive and maintenance will
also be requi Project Comp	communications	across campus	s to all staff sim	nultaneously.	It will include	the digital sig						
also be requi Project Comp	communications ired. conents: Softwa	across campus	s to all staff sin re installation,	nultaneously.	It will include	the digital sig		installation,		g, and traini		
<ul> <li>also be requi</li> <li>Project Comp</li> <li>Procurement</li> <li>Allows for</li> </ul>	communications ired. conents: Softwa t <b>Method:</b> Undete or fast and efficie rade will also allo	across campus re and hardwar ermined Benefits ent communica	s to all staff sin re installation, <b>s</b> tions with Alex	nultaneously. programming Renew staff.	It will include , and training	the digital sig	ns, software,	installation,	programmin	g, and traini		
<ul> <li>also be requi</li> <li>Project Comp</li> <li>Procurement</li> <li>Allows for</li> <li>The upg</li> </ul>	communications ired. conents: Softwa t Method: Undete or fast and efficie rade will also allo igns.	across campus re and hardwar ermined Benefits ent communica	s to all staff sim re installation, <b>s</b> tions with Alex namic and stat	nultaneously. programming Renew staff.	It will include , and training	the digital sig	ns, software,	installation,	programmin gic Outcome	g, and traini Area	ng. Annual	
<ul> <li>also be requi</li> <li>Project Comp</li> <li>Procurement</li> <li>Allows for</li> <li>The upg</li> </ul>	communications ired. conents: Softwa t Method: Undete or fast and efficie rade will also allo igns.	across campus re and hardwar ermined Benefits ent communica ow for more dyr	s to all staff sim re installation, <b>s</b> tions with Alex namic and stat	nultaneously. programming Renew staff.	It will include , and training	the digital sig	ns, software,	installation, Strate	programmin gic Outcome perations or	g, and traini	ng. Annual	
also be requi Project Comp Procurement • Allows fo • The upg on the s	communications ired. conents: Softwa t Method: Undete or fast and efficie rade will also allo igns.	across campus re and hardwar ermined Benefits ent communica ow for more dyr Key Milestones	to all staff sim re installation, s tions with Alex namic and stat	nultaneously. programming Renew staff. ic content to t	It will include , and training	the digital sig	ns, software, ulture	installation, Strate Impact on O munity and u	programmin gic Outcome perations or	g, and traini Area Community ities.	ng. Annual	

				IRR: Ca								
Managing	Department and	I Champion	Р	roject Locatio	n	Program and Project Category			Estimated Useful Life			Lifetime Budget
Opera	tions and Mainte	enance	WRRF			Improve., Rehab., Replacement Alexandria Only Joint Use			4 years for odor media 6 years for cranes 10 years for vehicles 10 years for NMF media 15 year for odor scrubber and piping			\$18,282,894 Grant/Debt Funded. No
Expenditure	re Prior Year FY 2023 FY 2024 FY 2025 FY 2026		FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total		
Total	\$315,600	\$1,178,756	\$1,101,944	\$1,200,000	\$1,200,000	\$2,281,699	\$484,516	\$487,361	\$490,235	\$493,137	\$496,068	\$9,413,716
Financing												
AlexRenew	\$126,240	\$471,502 \$707,254	\$440,778 \$601,166	\$720,000 \$480,000	\$720,000	\$912,680	\$193,806	\$194,944	\$196,094	\$197,255	\$198,427	\$3,765,486
Fairfax	\$300,360	\$480,000	\$1,369,019	\$290,710	\$292,417	\$294,141	\$295,882	\$297,641	\$5,648,230			
limited to ro	This subprogram of, concrete, HVA	n covers all imp AC, purified wa	provement, reh ter system, vel	nabilitation and nicles, odor co	d replacemer	replacement,	ociated with truck scale,	non-process light fixtures	facilities wo , sump pum	rk at the WF p pits, heat	RF. This inc	cludes, but is n noke sensors,
limited to ro Building MC Project Com heat detecto		n covers all imp AC, purified wa ethanol foam s oncrete, HVAC, s, C-Building M	provement, reh ter system, veh sire suppressio purified waten CC, switch gea	nabilitation and nicles, odor co n system, Air ( r system. Vehi	d replacemer ontrol repairs, Compressor, a cles, odor co	nt projects ass /replacement, and flares. This ntrol repair/re	ociated with truck scale, s subprogran placement, <i>A</i>	non-process light fixtures n also includ AlexRenew's	facilities wo , sump pum es the maint website, true	rk at the WF p pits, heat enance of th ck scale, lig	RF. This inc detector, sn ne fountain a	cludes, but is n noke sensors, and aquarium.
limited to ro- Building MCC Project Com heat detecto	of, concrete, HVA C, switch gear, M ponents: Roof, co r, smoke sensors	n covers all imp AC, purified wa ethanol foam s oncrete, HVAC, s, C-Building M	provement, reh ter system, veh sire suppressio purified water CC, switch gea	nabilitation and nicles, odor co n system, Air ( r system. Vehi	d replacemer ontrol repairs, Compressor, a cles, odor co	nt projects ass /replacement, and flares. This ntrol repair/re	ociated with truck scale, s subprogran placement, <i>A</i>	non-process light fixtures n also includ AlexRenew's essor, flares,	facilities wo , sump pum es the maint website, true	rk at the WF p pits, heat enance of th ck scale, lig uarium	RF. This inc detector, sn ne fountain a	cludes, but is n noke sensors, and aquarium.

Key Milestones for FY 23	Impact on Operations or Community
<ul> <li>New transportation vehicles</li> <li>Complete plant air system, chiller, HVAC system and crane repairs</li> <li>Complete rebuilt/replace of one (1) Odor Scrubber</li> <li>Complete review of valve exercising program</li> <li>Complete roof and drain replacements</li> <li>Pass boiler inspection</li> <li>Complete Plant Air System repairs</li> <li>Replace front entry doors for reliability</li> <li>Start purified water system testing</li> <li>Transition EC systems (including irrigation) to utilize purified water</li> <li>Complete assessment and repair work for flare systems</li> <li>Address concerns regarding Methanol Fire Suppression System</li> <li>Replace the G-Building Air Compressor.</li> </ul>	<ul> <li>Environmental Air Quality Control</li> <li>Increase availability of purified water.</li> <li>Increase equipment availability for process and high flow events</li> <li>Increase equipment reliability for future RiverRenew Project</li> <li>Lessen the carbon footprint</li> <li>Maintain proper air change in Class I DIV II environments</li> <li>Maintain roof integrity to prevent equipment damage.</li> <li>Maintain safety for crane operators</li> <li>Maintain the esthetic of the plant to blend in the surrounding community</li> <li>Enhances safety of working personnel inside the WRRF</li> </ul>
External or Internal Adopted Plan or Recommendation	Changes from Prior Year CIP
<ul> <li>SOP-X-NMF Odor Control System Carbon Replacement (by CH2M 12/30/15)</li> <li>Website Reinvention Business Case (12/19/17)</li> <li>GHD Site Visit report from 06/14/2018</li> </ul>	Updated to reflect rehabilitation timing changes.

				IRR: Colle	ction Sys	tem Projec	cts (Joint	Use)				
Managing	Department and	l Champion	P	roject Location	ı	Program and Project Category			Estimated Useful Life			Lifetime Budget
Opera	ations & Mainte	nance	Various			Improve., Rehab., Replacement  Alexandria Only  Joint Use		20-50 years			\$165,000 Grant/Debt Funded? Undetermined	
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$15,000	\$15,000	Ff 2024         Ff 2025         Ff 2026           \$15,000         \$15,000         \$15,000			\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$150,000
Financing	,	,	,	+10,000		,		,	,	,	+10,000	+100,000
AlexRenew	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$60,000
Fairfax	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$90,000
Background: their useful lif Project Comp		n covers all imp rmined	•	ment of joint u	se collectior	•	s.	em assets tha	at serve both	n the City an	d Fairfax Co	unty to maintain
		Benefits	3					Strate	gic Outcome	e Area		
Full redu	ndancy and relia	ability of all ass	ets		•	Operationa	I Excellence					
	ł	(ey Milestones	for FY 23					Impact on O	perations or	Community		
• N/A						Coordinatio	on with O&M	for any work				
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	from Prior	Year CIP		
• N/A				Costs updated								

				IRR: Com	pliance	Laborator	y (Joint U	se)				
Managing	Department and	l Champion	Р	roject Location		Program and Project Category			Estimated Useful Life			Lifetime Budget
						Improve., Rehab., Replacement						\$175,500
	Laboratory		G	2 - Laboratory		<ul> <li>□ Alexandria Only</li> <li>☑ Joint Use</li> </ul>				5-15 years		Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$45,500	\$50,000	\$20,000	\$0	\$20,000	\$0	\$20,000	\$0	\$20,000	\$0	\$175,500
Financing												
AlexRenew	\$0	\$18,200	\$20,000	\$8,000	\$0 \$0	\$8,000	\$0	\$8,000	\$0 \$0	\$8,000	\$0 \$0	\$70,200
Fairfax	\$0	\$27,300	\$30,000	\$12,000		\$12,000	\$0	\$12,000	\$0	\$12,000	\$0	\$105,300
				Pro	ject Descrij	otion and Justi	fication					
scrubber dis	hwasher, Refrige	rator, Digital ca as appropriate	imera (for micr		•		-					ishwasher, Flask
		Benefits	-					Strate	gic Outcome	e Area		
<ul> <li>This equals analyses regulato compute</li> <li>For relia</li> <li>Provide</li> </ul>	s/maintains labo ipment will impro- s, process optimi ry and research erization and aut- bility and redund valuable informa phases of the tre	ove sample thro zation, and enh programs throu omation. lancy tion about the o	oughput, repro nance the qual gh instrument condition of m	ducibility of reg ity of ongoing modernization	•	Operationa	I Excellence					
	k	(ey Milestones 1	for FY 23					Impact on O	perations or	Community	,	
<ul> <li>Replacement of pH meter, DO meter</li> <li>Replacement of Dishwasher and Refrigerator</li> </ul>						Improves/maintains lab performance and efficiency						
•	•		erator		•					ncy		
•	•	her and Refrige		endation	•	improves/i			s from Prior	-		

				IRR: Infor	mation T	echnology	Projects	(Joint Us	e)				
Managing	g Department and	d Champion	Р	roject Locatio	n	Program	and Project	Category	Est	imated Usefu	l Life	Lifetime Budget	
Int	formation Techno	ology		Various Improve., Rehab., Replac			placement 5 years				\$13,100,000 Grant/Debt Funded?		
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total	
Total	\$1,350,000	\$3,000,000	\$2,000,000 \$1,800,000 \$1,000,00			\$500,000	\$500,000	\$1,500,000	\$0	\$500,000	\$0	\$10,800,000	
Financing													
AlexRenew	\$540,000	\$1,200,000	\$800,000	\$720,000	\$400,000	\$200,000	\$200,000	\$600,000	\$0	\$200,000	\$0	\$4,320,000	
Fairfax	\$810,000	\$1,800,000	\$1,200,000	\$1,080,000	\$600,000	\$300,000	\$300,000	\$900,000	\$0	\$300,000	\$0	\$6,480,000	
				Pi	oject Descrip	tion and Justif	fication						
	backup datacen I <b>t Method:</b> Variou	s cooperative of	contracts	nents.									
		Benefit	S					Strate	gic Outcom	le Area			
	ed cybersecurity es to supported v	ersions of hard	dware and softw	vare	•	Operationa	I excellence						
	ŀ	Key Milestones	for FY 23					Impact on O	perations o	or Community			
<ul><li>Upgrade</li><li>Upgrade</li></ul>	<ul> <li>Key Milestones for FY 23</li> <li>Upgrade datacenters (primary, secondary, off site)</li> <li>Upgrade applications</li> <li>Upgrade SCADA systems</li> <li>Upgrade networking</li> </ul>						Increased stability of environment     Increased network security     Increased productivity						
- 1-8	e networking				•	Increased	productivity						
	External or Inte	rnal Adopted P	lan or Recomm	endation	•	Increased (	productivity	Changes	from Prior	Year CIP			

			IRR	: Prelimina	ary/Prima	ry Infrastr	ucture (J	oint Use)				
Managing	g Department and	Champion	Р	roject Locatio	n	Program and Project Category			Estimated Useful Life			Lifetime Budget
Opera	Operations and Maintenance WRRF				Improve., Rehab., Replacement  Alexandria Only  Joint Use			6 Years for raw sewage pump Yearly for probes and instruments 10 years for >100 Hp Motors 10 years for Large VFDs			\$1,799,069 Grant/Debt Funded? No	
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$80,000	\$80,800	\$85,648	\$86,504	\$87,370	\$34,948	\$35,297	\$35,650	\$36,007	\$36,367	\$36,730	\$554,958
Financing												
AlexRenew	\$32,000	\$32,320	\$34,259	\$34,602	\$34,948	\$13,979	\$14,119	\$14,260	\$14,403	\$14,547	\$14,692	\$222,129
Fairfax	\$48,000	\$48,480	\$51,389	\$51,903	\$52,422	\$20,969	\$21,178	\$21,390	\$21,604	\$21,820	\$22,038	\$333,193
				P	roject Descrip	otion and Justi	fication					
Project Com	ponents: This inc		provement, reh ot limited to se						ocesses in p	reliminary ar	nd primary f	acilities.
-		cludes, but is n	ot limited to se					tion.			nd primary f	acilities.
-	ponents: This inc	cludes, but is n	ot limited to se					tion.	pcesses in pr		nd primary f	acilities.
Procuremen     Reliabil     Improve	ponents: This inc	ermined Benefit: ary/primary inf , level, pressu	ot limited to se <b>s</b> frastructure			s, pumps and		tion.			nd primary f	acilities.
Procuremen     Reliabil     Improve	ponents: This ind t Method: Undete ity of the prelimin e accuracy on flow ed and advanced	ermined Benefit: ary/primary inf , level, pressu	ot limited to se s frastructure re, etc.		robes, motor	s, pumps and	instrumentat	tion.	gic Outcome	Area	nd primary f	acilities.
Procurement     Reliabil     Improve     Improve     Comple     Comple	ponents: This ind it Method: Undete ity of the prelimin e accuracy on flow ed and advanced K te replacement o te rebuilt or repla ement of motors v	eludes, but is ne ermined Benefit: ary/primary inf a, level, pressur automation ey Milestones r repair of proc cement of a Ra vith >100 Hp	ot limited to se s frastructure re, etc. for FY 23 ess instrument aw Sewage Pur	ettling tanks, p ts np	robes, motor	s, pumps and Operationa Decreases Reduces ri	instrumentat al Excellence future 0&M sk	tion. Strate Impact on O costs ailability to pr	gic Outcome perations or ocess	Area Community	nd primary f	acilities.
<ul> <li>Reliabil</li> <li>Improve</li> <li>Improve</li> <li>Comple</li> <li>Comple</li> </ul>	ponents: This ind it Method: Undete ity of the prelimin e accuracy on flow ed and advanced K te replacement o te rebuilt or repla	eludes, but is ne ermined Benefit: ary/primary inf a, level, pressur automation ey Milestones r repair of proc cement of a Ra vith >100 Hp	ot limited to se s frastructure re, etc. for FY 23 ess instrument aw Sewage Pur	ettling tanks, p ts np	robes, motor	s, pumps and Operationa Decreases Reduces ri	instrumentat al Excellence future 0&M sk	tion. Strate Impact on O costs ailability to pr	gic Outcome	Area Community	nd primary f	acilities.

			IRR: P	LC Equipn	nent and	Network L	pgrades	00 111 00	,			
Managing	Department and	d Champion	P	roject Locatio	n	Program and Project Category			Estimated Useful Life			Lifetime Budget
Engineering IT							Improve., Rehab., Replacement			5 years		
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	No 10 Yr. Total
Total	\$0	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$3,000,000
Financing	<b>**</b>	+000,000	+000,000	+000,000	+000,000	+000,000						+0,000,000
AlexRenew	\$0	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$1,200,000
Fairfax	\$0	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$1,800,000
				P	roject Descrir	tion and Justi	fication					
Background	blace PLCs with PLCs need to renewal as tech	be replaced as	they reach the	e end of their	useful lives	and/or are no	longer supp	•				PLCs will require
Background continuous i Project Com	PLCs need to	be replaced as inology continu nardware and p	they reach the	e end of their	useful lives	and/or are no	longer supp	•				PLCs will require
Background continuous i Project Com	: PLCs need to renewal as tech ponents: PLC h	be replaced as inology continu nardware and p	they reach the les to change programming	e end of their	useful lives	and/or are no	longer supp	ed renewal o		assets as tl		PLCs will require
Background continuous i Project Com Procuremen	: PLCs need to renewal as tech ponents: PLC h	be replaced as inology continu hardware and p <b>Benefit</b> e as needed w	they reach the les to change programming <b>s</b> ill ensure the p	e end of their rapidly. This u plant control	useful lives upgrade will system	and/or are no provide for on	longer supp	ed renewal of Strate	of the PLCs	assets as tl		PLCs will require
Background continuous i Project Com Procuremen	PLCs need to renewal as tech ponents: PLC h t Method: TBD w PLC hardwar rational and ha	be replaced as inology continu hardware and p <b>Benefit</b> e as needed w	they reach the les to change programming <b>s</b> ill ensure the p hs supported b	e end of their rapidly. This u plant control	useful lives upgrade will system	and/or are no provide for on	longer supp going, phase al Excellence	ed renewal of Strate	of the PLCs a	assets as tl e Area	ney age.	PLCs will require
Background continuous i Project Com Procuremen Installing ne remains ope	PLCs need to renewal as tech ponents: PLC h t Method: TBD w PLC hardwar rational and ha	be replaced as inology continu- nardware and p Benefit e as needed w ardware remain <b>Cey Milestones</b>	they reach the les to change programming <b>s</b> ill ensure the p hs supported b	e end of their rapidly. This u plant control	useful lives upgrade will system	and/or are no provide for on Operationa	longer supp Igoing, phase al Excellence	ed renewal of Strate	of the PLCs a	assets as ti e Area <sup>.</sup> Communit	ney age.	PLCs will require
Background continuous i Project Com Procuremen Installing ne remains ope	: PLCs need to renewal as tech ponents: PLC f t Method: TBD w PLC hardwar rational and ha	be replaced as inology continu- nardware and p Benefit e as needed w ardware remain <b>Cey Milestones</b> solete PLCs	they reach the les to change programming s ill ensure the p is supported b for FY 23	e end of their rapidly. This o plant control by the manufa	useful lives upgrade will system	and/or are no provide for on Operationa	longer supp Igoing, phase al Excellence	ed renewal of Strate, mpact on Op as outages fo	of the PLCs a	assets as ti e Area <sup>-</sup> Communit upgrade	ney age.	PLCs will require

				IRR: S	arely and	County						
Managing	Department and	d Champion	P	roject Locatio	n	Program and Project Category			Estimated Useful Life			Lifetime Budget
ł	Human Resources Various				Improve., Rehab., Replacement <ul> <li>Alexandria Only</li> <li>Joint Use</li> </ul>			N/A			\$1,420,000 Grant/Debt Funded. No	
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$355,000	\$355,000	\$0	\$0	\$0	\$355,000	\$355,000	\$0	\$0	\$0	\$1,420,000
Financing	0	\$142.000	\$142.000	¢0	\$0	\$0	¢142.000	\$142.000	\$0	\$0	0.0	\$568.000
AlexRenew Fairfax	\$0 \$0	\$142,000	\$142,000	\$0 \$0	\$0	\$0	\$142,000 \$213,000	\$142,000	\$0	\$0	\$0 \$0	\$568,000 \$852,000
i dillax	φU	φ213,000	φ213,000	_		⊥ tion and Justi		Ψ213,000		φU		φ032,000
	0-6-6-					ner visitors at			+	unte al tra conclus		
safety and se the Plant. Project Comp Procurement • Enhance • Fewer re	conents: Enginee Method: Varies d Safety and We	nt. Funds are re ering studies to as needed Benefits ell-being of the last worksite	equired for imp evaluate optio s	lementation o	e Plant and p of measures t	orovides recor hat are essen as Fire Panels	nmendation tial for the ov	of measures erall safety a	that need t	of the Plant		pted to enhance nd functioning of
safety and se the Plant. Project Comp Procurement • Enhance • Fewer re • Lower w	ecurity at the Pla conents: Enginee Method: Varies ed Safety and We portable injuries orkers compens urity during cons	nt. Funds are re ering studies to as needed <b>Benefit</b> ell-being of the l s at worksite ation	equired for imp evaluate optio s Plant employee rent injuries, th	lementation on ns, system up	e Plant and p of measures t ogrades such	orovides recor hat are essen as Fire Panels	nmendation tial for the ov	of measures erall safety a	that need t nd security gic Outcome	of the Plant	employee a	
safety and se the Plant. Project Comp Procurement • Enhance • Fewer re • Lower w • Site sect	ecurity at the Pla conents: Enginee Method: Varies ed Safety and We portable injuries orkers compens urity during cons	nt. Funds are re ering studies to as needed Benefits ell-being of the l s at worksite ation truction to prev Key Milestones	equired for imp evaluate optio s Plant employee rent injuries, th for FY 23	lementation on ns, system up	e Plant and p of measures t ogrades such	orovides recor hat are essen as Fire Panels Operationa	nmendation tial for the ov	of measures erall safety a Strate	that need t nd security gic Outcome	of the Plant	employee a	
safety and se the Plant. Project Comp Procurement • Enhance • Fewer re • Lower w • Site sect	ecurity at the Pla conents: Enginee Method: Varies ed Safety and We portable injuries orkers compens urity during cons	nt. Funds are re ering studies to as needed Benefits ell-being of the s at worksite ation truction to prev Key Milestones safety recomme	equired for imp evaluate optio s Plant employee rent injuries, th for FY 23 endations	efts, etc.	e Plant and portion of measures to ogrades such	orovides recor hat are essen as Fire Panels Operationa	nmendation tial for the ov	of measures erall safety a Strate Impact on O sures at the I	that need t nd security gic Outcome	of the Plant	employee a	nd functioning of

				IRR: Seco	ondary Inf	frastructu	re (Joint l	Jse)				
Managing	Department and	l Champion	Pi	roject Locatior	ı	Program and Project Category			Estimated Useful Life			Lifetime Budget
	Engineering		WRRF			Improve., Rehab., Replacement  Alexandria Only  Joint Use			5 years 10 years 5 ye 10 15 yea	ars - BRB act 5 - large BRB 5 - small BRE ars - RAS pu 0 years - VFE Irs - NMF act BRB mix liqu	mixers 3 mixers mps Os cuators	\$18,173,899 Grant/Debt Funded. No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$1,638,000	\$1,737,099	\$1,754,470	\$1,772,015	\$1,789,735	\$1,807,633	\$1,825,709	\$1,843,965	\$1,862,405	\$1,881,029	\$1,899,840	\$18,173,902
Financing	0055.000	<b>*</b> 004.515	A70/ 702	A705.555	A745 00 1	A700.070	\$700 CC 1	A707	A744000	4756 111		A7.000 501
AlexRenew	\$655,200	\$694,840	\$701,788	\$708,806	\$715,894	\$723,053	\$730,284	\$737,586	\$744,962	\$752,411	\$759,936	\$7,269,561
Fairfax	\$982,800	\$1,042,259	\$1,052,682	\$1,063,209	\$1,073,841	\$1,084,580	\$1,095,425	\$1,106,379	\$1,117,443	\$1,128,618	\$1,139,904	\$10,904,340
Droject Com	Cackground: This subprogram covers all improvement, rehabilitation, and replacer project Components: BRB AUMA actuators, NMF actuators, BRB mixers, VFDs, mote procurement Method: Undetermined Benefits Improve accuracy on flow, level, pressure, etc. Reliable diversion and transfer of flow using NMF											e CCT obcensels
Procurement     Improve     Reliable	t Method: Undete	MA actuators, ermined Benefit v, level, pressu ansfer of flow u	NMF actuators, <b>s</b> re, etc. using NMF	, BRB mixers,	•	s, pumps and i		ion repair a		ent, air flow		n SST channels
Procurement     Improve     Reliable	t <b>Method:</b> Undeter accuracy on flow diversion and tra ty and efficiency	MA actuators, ermined Benefit v, level, pressu ansfer of flow u	NMF actuators, <b>s</b> re, etc. using NMF ary infrastructur	, BRB mixers,	VFDs, motors	s, pumps and i	nstrumentat	ion repair an	nd replacem	ent, air flow	monitoring i	n SST channels
Procurement  Improve Reliable Reliabilit  Complet for the E Complet Capacity Complet Complet One NM Replace	t <b>Method:</b> Undeter accuracy on flow diversion and tra ty and efficiency <b>K</b> e rebuilt or repla	MA actuators, ermined Benefit v, level, pressu ansfer of flow u of the seconda (ey Milestones cement of Low cement of 1 M f all actuators f r repair of proc installed, teste pumps	NMF actuators, s re, etc. using NMF ary infrastructur for FY 23 Speed (1) and ixed Liquor Pur for one (1) BRB ess instrument ed and online	, BRB mixers, re Compact Mix mp and high/L Tank	VFDs, motors	operationa	nstrumentat	ion repair an Strat	nd replacem egic Outcom Operations o	ent, air flow le Area r Communit	monitoring i	n SST channels

Risk Review of Processes and Assets, Risk Review Assessment (BOA WA2- 2019-3, Task 4)	•	Change in funding to meet new replacement/rehabilitation schedule
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				IRR: So	olids Infr	astructure	(Joint Us	e)				
Managing	Department and	l Champion	Pi	roject Locatio	ı	Program and Project Category			Estimated Useful Life			Lifetime Budget
Operations and Maintenance			WRRF		Improv.,	•	acement	Yearly for probes 2 years for screen presses 12 years for heat exchanger actuators 10 years for >100 hp motors			\$11,000,000 Grant/Debt Funded? No	
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$1,635,500	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$11,00,000
Financing AlexRenew	\$654,200	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000	\$4,400,000
Fairfax	\$981,300	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$720,000	\$720,000	\$720,000	\$720,000	\$720,000	\$6,600,000
			<u>.</u>	Pi	oject Descr	iption and Justi	fication					
Procurement	: <b>Method:</b> Undete											
<ul> <li>Maintair</li> <li>Extende</li> <li>Maintair</li> <li>Full opti</li> <li>Reduce</li> <li>Reduced</li> </ul>	Indancy and relia A AlexRenew Bio- d equipment life consistent solid mization of the M Carbon Emission d pump maintena d pump and pipe	solids Class A o associated wit Is percentage Aethane Gas su Is ance due to exo	lids processing output h polymer feed upply generatio cessive ragging	n		Operationa	I Excellence	Strate	gic Outcom	e Area		
	٢	key Milestones	for FY 23					Impact on O	perations or	Community	y	
<ul> <li>8-10 VF</li> <li>Complet</li> <li>Complet</li> <li>Complet</li> <li>Complet</li> </ul>	er Feed Pumps i Ds installed, test e 1 screen press e rebuild of one e rebuild of one e rehab of one ( e replacement o	ed and online s replacement (1) TCEN (1) DCEN 1) digester tanl	۲.	Past Heat Exc		<ul> <li>Increase en Increase en Increase en Requires D equipment</li> </ul>	quipment ava quipment reli MR reporting	ailability for h ailability for s iability for fut g at sample p o negative im tures.	olids proces ure RiverRe point of com	s new Project pliance and	evaluating p	

• • • • •	Delivery of 4 new and rebuilt Seepex Pumps Complete rebuilt of two 30HP Explosion Proof Heat Exchangers motor Complete rehab of one (1) Thickening Tank Complete replacement of one (1) Centrate Recycle pump Complete investigation on maintaining AlexRenew Bio-solids Class A output Complete replacement or repair of process instruments Replace 1 dewatering centrifuge feed pump Rebuild 2 dewatering centrifuge pump Replace 14 centrifuge air actuated diverter gate	
	External or Internal Adopted Plan or Recommendation	Changes from Prior Year CIP
•	Biosolids testing/sampling action plan approved October 2019 Risk Review of Processes and Assets, Risk Review Assessment (BOA WA2 2019-3, Task 4)	Change in rehabilitation/replacement timing

				IRR: Ter	tiary Infr	astructure	(Joint Us	se)				
Managing [	Department and	d Champion	P	roject Locatior	1	Program and Project Category			Estimated Useful Life			Lifetime Budget
Operati	Operations and Maintenance			WRRF		Improv., Rehab., and Replacement  Alexandria Only  Joint Use			6 years for UV system parts Yearly for probes 10 years for >100 Hp motors 10 years for Inter. PS pumps 10 years for VFD replacements			\$11,571,200 Grant/Debt Funded? No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$358,000	\$2,240,700	\$2,252,100	\$1,763,900	\$1,776,000	\$683,500	\$696,400	\$453,700	\$597,400	\$611,500	\$496,000	11,571,200
Financing	\$143,200	\$896,280	\$900,840	\$705,560	\$710,400	\$273,400	\$278,560	\$181,480	\$238,960	\$244,600	\$198,400	\$4,628,480
AlexRenew Fairfax	\$143,200	\$896,280	\$900,840	\$1,058,340	\$1,065,600	\$273,400	\$278,560 \$417,840	\$181,480	\$238,960	\$244,600	\$198,400	\$4,628,480
. Gillax			,,,			tion and Justi		· - · - · - · - · ·		,,		
This includes, Project Compo Procurement • Redunda • Improve a	but is not limit onents: Various Method: Undet ncy and reliabil	ed to, UV syster ermined Benefits ity of the tertiar w, level, pressu	n parts, instrur <b>s</b> y and disinfect	nents, probes,	•	nps, VFDs repl			gic Outcome			eatment facilities.
	I	Key Milestones	for FY 23					Impact on O	perations or	Community	,	
<ul> <li>Building G</li> <li>Complete</li> <li>Complete</li> <li>Complete</li> <li>Installatio</li> <li>Replace G</li> <li>Replace n</li> <li>UV System</li> <li>Replace G</li> </ul>	e rebuilt or repla rebuilt or repla rebuilt or repla on, and testing of motors with nent or repair of m Parts installe or rebuild 1 was	am for New Sol acement of an li acement of equi acement one (1 of Robicon VFD >100 Hp f process instru d, tested and o	ntermediate Pu ipment for a Te ) Wash Water F replacements ments nline	ertiary Tank	•			ailability to pr ability for fut		v events		

<ul> <li>Replace or rebuild filter backwash waste pumps</li> <li>Replace Sludge pumps</li> <li>Replace Gear boxes for mixers</li> <li>Replace 4 MCC (motor control center)</li> <li>Replace 1 discharge valves for intermediate pumps</li> </ul>	
External or Internal Adopted Plan or Recommendation	Changes from Prior Year CIP
Risk Review of Processes and Assets, Risk Review Assessment (BOA WA2- 2019-3, Task 4)	Projects delayed due to Covid. New components added due to change in rehabilitation/replacement timing.

				IRR: UV S	System Re	ehabilitatio	on (Joint l	Jse)				
Managing	Department and	l Champion	P	roject Locatio	n	Program and Project Category			Estimated Useful Life			Lifetime Budget
Opera	Operations and Maintenance					WRRF System Improvements  Alexandria Only  Joint Use			4-5 years (Lamps and Peripherals)			\$1,621,839 Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$675,000	\$225,000	\$0	\$0	\$325,810	\$0	\$0	\$0	\$396,029	\$0	\$0	\$946,839
Financing AlexRenew	\$270,000	\$90,000	\$0	\$0	\$130,324	\$0	\$0	\$0	\$158,412	\$0	\$0	\$378,736
Fairfax	\$270,000	\$90,000	\$0	\$0	\$130,324	\$0	\$0	\$0	\$158,412 \$237,617	\$0	\$0	\$568,103
-			-		-	tion and Justi	-					
Background: items are rea	aching the end o	peration and po in Plant UV Sys f their useful life	erformance. tem serves to c e and need to	lisinfect the W be replaced.	Vater Resourc	es Recovery Fa	acility (WRRF	) effluent flov	v, prior to dis	charge. The	lamps and	/maintenance to other equipment
Background: items are rea Project Com Installation &	AlexRenew's Ma	peration and p in Plant UV Sys f their useful lif ering & SCADA issioning. Note	erformance. tem serves to c e and need to l Support, UV S	lisinfect the W be replaced. ystem OEM re	Vater Resourc eplacement p	es Recovery Fa arts (lamps ar	acility (WRRF	) effluent flov s, sensors a	v, prior to dis nd modules,	charge. The ballasts, wi	e lamps and	other equipmen ers, and probes)
Background: items are rea Project Com Installation &	AlexRenew's Ma aching the end o <b>conents:</b> Engine & Startup/Comm	peration and p in Plant UV Sys f their useful lif ering & SCADA issioning. Note	erformance. tem serves to c e and need to Support, UV S e that the lamps	lisinfect the W be replaced. ystem OEM re	Vater Resourc eplacement p	es Recovery Fa arts (lamps ar	acility (WRRF	) effluent flow s, sensors a Replaceme	v, prior to dis nd modules,	charge. The ballasts, wi	e lamps and	other equipmen ers, and probes)
Background: items are rea Project Com Installation & Procurement	AlexRenew's Ma aching the end o conents: Engine Startup/Comm Method: Undeta ment of consum	peration and p in Plant UV Sys f their useful life ering & SCADA issioning. Note ermined Benefits	erformance. tem serves to c e and need to Support, UV S e that the lamps s	disinfect the W be replaced. ystem OEM re s have a proje	Vater Resourc eplacement p ected 4-year li	es Recovery Fa arts (lamps ar fe under norm	acility (WRRF	) effluent flow s, sensors a Replaceme	v, prior to dis nd modules, nt of the lam	charge. The ballasts, wi	e lamps and	other equipmen ers, and probes)
Background: items are rea Project Com Installation & Procurement • Replace	AlexRenew's Ma aching the end o <b>conents:</b> Engine & Startup/Comm : <b>Method:</b> Undete ment of consum ance	peration and p in Plant UV Sys f their useful life ering & SCADA issioning. Note ermined Benefits	erformance. tem serves to c e and need to Support, UV S that the lamps t to ensure reli	disinfect the W be replaced. ystem OEM re s have a proje	Vater Resourc eplacement p ected 4-year li	es Recovery Fa arts (lamps ar fe under norm	acility (WRRF nd peripheral al operation.	) effluent flov s, sensors a Replaceme <b>Strate</b>	v, prior to dis nd modules, nt of the lam	charge. The ballasts, wi ps is theref	e lamps and per canniste ore shown e	other equipmen ers, and probes)
Background: items are rea Project Com Installation & Procurement • Replace perform	AlexRenew's Ma aching the end o <b>conents:</b> Engine & Startup/Comm : <b>Method:</b> Undete ment of consum ance	peration and peration and peration and peration Plant UV Sys f their useful life ering & SCADA issioning. Note ermined Benefits able equipment Key Milestones	erformance. tem serves to c e and need to Support, UV S e that the lamps t to ensure reliance for FY 23	lisinfect the W be replaced. ystem OEM re s have a proje	Vater Resource eplacement p ected 4-year li	es Recovery Fa arts (lamps ar fe under norm Operationa Equipment	acility (WRRF nd peripheral al operation. I Excellence replacemen	) effluent flow s, sensors a Replaceme Strate Impact on O ts and additi	v, prior to dis nd modules, nt of the lam egic Outcome	charge. The ballasts, wi ps is theref Area Community	e lamps and per canniste ore shown e	other equipmen ers, and probes) every 4-5 years.
Background: items are rea Project Com Installation & Procurement • Replace perform	AlexRenew's Ma aching the end o <b>conents:</b> Engine & Startup/Comm : <b>Method:</b> Undete ment of consum ance	peration and peration and peration and peration Plant UV Sys f their useful life ering & SCADA issioning. Note ermined Benefits able equipment (ey Milestones) t replacements	erformance. tem serves to c e and need to Support, UV S e that the lamps t to ensure reliance for FY 23 and startup/c	disinfect the W be replaced. ystem OEM re s have a proje able disinfect ommissioning	Vater Resource eplacement p ected 4-year li	es Recovery Fa arts (lamps ar fe under norm Operationa Equipment	acility (WRRF nd peripheral al operation. I Excellence replacemen	) effluent flow s, sensors a Replaceme <b>Strate</b> Impact on O ts and additi <i>(</i> ) and reduce	w, prior to dis nd modules, nt of the lam egic Outcome perations or onal SCADA e	charge. The ballasts, wi ps is theref Area Community enhanceme M burden du	e lamps and per canniste ore shown e	other equipmen ers, and probes every 4-5 years.

			IRR:	Warehous	se and Inv	ventory Up	grades (.	Joint Use)				
Managing	Department and	d Champion	P	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
	Finance		-	Varehouse, Bi al Space, Buil	-	Improve., □ Alexandr ⊠ Joint Use	<b>,</b>	lacement		25-30 years	;	\$1,350,000 Grant/Debt Funded? No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$150,000	\$500,000	\$500,000	\$150,000	\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$1,350,000
Financing												
AlexRenew	\$0	\$60,000	\$200,000	\$200,000	\$60,000	\$10,000	\$0	\$0	\$0	\$10,000	\$0	\$540,000
Fairfax	\$0	\$90,000	\$300,000	\$300,000	\$90,000	\$15,000	\$0	\$0	\$0	\$15,000	\$0	\$810,000
				Pi	oject Descrip	otion and Justi	fication	-			-	

**Need:** AlexRenew currently maintains a warehouse in Building G that houses small, often used parts, with an inventory valued at approximately \$290,000 as of June 30, 2021. Larger, critical parts and assets are housed in a variety of other locations around the facility. AlexRenew desires to bring all inventory into one central location, with the appropriate security and climate control needed for often used as well as critical and long lead time asset management.

**Background:** Space in Building F has been identified as a potential area for warehouse consolidation. An engineering/architectural firm will be retained to define the warehousing requirements, review the current structure and code requirements of Bldg. F and ensure the space can be designed to meet them. Operations and Maintenance are the clients and will be consulted regarding regularly used parts and critical and long lead time assets critical to maintaining permit compliance.

**Project Components:** Design and Installation/Construction of the new space; upgrading of existing Bldg F to accommodate people and secure, climate controlled equipment storage and transition of old space; Security Enhancements; Procuring and Stocking Inventory; Training and Business Processes (such as economic reorder points and pick lists); Documenting in Computerized Maintenance Management System (CMMS)

Procurement Method: Various; Engineering and design services may be procured from existing contracts while parts and equipment may be procured as small purchases or under a variety of existing or future competitively bid contracts as appropriate.

Benefits	Strategic Outcome Area
<ul> <li>Ensures AlexRenew has the parts and equipment it needs in a timely manner to maintain the facility's assets appropriately</li> <li>Supports effective operations of future assets by cataloguing and safeguarding spare parts until they are needed</li> <li>Providing space and processes for staging parts and equipment contributes to more effective planning, scheduling, and execution of work</li> <li>A well-organized warehouse can help streamline repetitive jobs</li> </ul>	Effective Financial Stewardship
Key Milestones for FY 23	Impact on Operations or Community
<ul> <li>Establish location; space plan and needed renovations for storage, people and code requirements</li> <li>Prioritize list of inventory enhancements and place orders as appropriate</li> </ul>	• Effective warehousing is central to the maintenance of AlexRenew's assets and supports the core mission of cleaning water to protect public health and the environment

•	Incorporate warehousing plans with implementation of CMMS Enhance security and other physical safeguards as appropriate Enhance process for incorporation of spare parts for capital projects into inventory						
	External or Internal Adopted Plan or Recommendation	Changes from Prior Year CIP					
•	N/A	New project based on emerging needs					

				IRR: WRR	F Fire Ala	arm Upgrad	de (Joint	Use)				
Managing Department and Champion			Project Location			Program and Project Category			Estimated Useful Life			Lifetime Budget
	Safety		WRRF			Improve., Rehab., Replacement  Alexandria Only  Joint Use			15 years			\$1,550,000 Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total Financing	\$0	\$0	\$0	\$50,000	\$300,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,350,000
AlexRenew	\$0	\$0	\$0	\$20,000	\$120,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$540,000
Fairfax	\$0	\$0	\$0	\$30,000	\$180,000	\$600,000	\$0	\$0	\$0	\$0	\$0	\$810,000
Project Comp	onents: TBD	Alarm System w new has an exis										
Benefits						Strategic Outcome Area						
Full redundancy and reliability of the WRRF Fire Alarm System						Adaptive Culture						
Key Milestones for FY 23						Impact on Operations or Community						
Complete upgrade of the WRRF Fire Alarm System						Increase employee safety within the campus buildings and grounds						
External or Internal Adopted Plan or Recommendation						Changes from Prior Year CIP						
Johnson Controls' Memo on existing panels being obsolete.						Project moved to start in FY2024 from FY2026						

		E	nvironmer	ntal Cente	r – Upgra	des and 5	<sup>5th</sup> /6 <sup>th</sup> Flo	or Modifi	cations			
Managing	Department and	Champion	Р	roject Locatio	'n	Program	and Project	Category	Estin	nated Usefu	l Life	Lifetime Budget
S										\$1,450,000 Grant/Debt Funded? Undetermined		
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$1,000,000	\$500,000	\$150,000	\$150,000	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000,000
Financing	<b>#</b> 540,000	<b>*</b> 055.000	¢70 500	¢70 500	<b></b>		<u> </u>		<b>*</b> 0		<b>*</b> 0	¢4,000,000
AlexRenew Fairfax	\$510,000	\$255,000 \$245,000	\$76,500 \$73,500	\$76,500 \$73,500	\$612,000 \$588,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,020,000 \$980,000
					_	tion and Justi	fication		-		-	
	ponents: 5 <sup>th</sup> floo t Method: Undete	•	ngineering, 6 <sup>th</sup>	floor AV evalu	ation, constru	uction, and eq	uipment insta	allation				
		Benefits	S					Strate	gic Outcome	Area		
Optimize	e use of existing	nfrastructure a	and community	benefits	•	Public Eng	agement & T	rust				
	μ	ey Milestones	for FY 23					Impact on O	perations or	Community	,	
	AV design and up stem review and	-			•	Increased	value to com	munity and u	sage of facil	ities.		
	-	maintenance	an or Recomm	endation	•	Increased	value to com		sage of facil			

			En	vironment	al Center	- Outdoo	r Exhibit (	Upgrade				
Managing	Department and	Champion	Р	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
(	Communications	;	Envi	ronmental Ce	nter	□ Alexandr	Process Fac ia Only e (49% to Fai			10 years		\$200,000 Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$50.000	\$150.000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150.000
Financing		,										,
AlexRenew	\$25,500	\$76,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$76,500
Fairfax	\$24,500	\$73,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$73,500
					as its missio	n has expande	ed with River	Renew.				
these static e Project Comp	The Environmen exhibits and exte ponents: Final de Method: Under	tal Center's edu nding them to t sign, permitting	ucational exhit he outdoors p	oits in the lobb rovides more	y have been a educational o	a highly used s	pace at educ	ating visitors	about the in	nportant woi	k AlexRenev	v does. Updating
these static e Project Comp	exhibits and exte conents: Final de	tal Center's edu nding them to t sign, permitting	ucational exhit he outdoors p g, and installat	oits in the lobb rovides more	y have been a educational o	a highly used s	pace at educ	cating visitors y members.	about the in		k AlexRenev	v does. Updating
these static e Project Comp Procurement • Expands	exhibits and exte conents: Final de	tal Center's edu nding them to t sign, permitting development <b>Benefits</b> onal exhibits fo	ucational exhit he outdoors p g, and installat g	oits in the lobb rovides more ion of exhibits	by have been a educational o	a highly used s opportunities f	pace at educ	cating visitors y members. Strate			k AlexRenev	v does. Updating
these static e Project Comp Procurement • Expands	exhibits and exte conents: Final de Method: Under outdoor educati Renew's mission	tal Center's edu nding them to t sign, permitting development <b>Benefits</b> onal exhibits fo	ucational exhit he outdoors p g, and installat g or community r	oits in the lobb rovides more ion of exhibits	ny have been a educational o	a highly used s opportunities f	pace at educ or communit	cating visitors y members. Strate	gic Outcome	e Area	k AlexRenev	v does. Updating
these static e Project Comp Procurement • Expands with Alex	exhibits and exte conents: Final de Method: Under outdoor educati Renew's mission	tal Center's edu nding them to t sign, permitting development <b>Benefits</b> fonal exhibits fon a	ucational exhit he outdoors p g, and installat or community r for FY 23	oits in the lobb rovides more ion of exhibits	ny have been a educational o	a highly used s opportunities f Public Eng	pace at educ or communit agement & T	ating visitors y members. Strate	gic Outcome perations or	e Area Community	k AlexRenev	v does. Updating
these static e Project Comp Procurement • Expands with Alex • Complete	exhibits and exte conents: Final de Method: Under outdoor educati Renew's mission	tal Center's edi nding them to t sign, permitting development <b>Benefits</b> onal exhibits fo n <b>Cey Milestones</b> for educational exh	ucational exhit the outdoors p g, and installat or community r for FY 23	oits in the lobb rovides more ion of exhibits nembers to e	ngage	a highly used s opportunities f Public Eng	pace at educ or communit agement & T	sating visitors y members. Strate rust Impact on O imunity and u	gic Outcome perations or	e Area Community lities.	k AlexRenev	v does. Updating

				Holland	Lane Pav	ement Re	construct	tion				
Managing	Department and	d Champion	Pi	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
	Engineering			Holland Lane		Non-	•	ilities		N/A		\$300,000 Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
Financing					,,							
AlexRenew	\$0	\$0	\$0	\$0	\$120,000	\$0	\$0	\$0	\$0	\$0	\$0	\$120,000
Fairfax	\$0	\$0	\$0	\$0	\$180,000	\$0	\$0	\$0	\$0	\$0	\$0	\$180,000
Background: uses and nee Project Comp	d Lane needs to Holland Lane w ds to be recons onents: Recons Method: Undeto	as installed as tructed. truction is being	part of the EC'	's constructio	n. It currently	does not com			lexandria rc	oadway stan	dards and c	hanges in future
		Benefits	6					Strate	gic Outcome	e Area		
Complian	nce with roadwa	y standards			•	Watershed	Stewardship	р				
	ŀ	Key Milestones	for FY 23					Impact on O	perations or	Community		
• N/A					•	Project is b	eing coordin	nated to take	place follow	ing RiverRer	iew.	
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	s from Prior	Year CIP		
• N/A						None						

				S	outh Car	iyle Partie	ership					
Managing	Department and	Champion	Р	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	I Life	Lifetime Budget
	Engineering		AlexRenev	v Environmen	tal Center	Non-	•	lities		40 years		\$1,500,000 Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$0	\$700,000	\$400,000	\$300,000	\$100,000	\$0	\$0	\$0	\$1,500,000
Financing												
AlexRenew	\$0	\$0	\$0	\$0	\$476,000	\$272,000	\$204,000	\$68,000	\$0	\$0	\$0	\$1,020,000
Fairfax	\$0	\$0	\$0	\$0	\$224,000	\$128,000	\$96,000	\$32,000	\$0	\$0	\$0	\$480,000
connections	-	nd inspection a	and design and	l construction	for any struc	tural modifica	tions affiliate	d with coord	inating Carly	'le Plaza II's	constructio	n as it builds the
connections Background: public park s for developm Project Comp	to the EC. The Environmen	tal Center (EC) ts with the Eise xRenew's use. onnector and o	was designed i enhower East S The design inc ther structural	n coordination mall Area Pla cludes a park	n with the fut n for connect and playgrou	ure developme ing open space	ent planned fo es. The site is	or the site on currently in reen roof abo	the north of use by the R	Limerick St. iverRenew 1 garage.	The plan pr	n as it builds the ovides additional ct but is planned
connections Background: public park s for developm Project Comp Procurement	to the EC. The Environmen pace and suppor ent following Ale <b>conents:</b> Deck Co	tal Center (EC) ts with the Eise xRenew's use. onnector and o ermined Benefit dination and p	was designed i enhower East S The design inc ther structural <b>s</b>	in coordination mall Area Pla cludes a park modifications	n with the fut n for connect and playgrou	ure developme ing open spac nd that connec	ent planned fo es. The site is	or the site on currently in reen roof abo Strate	the north of use by the R but the EC's	Limerick St. iverRenew 1 garage.	The plan pr	ovides additional
connections Background: public park s for developm Project Comp Procurement	to the EC. The Environmen pace and suppor ent following Ale <b>conents:</b> Deck Co <b>Method:</b> Undete ures proper coor enew infrastructi	tal Center (EC) ts with the Eise xRenew's use. onnector and o ermined Benefit dination and p	was designed i enhower East S The design inc ther structural <b>s</b> hysical connec	in coordination mall Area Pla cludes a park modifications	n with the fut n for connect and playgrou	ure developme ing open spac nd that connec	ent planned fo es. The site is cts into the g Stewardship	or the site on currently in reen roof abo Strate	the north of use by the R but the EC's gic Outcome	Limerick St. iverRenew T garage. Area	The plan pr Funnel Proje	ovides additional
connections Background: public park s for developm Project Comp Procurement	to the EC. The Environmen pace and suppor ent following Ale <b>conents:</b> Deck Co <b>Method:</b> Undete ures proper coor enew infrastructi	tal Center (EC) ts with the Eise xRenew's use. onnector and o ermined Benefit dination and p ure.	was designed i enhower East S The design inc ther structural <b>s</b> hysical connec	in coordination mall Area Pla cludes a park modifications	n with the fut n for connect and playgrou	ure developme ing open space nd that connect Watershed	ent planned fo es. The site is cts into the g Stewardship	or the site on currently in reen roof abo Strate	the north of use by the R but the EC's gic Outcome	Limerick St. iverRenew 1 garage. Area Community	The plan pr Funnel Proje	ovides additional ct but is planned
connections Background: public park s for developm Project Comp Procurement • This ens to AlexRe	to the EC. The Environmen pace and suppor ent following Ale <b>conents:</b> Deck Co <b>Method:</b> Undete ures proper coor enew infrastructi	tal Center (EC) ts with the Eise xRenew's use. onnector and o ermined Benefit dination and p ure. Ley Milestones	was designed i enhower East S The design inc ther structural s hysical connec for FY 23	in coordination mall Area Pla cludes a park modifications tions	n with the fut n for connect and playgrou	ure developme ing open space nd that connect Watershed	ent planned fo es. The site is cts into the gr	or the site on currently in reen roof abo Strate Impact on O	the north of use by the R but the EC's gic Outcome	Limerick St. iverRenew T garage. Area Community res and cont	The plan pr Funnel Proje	ovides additional ct but is planned

				WRRF: H	AC Auto	mation Sys	stem Upg	rade				
Managing	Department an	d Champion	Р	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	I Life	Lifetime Budget
	Engineering			WRRF		Non-	Process Faci ia Only	lities		N/A		\$1,000,000 Grant/Debt Funded.
						🛛 Joint Use	;					No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total Financing	\$0	\$50,000	\$0	\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$1,050,000
AlexRenew	\$0	\$20,000	\$0	\$0	\$0	\$200,000	\$200.000	\$0	\$0	\$0	\$0	\$420,000
Fairfax	\$0	\$30,000	\$0	\$0	\$0	\$300,000	\$300,000	\$0	\$0	\$0	\$0	\$630,000
				D	roject Descri	otion and Justi	fication					
				AC system. A	study is nee		e the HVAC s	system elem	ents and re			s. An upgrade is (operation starts
required to co in 2025). Project Comp	onsolidate/upgr	rade and optimiz	ring the HVAC o	AC system. A controls. The t	study is nee	ded to evaluat	e the HVAC s	system elem	ents and re			s. An upgrade is (operation starts
required to co in 2025). Project Comp	onsolidate/upgr oonents: HVAC s	rade and optimiz	r software, fiel	AC system. A controls. The t	study is nee	ded to evaluat	e the HVAC s	system elem e requiremen	ents and re	verRenew H		
required to co in 2025). Project Comp Procurement	onsolidate/upgr oonents: HVAC s : Method: Undet	rade and optimiz	zing the HVAC ( r software, fiel	AC system. A controls. The t	study is nee	ded to evaluat ess needs to ir	e the HVAC s	system elem e requiremen	ents and re nts of the Riv	verRenew H		
required to co in 2025). Project Comp Procurement	onsolidate/upgr oonents: HVAC s Method: Undet indancy and reli	rade and optimiz system computer ermined Benefits	r software, fiel s AC System	AC system. A controls. The t	study is nee upgrade proc	ded to evaluat ess needs to ir	te the HVAC shoorporate th	system elem e requiremen	ents and re nts of the Riv	verRenew H	VAC system	
required to co in 2025). Project Comp Procurement	onsolidate/upgr oonents: HVAC s Method: Undet indancy and reli	rade and optimiz system computer ermined Benefits iability of the HV	r software, fiel s AC System	AC system. A controls. The t	study is nee upgrade proc	ded to evaluat ess needs to ir Operationa	te the HVAC shoorporate th	system elem e requirement Strate	ents and re nts of the Riv gic Outcome perations or	verRenew H	VAC system	
required to co in 2025). Project Comp Procurement • Full redu	onsolidate/upgr oonents: HVAC s Method: Undet Indancy and reli	rade and optimiz system computer ermined Benefits iability of the HV	r software, fiel AC System	AC system. A controls. The t	study is nee upgrade proc	ded to evaluat ess needs to ir Operationa	e the HVAC shoorporate th	system elem e requirement Strate Impact on O	ents and re nts of the Riv gic Outcome perations or	erRenew H	VAC system	

wanaging	; Department and	d Champion	P	roject Locatio	n	Program	and Project	Category	Estim	ated Useful	Life	Lifetime Budget
			AloxPonow	and Multiple L	ocations in		RiverRenew					\$391,600,000
	RiverRenew		Alexnellew	Alexandria		□ Alexandr	•		Tunr	nel - 100 yea	ars	Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Yes 10 Yr. Total
Total	\$93,220,649	\$57,800,000	\$73,700,000	\$90,900,000	\$9,300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$231,700,000
Financing												
AlexRenew	\$81,816,958	\$49,400,000	\$63,500,000	\$76,300,000	\$8,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$197,700,000
airfax	\$11,403,691	\$8,400,000	\$10,200,000	\$14,600,000	\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$34,000,000
				P	roject Descrip	otion and Justi	fication					
system to ca Project Com • Wa	: In June 2018, ti opture and conve <b>ponents:</b> The Riv terfront Tunnel: 2 offs Run Intercep	y combined sev erRenew Tunne 2-mile long, 12'	wage to AlexRe el System inclue -0" diameter se	new for treatn des: egmentally lin	nent. In July 2					e design and	a construc	tion of a tunnel
<ul> <li>For</li> <li>Tur</li> <li>Ale</li> </ul>	ur diversion cham ur shafts ranging unel Dewatering a xRenew. <b>t Method:</b> In Nov procurement proc	nbers to direct of from 35-feet to and Wet Weath ember 2020, A	combined sewe 65-feet in diar er Pumping Sta	er flows to the meter. ation: 20-mgd	tunnel dewat	tering and 130	D-mgd wet we	eather pumpi	_	-	·	
• Fou • Tur Ale <b>Procuremen</b>	ur shafts ranging anel Dewatering a xRenew. <b>t Method:</b> In Nov	nbers to direct of from 35-feet to and Wet Weath ember 2020, A	combined sewe 65-feet in dial er Pumping Sta lexRenew awai	er flows to the meter. ation: 20-mgd	tunnel dewat	tering and 130	D-mgd wet we	eather pumpi	_	ount of \$45	·	structure at n following a 2-ste
Fou Tur Ale Procuremen (RFQ/RFP) p Signific	ur shafts ranging anel Dewatering a xRenew. <b>t Method:</b> In Nov	abers to direct of from 35-feet to and Wet Weath ember 2020, A cess. Benefit CSOs to local wa	combined sewe 65-feet in diar er Pumping Sta lexRenew awar <b>s</b> aterways	er flows to the meter. ation: 20-mgd rded a fixed-pr	tunnel dewat	tering and 130	D-mgd wet we	eather pumpi a Joint Ventur Strate	re in the amo	ount of \$45	·	
Fou Tur Ale Procuremen (RFQ/RFP) p Signific	Ir shafts ranging anel Dewatering a xRenew. <b>t Method:</b> In Nov procurement proc ant reduction of ( toration includes	abers to direct of from 35-feet to and Wet Weath ember 2020, A cess. Benefit CSOs to local wa	combined sewe 65-feet in diar er Pumping Sta lexRenew awar <b>s</b> aterways henities in two l	er flows to the meter. ation: 20-mgd rded a fixed-pr	tunnel dewat	tering and 130	D-mgd wet we	eather pumpi a Joint Ventur Strate	e in the amo	ount of \$45	4.4 millior	
<ul> <li>Fou Tur Ale</li> <li>Procurement (RFQ/RFP) p</li> <li>Signific</li> <li>Site res</li> <li>Major d</li> </ul>	Ir shafts ranging anel Dewatering a xRenew. <b>t Method:</b> In Nov procurement proc ant reduction of ( toration includes	abers to direct of from 35-feet to and Wet Weath ember 2020, A cess. Benefit CSOs to local wa community am Key Milestones	combined sewe 65-feet in diar er Pumping Sta lexRenew awar <b>s</b> aterways henities in two l	er flows to the meter. ation: 20-mgd rded a fixed-pr	tunnel dewat	tering and 130 uild contract to Watershed Coordinatio	D-mgd wet we D Traylor-Shea I Stewardship	eather pumpi a Joint Ventur Strate	e in the amo gic Outcome perations or munity durir	Area Community	4.4 millior	n following a 2-ste
<ul> <li>Fou Tur Ale</li> <li>Procurement (RFQ/RFP) p</li> <li>Signific</li> <li>Site res</li> <li>Major d</li> </ul>	Ir shafts ranging anel Dewatering a xRenew. t <b>Method:</b> In Nov procurement proc ant reduction of ( toration includes esign submittals	abbers to direct of from 35-feet to and Wet Weath ember 2020, A cess. Benefit CSOs to local wa community am (ey Milestones complete	combined sewe 65-feet in diar er Pumping Sta lexRenew awar s aterways henities in two I for FY 23	er flows to the meter. ation: 20-mgd rded a fixed-pr locations	tunnel dewat rice design-bu	tering and 130 uild contract to Watershed Coordinatio	D-mgd wet we D Traylor-Shea I Stewardship	a Joint Ventur Strate Impact on O and the com	e in the amo gic Outcome perations or munity durir	Area Community	4.4 millior	n following a 2-ste

					Colip	nage Study	/					
Managing	Department and	l Champion	Р	roject Locatior	n	Program	and Project	Category	Estir	nated Usefu	I Life	Lifetime Budget
S	Strategy and Policy         Various         Regulatory Compliance         15-20 years         15-20 years           Prior Year         FY 2023         FY 2025         FY 2026         FY 2027         FY 2028         FY 2030         FY 2031         FY 2032								\$100,000 Grant/Debt Funded. No			
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026			FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000
Financing		**							40			
AlexRenew Fairfax	\$0 \$0	\$0 \$0	\$20,000 \$30.000	\$20,000 \$30.000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$40,000
	φυ	ΦŬ	\$30,000	,		ption and Justi		ΦŪ	φυ	φυ	φυ	φ00,000
		0 ,	rivers.									
than E.coli. B 2022. Once t Project Comp		ing disinfectior earch the EPA made final, Vi ational Reading	n markers; stu has published rginia can elec	draft methods t to adopt ther	and may pu m, and will th	blish draft upd nen include the	ates for com e new criteria	ment to the 2 in new VPDE	2012 Recrea S permits.	ational Wate		ewater exposure icators in Spring
than E.coli. B 2022. Once t Project Comp	ased on this res hese criteria are <b>conents:</b> Organiz	ing disinfectior earch the EPA made final, Vi ational Reading	n markers; stu has published rginia can elec ess Assessmer	draft methods t to adopt ther	and may pu m, and will th	blish draft upd nen include the	ates for com e new criteria	ment to the 2 in new VPDE g Analysis, UV	2012 Recrea S permits.	ational Wate		•
than E.coli. B 2022. Once the Project Comp Procurement	ased on this res hese criteria are <b>conents:</b> Organiz	ing disinfectior earch the EPA e made final, Vi ational Reading ermined Benefit ed transition to	n markers; stu has published rginia can elec ess Assessmer <b>s</b>	draft methods t to adopt ther nt: Laboratory	and may pu m, and will th Feasibility Ar	blish draft upd nen include the nalysis, Process	ates for com e new criteria	ment to the 2 in new VPDE g Analysis, UV	2012 Recrea S permits. / Disinfectio	ational Wate		•
than E.coli. B 2022. Once the Project Comp Procurement	ased on this res hese criteria are <b>conents:</b> Organiz <b>Method:</b> Undete v for an organize I by regulatory p	ing disinfectior earch the EPA e made final, Vi ational Reading ermined Benefit ed transition to	n markers; stu has published rginia can elec ess Assessmer <b>s</b> coliphage as d	draft methods t to adopt ther nt: Laboratory	and may pu m, and will th Feasibility Ar	blish draft upd nen include the nalysis, Process	ates for com new criteria s/Engineerin	ment to the 2 in new VPDE g Analysis, UV	2012 Recrea S permits. V Disinfectio gic Outcome	ational Wate In Testing <b>e Area</b>	er Quality Ind	•
than E.coli. B 2022. Once the Project Comp Procurement • Will allow triggered	ased on this res hese criteria are <b>conents:</b> Organiz <b>Method:</b> Undete v for an organize I by regulatory p	ing disinfectior earch the EPA e made final, Vi ational Reading ermined Benefit ed transition to rocesses Gey Milestones	n markers; stu has published rginia can elec ess Assessmer <b>s</b> coliphage as d	draft methods t to adopt ther nt: Laboratory	and may pu m, and will th Feasibility Ar	blish draft upd hen include the halysis, Process Operationa	ates for com new criteria s/Engineerin	ment to the 2 in new VPDE g Analysis, UV Strate	2012 Recrea S permits. / Disinfectio gic Outcome perations or	ational Wate In Testing Area	er Quality Ind	icators in Spring
than E.coli. B 2022. Once the Project Comp Procurement • Will allow triggered	ased on this res hese criteria are <b>conents:</b> Organiz <b>Method:</b> Undete v for an organize I by regulatory p	ing disinfection earch the EPA e made final, Vi ational Readine ermined Benefite ed transition to rocesses Key Milestones ria Update	n markers; stu has published rginia can elec ess Assessmer <b>s</b> coliphage as d for FY 23	draft methods t to adopt ther nt: Laboratory isinfection ind	and may pu m, and will th Feasibility Ar	blish draft upd hen include the halysis, Process Operationa	ates for com new criteria s/Engineerin	ment to the 2 in new VPDE g Analysis, U Strate Impact on O and designat	2012 Recrea S permits. / Disinfectio gic Outcome perations or	ational Wate in Testing <b>e Area</b> Community	er Quality Ind	icators in Spring

				Eme	rging Co	ntaminant	Analysis					
Managing	Department and	d Champion	Pr	oject Location	ı	Program	and Project	Category	Estin	nated Usefu	l Life	Lifetime Budget
	Engineering			Various		Regu	5	iance		10 years	\$300,000 Grant/Debt Funded. Yes	
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$50,000	\$50,000	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
Financing									<u> </u>			
AlexRenew	\$0	\$50,000	\$50,000	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Comp	EPA is currently conents: EPA/St Method: Reque	ate regulations	-					aminants and	l suggest alt	ernatives/st	rategies to e	liminato thom
							ementation, (	)peration, an	d Maintenar	nce		
		Benefits	3				ementation, C		d Maintenar gic Outcome			
Protectio     contamir	on of aquatic life nants		2	ts of emerging	<u>7</u>		ementation, C	Strate				
	nants		alth from effec	ts of emerging	5			Strate	gic Outcome	Area		
contamir     Formulat	nants	and human he Key Milestones t	alth from effec for FY 23			Watershed	Stewardship	Strate	gic Outcome perations or	Area		
<ul> <li>Contamir</li> <li>Formulat accompl</li> </ul>	nants F te a plan that wi	and human he Key Milestones f Il define researd ic goals	alth from effec for FY 23 ch objectives a	nd steps to		Watershed	Stewardship	Strate D Impact on O human healt	gic Outcome perations or	Area Community		

				Total Nit	rogen Lir	nits Comp	liance St	udy				
Managing	Department and	d Champion	Р	roject Locatior	n	Program	and Project	Category	Estir	nated Usefu	I Life	Lifetime Budget
ξ	Strategy and Poli	су		Various		Regu	•	iance		15-20 years	5	\$325,000 Grant/Debt Funded. No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$O	\$75,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325,000
Financing												
AlexRenew	\$0	\$0	\$30,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$130,000
Fairfax	\$0	\$0	\$45,000	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$195,000
				Pr	roject Descrip	otion and Justi	fication					
	e renewed in 20											ew's VPDES next ditional capacity
permit will be cost effective Project Comp	e renewed in 20	26; this program lity, Process/En	m will evaluate	e the impact of	f RiverRenew	on nutrient r	emoval and o					
permit will be cost effective Project Comp	e renewed in 20 ely. <b>conents:</b> Feasibi	26; this program lity, Process/En	m will evaluate	e the impact of	f RiverRenew	on nutrient r	emoval and o	capped limits		lity to treat		
Project Comp Project Comp Procurement • This proj stringen	e renewed in 20 ely. <b>conents:</b> Feasibi	26; this program lity, Process/En ermined Benefits the organization	m will evaluate gineering Anal s	e the impact o	f RiverRenew act Analysis,	v on nutrient r	emoval and o	capped limits	and the ab	lity to treat		
Project Comp Project Comp Procurement • This proj stringen	e renewed in 20 ely. conents: Feasibi t Method: Undet ject will prepare t nitrogen discha effluent quality	26; this program lity, Process/En ermined Benefits the organization	m will evaluate Igineering Anal <b>s</b> n contingent e	e the impact o	f RiverRenew bact Analysis, ng more	v on nutrient r	emoval and d	capped limits	and the ab	Area	the city's ad	
Project Comp Project Comp Procurement • This proj stringen	e renewed in 20 ely. conents: Feasibi t Method: Undet ject will prepare t nitrogen discha effluent quality	26; this program lity, Process/En ermined Benefits the organization arge standards	m will evaluate Igineering Anal <b>s</b> n contingent e	e the impact o	f RiverRenew bact Analysis, ng more	on nutrient r Human Capita Operationa Need for 0	emoval and d	Strate	and the ab gic Outcome perations or eve increase	Area	the city's ad	
permit will be cost effective Project Comp Procurement • This proj stringen • Improve	e renewed in 20 ely. conents: Feasibi t Method: Undet ject will prepare t nitrogen discha effluent quality	26; this program lity, Process/En ermined Benefits the organization arge standards Key Milestones	m will evaluate gineering Anal s n contingent e for FY 23	e the impact of ysis, Rate Imp vent of meetin	f RiverRenew Pact Analysis, Ing more	on nutrient r Human Capita Operationa Need for 0	emoval and o al Analysis al Excellence	Strate	and the ab gic Outcome perations or eve increase	Area	the city's ad	

				Clir	nate Res	silience Ini	tiatives					
Managing	Department and	d Champion	P	roject Locatio	ı	Program	and Project	Category	Estin	nated Usefu	ul Life	Lifetime Budget
S	trategy and Poli	су		WRRF		Sustain	•	silience		20 years		\$2,380,000 Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$133,000	\$243,000	\$489,000	\$150,000	\$445,000	\$325,000	\$95,000	\$500,000	\$0	\$0	\$2,380,000
Financing												
AlexRenew	\$0	\$53,200	\$97,200	\$195,600	\$60,000	\$178,000	\$130,000	\$38,000	\$200,000	\$0	\$0	\$952,000
Fairfax	\$0	\$79,800	\$145,800	\$293,400	\$90,000	\$267,000	\$195,000	\$57,000	\$300,000	\$0	\$0	\$1,428,000
				Pr	oject Descri	ption and Just	fication					
Make pr	astructure, and ogress towards as resilience, rel	Benefit: renewable ene	<b>s</b> ergy use and G	HG reduction	goals		ate, compreh I Stewardshi	Strate	well-docume			
	ĸ	key Milestones	for FY 23					Impact on C	perations or	Communit	у	
<ul> <li>Weather</li> <li>Replace</li> <li>install at</li> </ul>	amming HVAC C r stripping on ex one gas-powere n electric vehicle ing all-hazards v	terior doors an ed AlexRenew v e charging stat	d windows vehicle with an ion onsite	electric mode	el and	stewardsh Demonstra	AlexRenew's ip ates leadersh ccountability	nip among w	ater utilities		ment to en	vironmental
	External or Inter	rnal Adopted P	lan or Recomm	nendation				Change	s from Prior	Year CIP		
<ul><li>DOE Bet</li><li>DOE Bet</li></ul>	lexandria Enviro ter Plants Challe ter Buildings Ch ew Building Ene	enge Iallenge				<ul> <li>New proje</li> </ul>	ct					

		Stormwa	ater Syste	m - Struct	ural and I	Nonstructu	Iral Best	Managen	nent Pra	ctices		
Managing	g Department and	d Champion	F	Project Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
\$	Engineering Strategy and Poli	су			Sustair □ Alexandr ⊠ Joint Use	,	silience		40 years		\$850,000 Grant/Debt Funded? Undetermined	
Expenditure								FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$50,000	\$400,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$850,000
Financing												
AlexRenew	\$0	\$0	\$0	\$20,000	\$160,000	\$160,000	\$0	\$0	\$0	\$0	\$0	\$370,000
Fairfax	\$0	\$0	\$0	\$30,000	\$240,000	\$240,000	\$0	\$0	\$0	\$0	\$0	\$480,000
(VDOT) Muni will continue study 2016	: The AlexRenew icipal Separate S to invest in sour and the cost of c iponents: Studies	itorm Sewer Sys nd stormwater n onstruction and a, design and co	stem (MS4), a nanagement o d maintenance onstruction of s	nd to the City on its sites. Th e of stormwate	of Alexandria is project invo r BMPs.	MS4. Given the olves an update	ne expectation exp	ons of more f design to ac	requent and commodate	l severe pre infrastructu	cipitation ev	ents, AlexRenew
		Benefit	S					Strate	gic Outcome	e Area		
	tive treatment fac				•	Watershed	Stewardship	)				
	ŀ	Key Milestones	for FY 23					Impact on O	perations or	Community		
• N/A					•			&M costs to a pollutant load				
	External or Inte	rnal Adopted Pl	an or Recomn	nendation				Changes	s from Prior	Year CIP		
Stormwa												

			C	entrate Pr	etreatmen	t Facility	Improve	ments				
Managing [	Department and	d Champion	I	Project Locatio	n	Program	n and Projec	t Category	Estin	nated Usefu	I Life	Lifetime Budget
						WR	RF Improver	nents				\$21,400,000
Operati	ons and Mainte	enance		WRRF		□ Alexan	,			N/A		Grant/Debt Funded?
						🛛 🛛 Joint U	se					No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$258,000	\$500,000	\$5,000,000	\$7,000,000	\$6,000,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$19,700,000
Financing												
AlexRenew	\$103,200	\$200,000	\$2,000,000	\$2,800,000	\$2,400,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$7,880,000
Fairfax	\$154,800	\$300,000	\$3,000,000	\$4,200,000	\$3,600,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$11,820,000
			-	Pr	oject Descriptio	on and Justif	fication	-		-		

**Need:** To restart Centrate Pretreatment Process

**Background:** The centrate pre-treatment facility uses the DEMON<sup>TM</sup> process to reduce the nitrogen content of the dewatering centrate prior to return to the BRBs. The facility was placed into operation in 2015 and operates well. Improvements are needed for efficiency include replacing the existing cyclone feed pumps and implementing some modifications to the centrate transfer piping.

## Project Components: Undetermined

**Procurement Method:** The project is proposed to be procured through a Design-Bid-Build method with AlexRenew using on-call contractors. Some of the work will be done by the blower vendor (Neuros) on their equipment.

Benefits	Strategic Outcome Area
<ul> <li>Increase reliability of the system.</li> <li>Reduce downtime and maintenance needed on the pumps and process upsets caused by poor quality centrate.</li> </ul>	Operational Excellence
Key Milestones for FY 23	Impact on Operations or Community
<ul> <li>Have all CPT vendors come on-site to complete assessment of equipment associated with CPT</li> <li>Procure all existing equipment that is missing, damaged, needs to be replaced to get CPT running</li> <li>Look into engineering and design concerns with CPT</li> <li>Replace equipment</li> </ul>	<ul> <li>Improving capture of dirty centrate away from the CPT system would reduce the amount of manual cleaning that has to be performed on the strainers and the pumps by plant personnel.</li> <li>Automating the blower operation would reduce/eliminate the need for manual cycling/exercising of the blowers and improve air flow control and process performance.</li> <li>Operations and maintenance personnel should be engaged in identifying possible solutions and selecting alternatives to be implemented.</li> </ul>
External or Internal Adopted Plan or Recommendation	Changes from Prior Year CIP

•	Centrate Pre-Treatment Recycle Pumps Performance Deterioration TM (CH2M, May 2016)		New arciant to materia ODT
•	Summary of Centrate Pre-Treatment Blower Failure Investigation,	•	New project to restart CPT
•	Evaluation and Recommendations TM (CH2M, February 2017)		

			В	uilding 22	2: Primary	Weir Obs	ervation	louse				
Managing	Department and	d Champion	Р	roject Location	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
	Engineering			Building 22		WRI	•	ents		20 years		\$4,620,000 Grant/Debt Funded? No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$660,000	\$990,000	\$1,980,000	\$990,000	\$0	\$0	\$0	\$0	\$0	\$0	\$4,620,000
Financing												
AlexRenew	\$0	\$264,000	\$396,000	\$792,000	\$396,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,848,000
Fairfax	\$0	\$396,000	\$594,000	\$1,188,000	\$594,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,772,000
within the Pri	oilitation of the P imary Settling Ta					St Sananie CO	mpononto uu					
rehabilitating and need rep <b>Project Comp</b> new exterior	The Primary W g various building blacement. ponents: New ro walkway for acc t Method: Scope	g components a pof panels, san ess to scum co	and a new extend adblasting and llectors, and ne ent strategy wil	rior walkway. repainting of o ew scum colled	The rotating deteriorated s ctor equipme	scum collecto steel supports nt.	nponents du rs have opera s, replacemen	e to the con ational challe nt of various f the PPSU pr	rosive natur enges and w lighting com	e of the sp ere also stur ponents, el	ace. The pro died during t	pject consists he PPSU Proje
<ul> <li>rehabilitating and need rep</li> <li>Project Comp</li> <li>new exterior</li> <li>Procurement</li> <li>Maintair</li> </ul>	g various building blacement. ponents: New ro walkway for acc	g components a oof panels, san ess to scum co and procureme Benefit of the Primary W	and a new extend adblasting and llectors, and ne ent strategy wil <b>s</b>	rior walkway. repainting of d ew scum colled Il be confirmed	The rotating deteriorated s ctor equipme	scum collecto steel supports nt. Program Defini	nponents du rs have opera s, replacemen	e to the con ational challe nt of various f the PPSU pr	rosive natur enges and w lighting com oject	e of the sp ere also stur ponents, el	ace. The pro died during t	pject consists he PPSU Proje
rehabilitating and need rep Project Comp new exterior Procurement • Maintair	g various building placement. ponents: New ro walkway for acc t Method: Scope hs functionality c es lifetime of exis	g components a oof panels, san ess to scum co and procureme Benefit of the Primary W	and a new extend oblasting and llectors, and ne ent strategy wil <b>s</b> Veir Observatio	rior walkway. repainting of d ew scum colled Il be confirmed	The rotating deteriorated s ctor equipme	scum collecto steel supports nt. Program Defini	nponents du rs have opera s, replacement ition Phase o	e to the con ational challe nt of various f the PPSU pr	rosive natur enges and we lighting com oject gic Outcome	e of the sp ere also stur ponents, el Area	ace. The pro	pject consists he PPSU Proje
rehabilitating and need rep Project Comp new exterior Procurement • Maintair • Increase	g various building placement. ponents: New ro walkway for acc t Method: Scope hs functionality c es lifetime of exis	g components a cof panels, san ess to scum co and procureme <b>Benefit</b> of the Primary W sting asset	and a new extend oblasting and llectors, and ne ent strategy wil <b>s</b> Veir Observatio	rior walkway. repainting of d ew scum colled Il be confirmed	The rotating deteriorated s ctor equipme	scum collecto steel supports nt. Program Defini Operationa	nponents du rs have opera s, replacement ition Phase o	e to the con ational challe nt of various f the PPSU pr Strate	rosive natur enges and we lighting com oject gic Outcome perations or	e of the sp ere also stur ponents, el Area	ace. The pro	pject consists he PPSU Proje
rehabilitating and need rep Project Comp new exterior Procurement • Maintair • Increase	g various building placement. ponents: New ro walkway for acc t Method: Scope ns functionality c es lifetime of exis	g components a bof panels, san ess to scum co and procureme <b>Benefit</b> of the Primary W sting asset <b>Key Milestones</b>	and a new extend dblasting and llectors, and ne ent strategy wil s Veir Observatio for FY 23	rior walkway. repainting of d ew scum colled Il be confirmed n House.	The rotating deteriorated s ctor equipme	scum collecto steel supports nt. Program Defini Operationa	nponents du rs have opera s, replacemen ition Phase or al Excellence	e to the corr ational challe nt of various f the PPSU pr <b>Strate</b> Impact on O	rosive natur enges and we lighting com oject gic Outcome perations or	e of the sp ere also stur ponents, el Area Community	ace. The pro	oject consists he PPSU Proj€

				Buildin	g G/4: To	ertiary Filto	er Repair	rs				
Managing	Department and	d Champion	P	roject Locatior	ı	Program	and Project	t Category	Estir	nated Usefu	II Life	Lifetime Budget
						WRI	RF Improven	nents				\$10,304,875
	Engineering			Building G/4		□ Alexand	•			20 years		Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	Joint Us	e FY 2028	FY 2029	FY 2030 FY 2031 FY 2032	No 10 Yr. Total		
Total	\$0	\$2.520.000	\$2,713,375	\$2.541.500	\$330,000	\$2,200,000	\$0	\$0	\$0	\$0	\$0	\$10,304,875
Financing							• •					
AlexRenew	\$0	\$1,008,000	\$1,085,350	\$1,016,600	\$132,000	\$880,000	\$0	\$0	\$0	\$0	\$0	\$4,121,950
Fairfax	\$0	\$1,512,000	\$1,628,025	\$1,524,900	\$198,000	\$1,320,000	\$0	\$0	\$0	\$0	\$0	\$6,182,925
				Pro	oject Descrip	tion and Justif	fication					
to maintain p	oonents: Desigr Mant operations Method: Undet		on for removing	g and replacing	g filter media	, repairing cor	icrete surfac				r piping in o	ne filter at a time
		Benefits	6					Strate	gic Outcome	e Area		
Improves	s/maintains filte	er performance.			•	Operationa	I Excellence					
	I	Key Milestones	for FY 23					Impact on O	perations or	Community	,	
-	nedia replacemo tructural repair			•		Improves/r	naintains filt	ter performan	се			
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	from Prior	Year CIP		
2019-3, • Conditio AlexRend	iew of Processe Task 4) n Assessment a ew Effluent Filte 3-01, Task 3)	nd Proposed Re	epair Plan Tech	nical Memorar	ndum: •	Scope/time	eline has mo	oved up to beg	gin in FY 202	23		

			Building	F: Plant Ef	fluent W	ater (W3)	System Ir	nprovem	ents			
Managing	Department and	d Champion	Pi	oject Location	1	Program	and Project	Category	Estin	nated Usefu	Il Life	Lifetime Budget
	Engineering			Building F		□ Alexandr	5	Program		TBD		\$3,716,700 Grant/Debt Funded?
						⊠ Joint Use						No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$1,027,425	\$906,255	\$1,710,391	\$0	\$31,907	\$0	\$0	\$0	\$0	\$40,722	\$3,716,700
Financing AlexRenew	\$0	\$410,970	\$362,502	\$684,156	\$0	\$12,763	\$0	\$0	\$0	\$0	\$16,289	\$1,486,680
Fairfax	\$0	\$616,455	\$543,753	\$1,026,235	\$0	\$19,144	\$0	\$0	\$0	\$0	\$24,433	\$2,230,020
						tion and Justi						
Project Comp isolation valv	udies, and syste conents: Pressu res, future condi Method: Undete	ire monitoring e tion assessmen	quipment, boo	ster pump enh	nancements,		-			w meters, to	esting of me	tors and numps
		Benefits	6					Strate	gic Outcome	e Area	-	
Increase	d reliability and	Benefits		system	•	Operationa	I Excellence	Strate	gic Outcome	Area	_	
Increase	· ·	Benefits	exRenew's W3	system	•	Operationa	I Excellence	Strate			1	
<ul> <li>Install pr building</li> <li>Conduct</li> <li>Automat</li> </ul>	· ·	Benefits efficiency of Ale Key Milestones ng equipment c esting for W3 Pu aders	exRenew's W3 for FY 23 on W3 line ente		•		I Excellence	Impact on O	perations or		1	
<ul> <li>Install pr building</li> <li>Conduct</li> <li>Automat</li> </ul>	ressure monitori and in W3 loop Performance Te e BRB spray hea	Benefits efficiency of Ale Key Milestones f ng equipment c esting for W3 Pu aders neters	exRenew's W3 for FY 23 on W3 line ente imps	ring methanol				Impact on O and operation	perations or	Community	1	

				Buildir	ng L: Cen	trifuge Rep	olacemer	it				
Managing	Department and	I Champion	Р	roject Location	ı	Program	and Project	Category	Estin	nated Usefu	l Life	Lifetime Budget
	Engineering			Building L		WRF	•	ents		N/A		\$13,635,000 Grant/Debt Funded? No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$1,461,000	\$1,461,000	\$4,591,000	\$4,591,000	\$1,531,000	\$0	\$0	\$0	\$13,635,000
Financing		1-										
AlexRenew Fairfax	\$0 \$0	\$0 \$0	\$0 \$0	\$584,400 \$876,600	\$584,400 \$876,600	\$1,836,400 \$2,754,600	\$1,836,400 \$2,754,600	\$612,400 \$918,600	\$0 \$0	\$0 \$0	\$0 \$0	\$5,454,000 \$8,181,000
- Girida	40	ΨŬ	Ψ0			otion and Justi		\$910,000	Ψ0	ΨΟ	Ψ0	\$0,101,000
sludge. Both next few year Project Comp	systems are par	t of the WRRF's iges and associ	solids handlin	ng process and			-		•	• ·		dewater digested Iseful lives in the
		Benefits	6					Strate	gic Outcome	e Area		
		<i>c</i>										
Maintain	is solids process	performance.			•	Operationa	I Excellence					
Maintair	•	s performance. Key Milestones 1	for FY 23		•	Operationa		Impact on Op	perations or	Community		
Maintain     None	•		for FY 23		•			Impact on Op		Community		
	•	Key Milestones 1		endation	•			s performanc				

			Ca	ampus-Wi	de Electr	ical Upgrad	de Sub-Pi	rogram				
Managing [	Department and	l Champion	P	roject Locatio	n	Program	and Project	Category	Estin	nated Usefu	l Life	Lifetime Budget
	Engineering			WRRF		WRF	5	ents		10 years		\$14,992,000 Grant/Debt Funded? No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$0	\$781,000	\$3,334,000	\$3,278,000	\$4,301,000	\$2,652,000	\$646,000	\$0	\$14,992,000
Financing												
AlexRenew	\$0	\$0	\$0	\$0	\$312,400	\$1,333,600	\$1,333,600	\$1,720,400	\$1,060,800	\$258,400	\$0	\$5,996,800
Fairfax	\$0	\$0	\$0	\$0	\$468,600	\$2,000,400	\$2,000,400	\$2,580,600	\$1,591,200	\$387,600	\$0	\$8,995,200
Project Compo	This project invo onents: Switchg Method: Undete	gear replaceme			-	•	e process of	evaluating e	nergy use or	i campus.		
		Benefit	6					Strate	gic Outcome	e Area		
To ensure	e aging infrastru	icture does not	compromise e	lectrical relial	bility	Effective F	inancial Stew	/ardship				
	k	ey Milestones	for FY 23					Impact on O	perations or	Community		
• None						<ul> <li>This project</li> </ul>	t will reduce	future maint	enance cost	s and renew	existing as	sets
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	s from Prior	rear CIP		
None						<ul> <li>Project has</li> </ul>	s been delaye	ed until after	tunnel const	ruction is co	omplete	

					HMI	Upgrade						
Managing	Department and	d Champion	Pr	oject Location		Program	and Project	Category	Estir	nated Usefu	Il Life	Lifetime Budget
	Engineering IT			Various		Improve.,	•	blacement		5 years		\$4,216,273 Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$1,336,425	\$1,600,000	\$1,200,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,050,000
Financing	\$1,000, <del>1</del> 20	<i>\\\\\\\\\\\\\</i>	¥1,200,000	¥200,000	ΨŬ		Ψ <b>U</b>	Ψ0				\$3,030,000
AlexRenew	\$540,000	\$640,000	\$480,000	\$100,000	\$	\$0	\$0	\$0	\$0	\$0	\$0	\$1,220,000
Fairfax	\$810,000	\$960,000	\$720,000	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,830,000
				Pro	ject Descrip	otion and Justi	fication					
	oonents: Replace Method: Existin	g Contract										
<ul><li>Reduce</li><li>Eliminat</li><li>Develop</li></ul>	the number of H the number of g e stability issues scalable control fault tolerance	host alarms inherent to Wi	orovide concise		rmation •	Operationa	I Excellence	Strate	gic Outcome	Area		
	ł	Key Milestones	for FY 23					Impact on O	perations or	Community	,	
	ne HMI associate rade/Replaceme		s that were up	graded as part	of the	<ul> <li>Increa</li> </ul>	sed operatio sed system r ed ghost ala	•	through im	proved user	experience	
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	s from Prior	rear CIP		
0010.00	ADA Master Pla						edule extend					

				Main Ca	ampus Ga	alleries Im	proveme	nts				
Managing	Department and	l Champion	P	roject Locatio	n	Program	and Project	Category	Estin	nated Usefu	I Life	Lifetime Budget
						WRF	RF Improvem	ents				\$1,300,000
	Engineering			WRRF		Alexandr	,			10 years		Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	Joint Use	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	No 10 Yr. Total
Total	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$300,000	\$0	\$0	\$0	\$1,300,000
Financing												
AlexRenew	\$0	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$120,000	\$0	\$0	\$0	\$520,000
Fairfax	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$180,000	\$0	\$0	\$0	\$780,000
	oonents: Undete	rmined									hin the syste	em.
Procurement	Method: Undete										hin the syste	əm.
Procurement	Method: Undete		3						gic Outcome		hin the syste	em.
	Method: Undete	ermined Benefits		tain existing a	assets •	o Operationa	I Excellence				hin the syste	em.
	ect will help bett	ermined Benefits	ntify and main	tain existing a	assets •	Operationa	I Excellence		gic Outcome	Area		em.
	ect will help bett	ermined Benefits er identify, qua	ntify and main	tain existing a	assets •			Strate	gic Outcome perations or	Area Community	,	
This proj     None	ect will help bett	ermined Benefits er identify, qua <b>(ey Milestones</b> 1	ntify and main for FY 23					Strate Impact on O future mainte	gic Outcome perations or	Area Community s and renew	,	

				Odo	or Contro	System L	lpgrade					
Managing	Department and	l Champion	Р	roject Locatior	n	Program	and Project	Category	Estir	nated Usefu	II Life	Lifetime Budget
	Engineering			WRRF		WRRF Ir		Program		TBD		\$2,500,000 Grant/Debt Funded? Undetermined
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$500,000	\$0	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$2,500,000
Financing AlexRenew	\$0	\$0	\$0	\$200,000	\$0	\$0	\$400,000	\$400,000	\$0	\$0	\$0	\$1,000,000
Fairfax	\$0	\$0	\$0	\$300,000	\$0	\$0	\$600,000	\$600,000	\$0	\$0	\$0	\$1,500,000
	I			Pr	roject Descrij	tion and Justi	fication		·	·		
Project Comp	lant. Includes sto oonents:	udy in FY25 and	d any resulting	work in FY28-					rovements t	o ensure Ale	exRenew is	minimizing odors
Project Comp • Anal • Upd • Re-b	lant. Includes st	udy in FY25 and m (confirm air I nodeling stem	d any resulting	work in FY28-					rovements t	o ensure Ale	exRenew is	minimizing odors
Project Comp • Anal • Upd • Re-b	lant. Includes str ponents: lyze entire system ate dispersion m palance entre sys	udy in FY25 and m (confirm air I nodeling stem	d any resulting loads/ventilatio	work in FY28-				enew.	rovements t gic Outcome		exRenew is	minimizing odors
Project Comp Anai Upd Re-b Procurement	lant. Includes str ponents: lyze entire system ate dispersion m palance entre sys	udy in FY25 and m (confirm air I nodeling stem ermined Benefit	d any resulting loads/ventilatio	work in FY28-		orporate needs		enew.			exRenew is	minimizing odors
Project Comp Anai Upd Re-b Procurement	lant. Includes str ponents: lyze entire system ate dispersion moalance entre system Method: Undeter es the likelihood	udy in FY25 and m (confirm air I nodeling stem ermined Benefit	d any resulting loads/ventilatio <b>s</b> lor complaints.	work in FY28-		orporate needs	s from RiverR	enew.	gic Outcome	> Area		minimizing odors
Project Comp • Anai • Upd • Re-b Procurement	lant. Includes str ponents: lyze entire system ate dispersion moalance entre system Method: Undeter es the likelihood	udy in FY25 and m (confirm air I nodeling stem ermined Benefit of receiving od	d any resulting loads/ventilatio <b>s</b> lor complaints.	work in FY28-		Public Eng This projec	s from RiverR agement & T st will ensure	enew. Strate rust Impact on Op	gic Outcome perations or emains a go	• Area • Community od neighbor	7	minimizing odors
Project Comp Anal Upd Re-t Procurement	lant. Includes str ponents: lyze entire system ate dispersion moalance entre system Method: Undeter es the likelihood	udy in FY25 and m (confirm air I nodeling stem ermined Benefit of receiving od	d any resulting loads/ventilation s lor complaints. for FY 23	work in FY28-		Public Eng This projec	s from RiverR agement & T st will ensure	enew. Strate rust Impact on Op AlexRenew re ing odors nea	gic Outcome perations or emains a go	• Area • Community od neighbor /	7	

				Puri	fied Wate	r System	Upgrade					
Managing	Department and	l Champion	Pi	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
						WRRF S	ystem Improv	vements	1			\$2,109,474
S	Strategy and Poli	су		Building F		☐ Alexandr				TBD		Grant/Debt Funded?
<b>5</b>	Delan Maan	5(0000	D/ 000 4	<b>B</b> (0005	<b>P</b> (0000	Joint Use		5(0000	<b>D</b> ( 0000	D(0004	<b>D</b> ( 0000	No No
Expenditure Total	Prior Year \$0	FY 2023 \$0	FY 2024 \$158.760	FY 2025 \$951.568	FY 2026 \$999.146	<b>FY 2027</b> \$0	FY 2028 \$0	FY 2029 \$0	FY 2030 \$0	FY 2031 \$0	FY 2032 \$0	10 Yr. Total \$2,109.474
Financing		\$U	\$136,700	\$951,508	\$999,140	\$0	\$0	ΦΟ	\$0	\$0	\$0	\$2,109,474
AlexRenew	\$0	\$0	\$158,760	\$951,568	\$999,146	\$0	\$0	\$0	\$0	\$0	\$0	\$2,109,474
Fairfax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Need: AlexRe	enew's purified w	vator svstom is	:									
this system v Project Comp	AlexRenew's ex with use projection conents: Project t Method: Undete	isting purified work through 203 components inc	vater system is 31 is in progres	designed to t								The evaluation of
this system v Project Comp	vith use projectio conents: Project	isting purified work through 203 components inc	vater system is 31 is in progres clude new pum	designed to t				s, instrument		elated impro		The evaluation of
this system v Project Comp Procurement	vith use projectio conents: Project	isting purified works through 203 components intermined Benefits	vater system is 31 is in progres clude new pum s	designed to t ss. nps, motors, d		ed UV and boo		s, instrument	ation, and re	elated impro		The evaluation of
this system v Project Comp Procurement	with use projection conents: Project t Method: Undeter es purified water	isting purified works through 203 components intermined Benefits	vater system is 31 is in progres clude new purr <b>s</b> ty to meet dem	designed to t ss. nps, motors, d	rives, upgrad	ed UV and boo	oster systems	s, instrument	ation, and re gic Outcome	elated impro	vements.	The evaluation of
this system v Project Comp Procurement	with use projection conents: Project t Method: Undeter es purified water	isting purified works through 203 components intermined Benefits system capacit	vater system is 31 is in progres clude new purr <b>s</b> ty to meet dem	designed to t ss. nps, motors, d	rives, upgrad	ed UV and boo Operationa An increase	oster systems	s, instrument Strate Impact on O water supply	ation, and re gic Outcome perations or will allow ad	Area	vements.	
this system v Project Comp Procurement • Increase	with use projection conents: Project t Method: Undeter es purified water	isting purified woons through 203 components intermined Benefits system capacit	vater system is 31 is in progres clude new purr s ty to meet dem for FY 23	designed to t ss. nps, motors, d ands	rives, upgrad	ed UV and boo Operationa An increase	al Excellence	s, instrument Strate Impact on O water supply and enable	ation, and re gic Outcome perations or will allow ad	Area Community ditional use	vements.	

				Po	wer Distri	ibution M	onitors					
Managing	Department and	d Champion	Р	roject Locatio	n	Program	and Project	Category	Estin	nated Usefu	II Life	Lifetime Budget
						WRI	RF Improvem	nents				\$500,000
	Engineering			WRRF		□ Alexand ☑ Joint Us				10 years		Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Undetermined 10 Yr. Total
Total	\$0	\$50,000	\$100,000	\$250,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
Financing												· ·
AlexRenew	\$0	\$20,000	\$40,000	\$100,000	\$40,000	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000
Fairfax	\$0	\$30,000	\$60,000	\$150,000	\$60,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
				Pi	oject Descrip	otion and Just	ification					
		ed approach: n			ors needed. w modules, i	nstalling netw	-				-	
	ith energy usag Method: Undet	e data.				nstalling netw	-				-	
	ith energy usag	e data.	rogramming a			nstalling netw	-	icture, updat		e documen	-	in FY 2025 and
Procurement     Enhance     operation	ith energy usag	e data. ermined Benefit that data inter	rogramming a <b>s</b> pretation can I	nd testing ne	w modules, in		-	icture, updat	ing referenc	e documen	-	
Procurement     Enhance     operation	ith energy usag Method: Undet the system so nal changes. understanding	e data. ermined Benefit that data inter	rogramming a <b>s</b> pretation can b pnsumption	nd testing ne	w modules, in		vork infrastru	icture, updat	ing referenc	e documen <sup>.</sup> e Area	ts, and upda	
<ul> <li>Procurement</li> <li>Enhance operation</li> <li>Enhance</li> <li>Develop for susta</li> <li>Conduct</li> </ul>	ith energy usag Method: Undet the system so nal changes. understanding	e data. Benefit that data inter of resource cc (ey Milestones ed power moni &M. ot conditioning.	rogramming a s pretation can b onsumption for FY 23 itor updates ba . Initial concep	nd testing ne	w modules, in ike • needs •	Operation A series of	vork infrastru al Excellence	Strate	ing reference gic Outcome perations or y to transitio	e document e Area	ts, and upda	ating the SCAD/
<ul> <li>Procurement</li> <li>Enhance operation</li> <li>Enhance</li> <li>Develop for susta</li> <li>Conduct upgrade</li> </ul>	ith energy usag Method: Undet the system so nal changes. understanding a plan for phas inability and O& proof of conce	e data. ermined Benefit that data inter of resource co (ey Milestones ed power moni &M. ot conditioning er monitors for	rogramming a s pretation can b onsumption for FY 23 itor updates ba . Initial concep high-energy co	nd testing ne	w modules, in ike • needs •	Operation A series of	vork infrastru al Excellence	Instant of the second s	ing reference gic Outcome perations or y to transitio	e document e Area Community on every dev rms of powe	ts, and upda	ating the SCAD,

				Prelimir	nary/Prim	ary Syste	n Upgrad	les				
Managing	Department and	d Champion	Р	roject Locatio	า	Program	and Project	Category	Estin	nated Usefu	Il Life	Lifetime Budget
	Engineering			Building A Building K		WRI	•	ents		20 years		\$51,869,270 Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030 FY 2031 FY 2032			No 10 Yr. Total
Total	\$8,249,270	\$9,110,000	Ft 2024         Ft 2025         Ft 2026           \$9,350,000         \$18,690,000         \$9,350,000			\$0	\$0	\$0	\$0	\$0	\$0	\$46,520,000
Financing	+0,2:0,2:0	,0,110,000	+0,000,000	+ 10,000,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+-	+-	+-	+-	+	+-	+ .0,020,000
AlexRenew	\$3,299,708	\$3,644,000	\$3,740,000	\$7,476,000	\$3,740,000	\$0	\$0	\$0	\$0	\$0	\$0	\$18,608,000
Fairfax	\$4,949,562	\$5,466,000	\$5,610,000	\$11,214,000	\$5,610,000	\$0	\$0	\$0	\$0	\$0	\$0	\$27,912,000
				D	olect Descrir	tion and Justi	fication					
and replacen	nduits, improver nent of the prima : <b>Method:</b> Undet	ary sludge pum	0 0		ipment, impro	ovements to gi	it and screer	ning loading s	system, impro	ovements to	scum conc	entration system
		Benefit	s					Strate	gic Outcome	e Area		
operatio	e the system so t nal changes. e understanding			e used to mak	•	Operationa	I Excellence					
	ŀ	Key Milestones	for FY 23			Impact on Operations or Community						
Complet	e final design				•	Maintains	operational e	efficiencies/ir	mproves ope	erator safety		
	External or Inte	rnal Adopted Pl	lan or Recomm	endation		Maintains operational efficiencies/improves operator safety.						
		-		ionaution				Changes	s from Prior `	rear CIP		

				Primar	y Settling	Tank Reh	abilitatio	'n							
Managing	Department and	d Champion	Pr	oject Location	n	Program	and Project	Category	Estin	nated Usefu	l Life	Lifetime Budget			
	Engineering		Primary Set	ttling Tanks 1	through 8	WRF	•	ents		20 years		\$5,000,000 Grant/Debt Funded? No			
Expenditure	Prior Year	FY 2023	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total					
Total	\$0	\$5,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000,000					
Financing	to	** ***				40				10	10	** ***			
AlexRenew Fairfax	\$0 \$0	\$2,000,000 \$3.000.000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$2,000,000			
rdilldX	\$0	<b>Φ</b> 3,000,000	ΨŪ			tion and Justi	÷	ΦU	ΦŪ	ΦU	ΦU	\$3,000,000			
Background Project Com		is heavily used	and is at its us ongitudinal & d	seful life. It is cross collector	also a critica r mechanisms	Il component t s, new drive ur	o successful nits, new spro	ocket motion	monitoring	system, new	control stat	ions for PST 5-8, and associated			
•	ification, training t <b>Method:</b> Equip		cured by AlexR	enew directly	from supplie	r. Installation v	work will be s	eparately pro	ocured by Ale	exRenew via	ovicting on				
		Benefits	3							ipplier. Installation work will be separately procured by AlexRenew via existing on-					
	d reliability of th					Strategic Outcome Area     Operational Excellence						-call contract.			
	d treatment per		ng tank infrastr	ucture	•	Operationa	I Excellence	Strate	gic Outcome	Area		-call contract.			
	d treatment per		-	ucture	•	Operationa	I Excellence	Strate; Impact on O	-			-call contract.			
Improve	d treatment per	formance Key Milestones	for FY 23	ucture	•	Decreases Reduces ris	future O&M sk	Impact on O	perations or			-call contract.			
Improve	d treatment per	formance <b>(ey Milestones</b> delivery, and ins	for FY 23 tallation.		•	Decreases Reduces ris	future O&M sk	Impact on O costs ailability to pr	perations or	Community		-call contract.			

				Seconda								
Managing	Department and	d Champion	Р	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
Opera	tions and Maint	enance	Secondary S	Settling Tanks	1 through 6	WRF □ Alexandri ⊠ Joint Use	5	ents		20 years		\$7,725,000 Grant/Debt Funded. No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0					\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$7,725,000
Financing												
AlexRenew	\$0	\$3,000,000	\$10,000	\$10,000	\$10,000 \$15.000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$3,090,000
Fairfax						\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$4,635,000
Need: Funds	are needed to r	eplace Chain a	ind Flight Equip	ment in Secor	ndary Settling	Tanks						
Background: equipment is wastewater t Project Comp	There are six (	6) secondary s proper process ss. lary Settling Ta	settling tanks c ing of sedimer	onsisting of fo nt/scum from	our (4) cells e bottom of the	ach. The exis	-		•			
Background: equipment is wastewater t Project Comp	There are six ( critical in the reatment proces	6) secondary s proper process ss. lary Settling Ta	settling tanks c ing of sedimer nks, Chain and	onsisting of fo nt/scum from	our (4) cells e bottom of the	ach. The exis	-	and is a key	•	he operatio		useful life. This ce of the overall
Background: equipment is wastewater t Project Comp Procurement • Improve	There are six ( critical in the reatment proces	6) secondary s proper process ss. lary Settling Ta ermined Benefit prmance of the	ettling tanks c ing of sedimer nks, Chain and ts e secondary set	onsisting of fo t/scum from Flight Equipm tling tanks	our (4) cells e bottom of the	each. The exister secondary se	-	and is a key	factor for t	he operatio		
Background: equipment is wastewater t Project Comp Procurement • Improve	There are six ( critical in the preatment procest conents: Second Method: Undet the overall performer y and efficiency	6) secondary s proper process ss. lary Settling Ta ermined Benefit prmance of the	eettling tanks c ing of sedimer nks, Chain and ts e secondary set ary infrastructu	onsisting of fo t/scum from Flight Equipm tling tanks	our (4) cells e bottom of the	each. The exister secondary se	ettling tanks	and is a key	factor for t	he operation	nal excellen	
Background: equipment is wastewater t Project Comp Procurement • Improve • Reliabilit	There are six ( critical in the preatment procest conents: Second Method: Undet the overall performer y and efficiency	6) secondary s proper process ss. lary Settling Ta ermined Benefit ormance of the of the seconda Key Milestones	ettling tanks c ing of sedimer nks, Chain and ts e secondary set ary infrastructu for FY 23 Polychem Chair	onsisting of fo t/scum from Flight Equipm tling tanks re	our (4) cells e bottom of the nent	each. The exister secondary s	ettling tanks	and is a key Strate Impact on O	gic Outcome perations or	he operation Area Community	nal excellen	
Background: equipment is wastewater t Project Comp Procurement • Improve • Reliabilit	There are six ( critical in the preatment process conents: Second Method: Undet the overall perfor y and efficiency	6) secondary s proper process ss. lary Settling Ta ermined Benefit ormance of the of the seconda (ey Milestones of the existing F secondary sett	ettling tanks c ing of sedimer nks, Chain and ts e secondary set ary infrastructu for FY 23 Polychem Chain ling tanks	onsisting of fo t/scum from Flight Equipm tling tanks re and Flight Eq	uipment	each. The exister secondary s	ettling tanks I Excellence e overall perf	and is a key Strate Impact on O formance of for vement of Op	gic Outcome perations or	he operation Area Community Int process Int process Int process	nal excellen	

				Security	y Services	s During C	onstructi	on				
Managing	Department and	l Champion	P	roject Locatio	n	Program	and Project	Category	Estin	nated Usefu	I Life	Lifetime Budget
	Safety			WRRF		WRI	•	ents		5 years		\$2,000,000 Grant/Debt Funded. Yes
Expenditure	Prior Year	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total			
Total	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,600,000
Financing												
AlexRenew	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$640,000
Fairfax							\$0	\$0	\$0	\$0	\$0	\$960,000
				Pi	roject Descrip	tion and Justi	ification					
<ul> <li>Need: Funds are needed to maintain stringent security measures during the ongoing RiverRenew Tunnel Project.</li> <li>Background: Stringent security measures are required during the ongoing RiverRenew Tunnel project to provide a safe, secure and reliable work environment for AlexRenew employees and all the contractors.</li> <li>Project Components: Infrastructure improvements and security measures to enhance security at the WRRF and AlexRenew construction sites.</li> </ul>												
		ructure improve	ements and sec		-						environmer	nt for AlexRenew
	oonents: Infrastr	ructure improve			-			AlexRenew		sites.	environme	nt for AlexRenew
Procurement     Mainten     Project	oonents: Infrastr	ructure improve ion to Bid <b>Benefit</b> nd security duri	<b>s</b> ing the ongoing	curity measure	es to enhance	e security at th		AlexRenew of Strate	construction	sites.	environmer	nt for AlexRenew
Procurement     Mainten     Project	oonents: Infrastr Method: Invitati ance of safety and nd reliable work	ructure improve ion to Bid <b>Benefit</b> nd security duri	<b>s</b> ing the ongoing or all employee:	curity measure	es to enhance	e security at th	ne WRRF and	AlexRenew of Strate	construction gic Outcome	sites. Area		nt for AlexRenew
<ul> <li>Maintena Project</li> <li>A safe and</li> </ul>	oonents: Infrastr Method: Invitati ance of safety and nd reliable work h efficient securit	ructure improve ion to Bid Benefit nd security duri environment fo Key Milestones	s ing the ongoing or all employee: for FY 23	g RiverRenew	Tunnel	e security at th Public Eng	ne WRRF and	AlexRenew of Strate	construction gic Outcome perations or	sites. Area Community	,	
<ul> <li>Maintena Project</li> <li>A safe and</li> <li>Maintain</li> </ul>	oonents: Infrastr Method: Invitati ance of safety and nd reliable work h efficient securit	ructure improve ion to Bid Benefit nd security duri environment fo Key Milestones ty services duri	<b>s</b> ing the ongoing or all employees <b>for FY 23</b> ng the start of t	g RiverRenew s	Tunnel	e security at th Public Eng	ne WRRF and	AlexRenew of Strate rust Impact on O	construction gic Outcome perations or	sites. Area Community	,	

				Solids M	anageme	ent: Solids	Master F	Plan				
Managing	Department and	d Champion	Р	roject Location	n	Program	and Project	Category	Estir	nated Usefu	ıl Life	Lifetime Budget
						WR	RF Improvem	ents				\$1,000,000
	Engineering			Building L Building 55		□ Alexand	5			N/A		Grant/Debt Funded?
						🛛 🖾 Joint Us	e					No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$750,000	\$700,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950,000
Financing												
AlexRenew	\$300,000	\$280,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$380,000
Fairfax							\$0	\$0	\$0	\$0	\$0	\$570,000

Need: To create a master plan for solids handling at AlexRenew's WRRF.

**Background:** Components of the WRRF biosolids process have been evaluated in the recent past. This program provides a holistic study of the system. Solids management, to include solids handling, disposal and volume reduction options, will be explored in the context of sustainability and regulatory drivers, available technologies, and best practices. The following CIP/IRR projects may be affected by the results of the plan:

- Solids Management: Building 55: Additional Cooling for Digesters
- Solids Management: Building 55: Replace Valves on W3 Cooling System
- Solids Management: Solids/Resource Recovery
- Odor Control System Upgrade
- Pre-Pasteurization System Improvements

## Project Components: Undetermined

## Procurement Method: Request for Proposal

Benefits	Strategic Outcome Area
Creates a written plan outlining the measures needed to ensure the longevity and performance of the WRRF biosolids system.	Effective Financial Stewardship
Key Milestones for FY 23	Impact on Operations or Community
Solids Master Plan kick off	Ensure reliability and longevity of the WRRF biosolids system.
External or Internal Adopted Plan or Recommendation	Changes from Prior Year CIP
Solids Handling and Energy Optimization Update to the Long Range Plan	Costs extended to FY24

(CH2M, January 2017)

- AlexRenew BOA 14-017-2 Task Order WA2-2015-4, Pre-pasteurization System Evaluation, Heat Exchangers Recommendations – Draft, January 2016
- AlexRenew BOA 14-017-2 Task Order WA2-2015-4, Pre-pasteurization Tank Exhaust System Replacement, Preliminary Design, December 2015
- Risk Review of Processes and Assets, Risk Review Assessment (BOA WA2 2019-3, Task 4)

		So	olids Mana	igement: I	Building {	55 - Additi	onal Cool	ing for Di	gesters			
Managing	Department and	d Champion	Pi	roject Locatior	1	Program	and Project	Category	Estir	nated Usefu	I Life	Lifetime Budget
	Engineering			Building 55		WRI	,	ents		TBD		\$3,494,500 Grant/Debt Funded? No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$3,276,100	\$218,400 0 0			0	0	0	0	0	0	\$3,494,500
Financing AlexRenew	\$0	\$1,310,440	\$87,360	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,397,800
Fairfax	\$0	\$1,965,660	\$131,040	\$0	<u>\$0</u> \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,096,700
				Pr	oiect Descrin	tion and Justi	fication					
Procurement     Improves	Method: Undet	Benefits	3		r.	Operationa	I Excellence	Strate	gic Outcome	e Area		
	ŀ	Key Milestones	for FY 23					Impact on O	perations or	Community	,	
Install a	new chiller syste	em, pumps, and	a heat exchar	ige	•	Improved s	olids operati	ons during si	ummer mon	ths.		
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	s from Prior	Year CIP		
(CH2M, .	lanuary 2017) iew of Processe	rgy Optimizatior s and Assets, R				Budget inc	reased based	d on inflation	and scope			

		Solid	s Manager	ment: Buil	ding 55 ·	- Replace \	/alves on	W3 Cool	ing Syste	em		
Managing	Department and	d Champion	P	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
						WRI	RF Improvem	ents				\$21,500
	Engineering			Building 55		□ Alexandr ☑ Joint Use	2			10 years	-	Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	No 10 Yr. Total
Total	\$0	\$21,500	F1 2024         F1 2025         F1 2026           \$0         \$0         \$0			\$0	\$0	\$0	\$0	\$0	\$0	\$21,500
Financing			\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0									
AlexRenew	\$0	\$8,600			1.1	\$0	\$0	\$0	\$0	\$0	\$0	\$8,600
Fairfax	\$0	\$12,900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,900
Project Comp	Pre-pasteurizati ponents: Pressu Method: Undete	re regulating va	-	been able to co	ool sludge to	the desired te	mperature ir	n summer.				
		Benefits	6					Strate	gic Outcome	e Area		
Improves	s pre-pasteuriza	tion system per	formance.			Operationa	al Excellence					
	ł	(ey Milestones	for FY 23					Impact on O	perations or	Community		
	the pressure reg their performa		on the pre-pas	teurization sys	stem	Increased	operational e	efficiency.				
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	s from Prior	Year CIP		
<ul> <li>Risk Rev 2019-3,</li> </ul>	iew of Processe Task 4	s and Assets, R	isk Review Ass	essment (BOA	WA2-	Adopted fr	om FY 22. Bu	udget adjuste	d with inflat	ion.		

			Solids Ma	nagement	t: Building	g 55 - Solio	ds Screer	n Replace	ement			
Managing	Department and	d Champion	Pi	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
	Engineering			Building 55		WRF □ Alexandr ⊠ Joint Use	•	ients		10 years		\$882,000 Grant/Debt Funded?
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$533,400	\$348,600 \$0 \$0			\$0	\$0	\$0	\$0	\$0	\$0	\$882,000
Financing	<b>*</b> 0	¢042.200	\$139,440 \$0 \$0			<b>*</b> 0	<b>*</b> 0	<b>*</b> 0	<b>*</b> 0	<b>*</b> 0		#250.000
AlexRenew Fairfax	\$0 \$0	\$213,360 \$320,040	\$139,440 \$0 \$0 \$209,160 \$0 \$0			\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$352,800 \$529,200
	40	ψ020,0 <del>4</del> 0	Ψ203,100		+-	tion and Justi		φυ	φυ	<del>\</del>	ΨΟ	ψ <b>υ</b> 2ϑ,200
Procurement	Method: Undet	ermined Benefit	e					Strate	gic Outcom	Area		
		Denena	5					Suale				
Improves	s solids system	performance.			•	Operationa	I Excellence					
	ł	Key Milestones	for FY 23					Impact on O	perations or	<sup>r</sup> Community	,	
Replace	ment of the curr	ent solid screer	n		•	Increased	operational e	efficiency.				
	External or Inte	rnal Adopted Pl	lan or Recomm	endation				Changes	from Prior	Year CIP		
(CH2M, .	andling and Ene lanuary 2017) iew of Processe Task 4)					Changes from Prior Year CIP     Budget adjusted with inflation and scope						

			Solids N	lanageme	ent: Solids	s/Resourc	e Recove	ery Upgrad	des			
Managing	Department and	d Champion	P	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	I Life	Lifetime Budget
	Engineering			Building L Building A Building C		WRRF Im	•	Program	20 Ye	ars for Equi	pment	\$20,824,000 Grant/Debt Funded? No
Expenditure	Prior Year	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10 Yr. Total
Total	\$0	\$0	\$0	\$3,039,000	\$5,628,000	\$5,628,000	\$5,628,000	\$901,000	\$0	\$0	\$0	\$20,824,000
Financing		<b>*</b> 2		\$1,215,600	\$2,251,200	\$2,251,200	\$2,251,200	\$360,400	<b>*</b> 0		<b>A</b> 0	
AlexRenew Fairfax	\$0 \$0	\$0 \$0	\$0 \$0	\$1,215,600	\$2,251,200	\$2,251,200	\$2,251,200	\$360,400	\$0 \$0	\$0 \$0	\$0 \$0	\$8,329,600 \$12,494,400
1 011103	φ <b>υ</b>	φU	φ <b>υ</b>			tion and Justi		<i>\$</i> 5 <del>1</del> 0,000		- ΦΟ	φυ	\$12,494,400
Background: in the LRP Up Gra Dige Con Co-I Project Comp		pdate to the Lor valuation n I Power (CHP) St valuation developed as pa	ng-Range Plan tudy	(LRP) was per	formed for the	WRRF solids			ollowing stu	dies and eva	luations we	re recommended
		Benefits	3					Strate	gic Outcome	e Area		
	measures need es within the WF			d performance	e of Sub-	Effective F	inancial Stew	ardship				
	ŀ	Key Milestones	for FY 23					Impact on O	perations or	Community	,	
• N/A					•	Improved s	olids system	performance	9			
	External or Inte	rnal Adopted Pl	an or Recomm	endation				Changes	from Prior	Year CIP		

			Solids Ma	nagement								
Managing	Department and	d Champion	Р	roject Locatio	n	Program	and Project	Category	Estir	nated Usefu	l Life	Lifetime Budget
	Engineering			Building 55		WRRF Im	,	Program		N/A		\$18,000 Grant/Debt Funded?
Expenditure	Prior Year	Prior Year         FY 2023         FY 2024         FY 2025         FY 202           \$0         \$18,000         \$0         \$0         \$0         \$0				FY 2027	FY 2028	FY 2029	FY 2030 FY 2031 FY 2032			10 Yr. Total
Total	\$0	\$18,000				\$0	\$0	\$0	\$0	\$0	\$0	\$18,000
Financing		¢7.000	\$0 \$0 \$0 			<b>*</b> 0	<b>*</b> 0	<b>*</b> 0	<b>*</b> 0	<b>*</b> 0	<b>*</b> 0	¢7.000
AlexRenew Fairfax	\$0 \$0	\$7,200 \$10,800	\$0 \$0 \$0 \$0 \$0 \$0			\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$7,200 \$10,800
	֥	+10,000				ption and Justi		֥	<b>+</b> •	֥	+•	+10,000
operate without Background:	out redundancy Pre-pasteurizat	in this condition ion provides th	n. ne pathogen re	eduction requi	ired to produ	uce Class A so	olids by heat	ing and hold	ing the slue			ne system would re (158°F).Pre-
operate witho Background: pasteurizatio Project Comp	out redundancy	in this condition ion provides th rrently limited b ermined	n. ne pathogen re	eduction requi	ired to produ	uce Class A so	olids by heat	ing and hold	ing the slue			-
operate witho Background: pasteurizatio Project Comp	out redundancy Pre-pasteurizat n capacity is cur onents: Undete	in this condition ion provides th rrently limited b ermined	n. he pathogen re by the number of	eduction requi	ired to produ	uce Class A so	olids by heat	ing and hold neously in au	ing the slue	dge to a set		-
operate with Background: pasteurizatio Project Comp Procurement	out redundancy Pre-pasteurizat n capacity is cur onents: Undete	in this condition ion provides the rently limited be ermined ermined Benefit	n. ne pathogen re by the number of <b>s</b>	eduction requi	ired to produ	uce Class A so at can be opera	olids by heat	ing and hold neously in au	ing the sluc	dge to a set		-
operate with Background: pasteurizatio Project Comp Procurement	vut redundancy Pre-pasteurizat n capacity is cur onents: Undete Method: Undete	in this condition ion provides the rently limited be ermined ermined Benefit	n. he pathogen re by the number of <b>s</b> formance.	eduction requi	ired to produnger units that	uce Class A so at can be opera	blids by heat ated simultar	ing and hold neously in au	ing the sluc co-mode. gic Outcome	dge to a set	t temperatu	-
operate with Background: pasteurizatio Project Comp Procurement	vut redundancy Pre-pasteurizat n capacity is cur onents: Undete Method: Undete	in this condition ion provides the rently limited be ermined ermined Benefit tion system per	n. he pathogen re by the number of <b>s</b> formance.	eduction requi	ired to produnger units that	uce Class A so at can be opera Operationa	blids by heat ated simultar	ing and hold leously in au Strate Impact on O	ing the sluc co-mode. gic Outcome	dge to a set	t temperatu	-
operate witho Background: pasteurizatio Project Comp Procurement • Improves	vut redundancy Pre-pasteurizat n capacity is cur onents: Undete Method: Undete	in this condition ion provides the rently limited be ermined ermined Benefit tion system per Key Milestones	n. he pathogen re by the number of s formance. for FY 23	eduction requi	ired to produnger units that	uce Class A so at can be opera Operationa	al Excellence	ing and hold neously in aut Strate Impact on O	ing the sluc co-mode. gic Outcome	dge to a set	t temperatu	-



The schedule below demonstrates AlexRenew's financial profile according to the current, proposed and estimated budget projections, as measured by its two major financial metrics – cash reserves and debt service coverage.

As it relates to liquidity, AlexRenew's Indenture requires it to maintain at least 60 days cash on hand in the Operating Fund and an additional 60 days cash on hand in the General Reserve sub-fund, for a total cash reserve requirement of at least 120 days of operating expenses. As it relates to debt service coverage, AlexRenew's Indenture requires that net revenues cover annual debt service payments by 1.1x while the Financial Policies require a more stringent 1.5x. In both cases, the proposed budget forecasts compliance with these policies and indicate a healthy financial profile.

Indenture and Financial Policy Compliance	Adopted FY2022	Proposed FY2023	Estimated FY2024	Estimated FY2025	Estimated FY2026	Estimated FY2027
Cash Reserve Requirement						
Operating Fund						
60 Days Current Year Budgeted Expenses	4,666,355	5,004,327	5,154,457	5,309,090	5,415,272	5,523,577
Projected Ending Balance	4,666,355	5,004,327	5,154,457	5,309,090	5,415,272	5,523,577
Excess (Deficiency)	-	-	-	-	-	-
General Reserve sub-Fund						
60 Days Current Year Budgeted Expenses	4,666,355	5,004,327	5,154,457	5,309,090	5,415,272	5,523,577
Projected Ending Balance	4,666,355	5,004,327	5,154,457	5,309,090	5,415,272	5,523,577
Excess (Deficiency)	-	-	-	-	-	-
Total Cash Reserve Requirement - 120 Days	9,332,710	10,008,655	10,308,914	10,618,182	10,830,545	11,047,154
Debt Service Coverage (DSC) Requirement						
Wastewater Treatment Charges	\$ 47,814,540	\$ 50,922,485	\$ 53,621,377	\$ 56,302,446	\$ 59,004,963	\$ 60,067,052
Fairfax County Operating Expense Charge	10,785,305	11,694,706	12,045,729	12,407,287	12,655,433	12,910,752
Interest Income	115,000	115,000	115,000	115,000	115,000	115,000
Gross Revenue Available for Debt Service:	\$ 58,714,845	\$ 62,732,191	\$ 65,782,106	\$ 68,824,733	\$ 71,775,396	\$ 73,092,805
Operating Expenses	\$ (28,386,991)	\$ (30,442,988)	\$ (31,356,278)	\$ (32,296,966)	\$ (32,942,905)	\$ (33,601,763
Net Revenues Available for Debt Service	\$ 29,827,854	\$ 31,789,203	\$ 33,925,828	\$ 36,027,767	\$ 38,332,490	\$ 38,991,041
Total Annual Debt Service	\$ 13,919,620	\$ 14,739,509	\$ 16,448,494	\$ 19,126,687	\$ 21,347,774	\$ 21,495,144
All-in Debt Service Coverage	<u>2.15x</u>	<u>2.16x</u>	<u>2.07x</u>	<u>1.89x</u>	<u>1.80x</u>	<u>1.82</u> )
Financial Policy Target	1.50x	1.50x	1.50x	1.50x	1.50x	1.50x
Indenture Target	1.10x	1.10x	1.10x	1.10x	1.10x	1.10x

Appendix A – Financial Policies

### Alexandria Sanitation Authority Financial Policies Adopted August 17, 2010 Affirmed January 27, 2022

The Alexandria Sanitation Authority (ASA or Authority) is a special purpose governmental unit created by the City Council of Alexandria, Virginia (City Council) in 1952 for the purpose of constructing, operating and maintaining a wastewater treatment system (System) for the City of Alexandria, Virginia (City). ASA is governed and administered by a Board of Directors (Board) with five members who serve staggered terms and are appointed by the City Council. The General Manager oversees ASA's operations and plans for the construction, maintenance, repair and financing of the System. ASA operates as an enterprise fund, has no taxing power and receives no financial assistance from the City.

ASA recognizes that one of the keys to sound financial management is the development of a formal financial policy. This view is confirmed by bond rating agencies, investors and the Government Finance Officers Association. Establishing formal financial policies is also a common practice among comparable water and wastewater authorities throughout the Commonwealth and the United States.

The financial policy is designed to help protect ASA's financial resources by:

- 1. Promoting sound financial management;
- 2. Guiding ASA and its managers in policy and debt issuance decisions;
- 3. Establishing appropriate levels of operating cash reserves;
- 4. Developing a system to efficiently finance necessary capital improvements;
- 5. Ensuring the legal and prudent use of ASA's debt issuance authority;
- 6. Providing a framework for ASA to achieve a strong credit rating, and

7. Maintaining reasonable and well justified levels of rates and fees in accordance with the financial policy.

In general, these financial policies are more restrictive and require higher standards than the legal requirements contained in the Master Indenture of Trust (Bond Indenture), which is the agreement between ASA and debt holders. These financial policies will be reviewed periodically and updated as appropriate.

The following are the financial policies that will guide ASA's financial management, capital planning and debt financing.

### 1. Debt Service Coverage

a. For FY2011 through and including FY2013, ASA will adopt budgets that it projects will enable ASA to maintain annual debt service coverage (Coverage) of 1.40 times Net Revenues, as defined in the Bond Indenture, on all senior and parity debt. Beginning in FY2014 and thereafter, ASA will maintain Coverage of at least 1.50 times on all senior and parity debt.

### 2. Reserves

a. An important metric of ASA's financial flexibility is its liquidity as measured by available cash and reserves. These reserve policies identify amounts available for known risks and obligations and set minimum funding goals that may be used in emergency or other unexpected situations as they arise. The reserves represent an earmarking for budgetary and financial policy purposes. These reserves are in addition to existing legal reserves required by the Master Indenture of Trust (Bond Indenture) and any funds earmarked for capital improvements.

- b. ASA will maintain a balance equal to at least 120 days of the current years budgeted amount for operating and maintenance expenses. As required by the Bond Indenture, one sixth of the current year's budgeted amount for operating expenses (60 days) will be held in the Operating Fund. The remainder of the reserves will be held in the General Reserve Fund, a subfund of the General Fund. In the event the General Reserve Fund is used to provide funding for unanticipated expenses or otherwise drops below the policy level, the General Manager will submit a plan in writing to the Board that will restore the General Reserve Fund to the policy level over a period not to exceed four years.
- c. All other funds will be funded as required by the Bond Indenture, with a summary as follows:

i. Senior Debt Service Fund: An amount that will cause the balance on deposit to be sufficient to pay the principal and interest on the respective payment dates.

ii. Improvement, Renewal and Replacement Fund (IRR): An amount equal to the Alexandria portion (40%) of the annual calculation of the required contribution to the IRR Fund.

iii. General Fund: Any remaining amounts after the required deposits.

iv. Debt Service Reserve Fund: For senior debt, an amount equal to the Debt Service Reserve Fund Requirement as defined in the Bond Indenture. There is no Debt Service Reserve Fund Requirement for ASA's parity debt.

d. When necessary and prudent, ASA may create additional accounts within the General Fund for specific purposes. These accounts could include accounts for capital projects, risk management and revenue stabilization, among others.

### **3. Budgetary Principles**

a. Annual Operating Budget Proposals

i. Per Section 9.3 of the Bond Indenture, ASA is required to adopt a budget for the System for the ensuing fiscal year before the beginning of each fiscal year. The annual budget is required to be prepared in such a manner as to show in reasonable detail the estimated revenues, operating expenses, IRR amounts, debt service amounts, other costs and expenses and the amount of Net Revenues available to meet the Revenue Covenant per the Bond Indenture.

ii. In conjunction with the budget requirements in the Bond Indenture, the Board will strive to adopt an operating budget that:

1. Is structurally balanced whereby current budgetary revenues are sufficient to meet current budgetary expenses (those that are ongoing in nature);

2. Has fees and user charges at levels intended to support the direct and indirect cost of the activity;

3. Sets fees and user charges with the intent to provide the lowest reasonable fees and user charges over time, not necessarily the lowest fees and user charges right now.

4. Is at a level necessary to ensure the adequate maintenance and operations of the wastewater system;

5. Includes amounts necessary to maintain the required reserve balances as defined in these policies;

6. Enables ASA to meet the debt service coverage policy defined herein; and

7. Funds at least 15 percent of its capital improvement program in cash.

iii. Capital Improvement Program (CIP)

1. Each year ASA will adopt a ten-year CIP that identifies projects to be undertaken over next ten years to meet projected needs for infrastructure renewal, expansion, and replacing old or new facilities.

2. The term of any debt financing will not exceed the aggregate useful lives of the related projects.

3. The CIP will identify anticipated capital improvement costs and associated operating costs.

b. Long-Range Financial Forecast

i. Beginning with the planning for the FY2012 budget and in each fiscal year thereafter, the General Manager will submit to the Board at least a three year financial forecast of anticipated revenues and expenses.

### 4. Debt Management

- a. ASA may issue long-term debt per the guidelines in this financial policy. Longterm borrowing will not be used to finance current operations. Long-term debt will be structured such that the term of financial obligations will not exceed the aggregate expected useful lives of the assets financed.
- b. Short-term borrowing may be utilized for the temporary funding of operational cash flow deficits or interim construction requirements.
- c. Permitted Debt by Type: ASA may issue the debt instruments described below. The most appropriate instrument for a proposed sale of debt shall Be determined by financing needs and expected market conditions at the time of sale.

i. Lease Financing – ASA may use lease financing for equipment if (i) it can be demonstrated that this is the most cost effective or appropriate way to secure financing, or (ii) on projects that do not warrant entry into the bond market.

ii. Bond Anticipation Notes (BANs) - which include Commercial Paper, are typically an interim means of financing and, by their very nature, expose ASA to interest rate risk upon renewal. BANS may be used to (i) to finance projects until such time as the project or projects can be incorporated into a long-term bond sale, (ii) during times of high interest rates and when the expectation is that interest rates will stabilize in the future or trending downward, (iii) when market conditions are such that a BAN may be more readily received in the market than long-term debt, or (iv) on an interim basis during the construction period for a project until such time as the project is placed into service.

iii. Long-Term Revenue Bonds - ASA may issue long-term revenue bonds to fund capital projects. These bonds may be issued by ASA in a number of ways, including, but not limited to, those listed below. ASA will evaluate multiple methods for issuing long-term revenue bonds and use the method that is most advantageous to ASA.

1. ASA may issue the bonds through a public sale under its own name in the capital markets.

2. ASA may issue the bonds through a private placement under its own name.

3. ASA may issue the bonds to the Virginia Resources Authority (VRA) under one of VRA's loan programs.

iv. Revenue Anticipation Notes (RANs) - may be issued to meet ASA's operational cash flow needs.

v. Lines of Credit - may be considered as an alternative to other short-term borrowing options.

d. Guidelines on Debt Issuance

i. Bond Indenture – ASA will abide by the covenants contained in the Bond Indenture. ASA considers these covenants to be minimum requirements, and generally expects to exceed the requirements of each covenant.

ii. Authorization – Prior to the issuance of debt, the Board will pass a resolution authorizing the financing arrangements and setting appropriate limits and parameters for the anticipated financing in accordance with applicable laws.

iii. Lowest Cost Financing – ASA intends to pursue the lowest cost of financing within the parameters of these financial policies, the Bond Indenture and ASA's enabling legislation.

iv. Method of Issuance – Prior to each debt issuance, ASA will evaluate the available methods of issuance and pursue the method of issuance that is most advantageous to ASA, whether a stand-alone issue by ASA or use of a third party financing approach such as Revolving Fund Loans or pooled borrowing programs available through the Virginia Resources Authority (VRA). Some considerations for evaluating

the method of issuance, particularly when determining whether to issue debt through VRA or under ASA's name, include:

1. Financing Cost. This analysis should evaluate the overall cost of the financing, including borrowing rates, upfront fees (such as the cost of obtaining a credit rating), whether a Debt

Service Reserve Fund is required, ongoing costs and any other costs of the financing.

2. Permitted Uses of Funds. Some project costs are not eligible to be funded through certain financing programs. For example, land purchase costs are not eligible to be funded through the Department of Environmental Quality's

Revolving Loan Fund program that ASA has used in the past.

3. Structural Flexibility. When selecting a financing program,

ASA will consider the flexibility of debt features available under each program. For example, ASA will consider how flexible repayment features, call provisions, and borrowing terms are under each program.

v. Project Costs Prior to Debt Issue – If project costs are incurred prior to the issuance of debt, the Board will pass a resolution documenting its intent to be reimbursed from bond proceeds as appropriate.

vi. Variable Rate Debt (VRD) – VRD carries inherent interest rate risk.

Such securities historically have interest rates lower than long-term fixed rate securities and offer the potential for lower debt service costs over the term of the bond issue. ASA will consider using VRD when it: (i) Improves matching of assets and liabilities, (ii) potentially lowers debt service costs, (iii) adds flexibility to ASA's capital structure, or (iv) diversifies ASA's investor base.

1. Debt service on VRD will be budgeted at a conservative rate based on historical fluctuations in interest activity and current market assumptions. Before issuing VRD, ASA will determine how potential spikes in the debt service will be funded and consider the impact of various interest rate scenarios on its financial position and on various debt ratios.

2. ASA will not issue VRD in excess of 20 percent of its total debt portfolio. This limitation does not apply to other VRD which ASA has endeavored to offset with an operating investment portfolio intended to act as an economic hedge to interest rate fluctuations associated with the VRD. This limitation also excludes any VRD that may be hedged through an appropriate derivative agreement, if such technique is approved by the ASA Board.

### e. Method of Sale

i. ASA will select a method of sale (competitive, negotiated, or private placement) it believes is the most appropriate in light of financial, market, transaction-specific and ASA-related conditions.

### f. Term of Debt

i. ASA will not issue debt with a term or final maturity longer than the aggregate useful lives of the projects being financed. ASA does not expect to issue debt with a final maturity more than 40 years from the date of issuance. Factors to be considered when determining the final maturity of debt include: the average life of the assets being financed, relative level of interest rates, and the year-to-year differential in interest rates.

### g. Debt Structure

i. Interest Rate Structure – ASA may use both variable and fixed rate debt in accordance with limitations set forth in this policy.

ii. Maturity Structure – ASA's long-term debt may include serial and term bonds. Other maturity structures may also be considered when demonstrated to be advantageous to ASA.

iii. Coupon Structure – Fixed rate debt may include par, discount, premium and capital appreciation bonds.

iv. Redemption Features – In order to preserve flexibility and refinancing opportunities, ASA debt shall generally be issued with call provisions. ASA may consider call provisions that are shorter than traditional and/or non-callable debt when warranted by market conditions and opportunities. For each transaction, various call option scenarios will be evaluated so that the most beneficial can be utilized.

v. Credit Enhancement – ASA may use bond insurance and/or line and letters of credit for credit enhancement when it is economically advantageous to do so.

vi. Debt Service Reserve Fund – ASA will fund a Debt Service Reserve Fund (DSRF) if required by the Bond Indenture.

vii. Capitalized Interest – By definition, capitalization of interest increases the amount of debt that is issued. ASA will capitalize interest for a period not longer than 12 months after the project being financed is expected to be placed in service.

viii. Refinancing of Debt – ASA will refinance debt from time to time to achieve debt service savings as market opportunities arise. Since federal regulations limit a tax-exempt issue to one advance refunding

(a refinancing more than 90 days prior to a bond's call date), ASA will ensure that the advance refunding results in a significant present value savings. A proposed refinancing must achieve a minimum cumulative, net present value savings of 3 percent of the amount refinanced. An exception to this minimum refinancing savings policy will be if the refinancing is being done for debt restructuring purposes and the Board determines that it is in the best interests of ASA to complete the refinancing without achieving the refinancing savings policy. In addition, ASA will consider the efficiency of a proposed refinancing transaction. The efficiency evaluation will consider the value realized by ASA when exercising its option to redeem its bonds early calculated under a variety of different interest rate environments, versus the savings garnered. In general, ASA will consider refinancing bonds when the aggregate efficiency is equal to or greater than 70 percent.

ix. In any refinancing transaction, ASA maintains a bias to not extend maturities.

h. Escrow Structuring

i. ASA will utilize the least costly securities available in structuring refinancing escrows. Unless state and local government securities (SLGS) are used, a certificate will be provided by a third party agent stating that the securities were procured through an arms-length, competitive bid process (in the case of open market securities), and that the price paid for the securities was reasonable within federal guidelines.

ii. Under no circumstances will an underwriter, agent or financial advisor or ASA affiliates or affiliated accounts of an underwriter or financial advisor to ASA sell escrow securities to ASA from its own account.

i. Hiring of Professionals – All members of the financial advisory team including underwriter, financial advisor, bond counsel, and other professionals will be selected in a manner consistent with ASA's procurement policy for professional services.

i. Underwriter Selection

1. Senior Manager Selection – ASA will select a senior manager for any proposed negotiated sale. The selection criteria will include but not be limited to the following:

a. The firm's ability and experience in managing transactions similar to that contemplated by ASA.

b. Prior knowledge and experience with ASA.

c. The firm's ability and willingness to risk capital and demonstration of the firm's capital availability and underwriting of unsold balances.

d. Quality and experience of personnel assigned to ASA's engagement.

e. Financing plan presented.

f. Cost including underwriting fees and anticipated pricing.

2. Co-Manager Selection – Co-manager may be selected on the same bases as the senior manager with the exception of underwriting fees, which are determined by the senior manager. In addition to their qualifications, co-managers appointed to specific transactions will be a function of transaction size and the necessity to ensure maximum distribution of ASA's bonds.

3. Underwriter's Counsel – In any negotiated sale of ASA debt in which legal counsel is required to represent the underwriter, the appointment will be made by the Senior

Manager with final approval from ASA.

4. Underwriter's Discount – ASA will evaluate the proposed underwriter's discount against comparable issues in the market. If there are multiple underwriters in the transaction,

ASA will determine the allocation of underwriting liability and management fees. The allocation of fees will be determined prior to the sale date. A cap on management fees, expenses and underwriter's counsel fee will be established and communicated to all parties by ASA. The senior manager shall submit an itemized list of expenses.

5. Evaluation of Underwriter Performance – ASA will evaluate each bond sale after completion to assess the following: costs of issuance including underwriters' compensation, pricing of the bonds in terms of the overall interest cost and on a maturity-bymaturity basis, and the distribution of bonds.

6. Syndicate Policies – For each negotiated transaction, ASA will establish syndicate policies that will describe the priority of orders and designation policies governing the upcoming sale. ASA shall require the senior manager to:

a. Fairly allocate bonds to other managers and the selling group.

b. Comply with the Municipal Securities Rulemaking Board's (MRSB) regulations governing the priority of orders and allocations.

c. Within 10 working days after the sale date, submit to ASA a detail of orders, allocations and other relevant information pertaining to ASA's sale.

ii. Consultants

1. Financial Advisor – ASA will select a financial advisor to assist in its debt issuance and debt administration processes.

Selection of the ASA's financial advisor will be based on, but not limited to, the following criteria:

a. Experience in providing consulting services to entities similar to ASA.

b. Knowledge and experience in structuring and analyzing bond issues.

c. Experience and reputation of assigned personnel.

d. Fees and expenses.

2. Bond Counsel – ASA will include a written opinion by legal counsel affirming that ASA is authorized to issue the proposed debt, that ASA has met all legal requirements necessary for issuance, and a determination of the proposed debt's federal income tax status. The approving opinion and other documents relating to the issuance of debt will be prepared by counsel with extensive experience in public finance and tax issues. The Bond Counsel will be selected by ASA.

3. Conflicts of Interest – ASA requires that its consultants and advisors provide objective advice and analysis, maintain the confidentiality of ASA financial plans, and be free from any conflict of interest that has not been fully disclosed to, and waived by, ASA. In no case will ASA's financial advisor be permitted to underwrite any portion of ASA's bond issues, whether sold competitively or negotiated.

4. Disclosure by Financing Team Members – All financing team members will be required to provide full and complete disclosure, relative to agreements with other financing team members and outside parties. The extent of disclosure may vary depending on the nature of the transaction. However, in general terms, no agreements will be permitted which could compromise the firm's ability to provide independent advice which is solely in ASA's best interests or which could reasonably be perceived as a conflict of interest.

j. Communication and Disclosure

i. Continuing Disclosure – ASA recognizes that accurate and complete disclosure is imperative. ASA will comply with all state and federal disclosure obligations and will meet its disclosure requirements in a timely and thorough manner.

k. Arbitrage Compliance

i. ASA will maintain a system of record keeping and reporting in order to comply with the Arbitrage Rebate Compliance Requirements of the Internal Revenue Code of 1986, as amended.

### 5. Derivatives

- a. Derivatives such as interest rate swaps and options are financial tools that can help ASA meet important financial objectives, however they introduce multiple risks which must be understood and managed. Properly used, these instruments may increase ASA's financial flexibility, provide opportunities for interest rate savings or enhanced investment yields, and help ASA manage its balance sheet through matching of assets and liabilities.
- b. ASA will not enter into any financial derivative or swap until the following have occurred:

i. The Board has adopted a comprehensive derivatives/swaps policy outlining the following related to the use of derivatives/swaps:

- 1. Approach and Objectives
  - a. Specific objectives for utilizing swaps
  - b. Prohibited swap features
- 2. Legal Authority
- 3. Permitted Instruments
- 4. Procedure for Submission and Execution
- 5. Swap Analysis and Participant Requirements

- a. Swap risks
- b. Counterparty risk assessment
- c. Benefit expectation
- 6. Legal and Contractual Requirements
  - a. Legal terms of swaps
  - b. Notional amount
  - c. Final maturity
  - d. Termination provisions
  - e. Collateral
- 7. Ongoing Management
- 8. Ongoing Reporting Requirements
- 9. Acceptable Collateral

ii. The Board has approved the execution of the specific financial derivative or swap transaction.

### Appendix A – Definitions

**Bond Anticipation Note (BANs):** Notes which are paid from the proceeds of the issuance of long-term bonds. Typically issued for capital projects.

**Call Provisions:** The terms of the bond giving the issuer the right to redeem all or a portion of a bond prior to its stated date of maturity at a specific price, usually at or above par.

**Capital Improvement Program (CIP):** Plan for major non-recurring facility, infrastructure, or acquisition expenditures that expand or improve the system and/or community assets. Projects included in the CIP include physical descriptions, implementation schedules, year of expenditure cost and funding source estimates, and an indication of priorities and community benefits.

**Capitalized Interest:** A portion of the proceeds of a bond issue which is set aside to pay interest on the same bond issue for a specific period of time. Interest is commonly capitalized for the construction period of the project.

**Commercial Paper:** Short-term, unsecured promissory notes issued by corporations to finance receivables for a maturity specified by the purchaser that ranges from three days to 270 days. Notes are generally sold at a discount, and carry credit ratings issued by an NRSRO.

**Competitive Sale:** A sale/auction of securities by an issuer in which underwriters or syndicates of underwriters submit sealed bids to purchase the securities. Contrast to a negotiated sale.

**Continuing Disclosure**: The principle that accurate and complete information material to the transaction which potential investors would be likely to consider material in making investment decisions with respect to the securities be made available on an ongoing basis.

**Credit Enhancement:** Credit support purchased by the issuer to raise the credit rating of a debt issue. The most common credit enhancements consist of bond insurance, direct or standby letters of credit, and lines of credit.

**Debt Service Reserve Fund:** The fund in which moneys are placed which may be used to pay debt service if pledged revenues are insufficient to satisfy the debt service requirements.

Derivatives: A financial product whose value is derived from some underlying asset value.

**Designation Policies**: Outline how an investor's order is filled when a maturity is oversubscribed when there is an underwriting syndicate. The senior managing underwriter and issuer decide how the bonds will be allocated among the syndicate. There are three primary classifications of orders which form the designation policy: Group Net Orders; Net Designated orders and Member orders.

**Escrow:** A fund established to hold moneys pledged and to be used to pay debt service on an outstanding issue.

Expenses: Compensates senior managers for out-of-pocket expenses including:

underwriters counsel; DTC charges, travel, syndicate expenses, dealer fees, overtime expenses, communication expenses, computer time and postage.

Letters of Credit: A bank credit facility wherein the bank agrees to lend a specified amount of funds for a limited term.

**LIBOR**: The London InterBank Offered Rate is the rate on U.S. dollar denominated deposits with maturities from 1 day to 12 months transacted between banks in London. LIBOR is the benchmark swap floating index in the taxable or corporate swap market.

Liquidity: The ability of ease with which an asset can be converted into cash without a substantial loss of value.

**Management Fee:** The fixed percentage of the gross spread which is paid to the managing underwriter for the structuring phase of a transaction.

**Maturity**: The date upon which the principal or stated value of an investment becomes due and payable.

Members: Underwriters in a syndicate other than the senior underwriter.

Nationally Recognized Statistical Rating Organization (NRSRO): A credit rating agency which issues credit ratings that the U.S. Securities and Exchange Commission (*the "SEC"*) permits other financial firms to use for certain regulatory purposes. Examples include Moody's Investor Service, Standard & Poor's and Fitch Ratings.

**Negotiated Sale:** A method of sale in which the issuer chooses an underwriter to negotiate terms pursuant to which such underwriter will purchase and market the bonds.

**Original Issue Discount:** The amount by which the original par amount of an issue exceeds its public offering price at the time it is originally offered to an investor.

Portfolio: Collection of securities held by an investor.

Present Value: The current value of a future cash flow.

**Private Placement:** The original placement of an issue with one or more investors versus being publicly offered or sold.

Revenue Bonds: Bonds secured by a specific revenue pledge of rates, rents or fees.

Securities and Exchange Commission ("SEC"): Agency created by Congress to protect investors in securities transactions by administering securities legislation.

**Selling Groups:** The group of securities dealers who participate in an offering not as underwriters but rather who receive securities less the selling concession from the managing underwriter for distribution at the public offering price.

**SIFMA:** The Securities Industry and Financial Markets Association is a high grade market index of 7-day variable rate demand notes that is produced by Municipal Market Data.

SIFMA is the benchmark swap floating index in the tax-exempt swap market.

**Syndicate Policies**: The contractual obligations placed on the underwriting group relating to distribution, price limitations and market transactions.

**Underwriter**: A dealer that purchases new issues of municipal securities from the Issuer and resells them to investors.

**Underwriter's Discount**: The difference between the price at which bonds are bought by the Underwriter from the Issuer and the price at which they are offered to investors, representing the compensation earned by the Underwriter for placing the bonds with investors.



### What's happening on the cover?

In FY21, AlexRenew finished preparations at our wastewater treatment plant for the RiverRenew Tunnel Project, a water quality project designed to prevent millions of gallons of combined sewer overflows from polluting Hooffs Run, Hunting Creek, and the Potomac River. Use of our plant is essential to constructing and operating the Project. All tunnel mining will be occur at AlexRenew, a commitment made to the community to minimize impacts. At completion, the tunnel will convey flows captured to AlexRenew for treatment. At the time of this report's issuance, construction on two 12-story-deep shafts needed to launch the machine that will build the tunnel was about to start, illustrated on the front cover. Use your phone's camera to scan the QR code on the left to discover how we'll begin Building for the Future of Alexandria's Waterways.



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Karen L. Pallansch P.E., BCEE

#### GENERAL COUNSEL

McGuire Woods, LLP



AlexRenew is an independent public authority that manages Alexandria's wastewater to improve our local waterways.

703.721.3500 AlexRenew.com **f** 

1800 Limerick Street, Alexandria, Virginia 22314

## MEMORANDUM

TO:	AlexRenew Board of Directors
FROM:	Karen Pallansch, Chief Executive Officer
DATE:	April 14, 2022
SUBJECT:	Consideration of Changes to Winter Quarter Averaging (WQA) Minimum

### Issue

Staff has been considering potential changes to AlexRenew's Winter Quarter Averaging Period (WQA) Minimum in response to a citizen concern. AlexRenew's current billing methodology calculates a WQA for each customer account, using the customer's average water usage from December, January, and February to set a "cap" on usage for the remaining months of the year. The methodology requires that a customer's WQA cannot be less than 4,000 gallons per month, set as the WQA Minimum.

### Recommendation

Staff recommends that the Board adjust AlexRenew's WQA Minimum by lowering it from the current 4,000 gallons per month to 1,000 gallons per month as part of the rate planning process beginning in January 2023. This would allow for implementation in the FY24 rate increases (implemented in July 2023).

### **Budget and Funding**

Lowering AlexRenew's WQA Minimum to 1,000 gallons would negatively impact annual revenues by approximately \$500,000, requiring an immediate across the board 1% increase in rates if implemented.

### Discussion

AlexRenew bills are determined based on drinking water flow into the home as metered by Virginia American Water. Water meters serve as a proxy for actual wastewater use as there are no meters made today that accurately provide usage reads on the wastewater leaving the home. The wastewater sector recognizes that not all metered water enters the sewer system, such as irrigation water in the summer. About half of wastewater utilities nationally use a form of winter averaging to provide fairness to the broad base of sewer users. AlexRenew has instituted winter averaging in its rate structure for residential users only. For Alexandria, the winter averaging period selected is December, January, and February. AlexRenew sets the WQA Minimum at 4,000 gallons, which is consistent with average indoor flow across all City users. This ensures that all sewer users pay for the availability and use of the sewer infrastructure built to manage their wastewater. The WQA methodology is not intended to perfectly measure indoor versus outdoor water use at the individual customer level. It is designed to adjust water meter data broadly across the customer base to equitably recover the cost of sewer service.

A customer inquiry was received from a small household that uses a very low amount of water per month – approximately 1,000 gallons per month in the winter and 2,000 gallons per month in the summer – about the perceived fairness of the WQA minimum for customers who employ extensive water conservation. Because this customer's usage is so far below the average daily water use in the city, the customer does not benefit from the WQA under the methodology. For a customer with this usage profile to benefit from the WQA, the WQA Minimum would have to be set at or lower than the customer's actual winter usage. For the customer in question, the WQA would have to be set at 1,000 gallons.

Month	Metered Water Usage	Billed Sewer Usage	Monthly Bill
July	2,000	2,000	\$34
August	1,000	1,000	\$23
September	2,000	2,000	\$34
October	1,000	1,000	\$23
November	1,000	1,000	\$23
December	1,000	1,000	\$23
January	1,000	1,000	\$23
February	1,000	1,000	\$23
March	2,000	2,000	\$34
April	1,000	1,000	\$23
May	2,000	2,000	\$34
June	2,000	2,000	\$34
ANNUAL TOTAL	17,000	17,000	\$335

Table 1. Annual Bill Impacts for Low Flow User Based on Current 4,000 WQA Minimum

The example below considers the same low flow customer bill if the WQA Minimum were lowered to 1,000. This would allow a customer with actual winter usage of 1,000 to be capped at 1,000 throughout the year, resulting in annual savings to the customer of \$55 per year (or \$5/month on average).

Table 2. Annual Bill Impacts for Low Flow User Based	on Lower 1,000 WQA Minimum
--	----------------------------

Month	Metered Water Usage	Billed Sewer Usage	Monthly Bill
July	2,000	1,000	\$23
August	1,000	1,000	\$23
September	2,000	1,000	\$23
October	1,000	1,000	\$23
November	1,000	1,000	\$23
December	1,000	1,000	\$23
January	1,000	1,000	\$23
February	1,000	1,000	\$23
March	2,000	1,000	\$23

Month	Metered Water Usage	Billed Sewer Usage	Monthly Bill
April	1,000	1,000	\$23
Мау	2,000	1,000	\$23
June	2,000	1,000	\$23
ANNUAL TOTAL	17,000	12,000	\$280

Using a WQA methodology with a WQA Minimum that aligns with average usage in the service area is an established water sector practice. This best practice has been shown to be a more fair and accurate proxy for wastewater flows as opposed to using water meter data alone to bill for sewage service. In considering this issue, Staff consulted with AlexRenew's rate consultants to project the impacts to revenue if the WQA Minimum were lowered. One major challenge with modifying the WQA Minimum is customers that leave their residence unoccupied for the winter months; at present, there are over 200 AlexRenew customers that read no usage in the winter months and would then benefit from an artificially low cap for the remainder of the year if the WQA Minimum were lowered.

AlexRenew's rate consultants analyzed the impact of a lower WQA Minimum and estimate that lowering it to 1,000 gallons would result in a projected revenue loss of approximately \$500,000. If the Board adopts this change, the revenue loss would require an immediate across the board minimum rate increase of 1% for AlexRenew to meet its budgeted needs. Given the need for public notice and public hearing on rate changes and adoption, the earliest this change could be implemented would be September. This increase would also need to be factored into future rate planning and would be in addition to the projected rate increases for RiverRenew. A 1% rate increase would equate to about \$0.50 per month per bill.

As part of our rate and financial and capital needs planning process, staff will be recommending rate changes to the Board in February 2023 with a public hearing tentatively scheduled for May 2023.

### Congruence with AlexRenew Strategic Plan

This action enables our strategy of *Effective Financial Stewardship*.

ACTION TAKEN	
Approved:	
Disapproved:	
Approved with Modification:	
Modification(s):	

### CEO Board Report March 2022

Dear Members of the Board of Alexandria Renew Enterprises,

The Alexandria Renew Enterprises (AlexRenew) Board of Directors met on March 15, 2022, reconvening in person for the first time since July 2021.

In March, AlexRenew had 3 reported cases of COVID-19. AlexRenew continues to adapt its policies to ensure that it follows CDC guidance and is in compliance with Virginia Department of Labor and Industry standards.

On March 17, the RiverRenew Stakeholders Advisory Group met virtually.

On March 23, the CEO presented the keynote on RiverRenew at the Virginia Water Environment Association (VWEA) Collections System Seminar.

### **Operational Excellence**

Precipitation for March at Reagan National Airport was 2.77 inches of rain and 0.90 inches of snow, which is above the Washington, D.C historical average precipitation of 3.48 inches for the month.

Biosolids production for March was 1,736 wet tons, all of which was beneficially used through land application in the Virginia counties of King George, King William, and Caroline.

AlexRenew met all Virginia Pollutant Discharge Elimination System (VPDES) effluent parameters for March 2022.

Transformed	Daily Average Flow	Carbonaceous Biochemical Oxygen Demand	Total Suspended Solids	Ammonia (as N)	Dissolved Oxygen	Total Nitrogen <sup>1</sup>	Total Nitrogen LOAD	Total Phosphorus	Total Phosphorus LOAD
Treatment		(Monthly Average)	(Monthly Average)	(Monthly Average)	(Minimum)	(Annual Average)	(YTD)	(Monthly Average)	(YTD)
	MGD	mg/Ľ	mg/Ľ	mg/Ľ	mg/L	mg/Ľ	lb	mg/Ľ	lb.
Permit	54.0	5.0	6.0	Seasonal <sup>2</sup>	6.0	3.0	493,381	0.18	29,603
Reported	35.1	<ql< th=""><th>2.2</th><th>1.23</th><th>8.5</th><th>3.1</th><th>93,150</th><th>0.09</th><th>2,434</th></ql<>	2.2	1.23	8.5	3.1	93,150	0.09	2,434

NOTES

1. Total Nitrogen expressed as year-to-date average.

2. Ammonia has seasonal limits: February - March: 6.9 mg/L

### Public Engagement and Trust

### **Tours and Events**

AlexRenew welcomed a total of 166 visitors from the following organizations that hosted meetings on the 6th floor of the Environmental Center: Urban Land Institute (30), The Chamber ALX Leadership Academy (30), ACPS Department of Accountability and Research Meeting (6), Kids' First Years Monthly Workgroup Meeting (30), the Chamber ALX Senior Focused Business Networking (30), and the Eisenhower Partnership for their Annual City Manager's Breakfast (40).

### **Customer Service**

Customer service received a total of 826 calls with 52 percent opting for self-service. The average call answer time was 17 seconds. Call center staff answered 127 emails.

### Social Media and Website

77 percent of people who engaged with us on Facebook during March were from the City of Alexandria; the majority (66.2 percent) were women and 33.8 percent were men. We had 8,207 organic impressions and 118 organic engagements on Facebook. We currently have 3,468 Facebook followers, up nine from February. AlexRenew had 1,318 organic engagements on Twitter and 2 on LinkedIn. We have a total of 3,310 followers on Twitter, 2,398 on LinkedIn, and 216 Instagram followers. Alexrenew.com had 8,188 sessions and 12,157 page views during March. We had 21 visitors click through to our website from social media. The RiverRenew website had 868 visitors and 1,968 page views.

### Watershed Stewardship

See RiverRenew Dashboard. (Attachment 1)

### Adaptive Culture

Since July 2021, AlexRenew has logged 111,366 hours without a lost time accident.

Thank you for your ongoing dedicated service to AlexRenew.

Regards,

Karen Pallansch Chief Executive Officer

# RiverRenew Board of Directors Dashboard



rei

## MONTH ENDING: MARCH 31, 2022

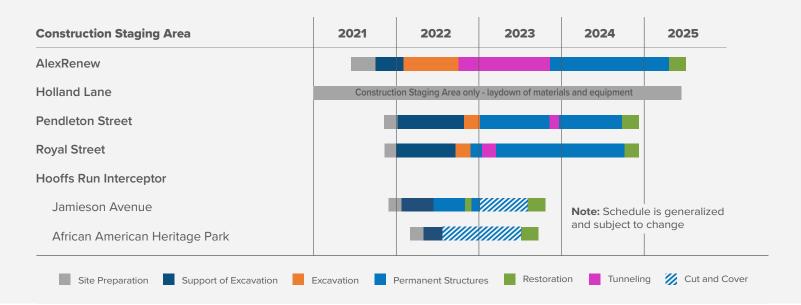
RiverRenew is a program owned and implemented by AlexRenew, Alexandria's public regional wastewater treatment provider.

## **RiverRenew Overview**

To improve the waterways that connect us, AlexRenew is implementing RiverRenew to prevent millions of gallons of combined sewage from polluting Alexandria's local rivers and streams each year. Three RiverRenew projects at AlexRenew's wastewater treatment plant are complete. The remaining project includes the construction of a new tunnel to connect AlexRenew's wastewater treatment plant to the four existing combined sewer outfalls in Alexandria.

The Tunnel Project is illustrated on Page 4 of this Dashboard. Construction associated with the Tunnel Project started in early 2021 and will continue through 2025 at five primary locations in Alexandria. The phases of construction at each location are illustrated in the schedule below.

## **RiverRenew Tunnel Project Schedule**



## **Summary of Major Tunnel Project Delays**

Date:	Activity:
12/2021	Monitoring potential supply chain issues due to ongoing pandemic.
12/2021	COVID outbreak at tunnel segment mold plant in Slovenia. Manufacturing for tunnel segment molds relocated to Turkey. Anticipated one-month delay on tunnel segment molds.
1/2022	Concrete for shaft slurry walls delayed due to weather, COVID impacts, shortage of CDL drivers due to Omicron spike, and lack of concrete materials in the Greater Metro D.C. area. Monitoring schedule impacts to critical path.
2/2022	TBM fabrication and delivery delayed by three weeks. Monitoring schedule impacts to critical path.

## **RiverRenew Tunnel Project Design-Build Progress**

## **Overall Project Progress**

(Design and Construction)

	<b>21</b> %	
	22%	
▲ DEC 2020		JUL 2025 🛦



Design Progress	
	<b>72</b> %
	77%
Construction Progress	JUN 2022
1%	
1%	
	JUL 2024 🔺



Design Progress		
	<b>71%</b>	
	71%	
Construction Progress		APR 2022
15%		
14%		
		SEP 2023 🔺



	JUN 2022 🛦
truction Progress	
14%	
13%	
	NOV 2024 🔺

Cons



Design Progress	
	<b>85</b> %
	82%
Construction Progress	JUN 2022 🛦
3%	
4%	
	Aug 2023 🛦



Design Progress		
	<b>73</b> %	
	71%	
Construction Progress		MAY 2022
9%		
10%		
		JUI 2025

LEGEND:

Ac<sup>-</sup>

Actual Progress

Planned Progress 🛛 🔺 Plann

Planned Completion Date

Actual Progress as of March 31, 2022. Planned Progress bars are representative of updates to Baseline Schedule.

\* The Design-Builder deferred the Pendleton and Royal Street permanent structural designs to prioritize the critical path structural designs at Hooffs Run and AlexRenew. Deferring the Pendleton and Royal Street structural designs will not impact the project schedule.

## **RiverRenew Tunnel Project Six-Month Look-Ahead**

### **Pendleton Street**

MAJOR WORK ACTIVITIES			
Activity	Date		
Backfill and guide wall installation	Apr 2022		
Shaft support of excavation	Jul 2022		
PERMITS			
Permit	Date		
DSUP Final Site Plan Approval	Jun 2022		
Building Permit - Shaft Support of Excavation	Jun 2022		
Building Permit - Permanent Seawall	Jun 2022		
Building Permit - Permanent Seawall Building Permit - Shaft Liner and Base Slab	Jun 2022 Jul 2022		

### **Royal Street**

### MAJOR WORK ACTIVITIES

Activity	Date
Shaft support of excavation	Apr 2022
Shaft excavation	Aug 2022

#### PERMITS

Permit	Date
Building Permit - Shaft Support of Excavation	Apr 2022
DSUP Final Site Plan Approval	Jun 2022
Building Permit - Shaft Liner and Base Slab	Jul 2022
Building Permit - Shaft Roof	Jul 2022
Building Permit - Near Surface Structure and SOE	Aug 2022

### Waterfront Tunnel

#### **MAJOR WORK ACTIVITIES**

Activity	Date
Install instrumentation	Apr 2022
Tunnel boring machine	
Commissioning and factory testing	Apr 2022
Shipping	May 2022
Arrival and assembly at AlexRenew	Jun 2022
Begin mining	Sep 2022

### **Community Outreach**

Event	Date
Council-Board Workgroup Meeting No. 14	Apr 27, 2022
2022-2023 RiverRenew SAG Meeting No. 8	May 19, 2022
Community Listening Sessions	July 11-14, 2022
2022-2023 RiverRenew SAG Meeting No. 9	July 21, 2022

### **Hooffs Run**

#### **MAJOR WORK ACTIVITIES**

Activity	Date
North of Jamieson Ave	
Micropile installation	Ongoing through Apr 2022
Support of excavation	Apr 2022
Diversion chamber construction	Jun 2022
Open cut construction	Jul 2022
Restore portions of Pocket Park	Sept 2022
African American Heritage Park	
Site preparation and invasive plant removal	Ongoing through Apr 2022
Junction chamber construction	May 2022
Open cut construction	Jun 2022

#### PERMITS

Permit	Date
DSUP Final Site Plan Approval	May 2022

### AlexRenew

### MAJOR WORK ACTIVITIES

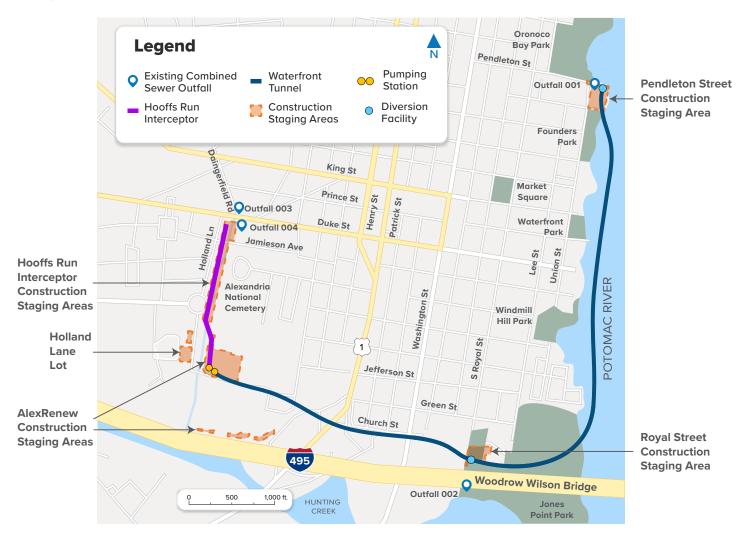
Activity	Date
Shaft excavation	Apr 2022
HGL control structure support of excavation	May 2022
Construct screening shaft base slab	Jun 2022
Breakthrough between screening shaft and pumping shaft	July 2022

#### PERMITS

Permit	Date
Building Permit - Shaft Liner and Base Slab	May 2022
DSUP Final Site Plan Approval	Jun 2022
Building Permit - Superstructure Architectural	Sep 2022

## **RiverRenew Tunnel Project Snapshot**

The Tunnel Project includes the following major components: a two-mile-long, 12-foot-wide, 100-foot-deep tunnel; a six-foot-wide sanitary sewer interceptor; diversion facilities to capture combined sewer discharges; and two pumping stations.





**Hooffs Run Interceptor** 

Click **here** to learn more about upcoming activity at our Hooffs Run site.



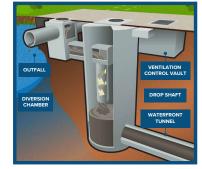
**Pumping Station** 

Click **here** to take a 3D tour of RiverRenew's future pumping station.



Waterfront Tunnel

Click **here** to watch an animated video about RiverRenew and learn how the Waterfront Tunnel will be constructed.

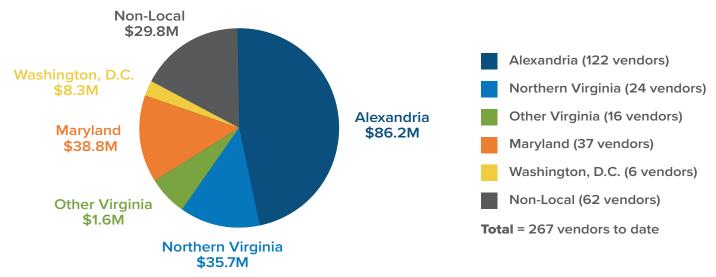


**Diversion Facility** 

Click **here** for an introduction to diversion facilities from two RiverRenew engineers.

## **RiverRenew Program Costs to Date**

**RiverRenew Spend to Date by Locality\*** 

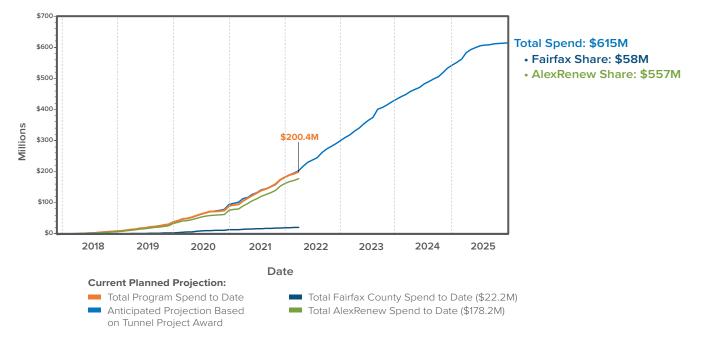


\*The Design-Builder has developed additional vendor and supplier detail to more accurately reflect the Tunnel System Project Spend to Date by Locality.

## **RiverRenew Tunnel Project Contracts**

Vendor	Role	Contract Type	Contract No.	Contract Date	Spent to Date (\$ millions)
Traylor-Shea Joint Venture	<b>Design-Builder</b> Tunnel System Project	Design-Build	19-079	Dec 2020	\$91.3
Brown and Caldwell	Owner's Advisor	Professional Services	17-022	Nov 2017	\$55.5
EPC	Resident Engineering & Inspection Tunnel System Project	Professional Services	20-013	Apr 2020	\$5.1
Completed RiverRenew Wastewater Projects to Pave the Way for the Tunnel Project				\$48.5	

## **RiverRenew Cash Flow Analysis**



## **RiverRenew Community Outreach**



## Education

**Education** initiatives are intended to engage audiences of all ages and help them learn more about RiverRenew and its technical components.

### Highlights:

• Created a new banner and **learning activity** to explain the process of installing micropiles to construct the Hooffs Run Interceptor facilities





## **Community Meetings**

**Community meetings** are presentations given to various stakeholder groups, including the SAG, and community listening sessions. These presentations can be delivered in person or virtually.

### Highlights:

• 2022-2023 RiverRenew SAG Meeting No. 7: March 17

### Looking Ahead:

- 2022-2023 RiverRenew SAG Meeting No. 8: May 19
- 2022-2023 RiverRenew SAG Meeting No. 9: July 21
- Community Listening Session, Pendleton St: July 11
- Community Listening Session, Royal St: July 12
- Community Listening Session, AlexRenew: July 13
- Community Listening Session, Hooffs Run: July 14

\*Community Listening Sessions will be held in the field adjacent to the respective construction sites



## **Public Inquiries**

The RiverRenew team is committed to keeping the community informed every step of the way, dedicating their time to addressing all **public inquiries** about the project.



## **Community Days**

**Community days** feature project-specific events to celebrate construction progress on the Tunnel Project and engage the community along the way.

### Looking Ahead:

•TBM Unveiling Ceremony: July 2022



## **Digital Programming**

**Digital programming** keeps the community connected to RiverRenew with regular program updates on RiverRenew.com, content on AlexRenew's social media pages, and distribution of *The River Renewer*, a quarterly newsletter promoting updates and milestones to more than 500 contacts.

### Highlights:

### A video series

highlighting team members in celebration of Women in Construction Week WOMEN IN CONSTRUCTION WEEK 612, 2022

- A selection of **photos** commemorating the completion of the pumping shaft slurry walls at AlexRenew
- The first installment of our Get to Know our Craft Personnel **video series**, highlighting Foreman Juan Estrada



## **Council-Board Workgroup**

The **Council-Board Workgroup** comprises two members from AlexRenew's Board of Directors and two members from the Alexandria City Council.

### Looking Ahead:

• Council-Board Workgroup Meeting No. 14: April 27



## **Community Events**

Participating in or co-sponsoring **community events** strengthens AlexRenew's relationship with its water and community partners.

### Highlights:

• Sip 'n See events ongoing

### Looking Ahead:

- Sip 'n See event at Royal Street: Wednesdays from 10a.m. to 1 p.m.
- Sip 'n See event at Hooffs Run: Tuesdays between 10 a.m. and 1 p.m.

Note: Pendleton Street Sip 'n See will resume on Thursdays in August when work resumes on the site

•AlexRenew Oronoco Bay Park Cleanup: April 9

# **Monthly Construction Spotlight**



## Senator Tim Kaine and Representative Don Beyer visit AlexRenew in support of healthier waterways

On March 18, Senator Tim Kaine and Representative Don Beyer met with RiverRenew staff and received an inside look at ongoing construction at AlexRenew.

During their visit, the Senator and Representative toured the AlexRenew construction site and learned about the shaft excavation process from our talented craft personnel who form the backbone of the project.

AlexRenew thanks Senator Kaine and Representative Beyer for the visit, their ongoing support of this historic environmental initiative, and highlighting the importance of skilled trades on these types of large infrastructure projects.

Read more about the visit at **RiverRenew.com/news/program-updates/kaine-beyer** or visit **RiverRenew.com/ construction/alexrenew** to learn more about ongoing activity at AlexRenew.

## Building for the Future of Alexandria's Waterways

### To learn more, visit www.RiverRenew.com





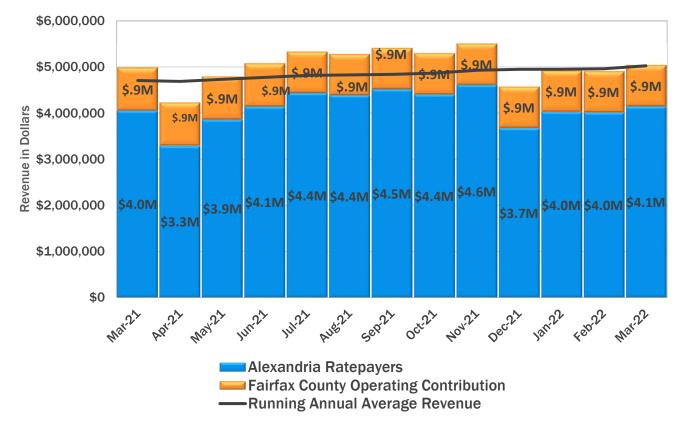
### Month: March 2022

### <u>Overview</u>

Monthly performance of AlexRenew's annual approved budget is reviewed and evaluated against actual to planned spend rates, historical trends, appropriate benchmarks and internal financial policies, to ensure overall organizational financial stability.

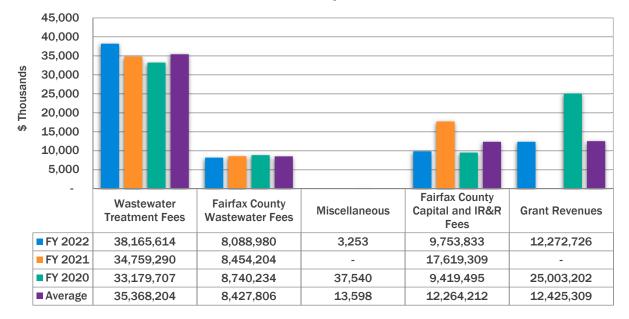
### Revenues

- FY22 operating revenues total \$46.3 million through the end of March with approximately \$38.2 million in Wastewater Treatment Charge revenue and \$8.0 million collected from Fairfax County. Wastewater Treatment Charge revenue is approximately \$3.4 million (9.8%) more compared to the same time period in FY21, and \$2.3 million (6.43%) above the Fiscal 2022 YTD budget. Data indicates a slight increase month-over-month in customer revenue. Finance staff will continue to monitor the trend in coming months.
- Revenue performance is primarily driven by billed flows that may be impacted by seasonality and by the Virginia American Water meter reading process, which can vary month-to-month.
- The Fairfax County operating expense charge and IR&R contribution YTD are on budget respectively. Fairfax County capital outlay contributions are also in-line with capital expenditures.

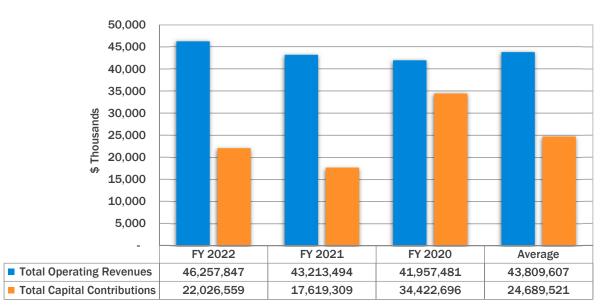


## **Monthly Wastewater Treatment Fee Revenue**





### Annual Revenue and Capital Contributions 3 Year Comparison



## **Operating Revenue vs. Capital Contributions**



### Expenses

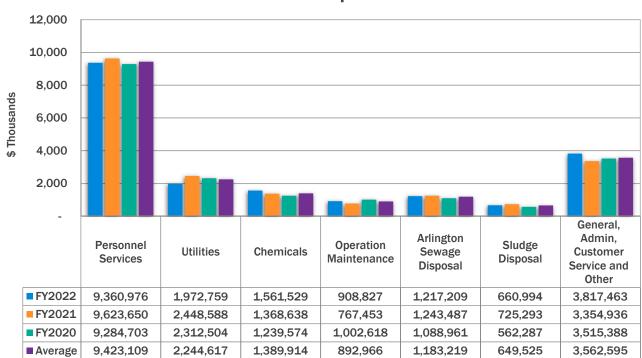
FY22 operating and maintenance expenses are approximately 10% or \$2.18 million under the yearto-date budget, representing a spend rate of 58.4%. Seasonal variations in utilities and staffing changes currently account for this slight under-utilization. Staff expects this gap to close by the end of the fiscal year as we continue to hire, update compensation and increase seasonal spend.

Capital outlay expenses are \$35.9 million year-to-date, representing a spend rate of 33.4%.

At nine (9) months into the fiscal year, the overall spend rate is 44.5% of the total budget.

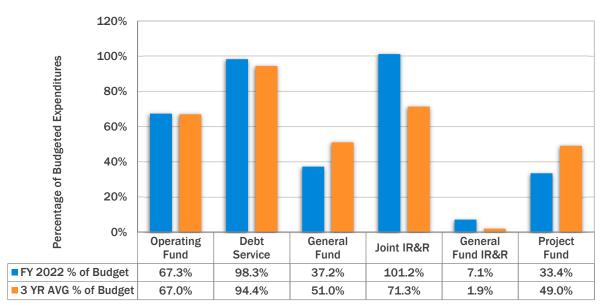
ACTUAL VS. BUDGET									SPEND			
		Throug	ough March 2022						RATE			
(\$ Millions)		FY 2022	FY	TD 2022	3	YR AVG		FYTD 2022	FY 2022	3 YR AVG	Variance FY22	
Expenses (By Fund)		BUDGET	ļ	ACTUAL	4	ACTUAL		BUDGET	% of Budget	% of Budget	to 3 YR AVG	
Operating Fund	\$	28.39	\$	19.11	\$	19.02	\$	21.29	67.3%	67.0%	0.4%	
Debt Service		13.92		13.68		13.30		10.44	98.3%	94.4%	3.9%	
General Fund		72.40		26.93		12.99		54.30	37.2%	51.0%	-13.8%	
Joint IR&R		5.70		5.77		3.71		4.28	101.2%	71.3%	29.9%	
General Fund IR&R		0.12		0.01		0.00		0.09	7.1%	1.9%	5.1%	
Project Fund		107.50		35.94		34.46		80.63	33.4%	49.0%	-15.6%	
Total	\$	228.03	\$	101.43	\$	83.48	\$	171.02	44.5%	58.1%	-13.7%	

### **Expenses by Fund**



### Annual Operating Expenses 3 Year Comparison

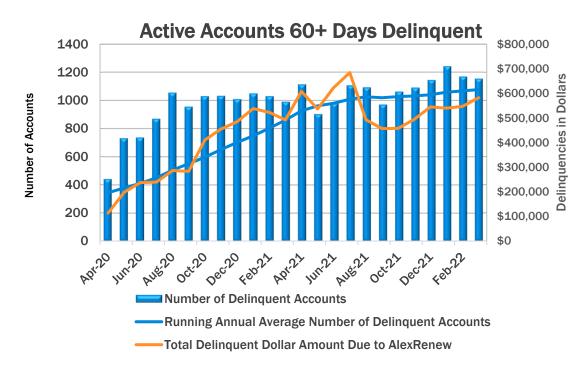




Expenditure Budget Comparison By Fund FY 22 vs. 3 Year Average

### **Delinquencies**

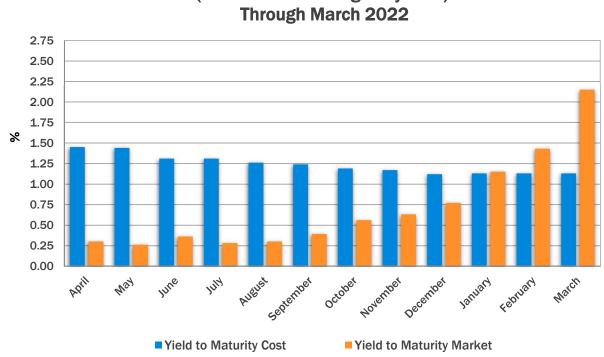
The number of accounts that are delinquent by more than 60 days was 1,153 in March and decreased slightly month-over-month. The total dollar amount owed to AlexRenew from these accounts totaled \$582,407 at the end of March. AlexRenew continues to work with customers with unpaid bills to establish payment plans, evaluate eligibility for relief programs, and otherwise assist them in bringing their accounts current.





### Investments

PFM Investment Advisors manages approximately \$21 million of AlexRenew's \$28.0 million investment portfolio. The following graph demonstrates current earnings on investments of approximately 1.13%; a level higher than general bank deposit earnings rates.



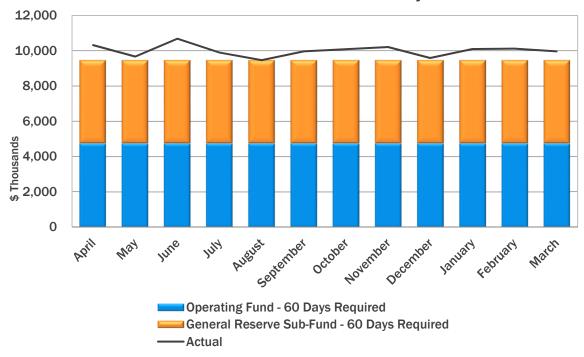
### Investment Yield Percentage to Maturity (Investments managed by PFM) Through March 2022

### **Cash Reserves**

AlexRenew's Indenture requires that it maintain a balance on deposit in the Operating Fund equal to not less than 60 days of budgeted operating expenses. AlexRenew's Financial Policy requires a balance on deposit in the General Reserve sub-Fund, also equal to not less than 60 days of budgeted operating expenses. In total, these combined compliance conditions require AlexRenew to maintain at least 120 days cash on hand, and for FY22 this equals a minimum of \$9,462,334. The chart and graph below demonstrate that AlexRenew currently exceeds this requirement.



Board Policy 120 Days Cash Reserves	Actual		Percentage of Goal	
As of March, 2022				
Total Operating Cash	\$	2,367,400		
Total Certificates of Deposit (Cash Equivalent)	\$	2,864,392		
CARE ACT COVID19 Funding Balance	\$	-		
Total Operating Cash	\$	5,231,792		
Total General Reserve Sub-Fund Cash		4,731,167		
Total Operating and General Reserve Sub-Fund Cash		9,962,959	1059	



**Cash Reserve Policy** 

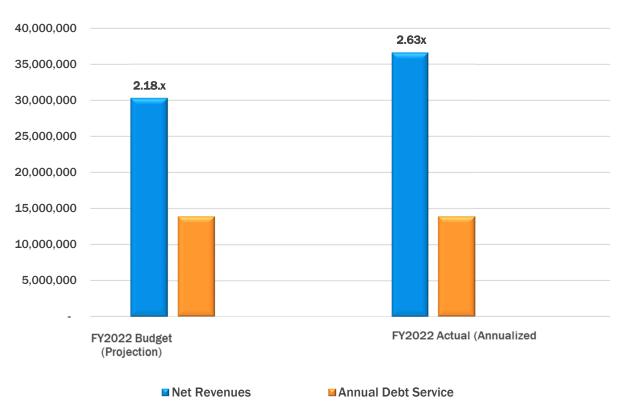
### **Debt Service Coverage**

The Indenture also requires AlexRenew to maintain minimum debt service coverage such that Revenues less Operating Expenses or Net Revenues (each term as defined in the Indenture) is at least 1.10x the parity debt service due in any fiscal year. Compliance with Board-approved financial policies requires AlexRenew to maintain a higher minimum debt service coverage of at least 1.50x applying the same criteria as defined above.

In both cases, AlexRenew currently exceeds its compliance standard as indicated below. The 2.18x designated in the graph below represents projected coverage for FY22 based on original FY22 budget expectations. At nine months into the fiscal year, annualized results would indicate coverage of at 2.63x, ahead of the budgeted projection of 2.18x.



	FY 2022	FY 2022
Financial Policy Compliance - All-In Debt Service Coverage	Actual	Budget
Gross Revenues Available for Debt Service Coverage:		
Wastewater Treatment Charges - Alexandria Ratepayers	50,887,486	47,814,540
Fairfax County Operating Expense Charge	10,785,306	10,785,305
Reimbursement from other systems	4,337	-
Investment Income	389,382	115,000
Less Restricted Investment Income	-	-
Total	62,066,512	58,714,845
LESS Operating Expenses	(25,476,809)	(28,386,991)
Net Revenues [a]	36,589,702	30,327,854
Annual Debt Service [b]	13,919,620	13,919,620
Calculated All-In Debt Coverage [a/b]	2.63x	2.18x
Financial Policy Target	≥ <b>1</b> .50x	≥ <b>1</b> .50x



### All-in Debt Service Coverage Net Revenues to Annual Debt Service



### **Glossary:**

### Revenue Fund

All revenue receipts of Alexandria Renew are deposited in the Revenue Fund.

### The Operating Fund

The Operating Fund accounts for the administration and maintenance of the wastewater treatment system. By Board policy, the Operating Fund shall maintain 120 days of cash in reserve.

### Parity Debt Service Fund

The Parity Debt Service Fund shall have deposited in it one-twelfth (1/12th) of the annual required debt payment due within the budget year. Deposits are restricted funds for use to make semiannual payments in accordance with the Alexandria Renew Trust Agreements.

### Joint Improvement, Renewal & Replacement (IRR) Fund

The IR&R Fund receives deposits directly from Fairfax County (60% of IR&R budget) and from AlexRenew customer revenue (40% of IR&R budget) for asset renewal of joint use facilities. The contribution to the IRR Fund is 0.7% of the total amount of capital expenditures made subsequent to October 1, 1997, for the joint portion of the system, as set forth by the service agreement with Fairfax County.

### Project Fund

The Project Fund records the cost of each joint use capital project included in the AlexRenew Capital Improvement Plans (CIP). The plans for current and future capital projects, both joint and City only, is summarized in a Ten-Year CIP. City use only CIP are accounted for within the General Fund.

### General Fund

The General Fund serves as reserve fund to be used for any lawful purpose of the Authority. Deposits to the General Fund are made from the Revenue Fund after all other fund expenditures and requirements have been satisfied. Alexandria Renew principally uses the General Fund to finance specific capital improvements and to provide sufficient reserves in accordance with policy.