



GeoAdvice Training Agenda – Day 1

Time	Schedule
8:00 to 8:15	Introductions, getting acquainted.
8:15 to 9:00	Section 1. Introduction to Hydraulic Network Modeling of Water Distribution Systems Mission of water distribution systems Uses of water distribution hydraulic models
9:00 to 9:30	Section 2. Hydraulic Analysis of Pipelines - Theory Energy grade line Pipe headloss Secondary losses
9:30 to 10:00	Section 3. Software Product Overview and Layout Basic capabilities, platform and GUI Window and menu bars
10:00 to 10:15	Break
10:15 to 11:00	Section 4. Building a Hydraulic Network Model Data model components (Nodes and links) Hydraulic components (Curves, patterns, controls) Create a new model project (Options, preferences, default values) Create network components
11:00 to 12:00	Section 5. Running a Hydraulic Simulation Run a steady state simulation Run an extended period simulation
12:00 to 1:00	Lunch
1:0 to 2:00	Section 6. Running a Fire Flow Simulation Specify fire flow simulation options Run fire flow simulation Analyze fire flow report results
2:00 to 3:00	Section 7. Running a Water Quality Simulation Chemical propagation Water age Source tracing
3:00 to 3:15	Break
3:15 to 5:00	Section 8. Running Pump Energy Simulation Pump curve and efficiency curve Energy rates and demand charge
5:00	End of Day 1



GeoAdvice Training Agenda – Day 2

Time	Schedule
8:00 to 8:15	Introductions
8:15 to 9:00	Section 9. Mapping, Graphing and Reporting Output Results Graphs and reports Color coding the network model Annotation and contour layers Database editing and customizing
9:00 to 10:00	Section 10. Creating Modeling Scenarios Simulation option sets Data sets Facility set Parent-child scenario inheritance tree
10:00 to 10:15	Break
10:15 to 12:00	Section 11. Advanced Network Modeling Configurations PLC controls Groundwater pumping well configuration Variable speed pumps Reduced pressure backflow prevention valve Pressurized pneumatic tank
12:00 to 1:00	Lunch
1:00 to 2:00	Section 12. Scada Integration and Simulation Initialization Scada input file review Scada simulation
2:00 to 3:00	Section 13. Water Distribution Systems Optimization Optimization properties Genetic algorithm optimization (Design, scheduling, calibration) Hydraulic network optimization benefits
3:00 to 3:15	Break
3:15 to 5:00	Section 14. Model Review Scenarios review Facilities review Tables review Network review Calibration review Demand allocation review
5:00	End of Day 2

