AlexRenew Tunnels Ahead

Keeping RiverRenew on track while maintaining a safe work environment

As the COVID-19 pandemic continues, the RiverRenew program remains on track to meet its legislative mandate of completion by July 1, 2025. To keep construction work moving forward while complying with the Centers for Disease Control and Prevention’s protocols and Virginia’s stay-at-home order, AlexRenew has implemented teleworking procedures and team rotations for essential workers.

To ensure staff safety and remain on schedule, strict protocols for site access were developed, alternate work schedules for contractors and construction management teams were established, and construction operations have been confined to discrete areas on site. Currently, it is anticipated that ongoing construction work at AlexRenew will be complete by March 2021. To keep the community informed of our progress, we are increasing RiverRenew’s digital presence. Check out our featured video here.

RiverRenew Project Schedule

SUMMARY OF UPCOMING ACTIVITIES

<table>
<thead>
<tr>
<th>Date</th>
<th>Upcoming Activities</th>
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<tbody>
<tr>
<td>9/2020</td>
<td>Tunnel System Project proposals due</td>
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<tr>
<td>Fall 2020</td>
<td>Robinson Terminal North (RTN) Demolition</td>
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<tr>
<td>11/2020</td>
<td>Anticipated AlexRenew Board of Directors approval of Tunnel System Project</td>
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<tr>
<td>12/2020</td>
<td>Anticipated Notice to Proceed for Tunnel System Project</td>
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SUMMARY OF MAJOR PERMITTING DELAYS

<table>
<thead>
<tr>
<th>Issue:</th>
<th>Impact:</th>
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<tbody>
<tr>
<td>Federal Government Shutdown 2019-2020</td>
<td>Delayed Environmental Assessment issuance by 2 months</td>
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<tr>
<td>Requirement for Programmatic Agreement condition</td>
<td>Delayed Finding of No Significant Impact issuance by 9 months</td>
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<tr>
<td>COVID-19 hampered review process</td>
<td>Delayed National Park Service and United States Army Corps of Engineers permits by 5 months</td>
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SUMMARY:

- Tunnel System
  - 2020: Construction
  - 2021: Delay due to quality and scheduling issues (not on critical path)

- 108 to 116 MGD Expansion
  - 2020: Construction
  - 2021: Delay (COVID-19)

- Building J Facilities Relocation and Decommissioning
  - 2021: Construction
  - 2022: Delay due to quality and scheduling issues (not on critical path)

- WRRF Site Security and Access
  - 2020: Construction
  - 2021: Delay (COVID-19)

August 2020

Delay due to quality and scheduling issues (not on critical path)
The RiverRenew Tunnel System Project

Progress to Date

Major Permit Status
- VPDES permit issued September 2018
- Environmental Assessment published June 2019
- Finding of No Significant Impact issued April 2020

Easement Agreement Status
Remaining Easements:
- St. Mary’s Catholic Cemetery – permanent subterranean easement
- Two private properties – permanent subterranean easement
- Presbyterian Cemetery – temporary easement

Funding Status
- $25 million grant appropriated by the Virginia General Assembly in April 2019
- Received preliminary approvals from the Virginia Clean Water Revolving Loan Fund (VCWRLF) and the Water Infrastructure Finance and Innovation Act (WIFIA)

Site Investigations Status
- 96 soil borings completed
- 12,786 linear feet drilled
- 2,221 geotechnical soil samples collected
- 100 environmental soil samples collected
- 31 groundwater monitoring wells installed
- 15 environmental groundwater samples collected

Procurement Status

- Jun. 2019 Request for Qualifications Issued
- Oct. 2019 Shortlist
- Feb. 2020 Request for Proposals Issued
- Jul. 2020 Last Addendum Issued
- Sep. 2020 Proposals Submitted
- Nov. 2020 AlexRenew Board Approval
- Dec. 2020 Notice to Proceed

Current Status
RiverRenew Tunnel System Project Components

The completed tunnel system will connect to four outfalls across the city and will prevent about 130 million gallons of combined sewage from entering our waterways each year. At Outfalls 001 and 002, below-ground diversion facilities will direct combined sewer flows into the Waterfront Tunnel. Outfalls 003 and 004 will be served by the Hooffs Run Interceptor, an open-cut pipeline.

Legend
- Existing combined sewer outfall
- Waterfront Tunnel
- Hooffs Run Interceptor

Hooffs Run Interceptor
Construction: Spring 2021-Summer 2024

Tunnel Dewatering and Wet Weather Pumping Station

Tunnel Boring Machine

Diversion Facility
Outfall 001 Diversion Facility
Construction: Spring 2021-Winter 2024

Outfall 002 Diversion Facility
Construction: Spring 2021-Fall 2024
RiverRenew Construction on AlexRenew’s Campus

Current Construction Project Status
Three projects are currently underway at AlexRenew’s Water Resource Recovery Facility (WRRF) to pave the way for the Tunnel System Project.

108 to 116 MGD Expansion
Increases primary pumping capacity to 116 MGD in preparation for the Tunnel System Project.
Vendor: ACE
Contract Amount: $2,665,000
Construction Finish Date: Dec. 2020
Latest Project Updates:
• All pumps upgraded with new pull-out assemblies
• Finalizing HVAC equipment installation

Building J Facilities Relocation and Decommissioning
Relocation of laboratory and locker rooms and demolition of former administrative building to provide space to build the Tunnel System Project.
Vendor: Clark Construction
Contract Amount: $19,409,800
Construction Finish Date: April 2021
Latest Project Updates:
• New laboratory, locker rooms, and other staff facilities nearing completion
• Preparing for staff relocation into new facilities

WRRF Site Security and Access
Upgrades to existing access points and security systems at the WRRF in preparation for increased campus activity for the Tunnel System Project.
Vendor: Sorensen Gross Company
Contract Amount: $1,527,000
Construction Finish Date: Sept. 2020
Latest Project Updates:
• All access gates and security booths complete
• Finalizing pedestrian walkways between facilities
Map of AlexRenew Construction Projects

- **WRRF Site Security and Access Project**
- **108 to 116 MGD Expansion Project**
- **Building J Facilities Relocation and Decommissioning Project**

Other construction projects at WRRF

Project staging areas

- New East Gate Entrance
- Relocated Laboratory in Building G2
- New Locker Room Assembly
- Primary Effluent Pump Replacement

WRRF Site Security and Access Project

108 to 116 MGD Expansion Project

Building J Facilities Relocation and Decommissioning Project

Project staging areas
RiverRenew Program Costs to Date

Project Costs to Date

RiverRenew Spend-to-Date by Locality

RiverRenew Cash Flow Analysis

Current Planned Projection:  
- Planned Projection  
- Planned Projection +20%  
- Planned Projection -15%

Original Planned Projection (Nov 2018):  
- Original Planned Projection  
- Original Planned Projection +50%, -30%

$596.9M

$499.9M

$ 57,289,862

Total program spent-to-date as of 6/30/2020
RiverRenew Community Outreach

**Education**

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

**Highlights:**
- Introduced RiverRenew Mascot, Cloe the Tunnel Boring Machine
- Established Cloe’s Activity Corner on RiverRenew.com

**Digital Programming**

Digital programming keeps the community connected to RiverRenew, with regular program updates on RiverRenew.com, featured content on AlexRenew’s social media pages during “Tunnel Takeover Tuesdays,” and distribution of *The River Renewer*, a quarterly newsletter promoting updates and milestones to more than 450 contacts.

**Highlights:**
- RiverRenew Tunnels Ahead: On-Site Updates from AlexRenew’s Wastewater Treatment Plant
- Safety Updates with AlexRenew Construction Partners
- RiverRenew: Before and After AlexRenew’s Tunnel System Project

**Community Meetings**

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

**Highlights:**
- SAG Resolution on City Council Docket – 09/22/20
- SAG Applications Open – 09/23/20
- SAG Members Selected – 12/2020
- SAG Meeting #1 – 01/2021

**Community Events**

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

**Highlights:**
- Water Discovery Week – September 6–12, 2020
- United Infrastructure Week – September 14–21, 2020

**Community Days**

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

Robinson Terminal North Warehouse Demolition

One of the first steps toward healthier waterways involves the demolition of the Robinson Terminal North (RTN) warehouse. The RTN warehouse is located immediately east of Union Street between Oronoco Street and Pendleton Street and primarily served as a newsprint storage facility for the Washington Post from 1939 to 2013.

AlexRenew plans to demolish the steel structure to grade this Fall to pave the way for the Tunnel System Project to start in Spring 2021. While construction of the diversion facility is necessary to address the discharge of combined sewage at Outfall 001, the demolition work is not associated with the Tunnel System Project. AlexRenew is currently working with the City to finalize the permitting process and implementing a community outreach plan to inform residents and neighbors about the demolition. Keep an eye on riverrenew.com and AlexRenew’s Facebook and Twitter pages to learn more.

Solving a Century-Old Problem with RiverRenew

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

To learn more, visit www.RiverRenew.com

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