



Environmental Impact Study (EIS)

Table of Contents

1. **Introduction**
 - A. Study Area
2. **Project Methodology**
 - A. Guiding documents and relevant studies
 - B. Data Sources
 - C. Geology and Hydrogeology
 - D. Ecology
 - E. Planning
 - F. Engineering
3. **Policy Framework**
 - A. Provincial Policy Statement
 - i. Natural Heritage Reference Manual
 - ii. Significant Wildlife Habitat Technical Guide
 - B. Region of Waterloo Official Plan
 - C. City of Kitchener Official Plan
 - D. City of Kitchener Natural Heritage System Technical Background Report (KNHS)
 - E. Ontario Endangered Species Act
 - F. Grand River Conservation Authority Ontario Regulation 150/06
 - G. Federal Fisheries Act
4. **Field Inventories**
 - A. Terrestrial Field Surveys
 - i. Vegetation Surveys
 - ii. Breeding Bird Surveys
 - iii. Amphibian Surveys (see also (B) below)
 - iv. Other Wildlife
 - B. Aquatic Field Surveys
 - i. Benthic Surveys
 - ii. Fish Community Surveys
 - iii. Fish Habitat Assessment
 - iv. Amphibian Surveys (see also (A) above)
 - C. Significant Wildlife Habitat Assessment (See KNHS Section 3.5)
 - i. Seasonal Concentration Areas
 - ii. Rare Vegetation Communities



- iii. Specialized Wildlife Habitat
- iv. Habitats of Species of Conservation Concern
- v. Animal Movement Corridors

D. Species at Risk Screening (See KNHS Section 3.1)

5. Existing Conditions

A. Physical Characteristics

- i. General Topography & Geology (including Significant Landforms, see KNHS Section 3.6)
- ii. Surficial Soils
- iii. Groundwater System (See KNHS Section 3.10)
- iv. Surface Drainage

B. Vegetation (See KNHS Sections 3.2, 3.3 and 3.4)

- i. Vascular Flora
- ii. Vegetation Communities
- iii. Tree Inventory (per: methods in City's *Tree Management Policy*)

C. Wildlife

- i. Birds
- ii. Herpetofauna
- iii. Mammals
- iv. Butterflies
- v. Other Wildlife

D. Aquatic Ecosystem (See KNHS Section 3.7)

- i. Benthic Community
- ii. Fish Community
- iii. Fish Habitat Assessment

E. Linkages (See KNHS Section 3.8)

F. Buffers

6. Significance and Sensitivity of Natural Features

7. Impact Analysis

A. Description of the Proposed Undertaking

B. Approach to Impact Analysis

C. Opportunities for Restoration and Enhancement (See KNHS Section 3.9)

D. Direct Impacts

E. Indirect Impacts, including e.g.

- i. Encroachment into Buffers
- ii. Surface Water Changes



- iii. Groundwater
- iv. Stormwater Management
- v. Sediment and Erosion
- vi. Indirect Impacts to Wildlife

F. Residual Impacts

G. Induced Impacts (Increased Human Use)

H. Cumulative Impacts

8. Summary and Recommendations

A. Limit of Development

B. Mitigation

- i. Construction and Design Related
- ii. Post-Development

C. Monitoring

- i. Prior to Construction
- ii. During Construction
- iii. Subsequent to Construction

EXAMPLE