WATER SUPPLY AND DEMAND ANALYSIS TEMPLATE

Please see Dealing with Drought: A Handbook for Water Suppliers in British Columbia (LWBC 2004) for a description of what to include in each section. Note that it may not be necessary or possible to complete each section.

INTRODUCTION

- Study Area
- Background
- Water Management Issues and Concerns
- Purpose and Objectives of Study

BASIN DESCRIPTION

- Location and Size
- Population
- Land Use (Agriculture, Forestry, Urban, Future Land Use)
- Basin Features

WATER RESOURCES

- Surface Waters
  - Streamflow Records
  - Reservoir and Lake Levels
  - Inflows to Treatment/Distribution Infrastructure
  - Effects of Storage and Diversion
  - Critical Low Flows and Probabilities
- Groundwater
  - Description of Groundwater Resource
  - Water Well Data
  - Groundwater Potential

WATER QUALITY

- Surface Water Quality
  - Data Collection
  - Water Quality Assessment
  - Trend Assessment
  - Potential Effects of Low Flows
- Groundwater Quality
  - Data Collection
  - Groundwater Quality Assessments
  - Aquifer Contamination Potential

WATER RESOURCE USES

- Surface Water Rights
- Instream Water Requirements
- Identification of Species at Risk
- Identification of Designated Sensitive Streams
- Groundwater Uses
- Downstream Uses
- Future Water Resource Requirements

WATER MANAGEMENT ANALYSIS

Natural Flows
Demands (by customer sector, where possible)
Supply/Demand Comparison
Quantification of System Leaks
Analysis Results
Assessment of Demand Management Potential and Supplementary Storage

CONCLUSIONS AND RECOMMENDATIONS