

Emergency Backup Water Supply

Commission Meeting
January 22, 2019



Emergency Backup Water Supply

Request:

- Prepare design and construction bid documents
- Advertise and award construction contract
- Utilize Port Construction Services to perform work

Background:

- Airport has no backup water supply for potable use/fire protection
- Airport's 2 million-gallon reservoir can supply water for 3 days
- If a water outage from Seattle Public Utilities is extended beyond 3 days, airport operations would be severely restricted.
- This project will develop the Tye Golf Course Well into an emergency backup water supply for potable use and fire protection.

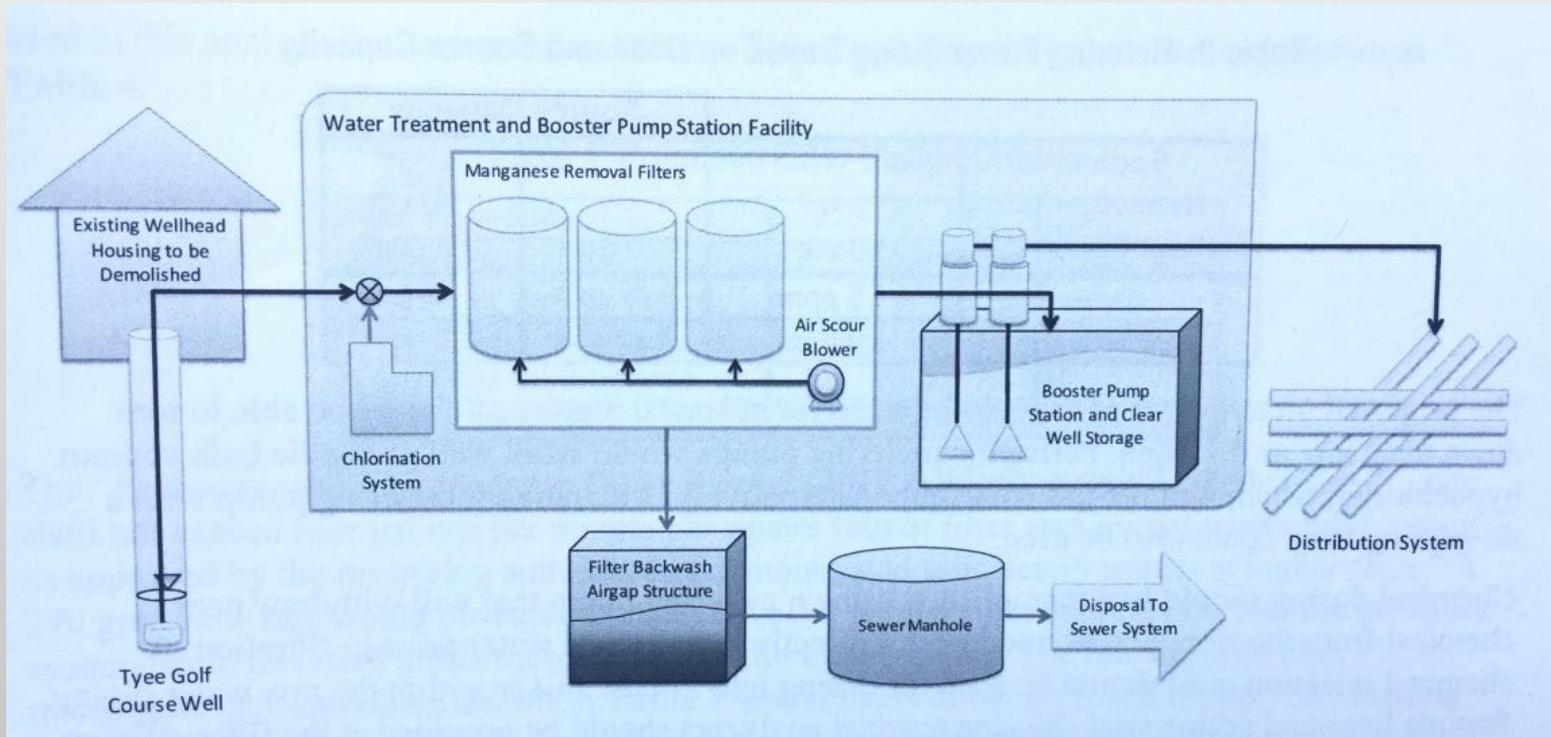
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- Maximum 350 gal/min capacity
- Source water contains approx. 0.09 mg/L manganese
- Secondary MCL for manganese is 0.05 mg/L
- Well not connected to Port water system

Existing well and pump house

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Conceptual Design

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- Design Start Q1 2019
- Design Complete Q1 2020
- Commission Approval (Construction) Q1 2020
- Construction Start Q2 2020
- Construction Complete Q3 2021
- Asset in use Q3 2021

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• Design Cost (Estimated)	\$ 861,000
• Construction Cost (Estimated)	\$ 1,878,000
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• TOTAL PROJECT COST	\$ 2,739,000
• Costs Incurred To Date	\$ 75,000

Project Budget