Paving the Way for the RiverRenew Tunnel Project

In spite of a government shutdown, an ongoing pandemic, and other hurdles, RiverRenew is on track to meet its aggressive deadline of July 1, 2025. Part of the work needed to keep RiverRenew on track involves the demolition of the Robinson Terminal North (RTN) warehouse. Prepping the RTN site for demolition began in late September, with construction work beginning in late October. AlexRenew construction partners Clark and ACECO will use an excavator with hydraulic attachments to remove portions of the structure piece by piece and then load them into a truck for recycling and/or disposal. The building is anticipated to be completely taken down by mid-November. Learn more about this important first step toward healthier waterways at www.RiverRenew.com/RTN-demo.

RiverRenew Program Schedule

SUMMARY OF UPCOMING ACTIVITIES

<table>
<thead>
<tr>
<th>Date</th>
<th>Upcoming Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/2020</td>
<td>Jones Point Park Site Investigations</td>
</tr>
<tr>
<td>11/2020</td>
<td>Building J Demolition</td>
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<tr>
<td>11/2020</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>
</tr>
<tr>
<td>12/2020</td>
<td>108-116 Project Completion</td>
</tr>
</tbody>
</table>

SUMMARY OF MAJOR PERMITTING DELAYS

<table>
<thead>
<tr>
<th>Issue:</th>
<th>Impact:</th>
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</thead>
<tbody>
<tr>
<td>Federal Government Shutdown 2019-2020</td>
<td>Delayed Environmental Assessment issuance by 2 months</td>
</tr>
<tr>
<td>Requirement for Programmatic Agreement Condition</td>
<td>Delayed Finding of No Significant Impact issuance by 9 months</td>
</tr>
<tr>
<td>Review Progress Hampered by COVID-19</td>
<td>Delayed National Park Service and United States Army Corps of Engineers permits by 7 months</td>
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October 2020

Tunnel System
108 to 116 MGD Expansion
Building J Facilities Relocation and Decommissioning
WRFF Site Security and Access

Delay due to quality and scheduling issues (not on critical path)

Planning  Design  Procurement  Construction  Delay (COVID-19)  Delay (Other)
The RiverRenew Tunnel System Project

Progress to Date

Major Permit Status
- U.S. Army Corps of Engineers Nationwide Permit #12 for Hooffs Run Interceptor issued October 2020
- National Park Service Archeological Resources Protection Act Permit for pre-construction investigations issued October 2020

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>Jun. 2019</td>
<td>Request for Qualifications Issued</td>
</tr>
<tr>
<td>Oct. 2019</td>
<td>Shortlist</td>
</tr>
<tr>
<td>Feb. 2020</td>
<td>Request for Proposals Issued</td>
</tr>
<tr>
<td>Jul. 2020</td>
<td>Last Addendum Issued</td>
</tr>
<tr>
<td>Sep. 2020</td>
<td>Proposals Submitted</td>
</tr>
<tr>
<td>Nov. 2020</td>
<td>AlexRenew Board Approval</td>
</tr>
<tr>
<td>Dec. 2020</td>
<td>Notice to Proceed</td>
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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.
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: December 2020
Latest Project Updates:
• Neared Substantial Completion: Pumps operational to deliver design intent
• Final completion anticipated December 2020

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: $19,767,046
Construction Finish Date: April 2021
Latest Project Updates:
• Lab, Operations, and Maintenance teams moved into new Building G/1 and G/2 facilities
• New Control Room anticipated to be complete in November 2020
• Building J demolition anticipated to begin in November 2020

WRRF Site Security and Access
Upgrades to existing access points and security systems at WRRF in preparation for increased campus activity for the Tunnel System Project.

Vendor: Sorensen Gross Company
Contract Amount: $1,527,000
Construction Finish Date: September 2020
Latest Project Updates:
• Finalizing commissioning and programming of gates
• Completing South Bridge pedestrian path
RiverRenew Program Costs to Date

**Project Costs to Date**

RiverRenew Spend-to-Date by Locality

- **Alexandria** (1 vendor)
  - $17.06M
- **Northern Virginia** (12 vendors)
  - Northern Virginia $12.74M
- **Maryland** (4 vendors)
  - Maryland $18.92M
- **Other Virginia** (7 vendors)
  - Other Virginia $2.86M
- **Washington, D.C.** (2 vendors)
  - Washington, D.C. $7.23M
- **Non-Local** (20 vendors)
  - Non-Local $7.84M

Total = 46 vendors to date

**RiverRenew Cash Flow Analysis**

Current Planned Projection:
- August 2020 Planned Projection
- August 2020 Planned Projection +20%
- August 2020 Planned Projection -15%
- Anticipated Projection based on Tunnel System Project Award

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

Total program spend-to-date as of 9/30/2020 (including easements and agreements)

*Spending plan based on post-addendum opinion of probable cost (August 2020)*
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:**
- Expanding the Cloe & Friends RTN campaign to include a downloadable learning activity 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:**
- A program update informing of the mobilization of construction crews to the Holland Lane staging lot
- Promoted RTN demo educational materials for all ages on social media

**Community Meetings**

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

**Highlights:**
- SAG applications close November 6

**RiverRenew Stakeholder Advisory Group**

*Represent your community.*

**Community Events**

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

**Highlights:**
- Sto Len, AlexRenew Artist-in-Residence, *Renewal Exhibit* at the Torpedo Factory – October 10 - December 27
- Imagine a Day Without Water – October 21
- National Drug Takeback Day – October 24

**Looking Ahead:**
- World Toilet Day – November 19

**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

Demolishing AlexRenew’s Building J

Following the relocation of AlexRenew’s essential workers and facilities to Buildings G/1 and G/2, Building J is being prepared for demolition. Building J housed AlexRenew’s laboratory, locker rooms, and other facilities for over 20 years. Following the disconnection of utilities, Building J will be dismantled using an excavator with hydraulic attachments that will remove portions of the structure piece by piece and then load them into a truck for recycling and/or disposal. The removal of Building J will pave the way for tunnel work to start at AlexRenew. The site will be used to build two large shafts, 65 and 35 feet in diameter and 12 stories deep. These shafts will serve two purposes:

• to construct the Waterfront Tunnel, and
• to house new pumping stations.

Demolition of Building J is anticipated to be complete in January 2021.

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