#### Village of Ridgefield Park Supplemental CSO Team

#### **Meeting Number 8**

Commissioner's Conference Room

Village of Ridgefield Park Municipal Building

May 28, 2019, 10 am

#### **Group Meeting Minutes**

- 1. Introduction
  - a. Meeting began at 10 am with introductions. Several members of the general public were in attendance in addition to the Supplemental CSO Team.
  - b. John Dening opened the meeting with a safety discussion about proper ladder usage.
  - c. John Dening welcomed new attendees and presented a recap of the topics discussed at all meeting held to date and opened for questions. John explained the purpose of the meeting and the role of the Supplemental CSO team. No questions were asked at that time.
- 2. Presentation by John Dening about the Development and Evaluation of Alternative Controls (see power points).
- 3. Discussion and Questions
  - a. The following outlines the questions that were asked and the discussions that followed: Question: If there is no extra capacity at BCUA, will Ridgefield Park be required to pay for the cost of expansion?

Answer: Yes, if additional capacity is needed at BCUA Ridgefield Park and any other entities that need the capacity will cover the cost of the expansion.

b. Question: If we stop sending storm water to BCUA will our bill be reduced?

Answer: Ridgefield Park will pay for the amount of flow into the plant measured at the BCUA meter. Ultimately, for any solution that is proposed the costs will be compared and evaluated.

c. Question: How much of Ridgefield Park is currently separated?

Answer: Approximately half of Ridgefield Parks wastewater system is separated.

d. Question: Should the State share in some of the costs due to the fact that much of the storm water resulted from the construction of Route 80 and the reconstruction of North Avenue?

Answer: This would be a legal matter for the Village to investigate.

- e. Question: Would we need to run a new sewer line along Teaneck Road?
- Answer: At this time, we are looking at more general broad solutions. Specific streets are not being considered at this time.

- f. Question: What percentage of the flow could be reduced by green infrastructure such as bioswales, pervious pavement and rain gardens?
- Answer: Many factors such as soil characteristics/infiltration capacity will have to be studied to determine the performance of any green initiatives.
- g. Question: If we separate the sewer system will that solve the problem?
- Answer: Separation will keep storm water from entering the BCUA treatment plant, Nevertheless, storm water may still need some level of treatment before being discharged.
- h. Question: What if we implement CSO controls and the water quality does not improve due to the tidal nature of the waterways?
- Answer: The overall water quality may not improve, but the permit requires a reduction in the overflows regardless. The DEP is looking for permittees to do whatever can be done feasibly. The ultimate goal would be for all waterways to be fishable and swimmable, but the DEP recognizes that the solution must be affordable.
- i. Question: Are there any other movements underway to address other causes of river pollution?
- Answer: Yes, the riverkeeper and the baykeeper are consistently looking for ways to improve water quality. In addition, the NJDEP is targeting stormwater from separate sewer systems through NJPDES Permits.
- j. Question: If a tank is put in the Village could businesses continue to operate on the property?
- Answer: Most likely a business could operate or a park could be built over the storage tank after it is completed. The tank would be below ground except for a pump station and a few manholes. Depends on the type of business and what they would want to put on top of the tank.
- k. Question: Could a tank be located on the property under the Route 80 bridge? Answer: That is a possibility that can be explored.
- I. Question: Could a tunnel follow the railroad right of way?
- Answer: It is unlikely that that would be feasible due to railroad restrictions and rules.
- m. Lastly, a general discussion about the need for a boat ramp concluded the discussion.
- n. The next meeting of the Supplemental CSO Team will be held in September.
- 4. Meeting concluded at noon.

Minutes submitted by Donna Gregory

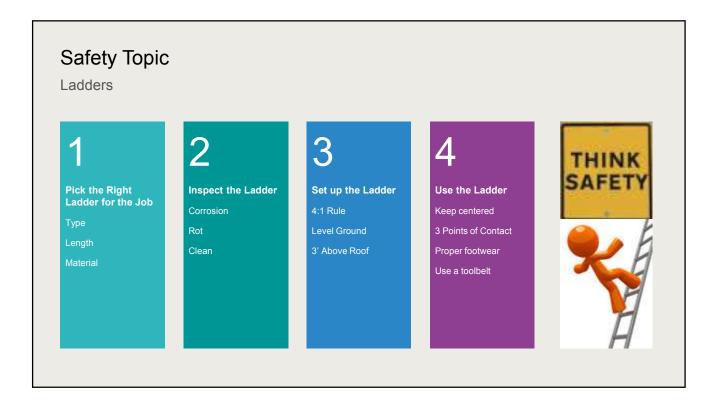
#### Village of Ridgefield Park Supplemental CSO Team Meeting Number 8 – Characterization Report Commissioner's Conference Room Village of Ridgefield Park Municipal Building May 28,2019; 10:00 AM

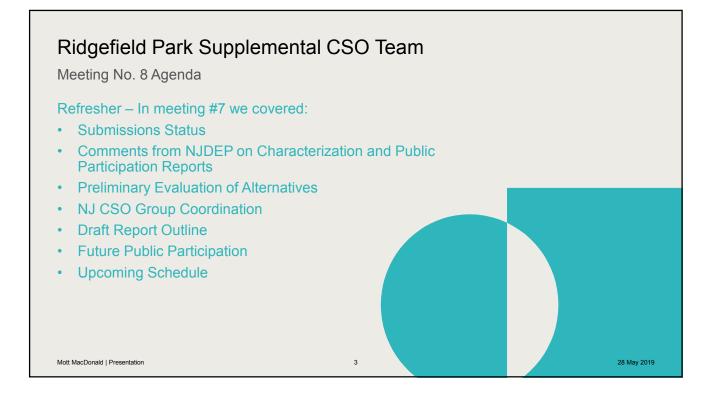
Initials	Name	Organization	Email	Phone Number
й э	John Rolak	Mott MacDonald	john.rolak@mottmac.com	973-912-2521
J.P.D	John Dening	Mott MacDonald	John.dening@mottmac.com	973-912-2464
Dmg	Donna Gregory	Mott MacDonald	donna.gregory@mottmac.com	
	Flo Muller	Ridgefield Park Shade Tree Commission	flomart@nj.rr.com	201-814-9019
AP	Mark Olson	Chairman, Green Team	mark-olson@verizon.net	201-440-5989
JQ.	Stephen Quinn	Ridgefield Park Environmental Commission	stephencquinn@aol.com	201-440-5652
AQ	Linda Quinn	Ridgefield Park Environmental Commission	linda.quinn125@gmail.com	201-440-5652
5	John Ponticorvo	Wanda Canoe Club	jponticorvo@aol.com	201-803-3643
	JOHN ANLIAN	BJ st Commission	Johnanligne yahoo.com	201.943-1110 201-440-4694
	GERARD GARDFALOW			201-440-4694
	hestic Olson	R.P. Green Team R.P Envivon. Consa	leslie-olson@verizon.net	201 - 440-5489
54	Steve	NJDE?	stephen. seabers and dernison	609 242-4860
LP	Kachael Hepe		Rachael, Peper adeping	v 609-292-997-
NK	Noney Kempel	NJDEP	Rectael, Peper Odep.njs	604 633-7021

Village of Ridgefield Park Supplemental CSO Team Meeting Number 8 – Characterization Report Commissioner's Conference Room Village of Ridgefield Park Municipal Building May 28,2019; 10:00 AM

Initials	Name	Organization	Email UKC4 . pastorgla@ride	Phone Number 201.440.46	29
GLA	Guillecos	15 PLESB. (14	UX(4/. pastorg/a Qride	EFICIOPOLICE	acu.org
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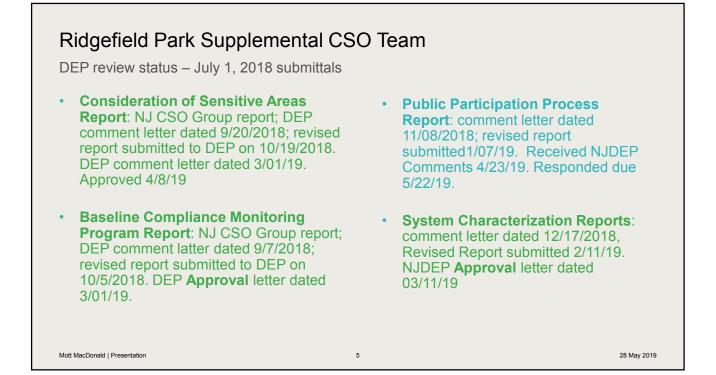
## Ridgefield Park Supplemental CSO Team

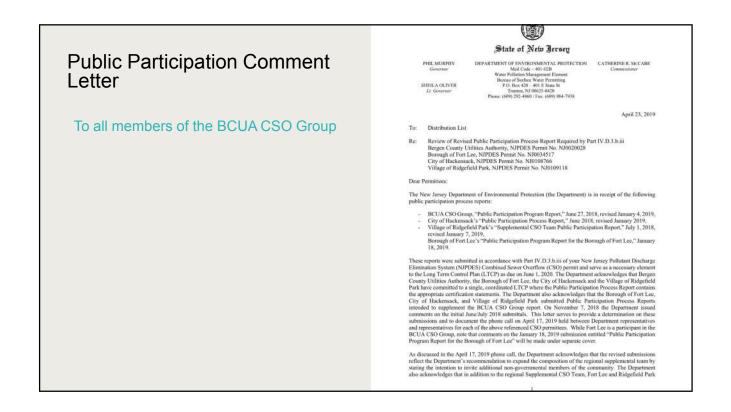
Meeting No. 8 Agenda

- Submissions Status
- Public Participation Status
- Development and Evaluation of Alternatives
- Coordination with BCUA
- Future Baseline
- Preliminary Alternatives
- Upcoming Schedule



Mott MacDonald | Presentation





### **Public Participation Comment** Letter

Response Due May 23, 2019

**Delivered May 22** 

Looking for Planned and Future Activities

Actively Engage Public

Through LTCP Submission June 1, 2020

have formed local Supplemental CSO Teams. However, gaps exist in the permittee planned efforts to engage the affected public beyond those that sit on the Supplemental CSO Teams. As required by Part IV.G.2.b, of the permit, "implementation shall actively involve the affected public troughout each of the 3 Steps of the LTCP process." As such, active involvement, including feedback opportunities, must be provided by the permittre to the affected public broyend those who air on the Supplemental CSO Team. Additionally, as this next year or so will be the time frame during which the permittee will be developing and selecting alternatives, this will be the most advantageous time to solicit and address input from the affected public on the alternatives.

During the call we discussed several ways to demonstrate active involvement with the affected public. Below is a bulleted list of some of the ideas the Department suggested on the call:

- Update the Homeowner's guide, and other pamphlets/flyers to add a brief mention of the CSO LTCP process underway and how to get more information;
   Partner with local community groups to incorporate CSO outreach into their efforts that they are already undertaken;
- already undertaken; Present at local community group's existing meeting, such as but not limited to, homeowner's associations, boating/hayaking clubs, service-based groups, basiness associations (ex. chumber of commerce, downtown associations), neighborhood associations? Parent Teacher Organizations, and religious or cultural associations; Present at the environmental commission, planning board, and town council committee meetings.

When hosting your own public meeting, please consider

- Locations that are most convenient and familiar to residents, such as a local library, community building or school;
   Inviting the local groups that you have offered a presentation to and ask them to inform their members of the meeting;
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The above is not a comprehensive list of what could done to demonstrate active involvement and the Department encourages you to think about which approaches are most efficient and effective for your individual communities and the specific segments of the affected public you are seeking to engage. Additionally, as offered during the conference call, the Department is available to meet with you to further discuss specific approaches for public participation, including, sharing best practices from other public participation effects, feedback on upcoming meeting agenda, format and presentations, suggesting methods to advertise feedback opportunities and upcoming meetings.

The Department requests that the previous submissions be supplemented with additional information within 30 days of the date of this letter to detail planned and/or future efforts to actively engage the affected public leading up to the submission of the Development and Evaluation of Alternatives Report and the Selection and Implementation of Alternatives Report. This supplement may be in the form of a letter or as revisions to the plan list.

### **Public Participation Comment** Letter

Since last submission:

- Jan SCSO Team Meeting
- Posted SCSO Team Meeting Minutes
- Added John Porticorvo Wanda Canoe Club
- Presented to Town Caucus April 4<sup>th</sup>
- **BCUA SCSO Team Meetings**
- **Ridgefield Park Earth Day**

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### **Public Participation Comment** Letter

**Proposed:** 

- **Continue SCSO Team Meetings**
- Seek additional SCSO Team Members
- Present to Council
- Newsletter Article
- **Public and Community Group Meetings**
- Earth Day 2020

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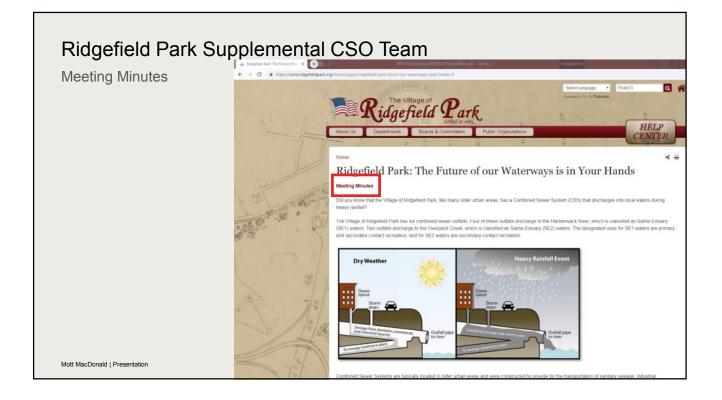
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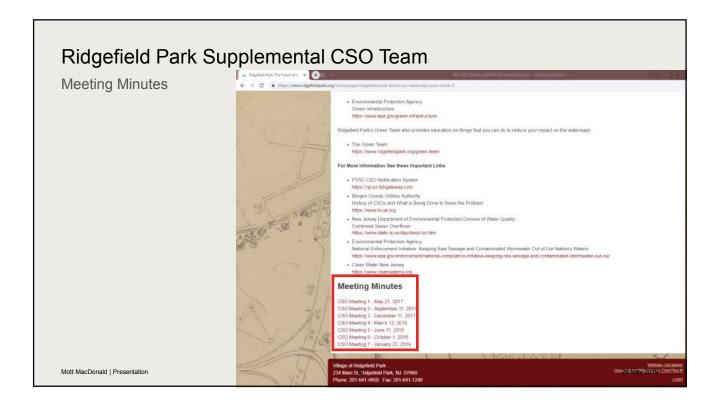
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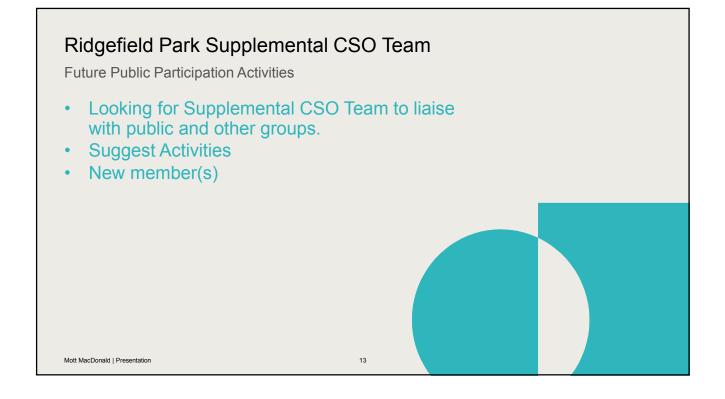
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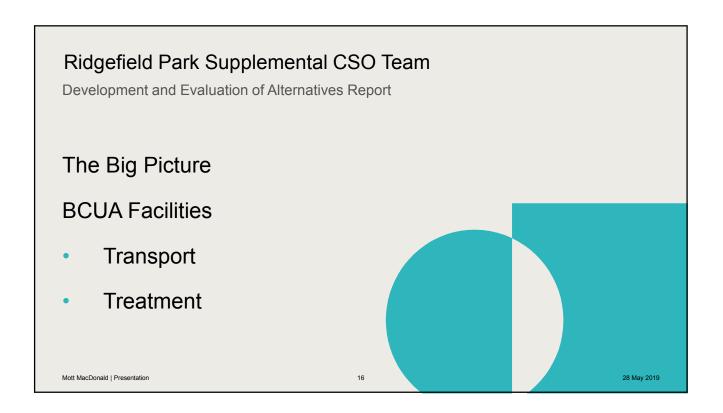
What does the permit say about Development and Evaluation of Alternatives?

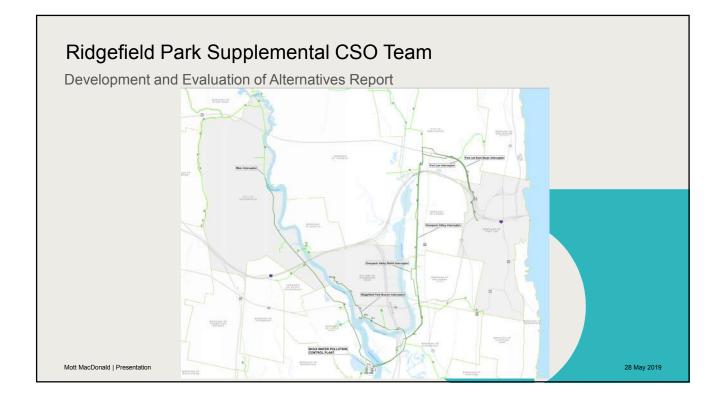
The permittee shall evaluate a reasonable range of CSO control alternatives that will meet the water qualitybased requirements of the CWA The Development and Evaluation of Alternatives Report shall include <u>a list of</u> <u>control alternative(s)</u> evaluated for each CSO enabling the permittee, ...to select the alternatives to ensure the CSO controls will meet the water qualitybased requirements of the CWA The permittee shall evaluate the <u>practical</u> and <u>technical feasibility</u> of the proposed CSO control alternative(s), and water quality benefits and give the highest priority to controlling CSO discharges to sensitive areas The permittee shall select either the <u>Demonstration or</u> <u>Presumption</u> Approach

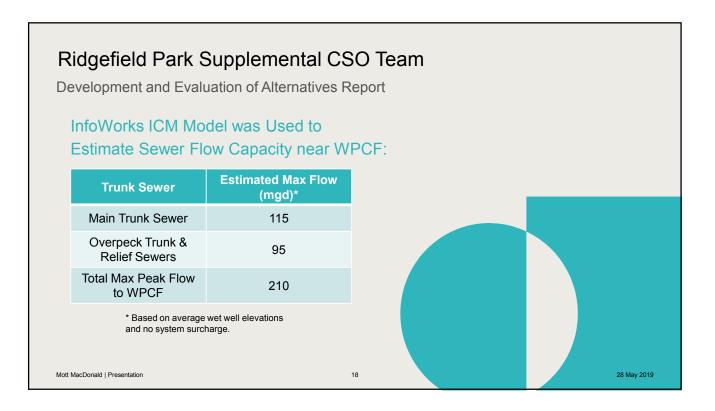
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Development and Evaluation of Alternatives Report

#### Arcadis Evaluated:

- Existing Plant Capacity
- Bypassing of Secondary Treatment
  - Process Improvements
    - Needed to Meet NJPDES Permit Limits with Bypass
    - Construction and O&M Costs for Process Improvements Required

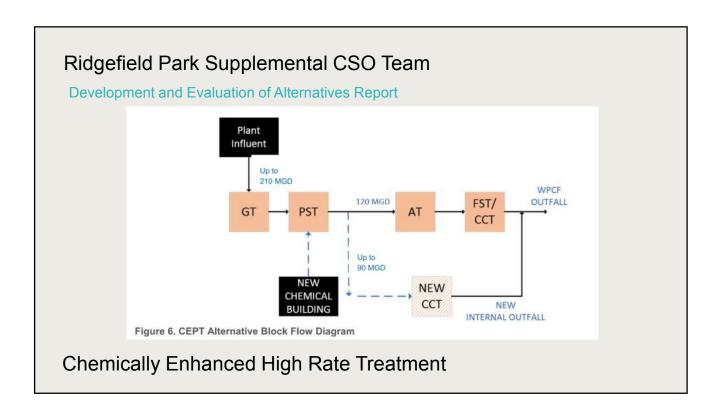
#### Expanding STP Capacity

- Treatment Improvements using
  - Ballasted Flocculation
  - Cost for Construction and O&M

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evelopment and Evaluation BCUA Water Pollution (		•		
Preliminary Information				
Description	Max Flow (mgd)			
NJPDES Permitted*	94		Trunk Sewer	Estimated Max Flow (mgd)*
Average Daily Flow	75		Main Trunk Sewer	115
Treatment Capacity (10 state standard)	105		Overpeck Trunk & Relief Sewers	95
Existing Hydraulic Capacity	220		Total Max Peak Flow	210
Max. Peak Flows	>200		to WPCF	

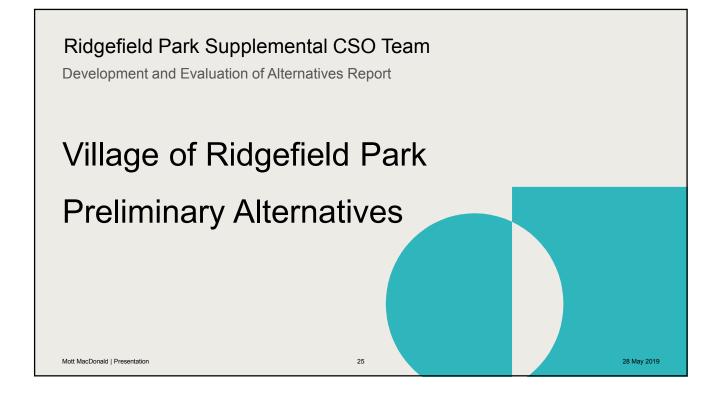




Development and Evaluation of Alternatives Report

Alternative	Construction Cost	Operation Costs	20-Year Present Worth
Chemically Enhanced High Rate Treatment	\$32M-\$127M (\$64M)	\$0.8M	\$44M-\$139M (\$76M)
Ballasted Flocculation	\$55M-\$220M (\$110M)	\$1.2M	\$73M-\$238M (\$128M)

Class 5 Cost Estimate (+100% -50%)



Development and Evaluation of Alternatives Report - Screening Process

Area available:0.8 Acres

Ownership: Village of

**Ridgefield Park** 

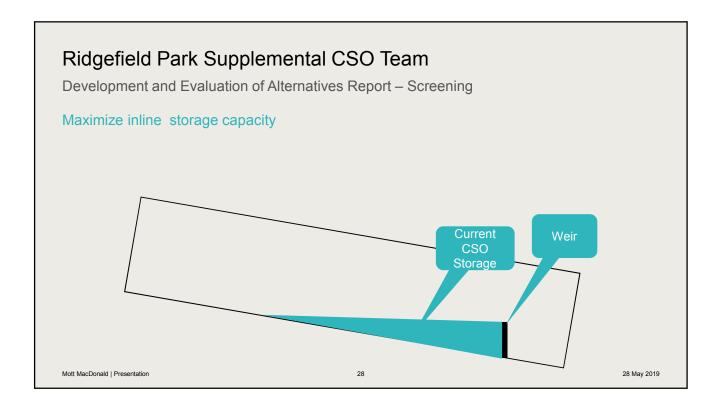
Land use considerations: DPW Operations

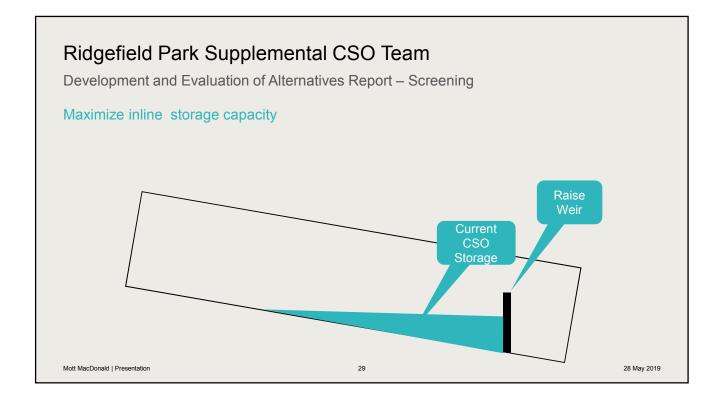
**BCUA** Interceptor

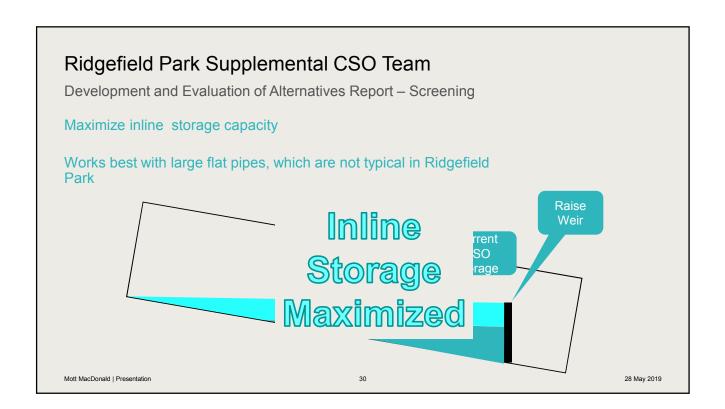
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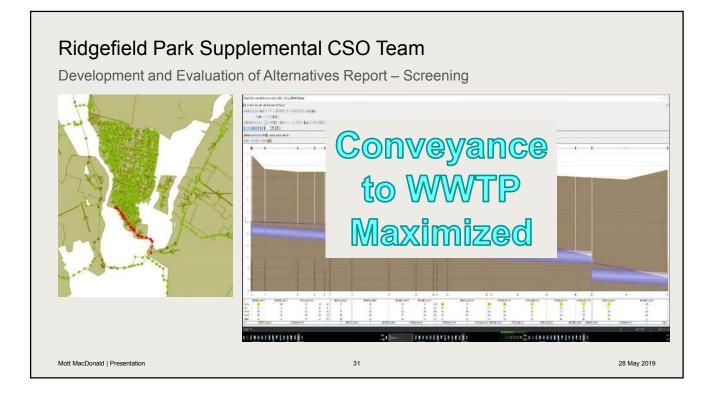


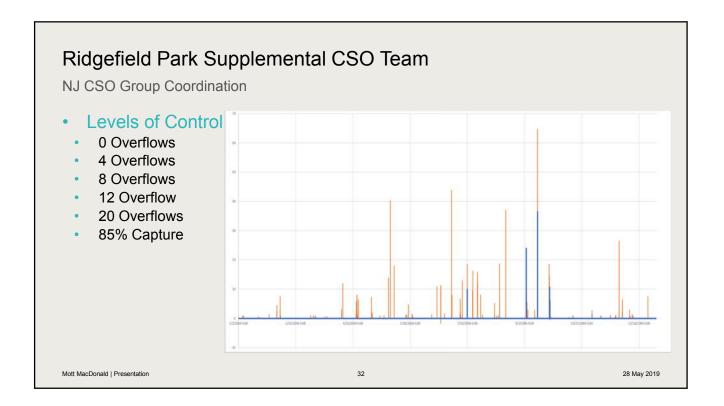












NJ CSO Group Coordination – Agreed with BCUA Modeled Output

		Rank	Event	Total CSO (MG)	Start	End
Levels of Control		1	49	262.0	9/28/2004 5:30	9/30/2004 13:45
	Top 4 Storm	2	46	154.4	9/8/2004 3:30	9/9/2004 22:00
<ul> <li>0 Overflows</li> </ul>	Events by Overflow	3	48	129.4	9/18/2004 7:15	9/18/2004 15:15
	Overnow	4	36	115.0	7/18/2004 16:30	7/19/2004 2:00
<ul> <li>4 Overflows</li> </ul>		5	56	106.9	11/28/2004 3:30	11/29/2004 0:15
<ul> <li>8 Overflows</li> </ul>	Top 8 Storm Events	6	35	101.0	7/12/2004 9:15	7/14/2004 23:30
0 0 000110003	by Overflow	7	32	98.1	6/25/2004 17:00	6/26/2004 6:15
<ul> <li>12 Overflow</li> </ul>		8	37	94.4	7/23/2004 10:30	7/24/2004 4:15
		9	6	89.9	2/6/2004 8:00	2/6/2004 23:45
<ul> <li>20 Overflows</li> </ul>	Top 12 Storm	10	23	87.6	5/12/2004 15:30	5/12/2004 21:45
050/ Conture	Events	11	38	78.9	7/27/2004 16:15	7/28/2004 8:45
<ul> <li>85% Capture</li> </ul>	by Overflow	12	15	78.5	4/12/2004 18:15	4/14/2004 21:00
		13	44	59.7	8/21/2004 13:30	8/21/2004 18:30
		14	17	59.5	4/26/2004 1:30	4/27/2004 6:00
		15	34	57.7	7/5/2004 3:00	7/5/2004 16:45
		16	43	57.2	8/14/2004 22:30	8/16/2004 12:30
		17	52	44.4	11/4/2004 14:15	11/5/2004 17:30
	Top 20 Storm	18	57	44.3	12/1/2004 4:30	12/1/2004 15:15
	Events	19	24	38.7	5/15/2004 21:30	5/16/2004 9:00
	by Overflow	20	22	38.6	5/10/2004 23:45	5/11/2004 5:45

# Ridgefield Park Supplemental CSO Team

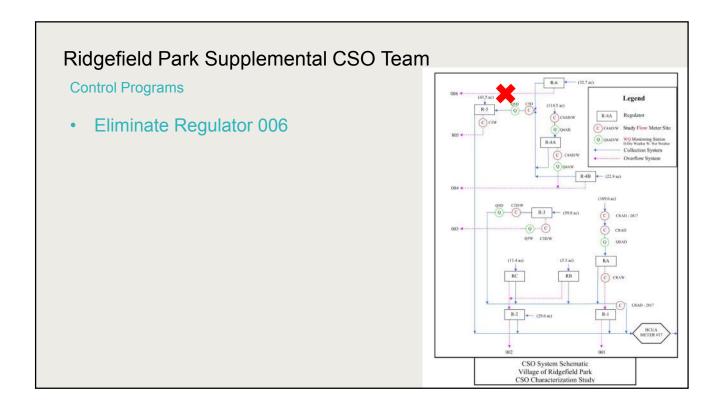
**Existing Conditions** 

			Annual Total		Maximum
Outfall No.	Outfall Name	No. Overflow Events	Overflow Volume (Mgal)	Duration (hours)	Peak Flow (mgd)
001A	Bergen Turnpike	44	12.99	273.15	20.86
002A	Main Street and Bergen Turnpike	37	2.10	125.30	7.89
003A	Christie Street	59	15.49	310.99	31.87
004A	Mount Vernon Street	72	23.41	652.37	49.36
005A	Industrial Avenue	37	4.32	75.92	7.84
006A	Hackensack Avenue	35	0.75	205.94	3.74
System-w	ride Total	not appl.	59.05	not appl.	not appl.
System-w	ride Maximum	72	23.41	652.37	49.36

Future Baselir	ne Conditions - 2050	O Team	
Require	d by Permit		
	Year	Population	
	1970	13,990	
	1980	12,738	
	1990	12,522	
	2000 (US Census)	12,873	
	2010 (US Census)	12,729	
	2017 (US Census 7-Year Estimate)	13,154	

	Projected Population to	Projected Population to	
Data Source	2050 - Conservative (people)	2050 – All Sources (People)	
NJTPA	17,960	17,960	
US Census Projection		15,910	
NJ Department of Labor	15,720	15,720	
Sky Mark Development Analys	sis 16,470	16,470	
BCUA Projections		14,620	



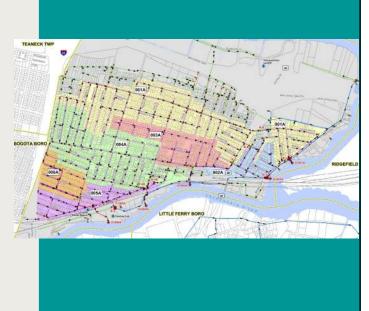






**Control Programs** 

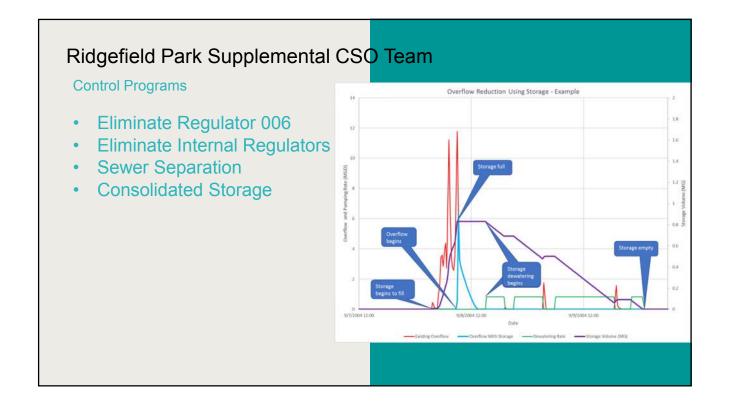
- Eliminate Regulator 006
- Eliminate Internal Regulators
- Sewer Separation



## Ridgefield Park Supplemental CSC

- Eliminate Regulator 006
- Eliminate Internal Regulators
- Sewer Separation
- Preliminary Cost \$150-\$200M





- Eliminate Regulator 006
- Eliminate Internal Regulators
- Sewer Separation
- Consolidated Storage



### Ridgefield Park Supplemental CSO Team Control Programs

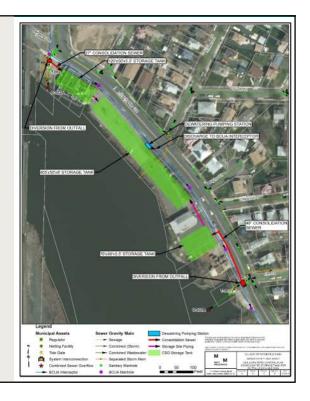
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### Ridgefield Park Supplemental CSO Team

- Eliminate Regulator 006
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- Sewer Separation
- Consolidated Storage



**Control Programs** 

- Eliminate Regulator 006
- Eliminate Internal Regulators
- Sewer Separation
- Consolidated Storage
- Preliminary Cost \$40-\$90M



## Ridgefield Park Supplemental CSO Team

- Eliminate Regulator 006
- Eliminate Internal Regulators
- Sewer Separation
- Consolidated Storage
- Tunnel



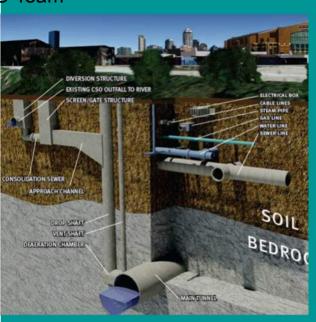
**Control Programs** 

- Eliminate Regulator 006
- Eliminate Internal Regulators
- Sewer Separation
- Consolidated Storage
- Tunnel



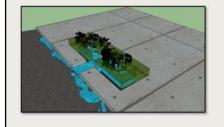
## Ridgefield Park Supplemental CSO Team

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- Sewer Separation
- Consolidated Storage
- Tunnel





- Eliminate Regulator 006
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- Sewer Separation
- Consolidated Storage
- Tunnel
- Green Infrastructure





### Ridgefield Park Supplemental CSO Team Control Programs

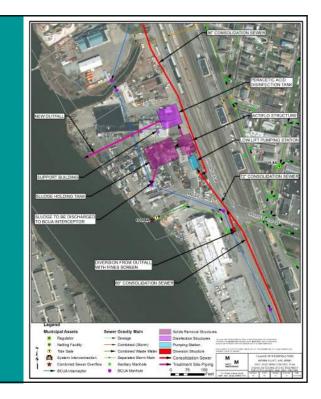
• Eliminate Regulator 006

- Eliminate Internal Regulators
- Sewer Separation
- Consolidated Storage
- Tunnel
- Green Infrastructure
- End of Pipe Treatment

## Ridgefield Park Supplemental CSO Team

**Control Programs** 

- Eliminate Regulator 006
- Eliminate Internal Regulators
- Sewer Separation
- Consolidated Storage
- Tunnel
- Green Infrastructure
- End of Pipe Treatment



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