# Public Scoping Meeting

March 15, 2016

for

Rock Creek Park

Sanitary and Storm Sewer Infrastructure

Pinehurst Branch, Sherrill Drive, and Fenwick Branch Sewer (PSF) Improvements

District of Columbia

# Agenda

- Introduction
- National Environmental Policy Act (NEPA)
- Purpose & Need
- Potential Project Options
- Environmental Constraints/Challenges
- Next Steps and Schedule
- Questions

# Introduction

- Goals of Today's Public Scoping Meeting:
- Inform the public; describe the project's purpose and need
- Collect comments from the public on significant issues and gain input to use in the development of alternatives for the project

# Introduction

## Primary Stakeholders

- District of Columbia Water and Sewer Authority (DC Water)
- Responsible for the operation and maintenance of water and sewer systems serving the District of Columbia (District)

- National Park Service (NPS)
- Maintains and operates Rock Creek Park (federal property)
- Responsible for adherence to the NEPA process and documentation and compliance with the NHPA

PSF sewers drain path and destination:

Rock Creek Main Interceptor (RCMI)

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Potomac Pumping Station

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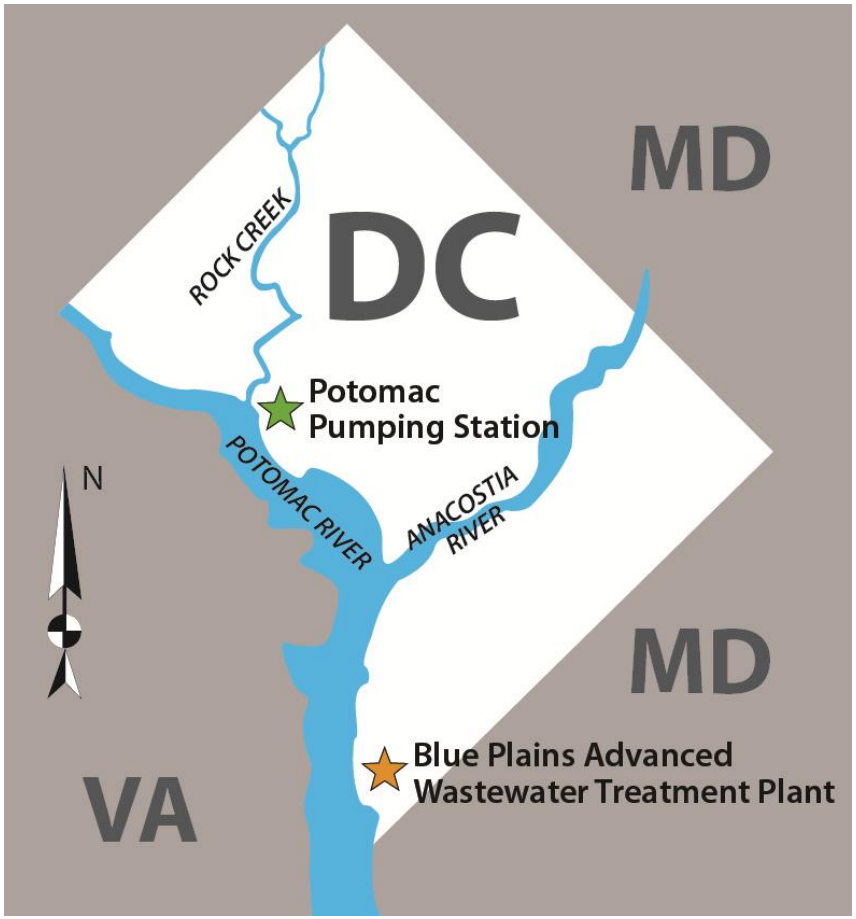
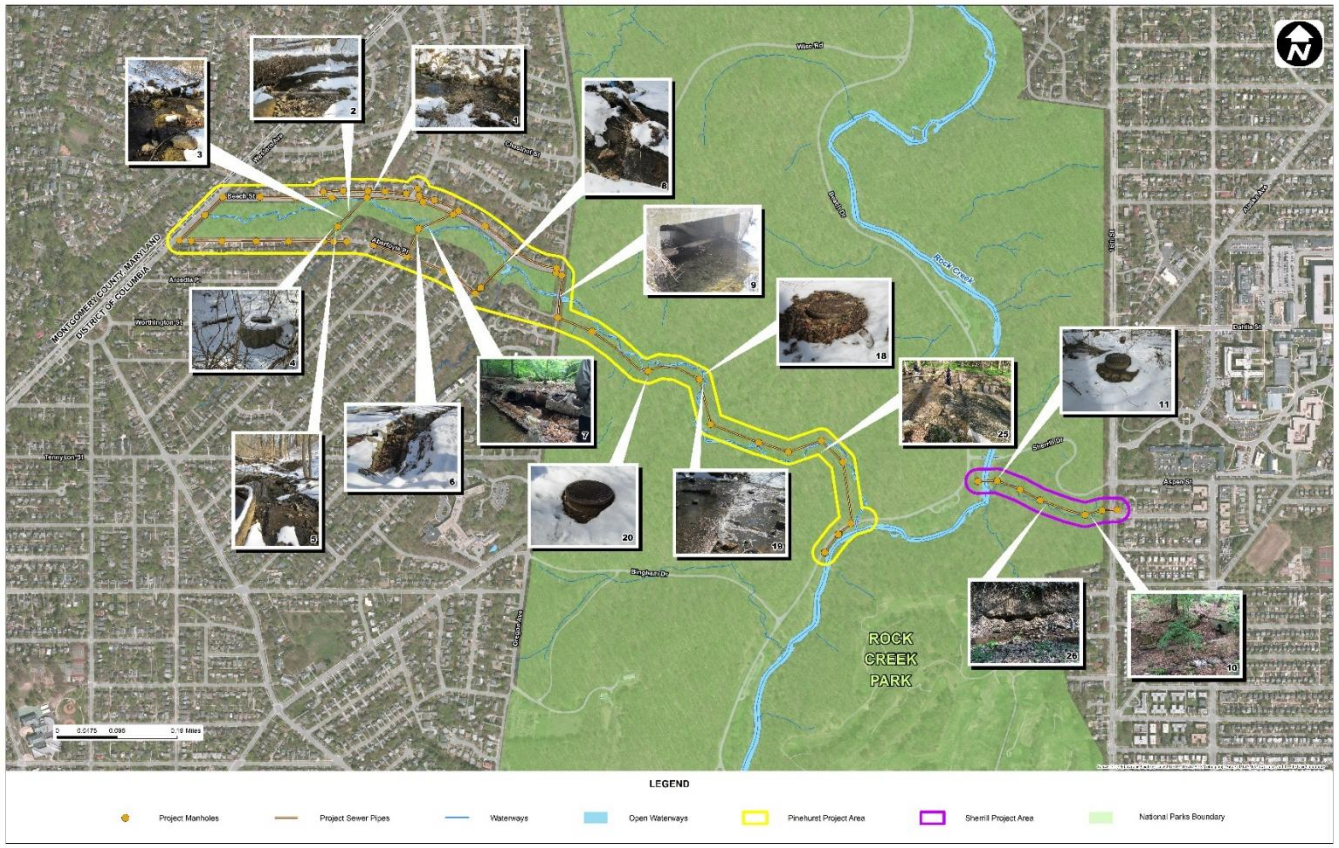
Blue Plains Advanced Wastewater Treatment Plant (AWWTP)



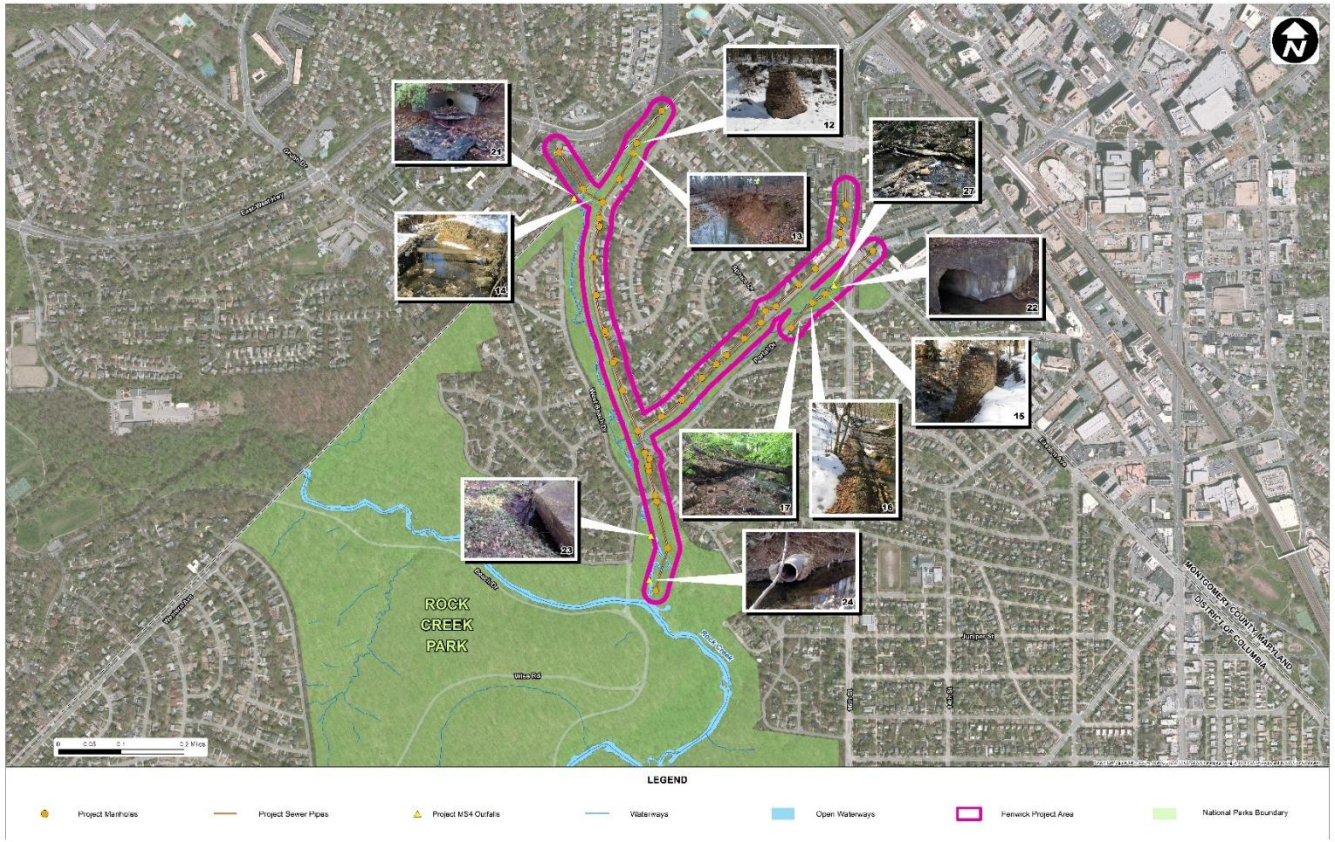
- Quick Facts about PSF:
  - Surrounded by residential neighborhoods and businesses that are served by the sewer system
  - Over 22,000 linear feet of sewer pipe in the project area
  - Approximately 107 manholes in the project area
  - Installed between 50 and 75 years ago
  - Pipes are primarily made of vitrified clay pipe (VCP)
  - Manholes are primarily made of brick
  - 50-year service life has been exceeded by up to 25 years

# Pinehurst and Sherrill Project Areas




**Exposure Photo Key Map**
**for**
**Pinehurst Branch and Sherrill Drive Project Areas**
**March 2015**

# Fenwick Project Area




Exposure Photo Key Map
for
Fenwick Branch Project Area
June 2015

# Introduction

- Failures have required emergency repairs in recent years. Such failures are costly and may result in significant impacts to the environment.

- Some short term solutions have been put in place to prevent catastrophic failure.

- Long-term solutions are needed to repair, rehabilitate, and/or replace infrastructure exhibiting defects and exposures.

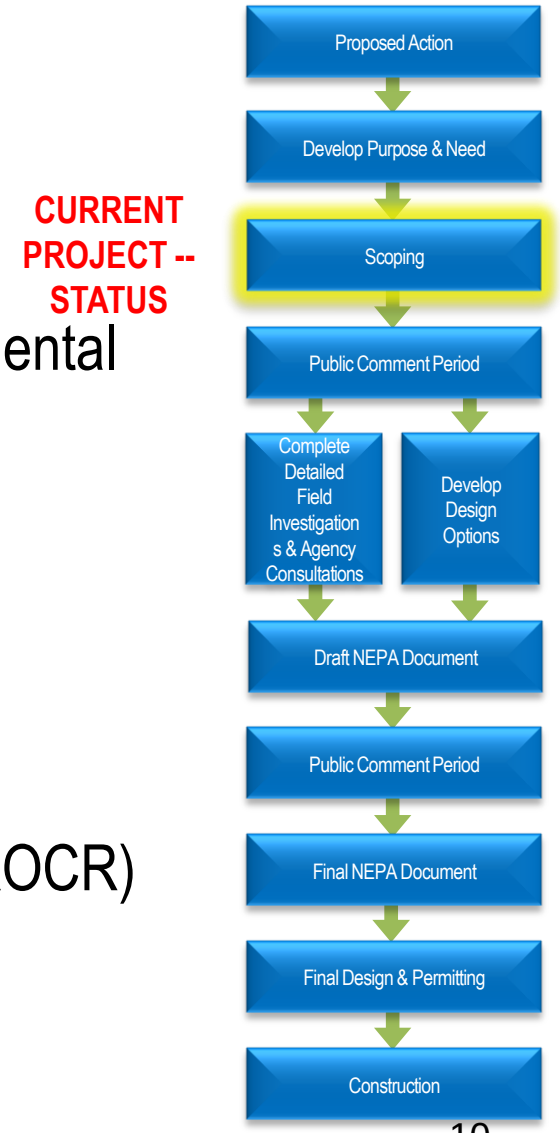
# NEPA

## – What is NEPA?

- National Environmental Policy Act
- Requires federal agencies to consider environmental impacts of their actions
- Requires public involvement

## – Why does it apply to this project?

- Majority of project in NPS's Rock Creek Park (ROCR)
- Impacts to ROCR constitute a "federal action"
- DC Water working closely with NPS on NEPA documentation

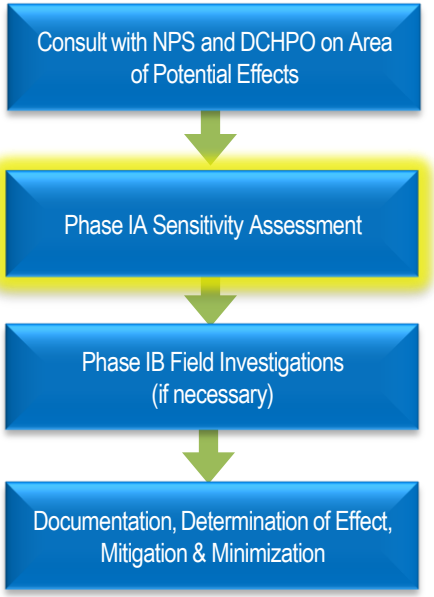


# NHPA

## – What is NHPA?

- National Historic Preservation Act
- Preserves “historic properties” included in or eligible for National Register of Historic Places districts, sites, buildings, structures, objects
- Federal agencies must consider effects of their projects on historic properties

CURRENT PROJECT -- STATUS




## – Why does it apply to this project?

- Majority of project in NPS’s Rock Creek Park (ROCR)
- Section 106 of NHPA requires federal agencies to consider effects of their projects on historic properties
- DC Water working closely with NPS on Section 106 consultation

# Current and Completed Work to Date:

- Closed Circuit Television (CCTV) investigations completed – reviewing and assessing data
- Performing natural resource investigations and site surveys of topography and infrastructure
- Section 106 of the National Historic Preservation Act consultation in progress

# Purpose

- Repair, rehabilitate and/or replace PSF sanitary sewer infrastructure to rectify defects and exposures that will lead to collapse, exfiltration, or sanitary sewer overflows (SSOs) as time progresses
- Maintain and/or provide adequate internal sewer system hydraulic capacity to avoid SSOs
- Protect sewer assets from future damage and exposure caused by erosion
- Meet regulatory requirements of Clean Water Act and National Pollutant Discharge Elimination System (NPDES)
- Repair and stabilize Municipal Separate Storm Sewer (MS4) outfalls contributing to water quality degradation and/or stream erosion

# Need

- Deteriorated pipes and manholes exhibiting defects such as deposits, cracks, fractures, breaks, voids/holes, infiltration, joint offsets or separations, deformations, and unsafe access

- Exposed sanitary sewer pipes and manholes in or adjacent to streams

- NPDES MS4 permit requirement to repair four NPDES MS4 outfalls in disrepair and contributing to water quality degradation and stream erosion

# External Defects

Pinehurst

Pinehurst

# External Defects

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# External Defects

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# Internal Defects



# Fenwick 4 MS4 Outfalls

- Outfall F-079 – Section of pipe and headwall has collapsed into Fenwick Branch


- Outfall F-080 – Spillway erosion and scour has occurred

# Purpose & Need

## Fenwick 4 MS4 Outfalls

- Outfall F-353 – Outfall Contributing to downstream channel erosion and widening


- Outfall F-865 – Outfall structure has collapsed into Fenwick Branch

# Potential Project Options

- No Action
- Remove sewer flow from park (could include new pump stations)
- Open cut replacement and/or point repair
- Trenchless rehabilitation of pipes
- Install siphons
- Realignment
- Grout repair
- Stream stabilization in areas of exposures
- Replace frame and cover
- Reset frame and cover
- Chemical root treatment
- Cementitious lining
- Internal frame seal
- Combination of above

NOTE: Project options will be determined based on localized conditions.
Project options will not be finalized until natural resources have been identified.

# Potential Project Options

## Open cut replacement and/or point repair

Before


After

# Potential Project Options

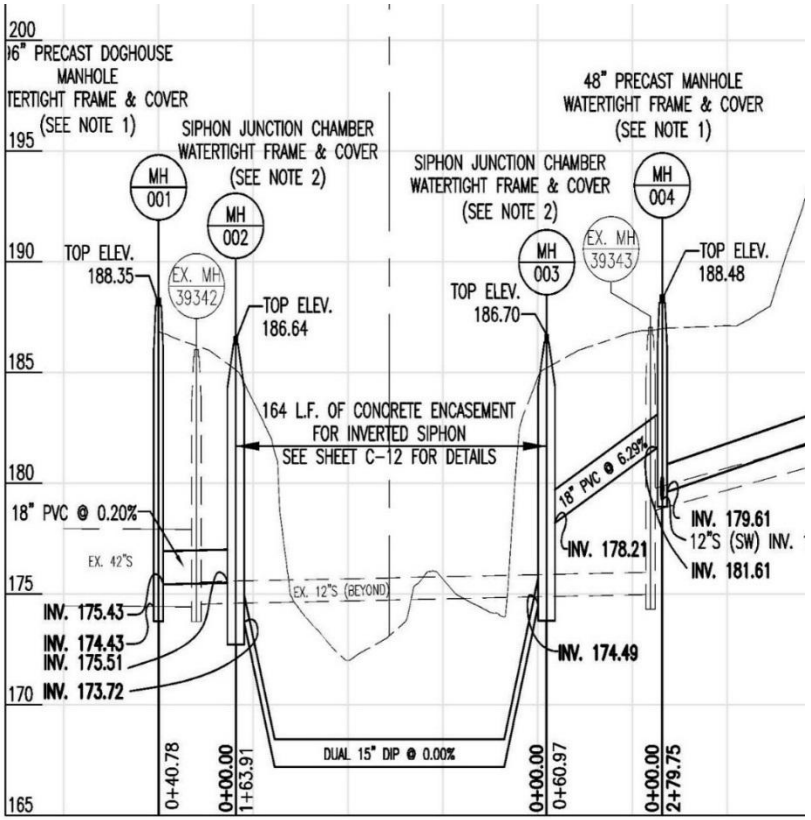
## Trenchless rehabilitation of pipes

Before

After

# Potential Project Options

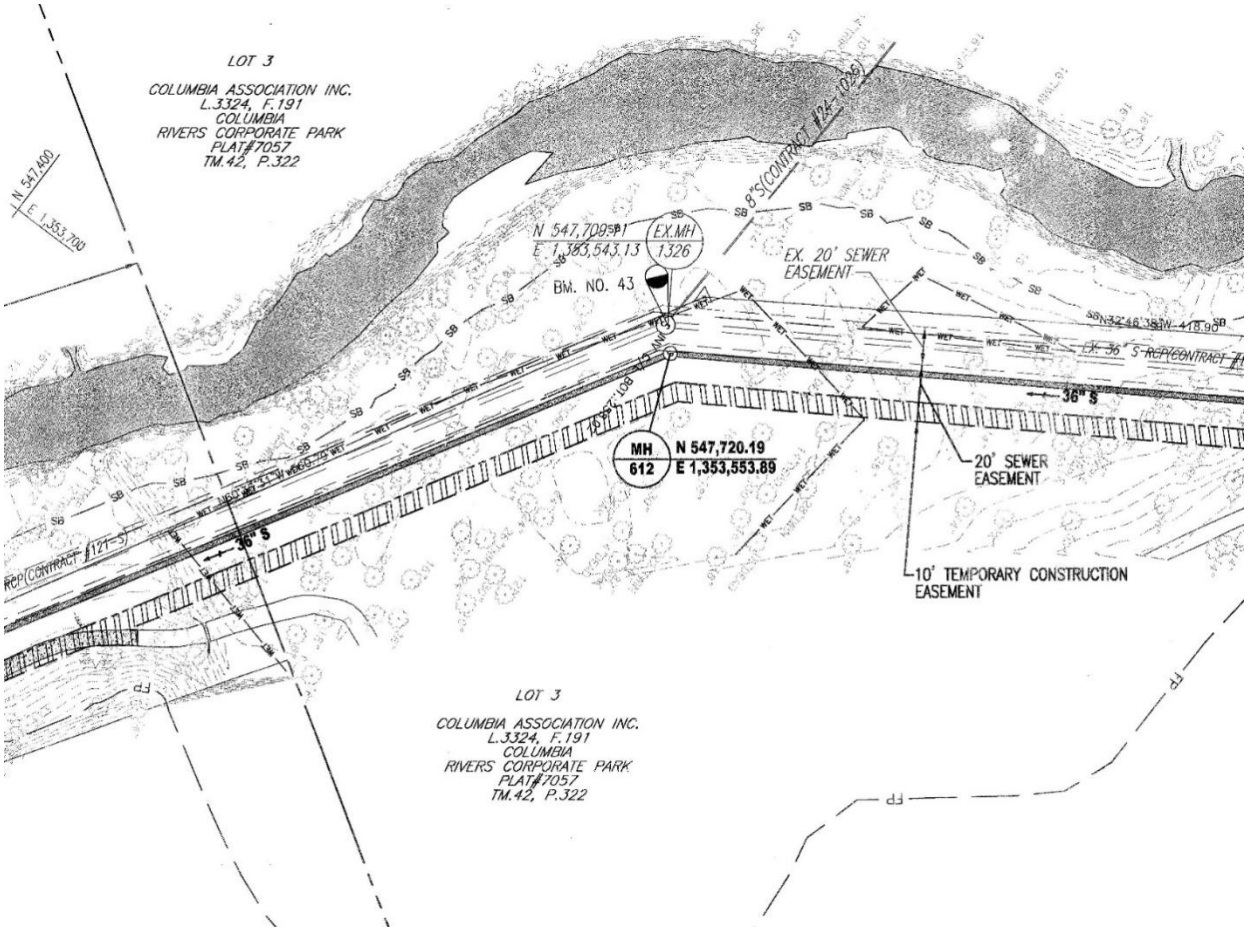
## Install siphons




(Design plan example provided for illustration purposes only.)

# Potential Project Options

## Realignment




(Design plan example provided for illustration purposes only.)

# Potential Project Options

## Stream stabilization in areas of exposures

Before

After

# Potential Project Options

## Stream stabilization in areas of exposures

Before

After

# Environmental Constraints/Challenges

- Recreational Trails
- Trees
- Rare, Threatened/Endangered Species
- Waterways
- Fish Passage
- Wetlands
- 100-year floodplain
- Historical & Cultural resources
- Access


**Hay's Spring Amphipod (*Stygobromus hayi*)**



**Northern Long-Eared Bat (*Myotis septentrionalis*)**

# Next Steps & Preliminary Schedule

- Scoping Comment Period next 30 days

- Next NEPA Compliance Steps:
  - Publish NEPA document(s)
  - Comment Period
  - Publish Final NEPA document
  - Complete Final Design and Permitting
  - Bid and Construction

# Questions?

- Please Provide Comments today
- Submit comments via NPS' Planning, Environment & Public Comment (PEPC) website: www.parkplanning.nps.gov

- For more information, please contact:

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