



Expert software For analysis and asset management
of water distribution, sewer and road systems

INTEGRATED SOLUTION FOR ASSET MANAGEMENT

A modular system meeting the needs of Infrastructure Managers,
Geomatic Departments and Engineering Consulting Firms

INVENTORY • CONDITION • DECISION SUPPORT • FIELD OPERATION

- Data management and dissemination of information
- Understanding of system operations and malfunctions analysis made easy for optimized decision-making
- Scenarios analysis easily configured to identify:
 - Hydraulic capacity
 - Emergency response
 - Infrastructure improvement interventions
 - Interventions prioritization based on desired level of service
- Customizable grading system for intervention priorities
- Essential tool for an Integrated Intervention Plan based on assets condition
- Synchronization with commercial and corporate databases as well as other expert software
- Stand-alone platform and/or ArcGIS extension



THREE INFRASTRUCTURES • ONE SOFTWARE • ONE INTERFACE

Developed and
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EXPERT
SOFTWARE

Asset Management
Water, Sewer, Road

Capital Improvement
Master Plans



esri Partner Network
Bronze



www.aquadata.com



EXPERT SOFTWARE FOR
ANALYSIS AND ASSET
MANAGEMENT OF WATER
DISTRIBUTION, SEWER AND
ROAD SYSTEMS.

EVENTS RECORDER
Mobile app



GIS/COMMERCIAL DATABASES
Access - Oracle - SQL Server



SYNCHRONIZATION
External Databases Connection
and Synchronization



aquaGEO™

• Stand-alone Platform
• ArcGIS Extension

SEWER

INVENTORY
Sewer Systems' Assets

PIPE AND MANHOLE MANAGEMENT

- Inspection and Maintenance Records Management
- Work Order Management
- Failure Analysis
- Query Generator
- Prioritization
- Reporting

PIPE CLEANING
Cleaning Sequence Generator

INSPECTION/
DATA COLLECTION

WATER

INVENTORY
Water Distribution System Assets

HYDRAULIC
MODELING
• Steady-state Simulation
• Extended-Period Simulation

FIRE PROTECTION
Flow Capacity Analysis

INFLUENCE ZONES/FLOW-THROUGH TIME
Water Age and Flow Percentage Analysis

CHLORINE DEGRADATION
Chlorine Degradation Analysis

UNIDIRECTIONAL FLUSHING (UDF)
UDF Sequence Generator

UDF DATA COLLECTION

FIRE HYDRANT MANAGEMENT
• Inspection and Maintenance Records Management
• Work Order Management
• Failure Analysis
• Query Generator
• Prioritization
• Reporting

INSPECTION/DATA COLLECTION

VALVE MANAGEMENT
• Inspection and Maintenance Records Management
• Work Order Management
• Failure Analysis
• Query Generator
• Prioritization
• Reporting

INSPECTION/DATA COLLECTION

WATER METER MANAGEMENT
• Account Management
• Invoicing Data
• Water Demand Allocator
• Query Generator

PIPE MANAGEMENT
• Breaks, Leaks & Complaints Record Management
• Query Generator
• Structural Grading
• Hydraulic Grading
• Performance Grading
• Monitoring

ROAD

INVENTORY
Road System Assets

EXPERT SOFTWARE
SEWER MODELING

EXPERT SOFTWARE
ROADS

INTEGRATOR - INTEGRATED DECISION SUPPORT SYSTEM - CAPITAL IMPROVEMENT MASTER PLANS

DIREXYON INTEGRATED DECISION-MAKING SUPPORT SYSTEM - STRATEGIC INVESTMENT PLAN

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