

Shenandoah Project Update

Water Pipe Construction Projects

City Council September 27, 2016

24" Pipeline Project Cost ENR = 10337

| | |
|----------------------------------|----------|
| Power Dam Pump Station Phase 3 | \$ 2.3M |
| Good's Mill Pump Station Phase 3 | \$ 1.6M |
| Waterline PDPS –GMPS | \$ 9.3M |
| Waterline GMPS-SCR | \$ 3.7M |
| Waterline SCR – City ECL | \$ 4.6M |
| Sub-Total | \$ 21.5M |



Pipeline
\$18M

Not included: Funding for pump stations (\$5M) to be funded in 2020 (with added project for Western Raw Waterline).

Shenandoah Pipeline Project



Project Construction

| Project | Begin Construction | End Construction |
|---|--------------------|------------------|
| <u>Phase 1:</u> ECL To Port Road | May 2018 (1) | January 2019 |
| <u>Phase 2:</u> Spader's Church To Cross Keys Road | August 2018 (2) | April 2019 |
| <u>Phase 3:</u> Cross Keys Road To Shenandoah River | November 2018 (2) | January 2021 |

- 1) Current funding strategy may accelerate project schedule
- 2) Current funding strategy may delay project schedule

Prerequisites to Construction

Stakeholders

Private Property

VDOT

Utilities

VDH Source Water

VDH Construction

Pipe Procurement

Design

35%

70%

90%

BID

Administrative

Rate Plan

Funding

Bidding

Project Status Overview

| Project | Length | Cost | % R-O-W | % Private Property | Easements In Hand | Easements To Acquire |
|-------------------------------------|--------|--------------|-------------|--------------------|-------------------|----------------------|
| ECL To Port Road | 16,250 | \$5,196,749 | 1% | 99% | 12 | 2 |
| Spader's Church To Cross Keys Road | 10,188 | \$4,840,817 | <u>100%</u> | 0% | 0 | 0 |
| | 10,188 | \$3,919,736 | 45% | 55% | 0 | 5 |
| Cross Keys Road To Shenandoah River | 36,350 | \$10,194,180 | 1% | 99% | 20 | 1 |

Shenandoah Waterline Project

SHENANDOAH PIPELINE PROJECT 256-9900 (9.24.2017)

