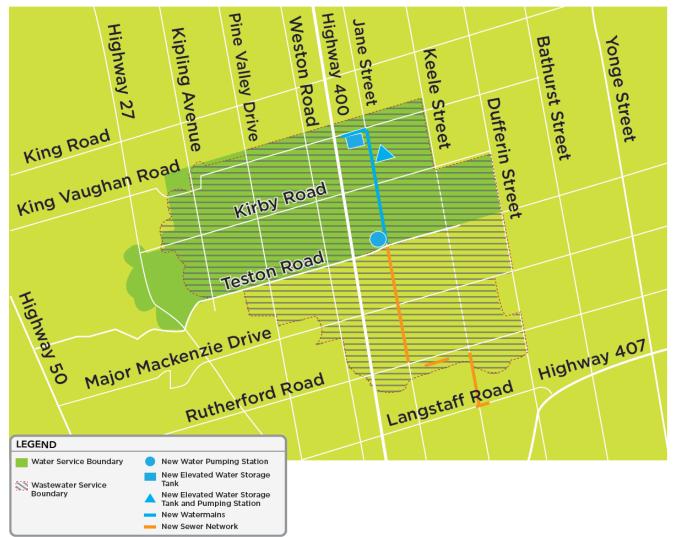
# NORTHEAST VAUGHAN WATER AND WASTEWATER SERVICING PROJECT



### **Purpose**

#### **Meeting Purpose:**

- To present the preferred water and wastewater infrastructure for servicing northeast Vaughan
- To obtain input on the proposed impact management measures/monitoring and post EA approvals/requirements
- To discuss the next steps and filing of the Project File Report



## **Agenda**

1	Introductions and Project Update
2A	Water Pumping Stations, Elevated Tanks, and Watermains
2B	Impact Mitigation, Proposed Monitoring and Post EA Approvals
ЗА	Trunk Sewer and Construction Shafts
3B	Impact Mitigation, Proposed Monitoring and Post EA Approvals
4	Next Steps and Submission of the Project File Report

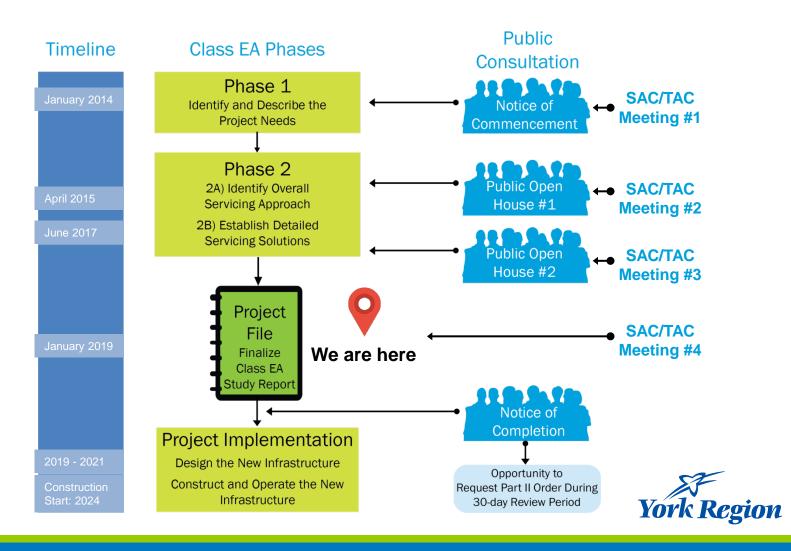


### **Introductions and Project Update**



### **Project Timeline and Status**

Municipal Class Environmental Assessment Process (Schedule B)



# Pumping Stations, Elevated Tanks, and Watermains



### **Overview of Servicing Approach**

#### **Optimize**





#### **Upgrade**



- Adjust water levels in existing storage tanks
- Share water from other pressure zones
- Upgrade Maple Pumping Station
- Repair existing sewer leaks

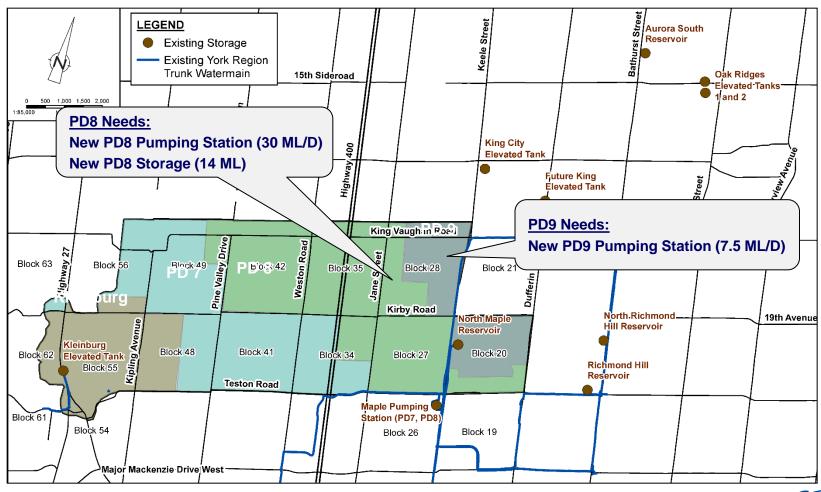
Construct New Water and Wastewater Infrastructure



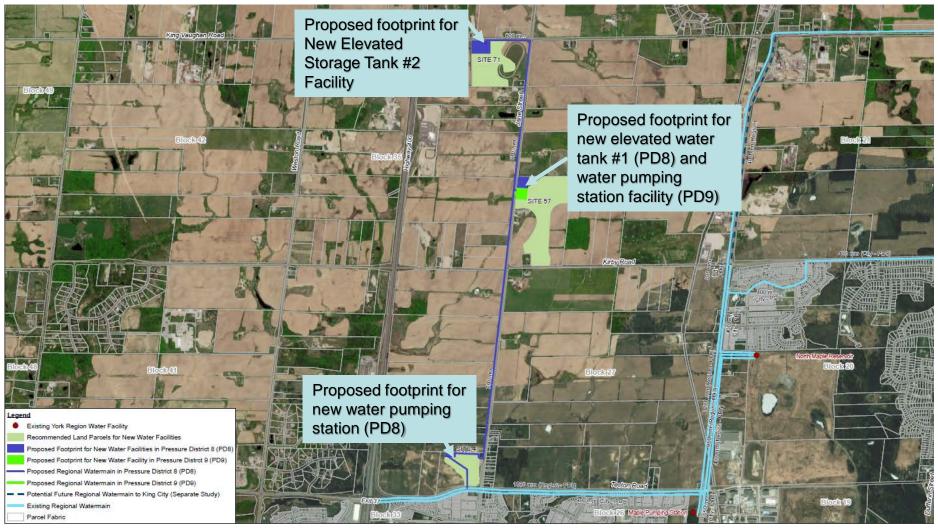
New pumping stations, elevated water tanks, watermains and trunk sewer



# Water Service Area and Infrastructure Needs



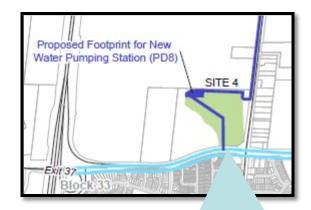
PD = Pressure District



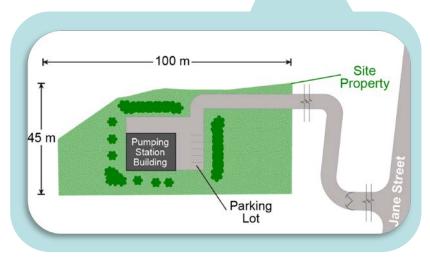


# New Water Infrastructure (New PD8 Water Pumping Station)

#### Location



**Site Layout** 



**Digital Rendering** 



**Construction to Begin as Early as 2024** 

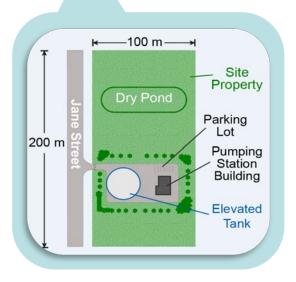


(New PD9 Water Pumping Station and Elevated Water Tank #1)

#### Location



Site Layout



Digital Rendering

Looking east from Jane Street



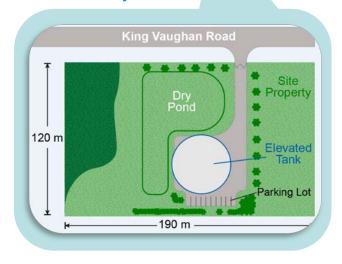
**Construction to Begin as Early as 2024** 

(New Elevated Water Tank #2)





**Site Layout** 



Digital Rendering

Looking south from King Vaughan Road



**Construction to Begin as Early as 2024** 

\*The exact location of Elevated Water Tank will be confirmed as part of detailed design.



(New Watermains)

New watermain on Jane Street from PD8 Pumping Station to PD9 Pumping Station and Elevated Tanks #1 and #2



**Example of Roadside Watermain Chamber Vent** 

Proposed Footprint for New Elevated Water Storage Tank #2 Facility (PD8) Block 28 Proposed Footprint for New Elevated Water Storage Tank #1 (PD8) and Water Pumping Station Facility (PD9) SITE 57 Cony PD9 Block 27 Block 34 Proposed Footprint for New SITE 4 1800 mm (Region - PD8) 900 mm (City - PD8)

**Construction to Begin as Early as 2024** 

# What Will the Water Facilities and Watermain Construction Look Like?

**Pumping Station Construction** 



**Elevated Tank Construction** 



**Watermain Construction** 

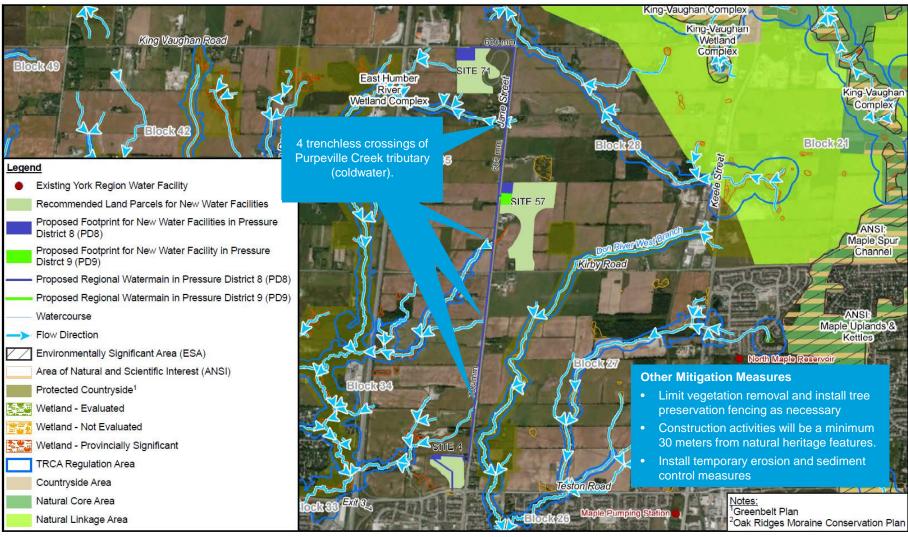




# Impact Mitigation, Proposed Monitoring and Post EA Approvals



### **Natural Environment (Water)**



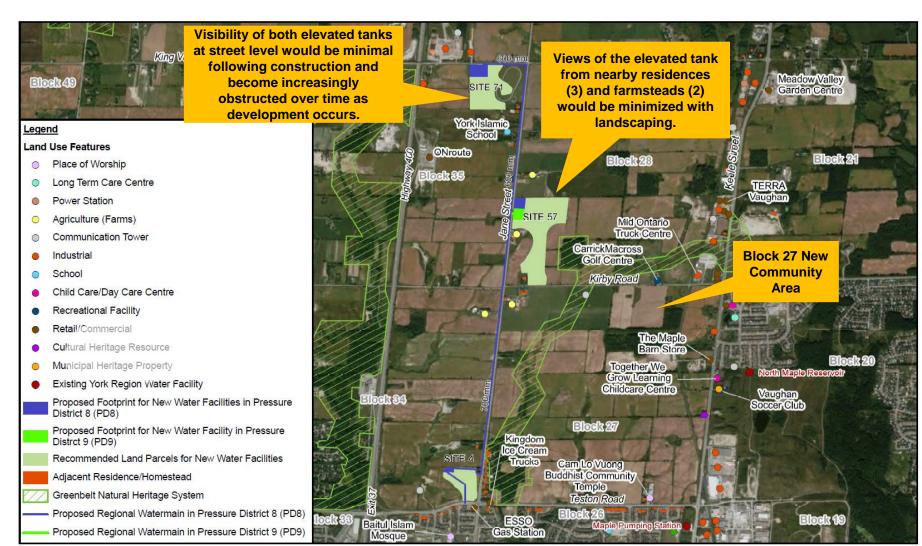


### **Archaeology and Cultural Heritage (Water)**





### **Existing and Future Land Uses (Water)**





# Water Infrastructure Construction Impact Management Measures

- Locate all work site areas a minimum of 30 m from any surface water feature
- Limit removal of vegetation, especially mature trees and shrubs
- Workspaces that are limited to road right-of-ways as much as possible
- Some need for easements, to be negotiated
- Lane closures with traffic management plans
- Best management practices for noise, vibration and dust
- On and off-hours contact information for public inquiries



### **Proposed Monitoring Programs**

- Tree protection fencing during construction
- Ground settlement monitoring in close proximity to transportation corridors
- Pre-construction baseline soil sampling and construction phase soil management
- Vibration management program
- Surface water monitoring program during construction



## **Post EA Approvals**

Approval Authority	Anticipated Post-EA Permits and Approvals Required	Legislation or By-Law Reference
Municipal and Regiona	ıl	
City of Vaughan	Road Cut (Road Occupancy) Permits	By-Law #294-94
	Noise Control By-Law	By-Law #96-2006
	Dewatering Discharge Permit	By-Law #087-2016
York Region	Road Occupancy Permits	Not subject to legislation/by-law
	Dewatering Activity Discharge Approval	By-Law # 2011-56 and 2012-70
Utility Authorities	Consent from: Hydro One Networks Inc. Bell Canada Rogers PowerStream Cogeco Telus Allstream Inc. TransCanada Pipe Lines Limited	Not subject to legislation or by-law
Toronto Region Conservation	Permit for Development, Interference with Wetlands and Alterations to Shorelines and Watercourses	Ontario Regulation 166/06 under the Conservation Authorities Act
Authority	Erosion and Sediment Control Plan and Surface Water Management Plan	Conservation Authorities Act
Provincial		
Ministry of the Environment,	Permit to Take Water (PTTW) or Environmental Activity and Sector Registry(EASR)	Ontario Water Resources Act
Conservation and	Drinking Water Works Permit (DWWP)	Environmental Protection Act
Parks	WHPA Q1/Q2 policy area, and Significant Groundwater Recharge Area	Clean Water Act
	Permit or Registry	Endangered Species Act
Ministry of Tourism, Culture and Sport	Compliance letter	Ontario Heritage Act
Federal		
Fisheries and Oceans Canada	Self-Assessment/Letter of Advice or Authorization	Fisheries Act Species at Risk Act
Property Agreements		
Property Owners	Permanent and temporary easements from affected property owners	Not subject to legislation or by-law

### Implementation Schedule

York Region's current anticipates implementation of the new water infrastructure in service by 2028.



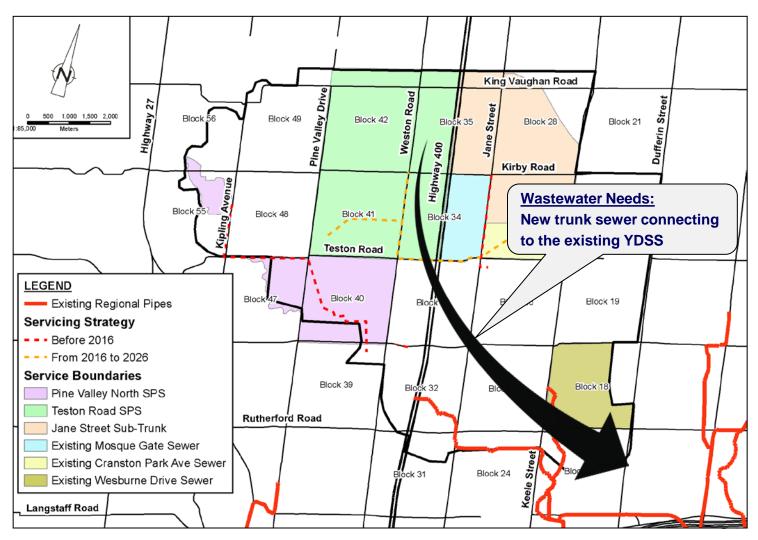
The anticipated implementation timeline is based on known information at this time and is subject to change.



#### **Trunk Sewer and Construction Shafts**



# Wastewater Service Area and Infrastructure Needs



#### **Trunk Sewer Route and Construction Shafts**



New Sewer Segment #1 (along Jane Street)

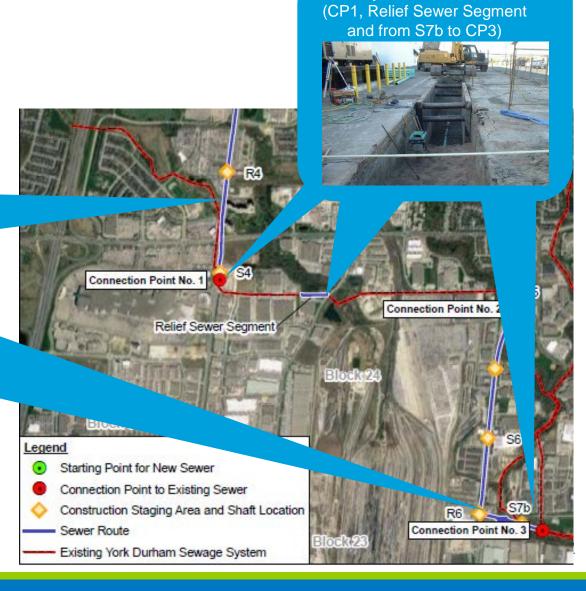
New Sewer
Segment #3
(along sewer easement
south of
Rutherford Road)

New Sewer
Segment #2
(along Keele Street and
Langstaff Road)



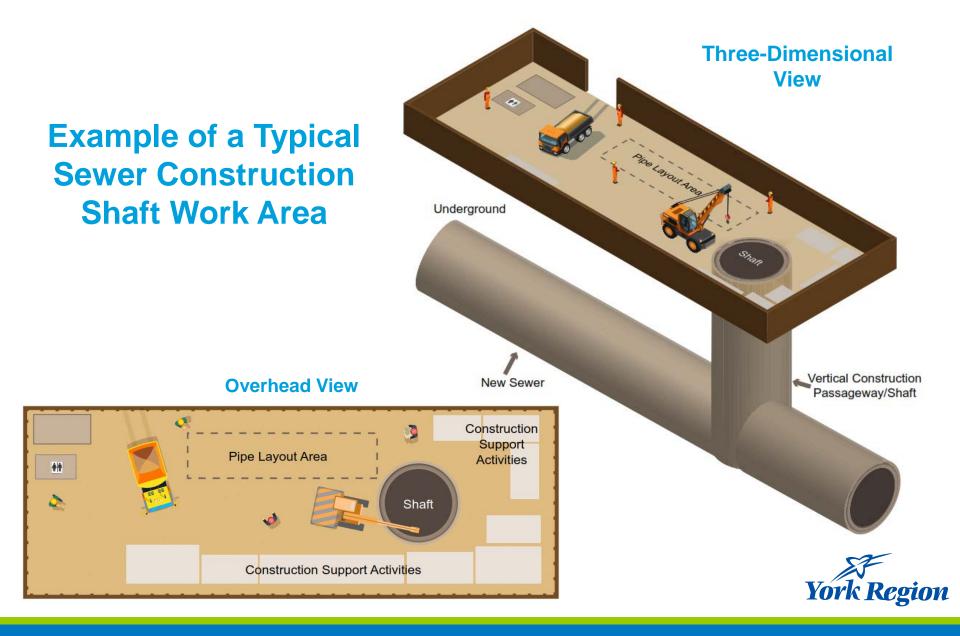
#### What Will the Sewer Construction Look Like?





**Open Excavation** 

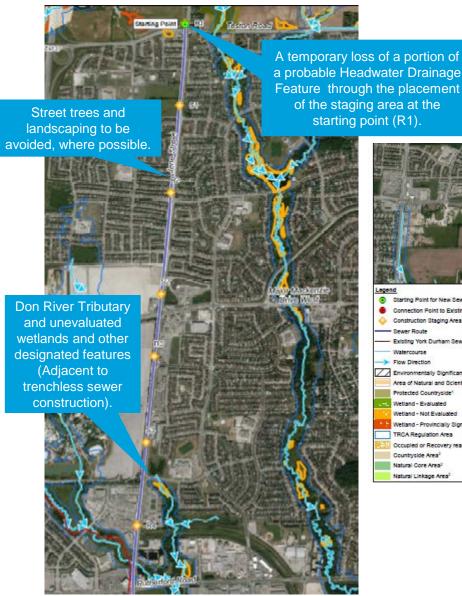
#### What Will the Sewer Construction Look Like?



# Impact Mitigation, Proposed Monitoring and Post EA Approvals

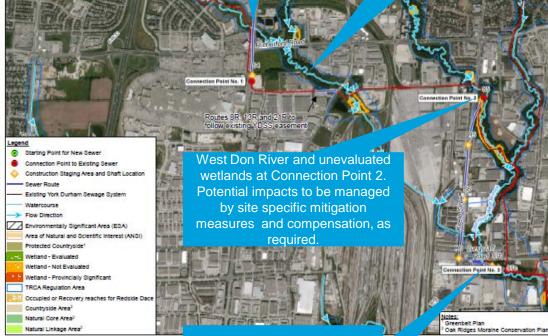


### **Natural Environment (Sewer)**



Don River Tributary (Above trenchless sewer construction).

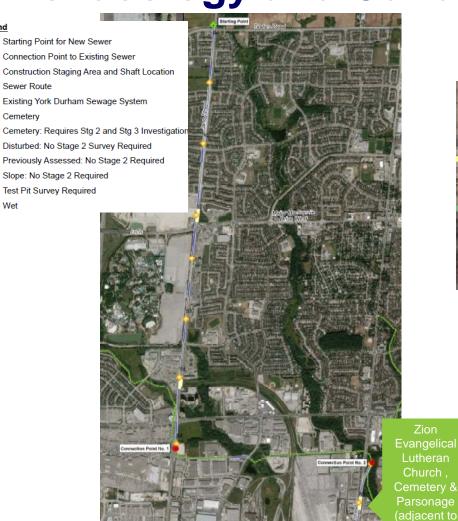
Don River Tributary, unevaluated wetlands and other designated features (Adjacent to sewer construction).



West Don River at Connection Point 3. Potential impacts to be managed by site specific mitigation measures and compensation, as required.



### **Archaeology and Cultural Heritage (Sewer)**



Legend

#### **S7b and Connection Point No. 3**



Complete a Stage 2 test pit survey to confirm the presence of any archaeological resources within the shaft construction compounds for S7b and CP3.

Complete Stage 3 Archaeological Assessment as required.

Stage 2 Archaeological Assessment will be completed during detailed design.

#### **Existing and Future Land Uses (Sewer)**



Yard



# Sewer Construction Impact Management Measures

- Locate all work site areas a minimum of 30 m from any surface water feature
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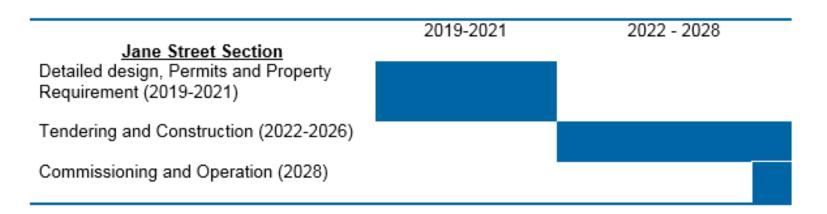


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Federal		
Fisheries and Oceans Canada	Self-Assessment/Letter of Advice or Authorization	Fisheries Act
Property Agreements		
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### Implementation Schedule

- Presently proposed to be constructed over a longer period.
- The first section along Jane Street from Teston Road to just south of Rutherford Road is anticipated to be in service as of 2028.



 The Keele Street/Langstaff Road section is anticipated to be implemented by 2041 and the relief sewer by 2051.

## **Next Steps**



### **Anticipated Project Schedule**



 Provide Draft Project File (Class EA Report) to Agencies for Review

March 2019 Finalize Project File

March 2019  Issue Notice of Study Completion for 30-Day Review Period



#### **Thank You!**

