City of St John (WA) - Headworks’ Upgrade

Scope of Work

Previous installation

Installation of the Mechanical Bar Screen Screentec

Conclusion
• **Scope of Work**
  • Install a mechanical bar screen in place of a grinder
  • City has to comply with the Biosolids rule*
  • Retrofit the equipment with no changes on the structure

* All biosolids (including septage) or sewage sludge must be treated by a process such as physical screening (3/8″) to significantly remove manufactured inerts prior to final disposition.
(Department of Ecology – State of Washington)
**St John - Technical ID**

<table>
<thead>
<tr>
<th>HYDRAULIC CONDITIONS</th>
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</thead>
<tbody>
<tr>
<td>Influent: Raw Municipal</td>
</tr>
<tr>
<td>Average flow: 0.07 mgd</td>
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<tr>
<td>Maximum flow: 0.28 mgd</td>
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<tr>
<td>Influent inlet: Upstream</td>
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<tr>
<td>Waste discharge: Downstream</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SPACE REQUIREMENTS - FOOTPRINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth: 1’ – 8” (508 mm)</td>
</tr>
<tr>
<td>Length: 3’ – 5” 15/16 (1066 mm)</td>
</tr>
<tr>
<td>Channel Width: 2’ – 4” (711 mm)</td>
</tr>
<tr>
<td>Equipment Width: 1’ – 3” 3/4 (400 mm)</td>
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<tr>
<td>Height of discharge: 3’ – 11” (1200 mm)</td>
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<tr>
<td>Installation angle: 90°</td>
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<tr>
<td>Weight: 440 lbs (200 kg)</td>
</tr>
</tbody>
</table>
• City of St John (WA) - Headworks’ Upgrade
  • Scope of Work
  • Previous installation
  • Installation of the Mechanical Bar Screen Screentec
  • Conclusion
• Previous Installation
  • Headworks with a grinder
• Previous Installation
  • Issues
    • Debris and rags not collected
    • Biosolids rule
    • Small footprint
• City of St John (WA) - Headworks’ Upgrade
  • Scope of Work
  • Previous installation
  • Installation of the Mechanical Bar Screen Screentec
  • Conclusion
• Installation of the Screentec

Aqualitec’s R&D suggested the Vertical Mechanical Bar Screen **Screentec**, the Unique Screening solution on the market that can retrofit any kind of structure.
Installation of the Screentec

The washer compactor Compactec is integrated to the Bar Screen.
• Installation of the Screentec
• Installation of the Screentec
Installation of the Screentec

Previous

Current
• Installation of the Screentec

• Issues
  • Debris & rags not collected ——> All solids collected
  • Biosolids rule ————> City complies
  • Small footprint ————> No Structural changes
City of St John (WA) - Headworks’ Upgrade

- Scope of Work
- Previous installation
- Installation of the Mechanical Bar Screen Screentec

Conclusion
• Conclusion

• 5 Reasons to buy Screentec:
  1. Protects pumps from rags and debris
  2. Fits into narrow and deep structures
  3. Requires minimal and easy maintenance
  4. Customizes to any footprint (small to large)
  5. Easy to install

• Contact Informations

Request to have an Aqualitec Engineer contact you. Click
Or call: 1-877-2782-214