Perth Amboy and the Middlesex County Utilities Authority Long Term Control Plan Fact Sheet

What is at Stake
When it rains in Perth Amboy, the combined sewer system overflows into nearby waterways and localized flooding can have a combination of sewage and stormwater. This is known as a combined sewer overflow (CSO). The Middlesex County Utilities Authority is the sewer treatment plant that treats wastewater and stormwater from Perth Amboy. Perth Amboy is responsible for the sewer system. Perth Amboy and the Middlesex County Utilities Authority, two of 25 CSO permittees, have submitted a Long Term Control Plan (LTCP) proposing large water infrastructure projects to reduce and/or eliminate CSOs. As of October 2020, the plan is under review by the New Jersey Department of Environmental Protection (NJDEP) and will be finalized in 2021.

Each of the selected options will cost millions of dollars and impact neighborhoods for decades. Please use this fact sheet to assist in developing comments to submit to the New Jersey Department of Environmental Protection.

The Basics

Annual CSO Volume in Perth Amboy

<table>
<thead>
<tr>
<th>Volume (MG) in a Typical Year</th>
<th>Existing</th>
<th>After LTCP Implementation - Storage</th>
<th>After LTCP Implementation - Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>386</td>
<td>131</td>
<td>106</td>
<td></td>
</tr>
</tbody>
</table>

$66\%$ CSO volume reduction
$73\%$ CSO volume reduction

Perth Amboy Projects by Capital Cost

- CSO Group 1 High Rate Treatment: $3.1$ million ($9\%$)
- CSO Group 2 High Rate Treatment: $4.1$ million ($1\%$)
- CSO Group 3 Satellite Storage: $180.4$ million ($53\%$)
- CSO Group 4 & 5 Satellite Storage: $69.1$ million ($20\%$)
- Sewer Separation: $2.4$ million ($0.7\%$)
- Green Infrastructure: $18.3$ million ($5\%$)
- Main Pump Station & Force Main: $35.1$ million ($10\%$)

Project Timeline

2020 - 2060
- Sewer Rehabilitation
- Green Infrastructure

2023 - 2029
- Main St. Pump Station & Force Main to MCUA

2037 - 2043
- CSO Group 3 Satellite Storage

2051 - 2057
- CSO Group 2 High Rate Treatment

2044 - 2050
- CSO Group 1 High Rate Treatment

Figure 1. Annual CSO volume (million gallons) in Perth Amboy. In a typical year under existing conditions, Perth Amboy has an overflow volume of 386 million gallons. Under the storage option, the anticipated overflow volume after LTCP implementation is 131 million gallons, representing a volume reduction of 66%. Under the treatment option, the anticipated overflow volume after LTCP implementation is 106 million gallons, representing a volume reduction of 73%.

Figure 2. Perth Amboy plan projects by capital cost ($ million), with relative percentages by cost. Collectively, the plan will cost $341.5 million, including 20-year present worth operations and maintenance costs, the plan will cost $376.7 million. Refer to Table 2 in the appendix for a full list of projects and associated costs.
Sewage-Free Streets and Rivers is organized by its partners and an advisory board, with the support of New Jersey Future.

Green Infrastructure
The plan calls for green infrastructure (GI) to be implemented on 46.8 acres or 10% of the directly connected impervious area within the city over 38 years. The first two years of the plan would be for the identification and design of GI.

Financing
The plan would be funded through proposed rate increases, bonds, and grants and loans from the NJ Infrastructure Bank.

Public Participation
The plan notes that the feedback received from Supplemental CSO Team meetings focused on clarifying the many aspects of the LTCP process and options discussed during the meetings, ensuring that the elements be functional and resilient, and resilient to impacts due to climate change, priority areas for green infrastructure, protecting the beach area as a sensitive area and its use for public bathing, and co-locating public amenities with CSO facilities to the greatest extent possible.

Environmental Justice Considerations
Environmental justice is not mentioned in the report.

Climate Change Considerations
Climate change is noted as a factor that could influence the implementation schedule.

How to Submit Comments
- Download and Review Long Term Control Plans at https://www.nj.gov/dep/dwq/cso-ltcpsubmittals.htm
- Comments on the LTCPs can be submitted to these NJDEP CSO Team Leaders. Copy Susan Rosenwinkel Susan.Rosenwinkel@dep.nj.gov, bureau chief of surface water permitting at NJDEP, and the relevant permittee contact.
- NJDEP will review comments through January 31, 2021.
- After submitting comments to NJDEP and your CSO permit holder, make sure to share your comments with your local officials, environmental commission, and planning/zoning boards.

Additional Information
- City of Perth Amboy Sewer Utility webpage
- Perth Amboy CSO contact: Middlesex Water Superintendent of Distribution/Collections Ken Miele, kmiele@middlesexwater.com
- Long Term Control Plan submittals
- Jersey Water Works CSO Review page

For more information, visit https://sewagefreenj.org
### Appendix

**Table 1. MCUA/Perth Amboy LTCP Basics - Outfalls, Overflows, and Total Costs**

<table>
<thead>
<tr>
<th>Outfalls</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual overflow volume — existing conditions</td>
<td>386 MG</td>
</tr>
</tbody>
</table>
| Annual overflow volume — after implementation | 1 131 MG  
 2 106 MG |
| Percent overflow volume reduction      | 1 66%  
 2 73% |
| Percent capture after implementation,  | 1 85%  
 2 88% |
| as reported in the plan (min. of 85% required) |    |
| Project costs                           | $341.5 million |

MG = million gallons  
1 = storage option  
2 = treatment option

**Table 2. MCUA/Perth Amboy LTCP Project Costs and Implementation Schedule**

<table>
<thead>
<tr>
<th>Project</th>
<th>Capital Cost ($ million)</th>
<th>Start Year</th>
<th>End Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sewer Rehabilitation</td>
<td>2.4</td>
<td>2020</td>
<td>2060</td>
</tr>
<tr>
<td>Green Infrastructure</td>
<td>18.3</td>
<td>2020</td>
<td>2060</td>
</tr>
<tr>
<td>Main Street Pumping Station</td>
<td>35.1</td>
<td>2023</td>
<td>2029</td>
</tr>
<tr>
<td>Force Main to MCUA (20 MGD)</td>
<td></td>
<td>2023</td>
<td>2029</td>
</tr>
<tr>
<td>CSO Group 4 &amp; 5 (0 overflows/year)</td>
<td>69.1</td>
<td>2030</td>
<td>2036</td>
</tr>
<tr>
<td>CSO Group 3 (0 overflows/year)</td>
<td>180.4</td>
<td>2037</td>
<td>2043</td>
</tr>
<tr>
<td>CSO Group 1 (20 overflows/year)</td>
<td>4.1</td>
<td>2044</td>
<td>2050</td>
</tr>
<tr>
<td>CSO Group 2 (20 overflows/year)</td>
<td>32.1</td>
<td>2051</td>
<td>2057</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>341.5</strong></td>
<td><strong>38 years</strong></td>
<td></td>
</tr>
</tbody>
</table>

MGD = million gallons daily