# Village of Ridgefield Park Supplemental CSO Team

# Meeting Number 10

## Commissioner's Conference Room

# Village of Ridgefield Park Municipal Building

February 5, 2020 10:00 AM

Attendees – See attached sign in sheet

Presentation slides attached

# **Group Meeting Minutes**

- 1. Introductions
  - a. Meeting began at 10:00 AM with John Dening welcoming new attendees and introductions.
  - b. John Dening expressed his appreciation for the SCSO team commitment to addressing CSO issues. He reminded everyone the end of current phase of the Long Term Control Plan (LTCP) is June 1 and noted that most of the Team has been participating for the entire process.
  - c. John Dening stated that the revised Development of Alternatives Report which addressed NJDEP comments was submitted to the NJDEP on November 27, 2019.
  - d. John Dening opened the meeting with a safety minute presentation on jump starting the car, see attached presentation.
  - e. John Dening presented a summary of the topics discussed at the previous meeting. John explained the purpose of this meeting and the role of the SCSO team. John opened for questions on prior meeting, but no questions were asked at this time.
  - f. John Dening indicated that meeting minutes are posted on the Ridgefield Park website.
- 2. Presentation by John Dening on the Preliminary Selection of Alternatives, see attached presentation.
- 3. Discussion and Questions The following outlines questions that were asked during the presentation and the discussions that followed:
  - a. Question: Will NYC CSO influence on WQ in Hudson River change overtime?

Answer: The water quality in Hudson River will experience changes as a result of implementation of long-term control projects in both New Jersey and New York as well as from other factors such as stormwater controls. Ridgefield Park CSO program is a part of a larger effort to improve the

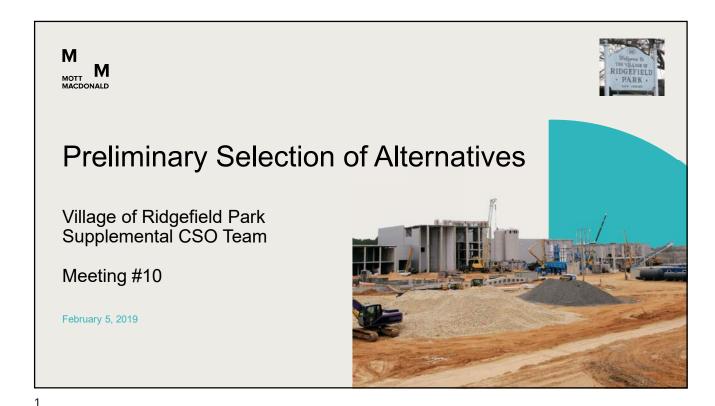
WQ.

- b. Resident Comment: Costs need to be ranked highly as they will be of great interest to the residents.
- c. Resident Comment: We are concerned about the potential impact of future regulations.
- d. Resident Comment: It looks like Program #2 is the best candidate.
- e. Resident Comment: The Village Master Plan calls for open space along the waterfront, which includes both consolidation sites. The resident recognized potential for belowground CSO storage tanks to be integrated into future Village open space projects.
- f. Resident Comment: Maintenance costs should be considered as well as construction costs. Ability to maintain complex equipment is a concern.
  - Response: Preliminary alternative cost estimates include 20 years of maintenance costs.
- g. Resident Comment: Apache Auto Wreckers along the Hackensack River waterfront and the vacant land along the Overpeck Creek, as identified in the reports, seem to be the most appropriate locations for future CSO.
- h. Resident Comment: According to preliminary estimates, complete sewer separation is a costly alternative. It will also require additional measures to address stormwater quality.
- i. Question: Will there be an odor issue with End of Line Treatment facilities?
  - Answer: Potentially, these facilities would be designed with odor control. Some, such as disinfect may also be covered to mitigate odors.
- j. Resident Comment: Agree that green infrastructure could work as supplementary to other alternatives due to its cost and limited impact on CSO volumes. It could be considered in some areas as educational tool to raise public WQ awareness.
- k. SCSO Team members proposed different options for CSO material distribution to the Village residents. The following information outlets were discussed:
  - regional newspaper there is no longer a local paper.
  - church letter St. Francis church was mentioned.
  - advertising flyer
  - Digital bulleting board in front of the municipal building.
  - Direct mailing.

- Village newsletter
- 1. John Dening stressed that public participation is an important part of the process and that it is not limited to the SCSO team.
- 4. The next meeting is planned for late March early April. The intent is to use the meeting to build the presentation for the public meeting on May 5th. John Dening will reach out with some dates.
- 5. Meeting concluded at 11:20 AM.

# Village of Ridgefield Park Supplemental CSO Team Meeting Number 10 – Alternatives Analysis Commissioner's Conference Room Village of Ridgefield Park Municipal Building February 5, 2020; 10:00 AM

| Initials | Name                      | Organization                                   | Email                             |
|----------|---------------------------|--|-----------------------------------|
| 90       | John Dening               | Mott<br>MacDonald                              | John.dening@mottmac.com           |
|          | Donna<br>Gregory          | Mott<br>MacDonald                              | donna.gregory@mottmac.com         |
| m        | Flo Muller                | Ridgefield Park<br>Shade Tree<br>Commission    | flomart@nj.rr.com                 |
| 0        | Mark Olson                | Chairman,<br>Green Team                        | mark-olson@verizon.net            |
| 50       | Stephen<br>Quinn          | Ridgefield Park<br>Environmental<br>Commission | stephencquinn@aol.com             |
| £Q.      | Linda Quinn               | Ridgefield Park<br>Environmental<br>Commission | linda.quinn125@gmail.com          |
| 1        | John<br>Ponticorvo        | Wanda Canoe<br>Club                            | jponticorvo@aol.com               |
| Aoh      | Alan<br>O'Grady           | Village of<br>Ridgefield Park<br>DPW           | aog560@aol.com                    |
| ил       | Mike<br>Monroe            | Village of<br>Ridgefield Park<br>DPW           | ed81563@gmail.com                 |
| Ø        | Dayvonn<br>Jones          | NJDEP  | dayvonn.jones@dep.nj.gov          |
| M        | Johnathan<br>Lakhicharran | NJDEP  | johnathan.lakhicharran@dep.nj.gov |
| PZ.      | Pavel<br>Elimber.         | Moti<br>MotDonald                              | pavel-zhinhel@mottwaccon.         |
|          |                           |  |                                   |
|          |                           |  |                                   |



Ridgefield Park Supplemental CSO Team Meeting No. 10 Agenda Introduction Safety moment · Review of Last Meeting Water Quality Modeling **Selection of Alternatives** Input on Alternatives

• Financial Capabilities Analysis Selection and Implementation of Alternatives

Future Public Involvement

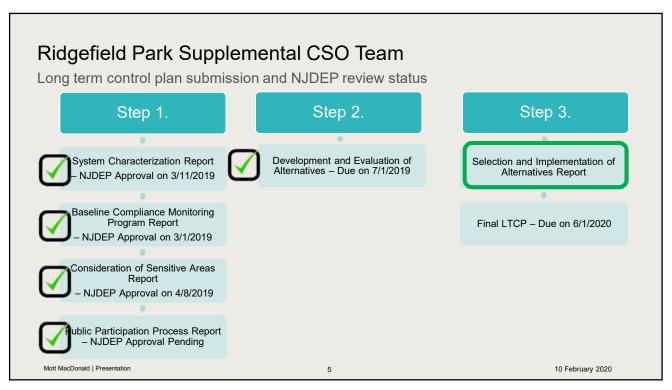
**Upcoming Schedule** 

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# **Models** Hydrodynamic Model (ECOMSED) Water Elevation Currents Temperature Salinity WQ Model (RCA) Salinity Tracer E. coli Fecal coliform Enterococci Both models are run on the same grid (segmentation) 10 vertical layers 7

Factors that affect bacteria

Natural die-off
Temperature
Solar radiation
Salinity
Settling

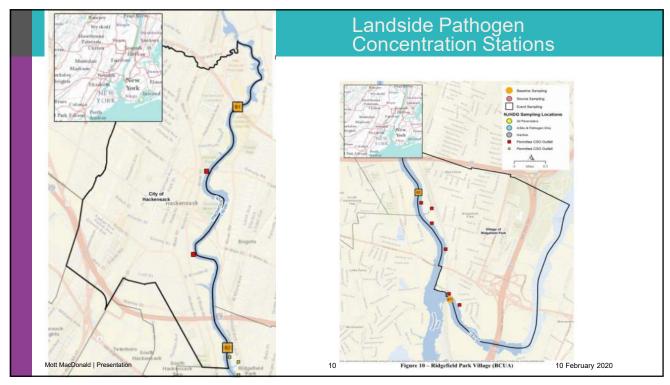
Solar Radiation as Reduced by Cloud Cover and Water Column Light Attenuation
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Solar Radiation as Reduced by Cloud Cover and Water Column Light Attenuation
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# Required Hydrodynamic Model Inputs

- Physical Dimensions
  - Shoreline
  - Bathymetry
- Boundary Conditions
  - Tides
  - Temperature
  - Salinity
- Freshwater Sources
  - Rivers
  - CSOs
  - Storm Sewers
  - Direct Drainage
  - WWTPs
- Meteorology

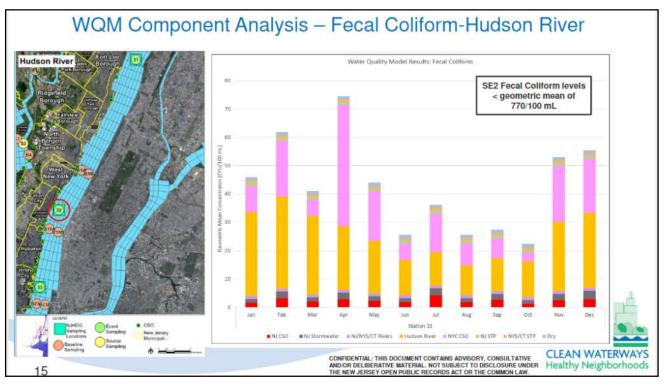


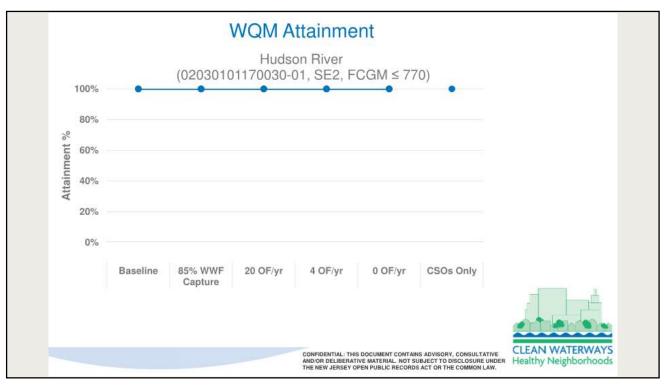
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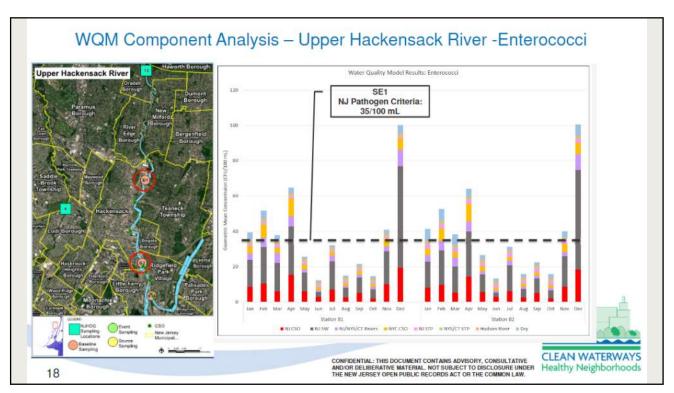


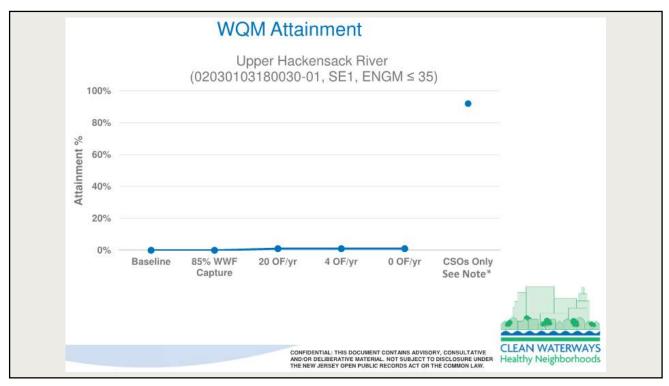
# **WQM** Component Analysis WQ Component Analysis: E. coli Fecal Enterococci Components: NJ CSO NJ SW/Runoff NJ STP NJ/NY/CT Rivers Hudson River Dry-weather NYC CSO+SW NY/CT STP **CLEAN WATERWAYS** CONFIDENTIAL: THIS DOCUMENT CONTAINS ADVISORY, CONSULTATIVE AND/OR DELIBERATIVE MATERIAL. NOT SUBJECT TO DISCLOSURE UNDER THE NEW JERSEY OPEN PUBLIC RECORDS ACT OR THE COMMON LAW.

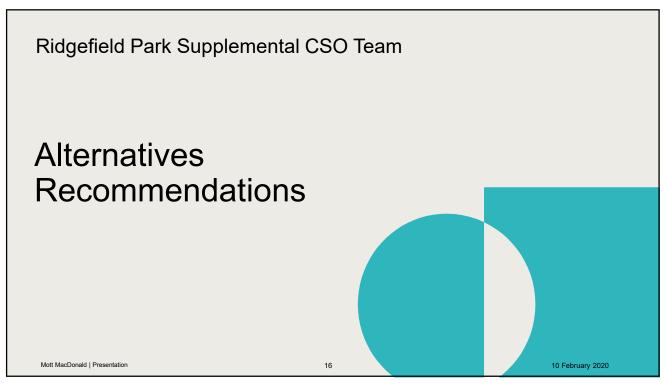
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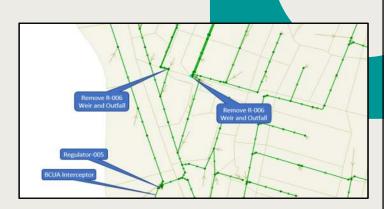




Control Program 1 - Elimination of Outfall 006A

Small overflow volume at 006A

- Pros:
  - Work in public right-of-way; no new land needed
  - Opportunity for current system renewal and reconstruction
  - Elimination of outfall
- Cons
  - Mild disruptive to roads and traffic
  - Minor separation might be required, need for stormwater controls and treatment.



# **RECOMMEND - RETAIN TO REDUCE CONSOLIDATION COSTS**

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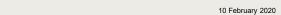
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# **Alternatives Evaluation**

Control Program 2 - Consolidated Tank Storage

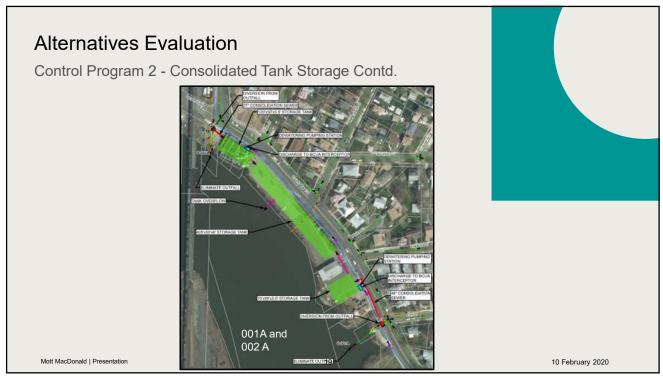
Tanks retain overflows and return them to sewer and WWTP

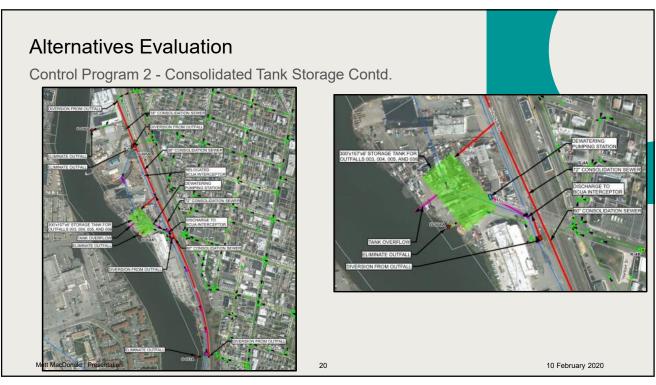
- Pros:
  - Relatively simple
  - Elimination of outfalls, 6 reduced to 2
  - Area above tank can be used for other purposes
  - Effective CSO reduction
- Cons:
  - Challenging construction
  - Disruption to streets from consolidation piping



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# Alternatives Evaluation Control Program 2 - Consolidated Tank Storage Contd.



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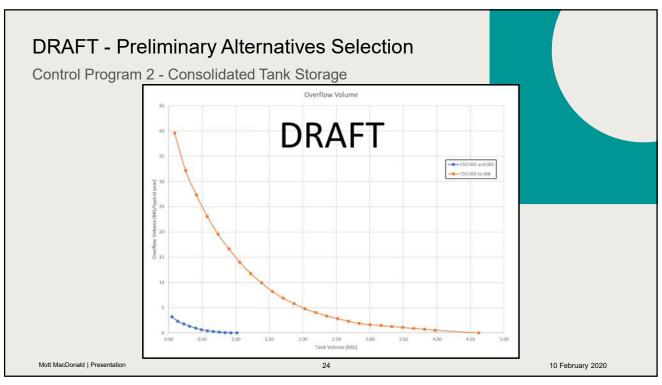
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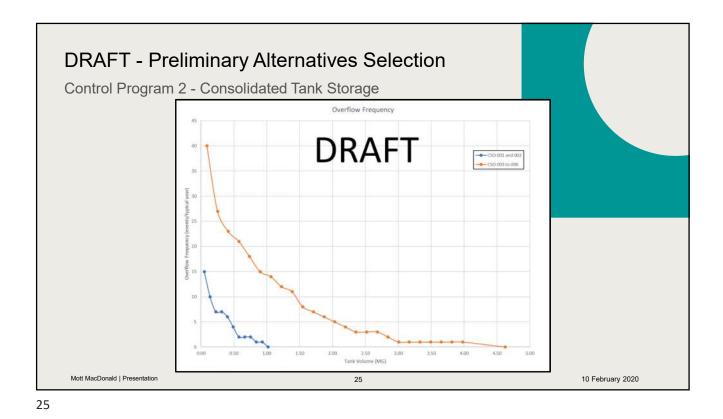
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Control Program 2 - Consolidated Tank Storage

Tanks retain overflows and return them to sewer and WWTP

| Control Program 2 - End of Pipe Storage (Consolidated Sites) |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|
| Overflows per Year   | 0      | 4      | 8      | 12     | 20     |
| Capital Cost (\$ Million)                                    | \$73.8 | \$46.6 | \$45.4 | \$40.6 | \$29.1 |
| O&M Cost (\$ Million)  | \$0.7  | \$0.4  | \$0.4  | \$0.4  | \$0.3  |
| Net Present Worth (\$ Million)                               | \$83.9 | \$53.9 | \$51.8 | \$46.6 | \$34.2 |

\$34-\$84 M (Class 5 Cost Estimate: -50%+100%)

\$1.1-1.7/gal of CSO removed during typical year.

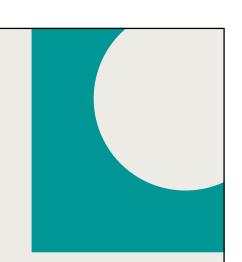
RECOMMEND – RETAIN, BEST RATING AND LESS COMPLEX

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Control Program 3 - Consolidated Tunnel Storage

# All outfalls will be consolidated into one, central tunnel

- Pros:
  - Minimal surface impacts
  - Elimination of outfalls, 6 reduced to 1
- Cons
  - Challenging construction
  - More complex system, deep pumping station, screenings and grit
  - Higher cost

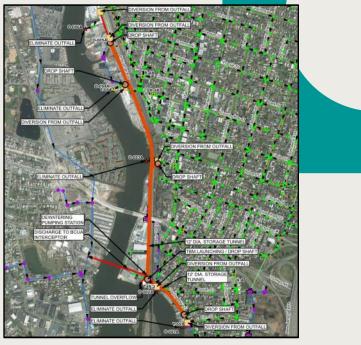


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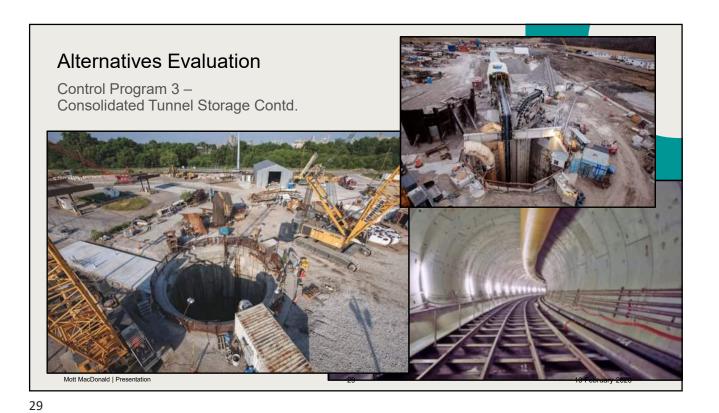
# **Alternatives Evaluation**

Control Program 3 – Consolidated Tunnel Storage Contd.



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Control Program 3 - Consolidated Tunnel Storage

All outfalls will be consolidated into one, central tunnel

| Control Program 3 - Tunnel     |         |        |        |        |        |
|--------------------------------|---------|--------|--------|--------|--------|
| Overflows per Year             | 0       | 4      | 8      | 12     | 20     |
| Capital Cost (\$ Million)      | \$88.4  | \$72.3 | \$72.3 | \$67.3 | \$62.3 |
| O&M Cost (\$ Million)          | \$2.0   | \$1.7  | \$1.7  | \$1.7  | \$1.6  |
| Net Present Worth (\$ Million) | \$118.5 | \$98.6 | \$98.6 | \$92.5 | \$86.3 |

\$86-\$118 M (Class 5 Cost Estimate: -50%+100%)

\$2.20-\$2.40/gal of CSO removed during typical year.

RECOMMEND - ELIMINATE DUE TO COST AND COMPLEXITY

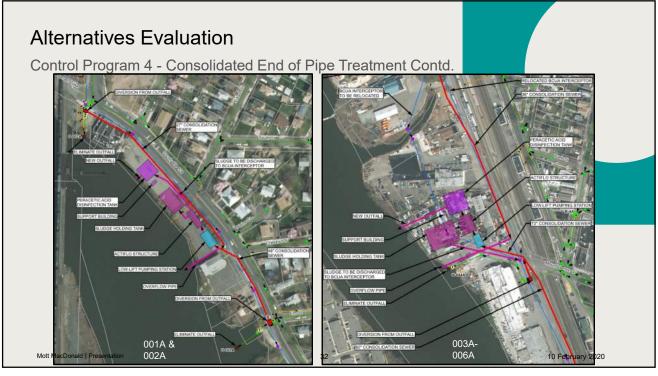
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# Alternatives Evaluation Control Program 4 - Consolidated End of Pipe Treatment Contd. Pros: Elimination of outfalls, 6 reduced to 2 Provides full or partial treatment at all times Cons: Most complex system Surface facilities Higher cost Potential future effluent limits Most MacDonald | Presentation Using Treatment - Example

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Control Program 4 - Consolidated End of Pipe Treatment Contd.





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# **Alternatives Evaluation**

Control Program 4 - Consolidated End of Pipe Treatment

| Control Program 4 - End of Pipe Treatment (Consolidated Sites) |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|
| Overflows per Year   | 0      | 4      | 8      | 12     | 20     |
| Capital Cost (\$ Million)                                      | \$75.2 | \$65.8 | \$65.8 | \$65.5 | \$49.7 |
| O&M Cost (\$ Million)  | \$0.8  | \$0.7  | \$0.7  | \$0.7  | \$0.6  |
| Net Present Worth (\$ Million)                                 | \$87.3 | \$77.0 | \$77.0 | \$76.7 | \$59.5 |

\$60-\$87 M (Class 5 Cost Estimate: -50%+100%)

\$1.30-\$1.70/gal of CSO removed during typical year.

**RECOMMEND - ELIMINATE DUE TO COST AND COMPLEXITY** 

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Control Program 5 - Sewer Separation

Effectively removes the Village from being a CSO community

- Pros
  - Work in public right-of-way; no new land needed
  - Opportunity for current system renewal and reconstruction
  - Elimination of outfalls
- · Cons:
  - Highly disruptive to roads and traffic
  - Need to redirect every sanitary service connection on the street
  - Need for stormwater controls and treatment in the future
  - Issues are general for large-scale construction in urban areas
  - Pollutant loads (excepting some pathogens) to receiving water will increase

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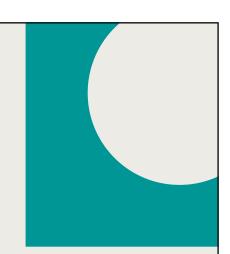
# **Alternatives Evaluation**

Control Program 5 - Sewer Separation

Effectively removes the Village from being a CSO community

\$193M (Class 5 Cost Estimate: -50%+100%)

\$3.8/gal of CSO removed during typical year



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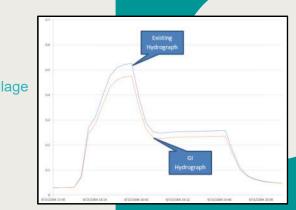
# RECOMMEND - ELIMINATE DUE TO COST AND DISRUPTION FUTURE WATER QUALITY CONCERNS

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Control Program 6 - Green Infrastructure

Distributed storage or detention throughout the village

- Pros:
  - Community/Societal benefits
  - Public acceptance
  - Creates public awareness
  - Simple construction
- · Cons:
  - Cannot meet permit requirements
  - Long term performance
  - High installation cost and maintenance costs





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# **Alternatives Evaluation** Control Program 6 - Green Infrastructure Distributed storage or detention throughout the village Interlocking Concrete Permeable Paver



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# **Alternatives Evaluation**

Control Program 6 - Green Infrastructure

Distributed storage or detention throughout the village

\$2.7-\$12 M\* (Class 5 Cost Estimate: -50%+100%)

\$5.80 - \$9.10/gal of CSO removed during typical year

\*For controlling 2.5%-10% of Village impervious area with GI, estimated a maximum of 4% could be feasibly controlled.

RECOMMEND - POTENTIALLY RETAIN FOR PUBLIC OUTREACH AND EDUCATION

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### Costing Control Program Cost per Gallon Volume CSO Reduction (\$/gal) **NPW Calculations** Level of Control 0 4 8 12 20 1) Eliminate Outfall 006 NA NA NA NA NA 2) Storage (Consolidated) \$1.7 \$1.2 \$1.2 \$1.1 \$1.2 \$2.4 \$2.2 \$2.2 \$2.2 \$2.2 4) Treatment (Consolidated) \$1.7 \$1.5 \$1.5 \$1.5 \$1.3 5) Sewer Separation \$3.8 NA NA NA Volume uction for Impervious Area M ged (MG) 2.50% 5% 7.50% 10% 6) Green Infrastructure **Control Program** · Overflows per Year (\$M) **NPW Summary** Level of Control 0 20 1) Eliminate Outfall 006 NA NA NA NA 2) Storage (Consolidated) \$84 \$54 \$52 \$47 \$34 3) Tunnel \$118 \$99 \$99 \$92 \$86 4) Treatment (Consolidated) \$87 \$77 \$77 \$77 \$60 5) Sewer Separation \$193 NA NA NA NA NPW Summary of Impervious Area Managed (\$M) 7.50% 10% 6) Green Infrastructure \$2.7 \$9 \$12 Mott MacDonald | Presentation 41

Alternatives Rating

Rating Procedure

Control Programs rated 1 (Worst) to 5 (Best) on several categories and a weighted average found

Cost

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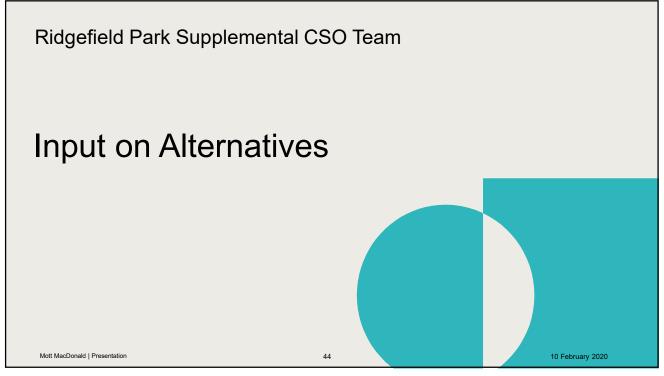
- Normalized by \$/gallon
- Based on 4 overflows per year and 5% GI
- 25% weight
- CSO Reduction
  - Overall reduction of CSO volume in Typical Year
  - Reduction in CSO Events
  - 15% weight each
- Institutional Issues
  - Ranked according to possibility of permitting delaying project six (6) months or more
  - 15% weight
- Implementability
  - Ranked according to project being delayed by other factors for six (6) or more months
  - 15% weight
- Public acceptance

– Ranked according to how we think the public would welcome and support the plan
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### **Alternatives Rating** Ranking - NO SELECTION MADE AT THIS PHASE! CSO Volume Weighted Control Program NA NA NA NA NA NA 1. Eliminate CSO-006A NA 4.0 2. Consolidated Tank Storage 5 4 4. Consoldiated End of Pipe Treatment 5 5 4 3 3.6 5. Sewer Separation 5 5 3 2 3.1 6. Green Infrastructure 1 5 4 2.7 1 Weighting 100% Mott MacDonald | Presentation 43 10 February 2020

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# Ridgefield Park Supplemental CSO Team

Public Outreach Opportunities

- Input on the selection process?
  - What is your strongest interest?
    - Cost
    - Environmental benefit
    - Other
  - Are your/community interests being considered?
    - Suggestions
  - · Comments on locations of facilities?
  - · Comments on types of facilities?
  - Comments on costs?
- Do you have a preference?

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# Ridgefield Park Supplemental CSO Group

Financial Capabilities Assessment

Goal is to determine impact on residential population and to allow the LTCP extent and schedule to incorporate those impacts.

- EPA Methodology
  - · Snapshot based on current conditions.
  - Allows for flexibility and additional factors to be considered.
  - · Very limited view of affordability.
- "Dynamic" Model
  - · Accounts for inflation
  - Accounts for expected project schedule.

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|     |   | ER HOUSEHOLD<br>Forksheet 1 |             |
|-----|---|-----------------------------|-------------|
| Cui | rrent WWT Costs   |                             | Line Number |
| 20  | Annual Operations and   |                             |             |
|     | Maintenance Expenses (Excluding<br>Depreciation)                                    |                             | 100         |
| •   | Annual Debt Service (Principal and Interest)  |                             | 101         |
|     | *Subtoral*  |                             |             |
|     | (Line 100 + Line 101)   |                             | 102         |
|     | jected WWT and CSO Costs<br>rrent Dollars)  |                             |             |
| •   | Estimated Annual Operations and<br>Maintenance Expenses (Excluding<br>Depreciation) |                             | 103         |
| 9   | Annual Deht Service (Principal  |                             |             |
|     | and Interest)   | _                           | 104         |
|     | *Subtotal*<br>(Line 103 + Line 104)   |                             | 105         |
|     |   |                             | 103         |
| CSC | al Current and Projected WWT and<br>D Costs (Line 102 + Line 105)                   |                             | 106         |
|     | idential Share of Total WWT and   |                             |             |
| CSO | O Costs   |                             | 107         |
| Are | al number of Households in Service<br>a   |                             | 108         |
|     | t Per Household<br>te 107 ~ Line 108)   |                             | 109         |
|     |   |                             |             |
|     |   |                             |             |

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# Ridgefield Park Supplemental CSO Team

Financial Capabilities Assessment - EPA Indicators

How much CSO Control can the Municipality afford?

- Primarily based on EPA Guidance
  - 2% of Median Household Income (MHI)
- Implications of affordability:
  - Implementation schedule
    - Prioritize projects with highest cost effectiveness
  - Level of control
  - Required annual rate increases

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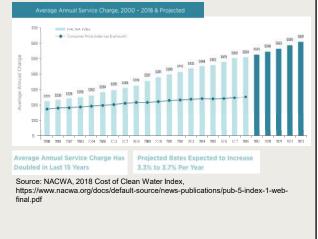
| nancial Capabilities | Assessment - EPA Indicators                                    |  |  |
|----------------------|--|--|--|
| Residential          | Current system costs (combined, sanitary, and stormwater)      |  |  |
| Indicator            | Percent residential share = Typ. 75-85%                        |  |  |
|                      | Cost per residential household – should be less than 2% of MHI |  |  |
| Financial            | Debt Indicators  | Bond Ratings   |  |
|                      |  | Overall Net Debt as % of Full Market Property Value      |  |
| Indicator            | Socioeconomic Indicators                                       | Unemployment Rate  |  |
|                      |  | Median Household Income                                  |  |
|                      | Financial Management Indicators                                | Property Tax Revenues as % of Full Market Property Value |  |
|                      | 3  | Property Tax Revenue Collection Rate                     |  |

### Ridgefield Park Supplemental CSO Team Financial Capabilities Assessment - EPA Indicators FINANCIAL CAPABILITY MATRIX Table 3 Residential Indicator (Cost Per Household as a % of MHI) FINANCIAL CAPABILITY GENERAL SCHEDULING BOUNDARIES Permittee Financial Capability Financial Capability Matrix Category Implementation Period Mid-Range (Between i 0 and 2.0%) Indicators Score Low (Below 1 0 %) High (Above 2.0 %) Low Burden Normal Engineering/Construction (Socioeconomic, Debt and Financial Medium Burden Up to 10 years High Burden Up to 15 Years\* Weak (Below 1.5) Medium Burden High Burden High Burden \*(Schedule up to 20 years based on negotiation with EPA and state NPDES authorities) Mid-Range (Between 1.5 and 2.5) Low Burden Medium Burden High Burden Strong (Above 2.5) Low Burden Low Burden Mott MacDonald | Presentation 50 10 February 2020

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Financial Capabilities Assessment - Additional Items to Consider

- Sewer utility costs likely to rise faster than income growth over next 20-30 years
- Consider future non-CSO costs and obligations
- Income and Cost Considerations
  - Burden by income distribution brackets
  - Poverty rates
  - Unemployment and labor force participation rates



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Financial Capabilities Assessment

So what is this all about?

- It's like buying a house or car.
- · What are my current expenses?
- How much money do I make now and in the future?
- When will I buy it?
- How expensive is it?
- · How much will it cost to maintain?
- · What will my payments be?
- What is the interest rate?
- · What is the inflation rate?
- · What is my mortgage term?





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# Ridgefield Park Supplemental CSO Team

Financial Capabilities Assessment

# So what is this all about?

- So now we turn it into a LTCP
  - · What are my Wastewater and Stormwater expenses?
  - What is my Median Household Income (MHI) and is it growing?
  - What projects will I build and when?
  - What do the projects cost?
  - · How much will it cost to maintain?
  - What will my payments be?
  - What is the interest rate?
  - What is the inflation rate?

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What is my mortgage term?



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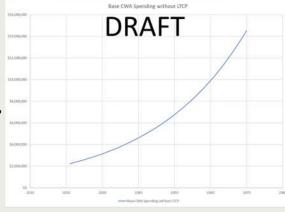
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# Ridgefield Park Supplemental CSO Team

Financial Capabilities Assessment

# So what is this all about?

- So now we turn it into a sewer
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  - What is the inflation rate?What is my mortgage term?



# **Current Expenses**

- BCUA \$1.4 M
- Estimated other expenses \$0.7 M

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# Ridgefield Park Supplemental CSO Team Financial Capabilities Assessment **DRAFT** So what is this all about? So now we turn it into a sewer What are my Wastewater and Stormwater expenses? What is my Median Household Income (MHI) and is it growing? What projects will I build and when? What do the projects cost? How much will it cost to maintain? What will my payments be? What is the interest rate? What is the inflation rate? What is my mortgage term? Mott MacDonald | Presentation 10 February 2020

