Village of Ridgefield Park Supplemental CSO Team Meeting Number 7

Commissioner's Conference Room Village of Ridgefield Park Municipal Building January 23, 2019, 9:00 am

Group Meeting Minutes

1. Introduction

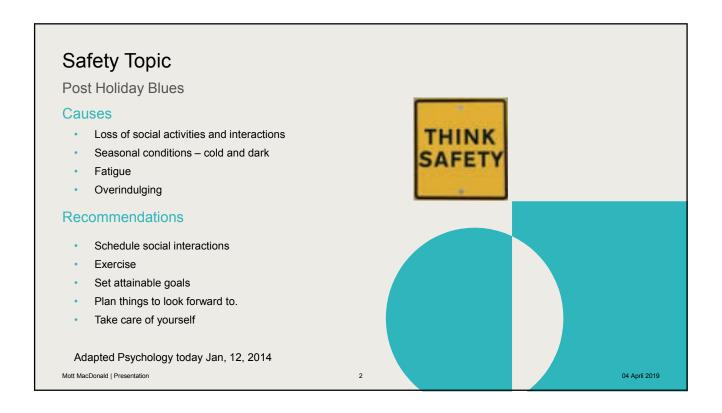
- a. Meeting began at 9:00 am
- b. John Rolak opened the meeting with an introduction of our new member John Ponticorvo of the Wanda Canoe Club and questioned John on his knowledge of combined sewer systems. John Ponticorvo indicated that he had reviewed the information on the Village website.
- c. John Dening introduced a safety discussion on post-holiday blues.
- d. John Dening reviewed the topics discussed at the last quarterly meeting held on October 1, 2018 and asked if there were any questions on the previous meetings. There were no questions.
- 2. Presentation by John Dening on the project status followed by a discussion of the preliminary evaluation of alternatives and the draft report (see presentation).
- 3. Discussion and Questions:
 - a. Mark Olsen asked whether allowing more flow into Overpeck Creek would reduce street flooding on Bergen Turnpike, which is serviced by separate stormwater sewers. It was explained that the area of flooding has a low elevation and that this segment of the Overpeck was tidal. It is anticipated that the flooding is caused by extreme high tides and that there was not much difference between the street flood elevation and the tide. It was suggested that the solution of the problem would be to pump stormwater out of the system during these events.
 - b. There was some discussion on Earth Day event on May 11th and whether the Village should again have some information on the current project. Mott MacDonald agreed and just asked that we be informed of anything being planned so that we could assist with possible materials.
 - c. John Ponticorvo asked what NYC was doing with their CSOs and whether we could follow their lead. It was explained that the Village needed to follow the requirements under the Village's NJPDES permit, but that we would use any information that may be available from NYC and their program.
 - d. Mark Olson then said that various groups had events at Waterfront Park to encourage boating and fishing and whether the CSO signs that had been installed as part of the permit process (including no fishing) meant that they should not be doing these programs since might be dangerous and if nothing else confusing to residents and parents. John Rolak noted that due to other contaminates in the sediments, including dioxin that only catch and release should be practiced. Mark noted that is what they are practicing, but that it was not in agreement with the signage. John Rolak indicated that we would bring this question to the NJDEP to see if they could clarify the issue.
- 4. Next meeting will be scheduled for end of April or beginning of May.
- 5. Meeting concluded at 10:15 am

Minutes submitted by John Rolak

Village of Ridgefield Park Supplemental CSO Team Meeting Number 7 – Characterization Report Commissioner's Conference Room Village of Ridgefield Park Municipal Building January 23,2019, 9:00 AM

Initials	Name	Organization	Email	Phone Number
Or	John Rolak	Mott MacDonald	john.rolak@mottmac.com	973-912-2521
GD	John Dening	Mott MacDonald	John.dening@mottmac.com	973-912-2464
	Donna Gregory	Mott MacDonald	donna.gregory@mottmac.com	
Ju	Flo Muller	Ridgefield Park Shade Tree Commission	flomart@nj.rr.com	201-814-9019
NO	Mark Olson	Chairman, Green Team	mark-olson@verizon.net	201-440-5989
1	/Stephen Quinn	Ridgefield Park Environmental Commission	stephencquinn@aol.com	201-440-5652
48	Linda Quinn	Ridgefield Park Environmental Commission	linda.quinn125@gmail.com	201-440-5652
W	John Ponticorvo	Wanda Canoe Club	jponticorvo@aol.com	201-803-3643
	Alan O'Grady	R.P. PPW	A06560@A01.com	
	Edward Honkoc	RP DFUS	EMONROCB Ildgefield BARK. ORG	201-440-4860
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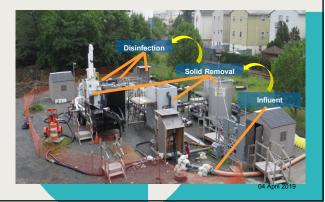


Meeting No. 7 Agenda

Refresher – In meeting #6 we covered:

Development and Evaluation of Alternatives

- What is the Goal of Alternative Control?
- What are the Regulatory Requirements?
- This Leads us to:
 - Overview of Alternatives
 - Treatment of CSO discharge
 Bayonne Pilot Study



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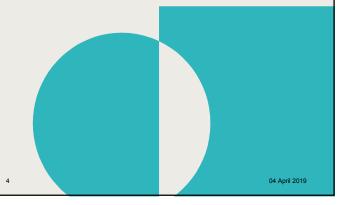
3

Ridgefield Park Supplemental CSO Team

Meeting No. 7 Agenda

- · Submissions Status
- Comments from NJDEP on Characterization and Public Participation Reports
- Preliminary Evaluation of Alternatives
 - Siting
 - Green Infrastructure
 - Inline Storage
 - Conveyance
- NJ CSO Group Coordination
- Draft Report Outline
- Future Public Participation
- Upcoming Schedule

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DEP review status – July 1, 2018 submittals

- Consideration of Sensitive Areas Report: NJ CSO Group report; DEP comment letter dated 9/20/2018; revised report submitted to DEP on 10/19/2018.
- Baseline Compliance Monitoring Program Report: NJ CSO Group report; DEP comment latter dated 9/7/2018; revised report submitted to DEP on 10/5/2018.
- Public Participation Process
 Report: comment letter dated
 11/8/2018; revised report submitted
 1/7/2019 On Time!
- System Characterization Reports: comment letter dated 12/17/2018, revised report progressing. Due 02/15/2019.

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Richard Park Supplemental CSO Team Public Participation Report NJDEP Review Comments | Public Participation Review Comme

Public Participation Report NJDEP Review Comments

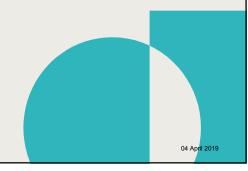
Many of the Comments Went Far Beyond NJPDES Requirements, e.g.

- Tracking and Reporting on Visitors to Website
- Tracking Handouts and Where they are Placed
- Obtaining other Public Input on Plan
- Detailing How Public Will be Informed On Progress of LTCP Implementation

Issue – Some difficult to implement

Some part of next permit cycle.

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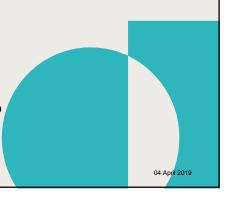
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Public Participation Report – Key Comments

Demonstrate engagement of hydraulically connected separately sewered communities.

- Begin tracking metrics, such as the number of visitors to tables at public events and number of brochures/flyers distributed at public events; number of emails received to CSO email account; number of visitors to CSO webpage; number of locations in the Village where CSO flyers/brochures are offered.
- Consider other methods of engagement such as staffing a table at local events to distribute materials.
- Add links to the webpage for information on the Supplemental CSO Team and copies of reports submitted to the Department in preparation of the LTCP.

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Public Participation Report – Key Comments

Permittees may consider providing opportunities for the Supplemental CSO Team to review key draft submittals.

- If BCUA/Ridgefield Park considers this option, it is recommended that a general timeline is provided with target dates for distribution of draft reports, deadline for submission of comments, and how any changes to the reports before final submission will be shared back to the team.
- Consider how BCUA/Ridgefield Park will inform the team that this type of information is available for review.
- There are some members of the team that may have left the position or are inactive. An effort should be made to bring additional members to the team as soon as possible.

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9



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Public System Characterization NJDEP Review

27 Comments total

Most requested additional clarification, or minor corrections

State of Nein Jersey

PHIL MIRPHY
Governor

Water Pullison Management Element
But Governor

Stella Colfure
Li Guerran

Bernard State State State
From (69) 732-4800 Tex (699) 782-7938

December 17, 2018

December 17, 2018

December 17, 2018

Hugo Poll
Commissioner of Department of Public Works
Ridgefield Park Village
State St

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Public System Characterization - Key Comments

For the sake of completeness please clarify why additional rainfall monitoring was conducted; confirm that the same location was utilized for the rain gage;

Section 4.1, Collection System. Part IV.G.1.b of the permit requires a thorough review of the entire collection system that conveys flows to the STP, including areas of sewage overflows. Therefore, the report must include a discussion of areas that are prone to flooding based on observed and reported incidents, including dates of occurrence, type of storm events that cause the flooding, and antecedent conditions, if known.

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11



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Public System Characterization - Key Comments

Section 5.3, Wet Weather Flow and Subcatchment Characteristics. This section describes the variables used in the SWMM Runoff method including Subcatchment Area; Subcatchment Width; Subcatchment Slope, Depression Storage, Infiltration Coefficients; and Overland Flow Routing Coefficient (Manning's Roughness). Please provide a table to include all subcatchments for each of these input parameters for the modeled areas in tabular format and be sure to include data for Directly Connected Impervious Area (Effective Impervious). In addition, please provide the final values used after successful model calibration and a comparison to the range of acceptable literature values.

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12

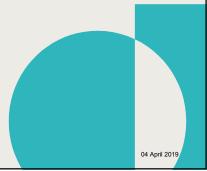


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Public System Characterization - Key Comments

Section 7, Consideration of Sensitive Areas. This section addresses the Consideration of Sensitive Areas which is the subject of a separate report submitted on behalf of Ridgefield Park by the NJCSO Group.

Given that this report is not yet approved and that the
Department required additional information regarding primary
contact and kayaking in its September 20, 2018 comments on
that report, the Department does not agree that it is
appropriate to conclude that "There are no identified sensitive
areas within Ridgefield Park, accordingly no addition[al] steps
are planned to address sensitive areas."



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13

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What does the permit say?

The permittee shall evaluate a reasonable range of CSO control alternatives that will meet the water quality-based requirements of the CWA

The Development and Evaluation of Alternatives Report shall include a list of control alternative(s) evaluated for each CSO enabling the permittee, ...to select the alternatives to ensure the CSO controls will meet the water quality-based requirements of the CWA

The permittee shall evaluate the practical and technical feasibility 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 Demonstration or Presumption Approach

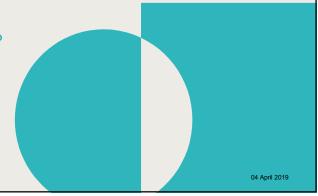
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14

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Development and Evaluation of Alternatives Report

- Green Infrastructure
- Increased Storage Capacity
- Infiltration and Inflow Reduction
- Sewer Separation
- Satellite Treatment of CSO Discharge
- Bypass of Secondary Treatment at STP
- Treatment Plant Expansion



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15

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Development and Evaluation of Alternatives Report - Siting
Objective: To identify potential sites for storage or end-of-pipe treatment.

Analysis using GIS (mapping) data, including:

- Aerial photography
- · Land Use / Land Cover
- · Property data (vacant land, land ownership, etc.
- Open Space / Green Acres
- Soil Type
- Topography
- Contaminated Sites
- Brownfields



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Development and Evaluation of Alternatives Report - Siting Objective: To identify potential sites for storage or end-of-pipe treatment.

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Development and Evaluation of Alternatives Report - Siting

- Aerial Imagery and Land Use Classification
 - Structures vs. Paved vs. Vegetated
 - Open Space, Industrial, and Commercial vs. Residential and Transportation Corridors
 - Green Acres NJDEP Approval Propose GSI
- Parcel Data
 - Public vs. Private Ownership
- Soil Type
- Topography
 - Difference in elevation between site and outfall/regulator
 - Distance between site and outfall/regulator
- Known Contaminated Sites and Brownfields
 - Severity of contamination
 - Status of cleanup

	Favorable	Unfavorable
	Open paved or grass areas, vacant land	Buildings / Structures
	Industrial, Commercial, Open Space	Green Acres, Residential, Transportation Corridors
	Publicly owned	Privately owned
	Small elevation change to outfall or regulator	Large elevation change to outfall or regulator
4	Close to outfall or regulator	Far from outfall and regulator
	No soil or groundwater contamination	Known contaminated site or brownfield site

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18

Development and Evaluation of Alternatives Report - Siting

- Aerial Imagery and Land Use Classification
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Development and Evaluation of Alternatives Report – Example Site

Area available: 0.8 Acres

Ownership: Village of

Ridgefield Park

Land use considerations:

DPW Operations



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Development and Evaluation of Alternatives Report – Siting Green Infrastructure

Green infrastructure (GI) = practices which reduce stormwater volume or flow rate by allowing the stormwater to infiltrate, to be treated by vegetation or by soils, or to be stored for reuse

- Desktop, planning-level study
- Estimate upper bound on impervious acres that could be feasibly managed by GI practices
- Following Chapter 2 "Locating and Assessing the Feasibility of Green Infrastructure" from NJDEP guidance document Evaluating Green Infrastructure: A Combined Sewer Overflow Control Alternative for Long Term Control Plans

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21

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Development and Evaluation of Alternatives Report – Siting Green Infrastructure

Analysis using GIS (mapping) data, including:

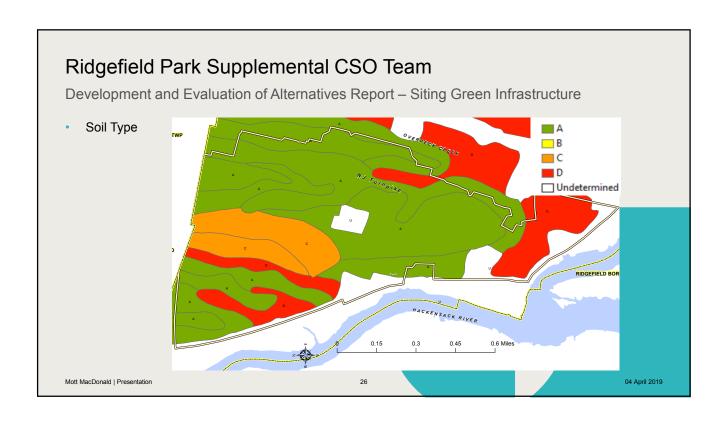
- · Boundary of combined sewer area
- Aerial photography
- Land Use / Land Cover
- Tax parcels including area and ownership
- Building footprints
- Impervious area
- Streets
- Soil Type / Depth to Water (limited info on soil infiltration potential b/c urban land)
- Contaminated Sites

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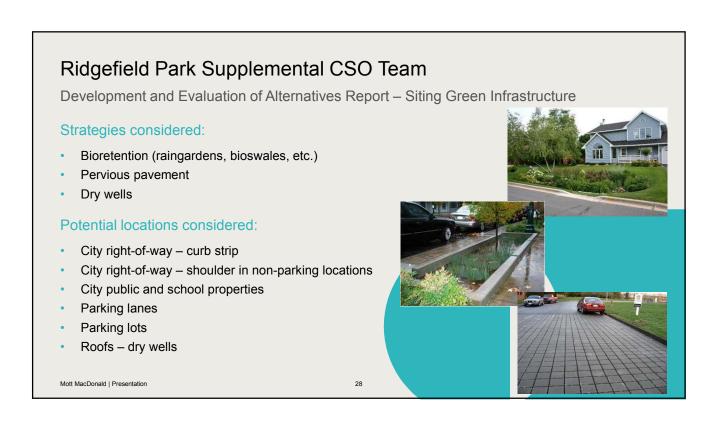


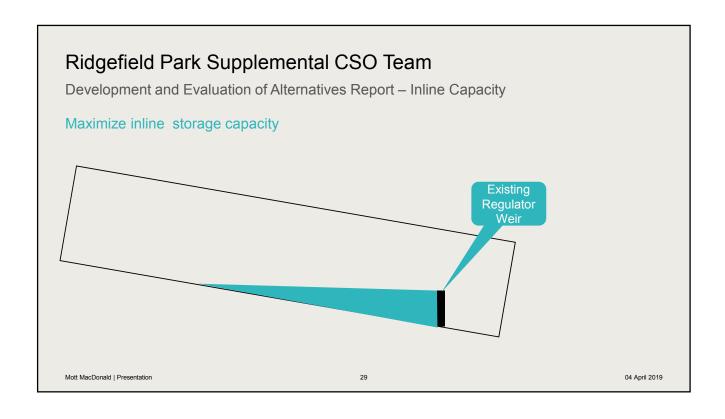


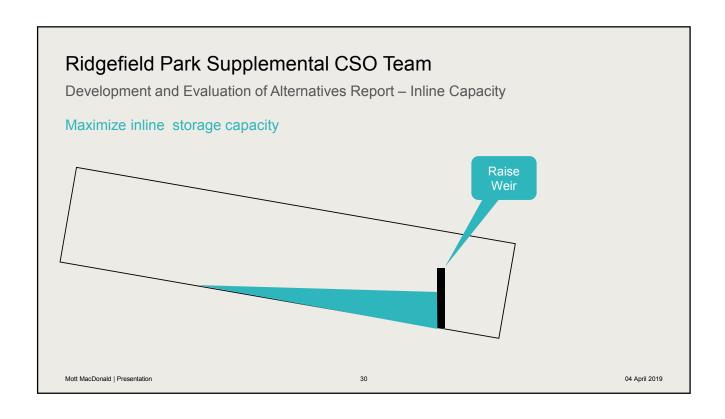


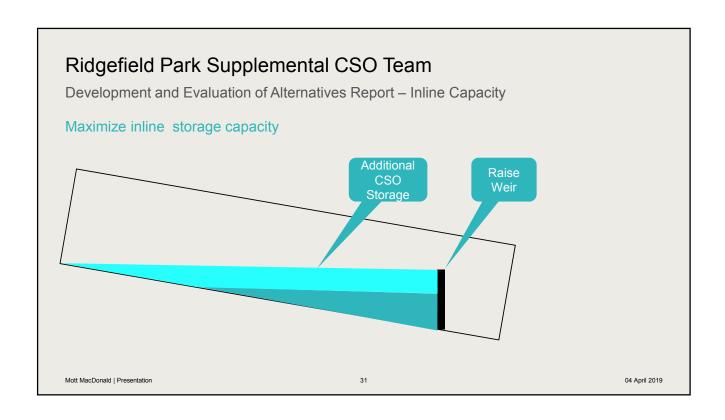


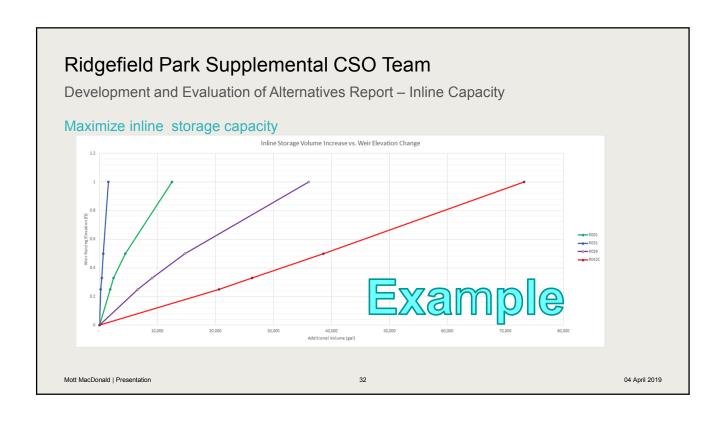












Development and Evaluation of Alternatives Report – Inline Capacity

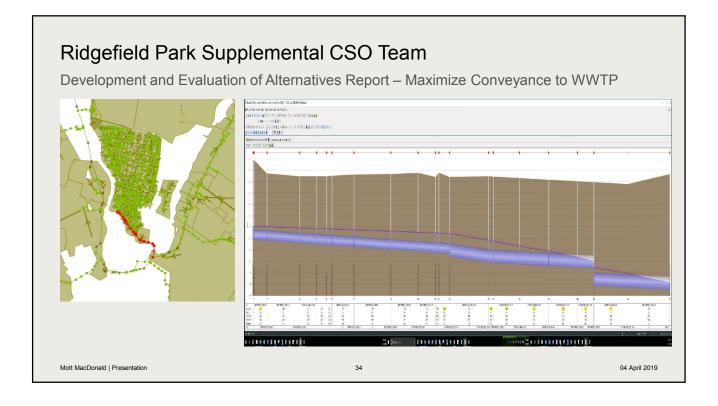
Maximize inline storage capacity

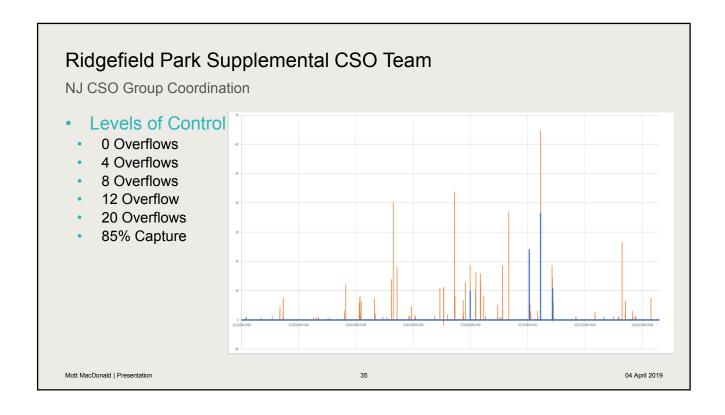
Works best with large flat pipes, which are not typical in Ridgefield Park

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33

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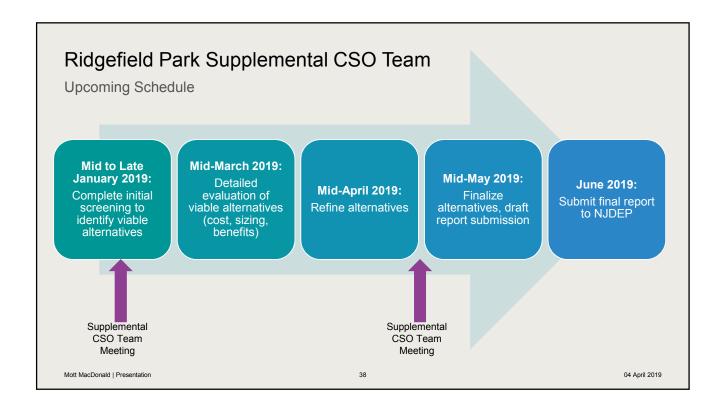


Development and Evaluation of Alternatives Report – DRAFT Outline

- Introduction
- General Information
- Water Quality Objectives
- Development of Alternatives
 - Development and Screening Levels
- Costing
- Available Land Analysis
- Alternatives Evaluation
- Summary
- References

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 36
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Ridgefield Park Supplemental CSO Team Future Public Participation Activities Looking for Supplemental CSO Team to liaise with public and other groups. New members Input on additional outreach opportunities.



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Upcoming Schedule

January 25, 2019 - Quarterly Report Due to NJDEP

March 2019 - Anticipated Next Supplemental CSO Team Meeting

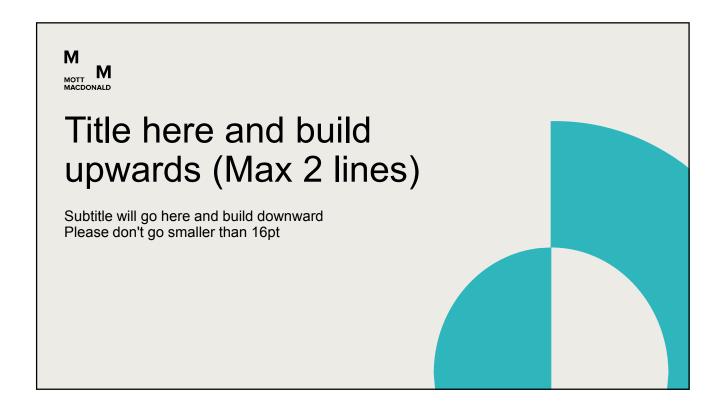
July 1, 2019 – Development and Evaluation of Alternatives Report Due to NJDEP

- Develop Comprehensive List of Alternatives
- Screen Alternatives
- Evaluate Alternatives
- Cost Estimates
- Coordinate with other Members of BCUA Group
- Produce and Submit Report

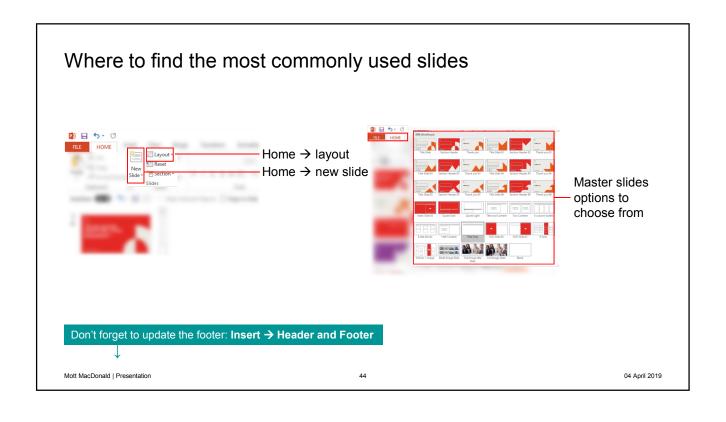
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Final Questions? Mott MacDonald | Presentation 40 04 April 2019

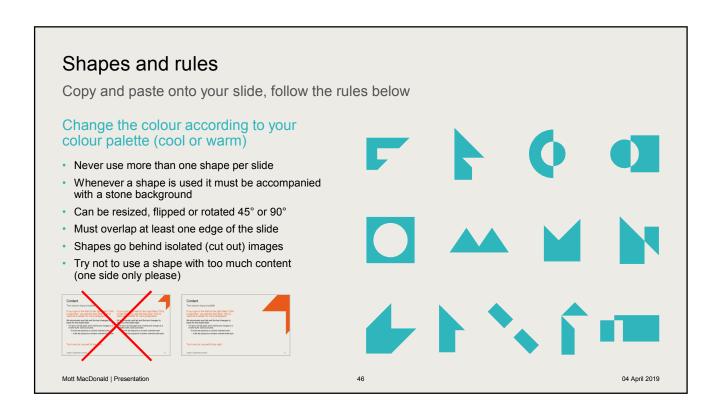


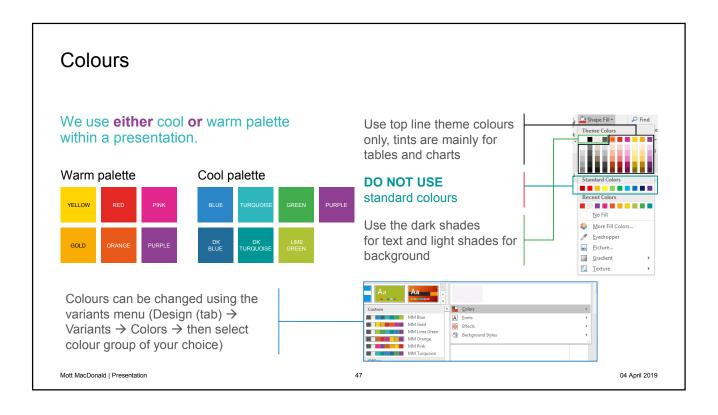


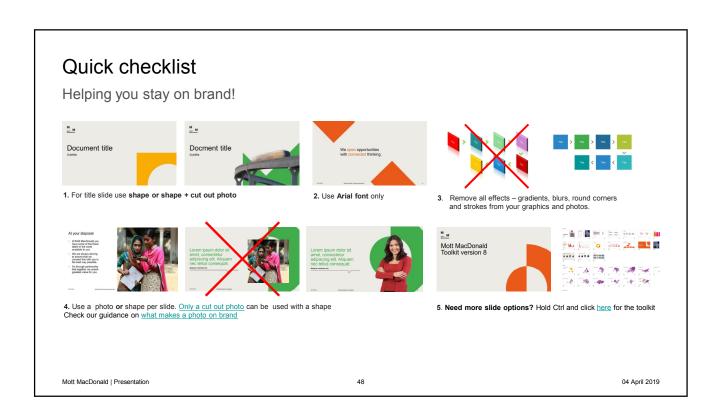












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To go back: Hold shift button then hit the tab button (While text is still highlighted)

- Repeat same trick again and it indents and changes to a smaller bullet style (subbullet)
 - A fourth tab sequence is a further indented bullet
 - A fifth tab sequence is another indented bullet style

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