Drumbo Wastewater Treatment Plant Class Environmental Assessment

Public Consultation Centre #1
June 16, 2016

XCG
Environmental Engineers & Scientists

Welcome to Public Consultation Centre No. 1

Oxford County is undertaking a Schedule C Class Environmental Assessment to develop a wastewater treatment plan for the Community of Drumbo to service existing and planned growth in the community.

The Drumbo **Wastewater Treatment Plant (WWTP)** Class EA will also consider the potential to provide wastewater treatment for the Community of Princeton at an expanded or new Drumbo WWTP.

Welcome to Public Consultation Centre No. 1

The purpose of PCC#1 is to:

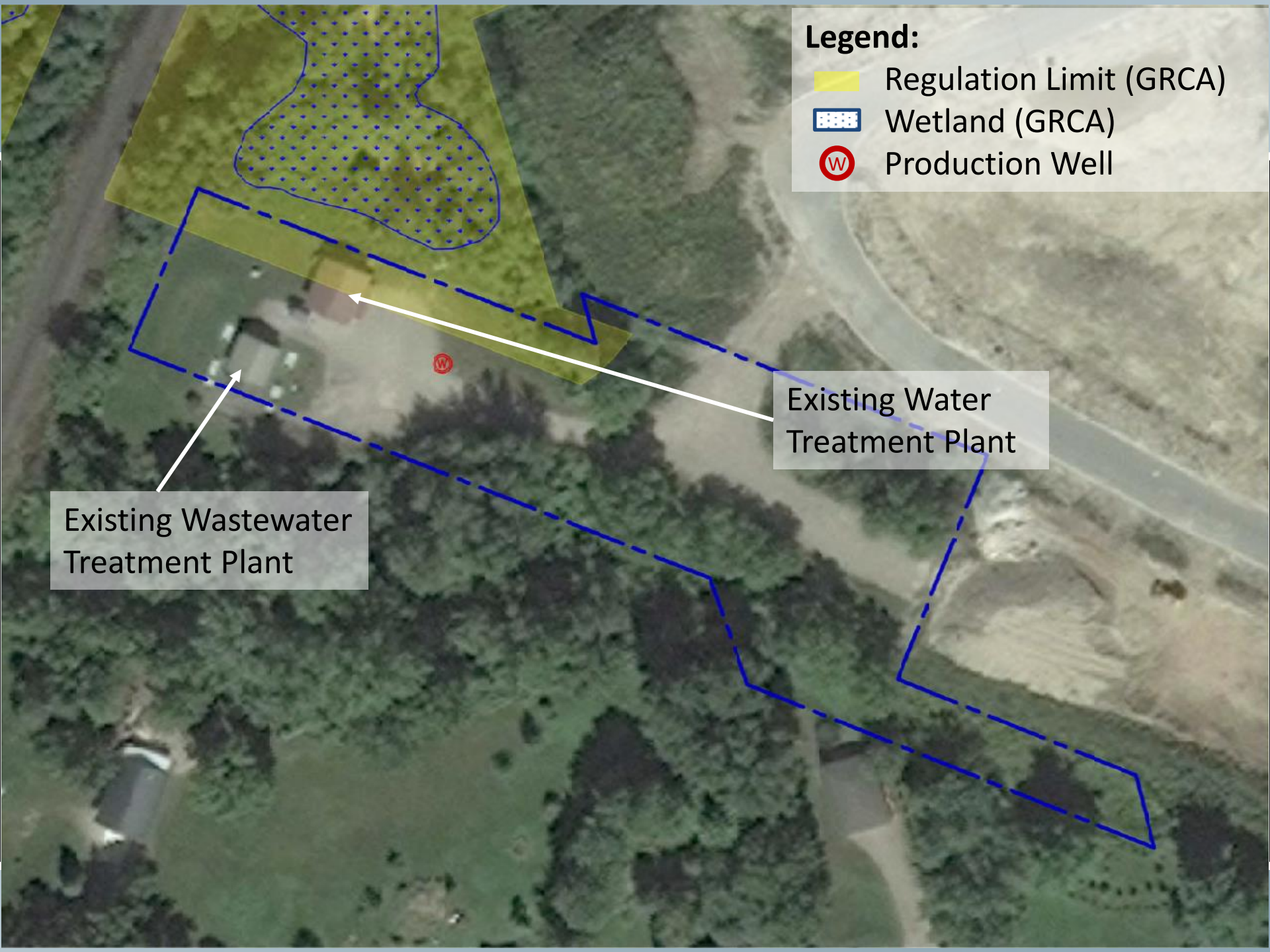
- Provide background information about the study
- Present the problem/opportunity statement that will guide the study
- Present the alternatives that will be evaluated in Phase 2 of the Class EA process
- Outline next steps and schedule

At least one more PCC will be held to present the preferred WWTP upgrade alternative.

Background – Drumbo WWTP Class EA

- Existing WWTP is a Sequencing Batch Reactor (SBR) with tertiary filtration and ultraviolet disinfection, and a discharge to the Cowan Drain
- Original design capacity was 272 m^3/d. In February 2015, the plant was re-rated to a design capacity of 300 m^3/d
- In 2015, the annual average day flow was 228 m^3/d, or 76% of the re-rated design capacity

XCG
Environmental Engineers & Scientists


Legend:
Regulation Limit (GRCA)
Wetland (GRCA)
Production Well
Existing Water Treatment Plant
Existing Wastewater Treatment Plant

Background – Princeton WW Servicing Study

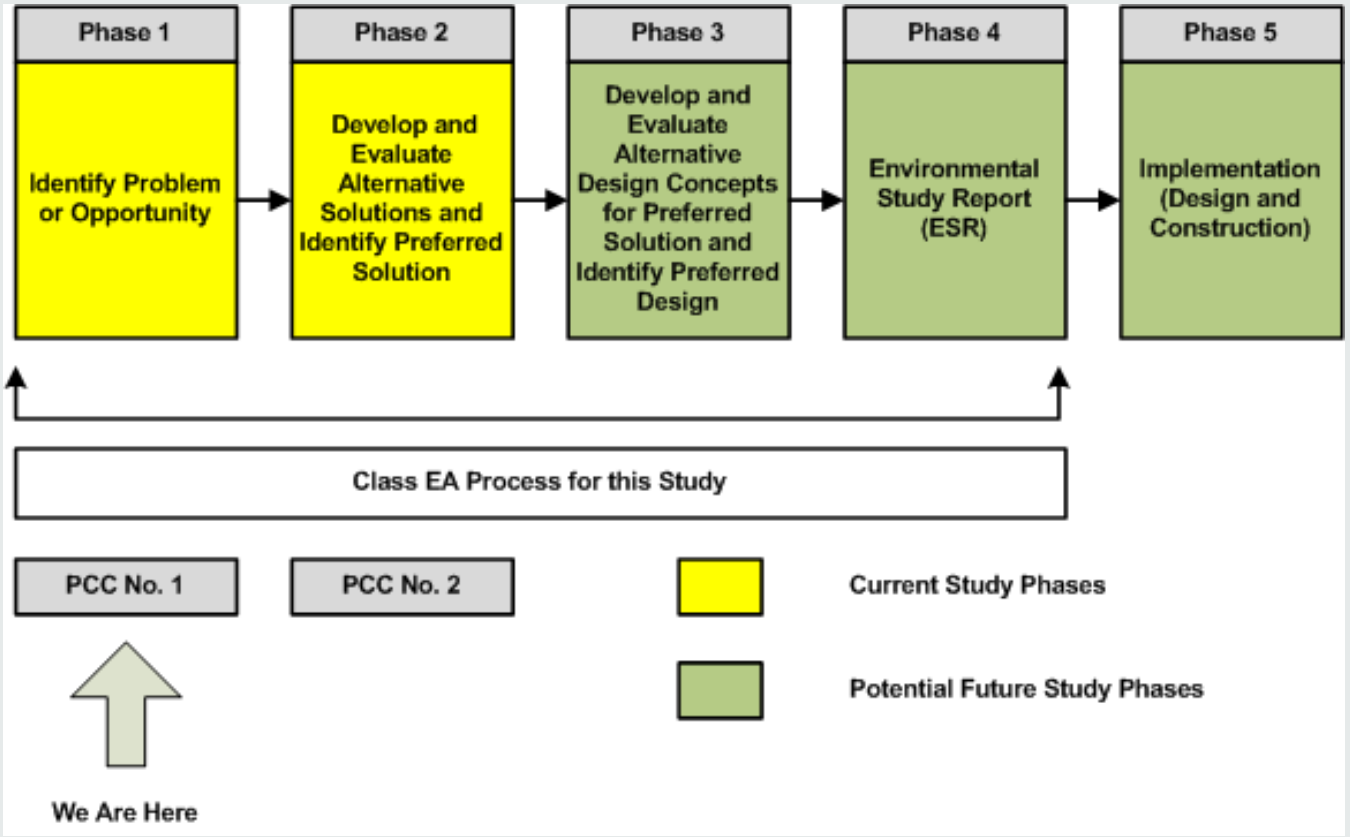
- Initiated in February 2011 as a Schedule C Class EA
- After consideration of alternatives to provide wastewater servicing, it was concluded that the Ministry of the Environment and Climate Change (MOECC) would not approve a sub-surface discharge system or a direct discharge to Horner Creek
- A collection system and treatment plant with direct discharge to Nith River was deemed to be economically unsustainable
- A Wastewater Servicing Study Report was prepared recommending continued reliance on private systems with a supporting Outreach/Education program to be delivered by Oxford County Public Health

Background – Princeton WW Servicing Study

- A local landowner proposed an alternative servicing solution to the County that would service the existing community plus a residential development of 324 units
- The alternative servicing solution also involved a collection system and treatment plant with discharge to the Nith River, but with costs distributed over more lots
- County Council directed staff to further examine this proposed alternative servicing solution
- Examination of the alternative servicing solution will be undertaken in parallel with the Drumbo WWTP Class EA

Municipal Class Environmental Assessment Process

Phases of the Study:



Public Consultation Centres (PCCs):

XCG Environmental Engineers & Scientists

Drumbo WWTP Class EA – Problem/Opportunity Statement

Develop a wastewater treatment plan for the Community of Drumbo that is environmentally responsible, socially acceptable and economically sustainable to accommodate existing and future development within the community to at least 2036. The Drumbo WWTP Class EA will also consider the potential to provide servicing for the Community of Princeton at an expanded or new Drumbo WWTP.

Alternatives Being Considered

Alternative Solution	Description
Alternative 1 – “Do Nothing”	No additional wastewater treatment capacity for Drumbo and no treatment of Princeton wastewater at the Drumbo WWTP.
Alternative 2 – Service Drumbo growth at an expanded Drumbo WWTP	Expand the Drumbo WWTP to service growth in Drumbo. No treatment of Princeton wastewater at the Drumbo WWTP.
Alternative 3 – Service Drumbo growth at a new Drumbo WWTP at a new site	Construct a new Drumbo WWTP at a new site to service growth in Drumbo. No treatment of Princeton wastewater at the new Drumbo WWTP.

XCG
Environmental Engineers & Scientists

Alternatives Being Considered

Alternative Solution	Description
Alternative 4A/4B – Service Drumbo growth and Princeton at an expanded Drumbo WWTP	Expand the Drumbo WWTP to service growth in Drumbo and wastewater from Princeton, excluding (4A) or including (4B) proposed new development units in Princeton.
Alternative 5A/5B – Service Drumbo growth and Princeton at a new Drumbo WWTP at a new site	Construct a new Drumbo WWTP at a new site to service growth in Drumbo and wastewater from Princeton, excluding (5A) or including (5B) proposed new development units in Princeton.

Evaluation Methodology

- Evaluation criteria will consider natural, social, technical, and economic impacts
- Evaluation criteria and weighting will be presented to the Steering Committee that has been formed to guide the project
- Evaluation will consider public input received at two to three scheduled Public Consultation Centres (PCCs)

Proposed Next Steps and Schedule

- Steering Committee Meeting No. 1 – June 2016
- Complete evaluation of alternatives and recommend Preferred Servicing Alternative – August 2016
- Present recommended Preferred Servicing Alternative at Steering Committee Meeting No. 2 – September 2016
- Hold Public Consultation Centre No. 2 to present the recommended Preferred Servicing Alternative – Fall/Winter 2016
- Initiate Phase 3 of the Drumbo WWTP Class EA – Fall/Winter 2016 (depending on outcome of Phase 2 of the Class EA process)

We'd Like to Hear From You

Please deposit your comment sheet in the box provided or forward to the County.

Contact information:

Mark Maxwell
Oxford County
Department of Public Works
21 Reeve St., PO Box 1614
Woodstock ON N4S 7Y3

519-539-9800, ext. 3195
mmaxwell@oxfordcounty.ca

Stephen Nutt
Project Manager
XCG Consultants Ltd.
820 Trillium Drive
Kitchener ON N2R 1K4

519-741-5774
stephen.nutt@xcg.com

XCG Environmental Engineers & Scientists