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**City of Harrisonburg**  
**Department of Public Utilities**  
**Parkview Tank and Pump Station Replacement**  
**Project Update**  
**July 2015**

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# Project Overview

## Project Driver #1 – Fire Protection

| <i>Statistical Fire Flow Data</i> |                          |                          |                          |
|-----------------------------------|--------------------------|--------------------------|--------------------------|
|                                   | <b>Minimum Fire Flow</b> | <b>Maximum Fire Flow</b> | <b>Average Fire Flow</b> |
| Current                           | 566 gpm                  | 1,203 gpm                | 1,032 gpm                |
| Proposed                          | 805 gpm                  | 3,500 gpm                | 2,337 gpm                |

***This project will increase fire flow by 122%***

| <i>Fire Flow Supply Data</i> |                     |             |                |                  |
|------------------------------|---------------------|-------------|----------------|------------------|
|                              | <b>Pump Station</b> | <b>Tank</b> | <b>750 GPM</b> | <b>3,000 GPM</b> |
| Existing                     | 300 gpm             | 61,000 gal  | 1.4 – 2.3 hrs  | 0.3 - .04 hrs    |
| New                          | 750 gpm             | 500,000 gal | 11.1 - + hrs   | 2.8 – 3.7 hrs    |

***Fire supply duration will meet ISO***

## Project Driver #2 – Asset Management

### *Existing Parkview Tank*

|                                       |  |                    |
|---------------------------------------|--|--------------------|
| Original Useful Life                  | 1960-2035  | 75 yrs Useful Life |
| Theoretical / Actual Condition Rating | 4.05 / 4.50                                      | (1-New, 5 Abandon) |
| <b>Immediate Investment:</b>          | <b>\$267, 500 to return the tank to 4.05 +/-</b> |                    |

### *Existing Parkview Pump Station*

|                                       |                 |                    |
|---------------------------------------|-----------------|--------------------|
| Original Useful Life                  | 1960-2010       | 50 yrs Useful Life |
| Theoretical / Actual Condition Rating | 5.0 / 4.7       | (1-New, 5 Abandon) |
| <b>Status:</b>                        | <b>Obsolete</b> |                    |



# Current Schedule & Financing

| Project Activity                                  | Start     | Finish     | Financing     |
|---|-----------|------------|---------------|
| <i>PER Approval by VDH</i>                        | 1/29/2015 | 4/21/2015  |               |
| <i>Access Road and Tank Site Design *</i>         | 6/1/2015  | 8/31/2015  |               |
| <i>Access Road and Tank Site Construction (F)</i> | 9/1/2015  | 12/31/2015 |               |
| <i>Pump Station Site Design</i>                   | 9/1/2015  | 2/1/2016   |               |
| <i>Pump Station Site Construction (F)</i>         | 2/2/2016  | 3/31/2016  | Interim       |
| <i>Waterline Design</i>                           | 9/1/2015  | 2/1/2016   |               |
| <i>Waterline Construction (F)</i>                 | 2/2/2016  | 12/31/2016 |               |
| <i>Tank Design *</i>                              | 7/1/2015  | 11/30/2015 |               |
|   |           |            | \$580,000     |
| <i>Tank Contract Bid</i>                          | 12/1/2015 | 3/31/2016  |               |
| <i>Land Acquisition Closure</i>                   | 12/1/2015 | 3/31/2015  |               |
| <i>Tank Construction</i>                          | 4/1/2016  | 12/31/2015 | Total Project |
| <i>Pump Station Design *</i>                      | 7/1/2015  | 11/30/2015 | Bond Funds    |
| <i>Pump Station Contract Bid</i>                  | 12/1/2015 | 3/31/2016  | January 2016  |
| <i>Pump Station Construction</i>                  | 4/1/2016  | 12/31/2016 |               |
| <i>Demolition of Existing Parkview Tank</i>       | TBD       | TBD        |               |
|   |           |            | \$3,542,000   |

***The project is to be complete by the end of 2016!***

*\* - Indicates activities that have started  
(F) – Indicates Force Account Savings Totaling \$387,000.*



# Parkview Pump Station New Location

