

Environmental Engineering Services

Our clients demand quality. Quality of the water we drink, quality of our lakes, rivers, streams and aquifers, even the quality of the wastewater we discharge.

Our clients share a fundamental commitment to protect and enhance environmental quality and have depended on us for over 40 years to help them maintain the quality of our environment while still meeting their needs.

A core group of specialists at our head office in Whitby, supplemented by branch offices across Ontario, bring local knowledge

TSH's multidisciplinary breadth and depth allows us to deliver every aspect of your project under one roof.

and a personalized approach to every project. Regardless of your project's size or scope, our co-ordinated team approach assures accountability and enhanced project efficiency for every client.

We are committed to producing design solutions that ensure economy without compromising sustainability, environmental responsibility or fundamental system integrity. Conscious that there is no one-size-fits-all solution, we offer the most up-to-date, technologically appropriate solutions for your needs.



Water Treatment Plant, Bowmanville

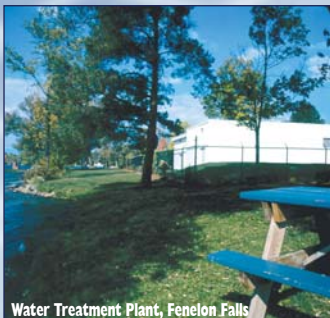


Water Treatment Plant, City of Belleville

Our track record of long-standing, client relationships is the result of our personal and professional approach.

Our services are available for:

- Water Supply, Treatment and Distribution Systems
- Wastewater Collection and Treatment Systems
- Solid and Hazardous Waste and Waste Diversion Systems
- Ecological Restoration—Streams and Lakes
- Site Remediation
- Water Resources Management
- Trunk and Feeder Watermains and Sewers



Water Treatment Plant, Fenelon Falls



Grindstone Creek Rehabilitation

Environmental Engineering Services

OUR SERVICES ARE AVAILABLE FOR:

Water Supply, Treatment and Distribution Systems

- Water Intakes, Groundwater Wells
- Water Treatment Plants
- Water Storage Tanks
- Pumping and Distribution Systems

Wastewater Collection and Treatment Systems

- Wastewater Collection Systems—Sanitary Sewers, CSO Tanks
- Wastewater Treatment Plants
- Pumping Stations, Lift Stations and Transmission Mains
- Infiltration and Overflow Control
- Disposal and Outfalls

Solid and Hazardous Waste and Waste Diversion Systems

- Municipal Waste Management Programs

- Municipal Landfills
- Industrial Waste Management Programs
- Industrial Waste Landfills
- Composting Programs

Site Remediation

- Residential, Commercial and Industrial Sites

Water Resources Management

- Urban Stormwater
- Municipal Drains
- Watersheds and Waterways
- Water Supply Sources

OUR SERVICES INCLUDE:

Policy, Economic and Standards Studies

- Policy Development
- Infrastructure Investment, Financing and Economic Analysis
- Engineering Standards and Specification Development

Environmental Planning

- Strategic Planning, Program and Priority Development
- Municipal Water Master Plan
- Stormwater Master Plans
- Wastewater Master Plans
- Solid and Hazardous Waste Master Plans
- Environmental Assessment Planning—Environmental Study Reports (ESR)
- Concept Plans, Feasibility Studies
- Site Selection Studies, Sustainable Development
- Environmental Impact Studies
- Environmental Compliance Audits and Assessments
- Pollution Control and Abatement
- Environmental Protection
- Environmental Legislation and Regulation Requirements Consulting
- Environmental Permitting, Licensing and Approvals
- Public Consultation and Facilitation

Water and Wastewater Facilities and Systems— Planning, Engineering Design and Contract Preparation

- Designs for New, Expansion and Rehabilitation Requirements
- Functional Planning
- Environmental Assessment and Mitigation Designs
- Project Cost Estimation and Scheduling
- Preliminary and Detailed Designs
- Contract Document Preparation—Drawings and Specifications

Solid and Hazardous Waste Management

- Municipal and Industrial Waste Management Systems
- Waste Reduction and Recycling Programs
- Site Assessment, Remediation Planning
- Site Decommissioning and Rehabilitation

Water Resources Management—Planning, Engineering Design and Contract Preparation

- Urban Stormwater Management—Sewers and Ponds
- Municipal Drain Development and Operations
- Watershed Hydrological Management
- Environmental Restoration
- Waterways, Channels, Dams and Structures
- Flood Forecasting and Management, Damage Reduction
- Channelization and Erosion Control—Water and Ice
- Water Quality Modelling, Monitoring and Studies
- Hydrologic and Hydraulic Modelling
- Sewer Relief Modelling

Infrastructure and Facility Management

- Facility Operations Optimization and Management
- Facility Inspection and Condition Assessments
- Facility Needs Assessments and Asset Management Programs
- Inventories and Location Surveys
- Life Cycle Cost Analysis, Cost Control Management
- Risk Assessment and Management
- Maintenance Management Programs
- Grant and Funding Applications

Automation and Information Technology Services

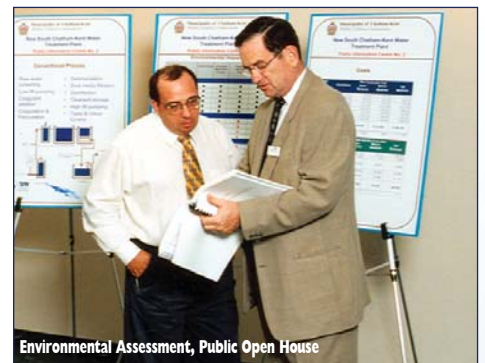
- Surveys, Ground and Floodplain Mapping, Digital Terrain Modelling
- Computerized Design Visualization, Animation and Presentation
- Computer-aided Design/Drafting, Computer Graphics
- Graphic Design, Desktop Publishing and Web Design
- Subsurface Utility Engineering
- SCADA Programming

Project Management

- Owner's Engineer
- Independent Agent
- Total Project Management Services



Site Remediation



Environmental Assessment, Public Open House

- Asset and Service Procurement

Value for Money—Quality Management

- Value Engineering—Certified Value Specialists
- Quality Control and Quality Assurance Plans
- Engineering Peer Reviews
- Best Management Practices—Benchmarking
- Expert Witness Testimony
- Forensic Engineering

Innovation and Partnership

- Public-Private Sector Partnerships
- Joint Venture Projects
- Design-build Projects
- Design-build-finance-operate Projects

Construction Management

- Contract Tendering, Bid Evaluation and Award
- Construction Staging and Logistics
- On-site Quality Control Inspection and Quality Assurance
- Construction Supervision and Administration
- Permits and Approvals
- Change Proposal Development/Evaluation
- Alternate Dispute Resolution
- As-built Documentation
- Infrastructure Commissioning



Head Office

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Barrie • Bracebridge • Cobourg
Kingston • Kitchener-Waterloo
Ottawa • St. Catharines
Sault Ste. Marie • Whitby

Other TSH Services:

Building Design, Transportation Planning,
Transportation Design, Utility Engineering
and Land Planning and Design