

Appendix E:
HY-8 Analysis

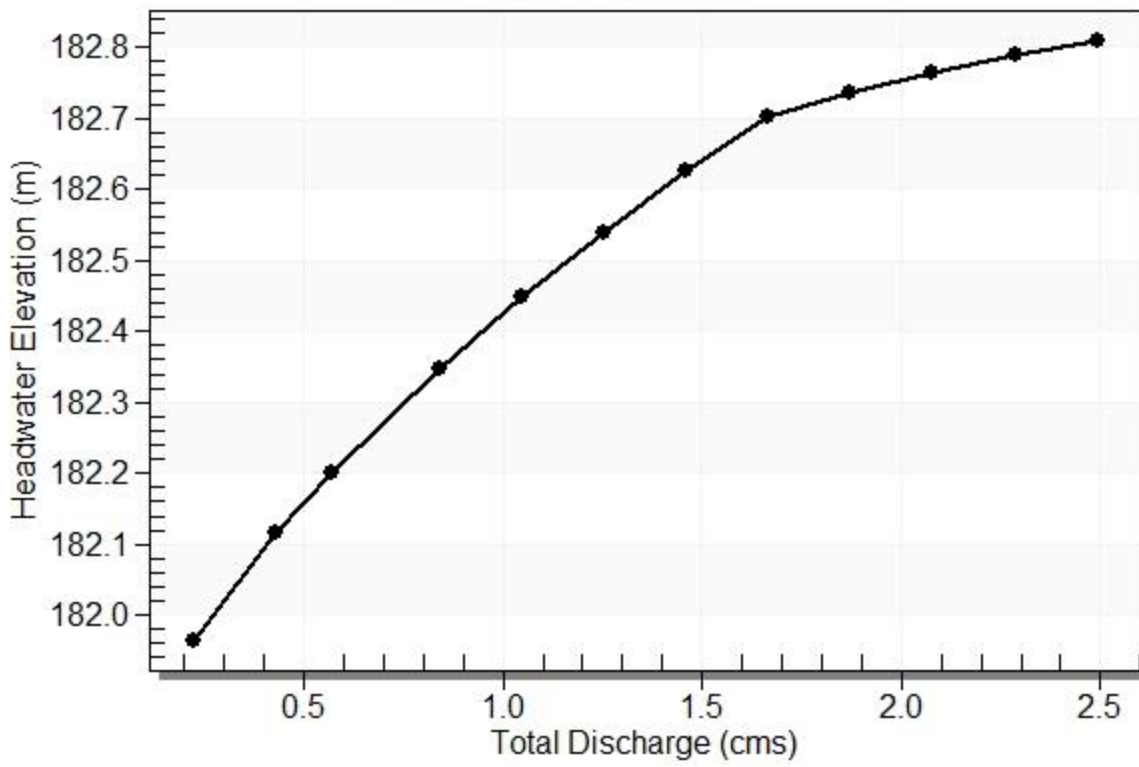
HY-8 Culvert Analysis Report

Project Units: SI Units (Metric)

Rating Curve Plot for Crossing: J22 Wignell -Carl Rd.

Total Rating Curve

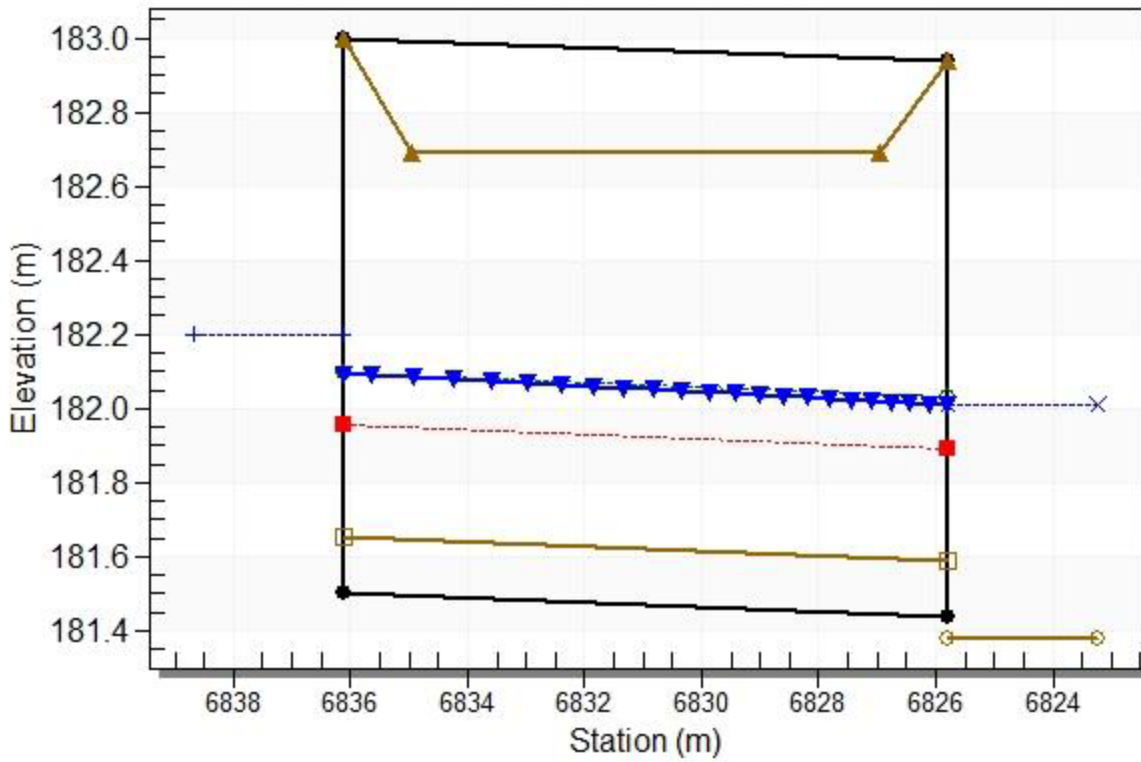
Crossing: J22 Wignell -Carl Rd.



Water Surface Profile Plot for Culvert: W-CS-004_Carl

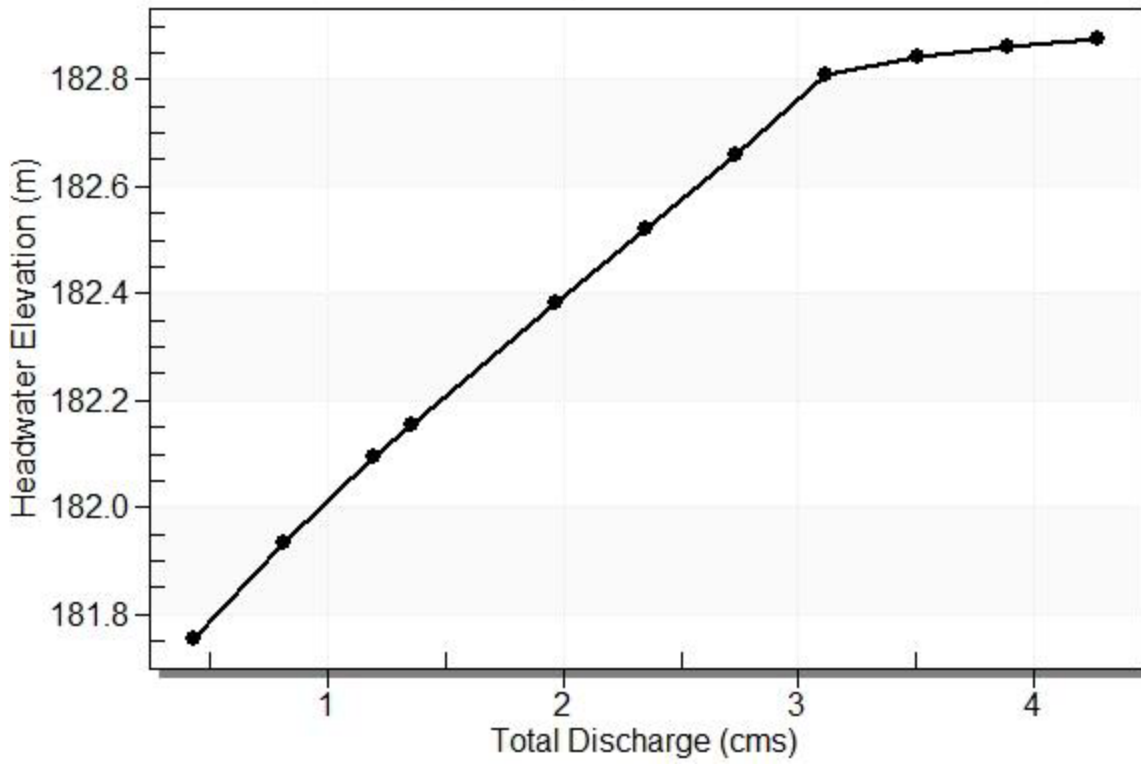
Crossing - J22 Wignell -Carl Rd., Design Discharge - 0.57 cms

Culvert - W-CS-004_Carl, Culvert Discharge - 0.57 cms



Rating Curve Plot for Crossing: J23 Wignell - Second Conc Rd.

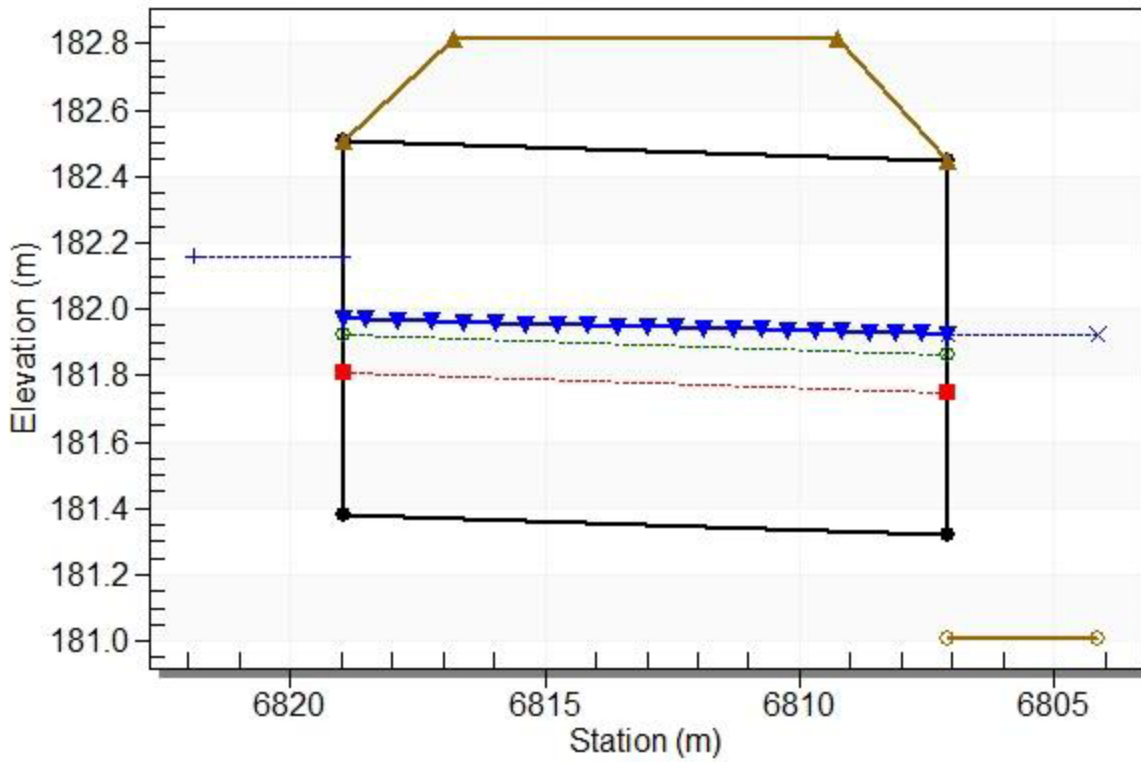
Total Rating Curve
Crossing: J23 Wignell - Second Conc Rd.



Water Surface Profile Plot for Culvert: W-CS-005 existing

Crossing - J23 Wignell - Second Conc Rd., Design Discharge - 1.36 cms

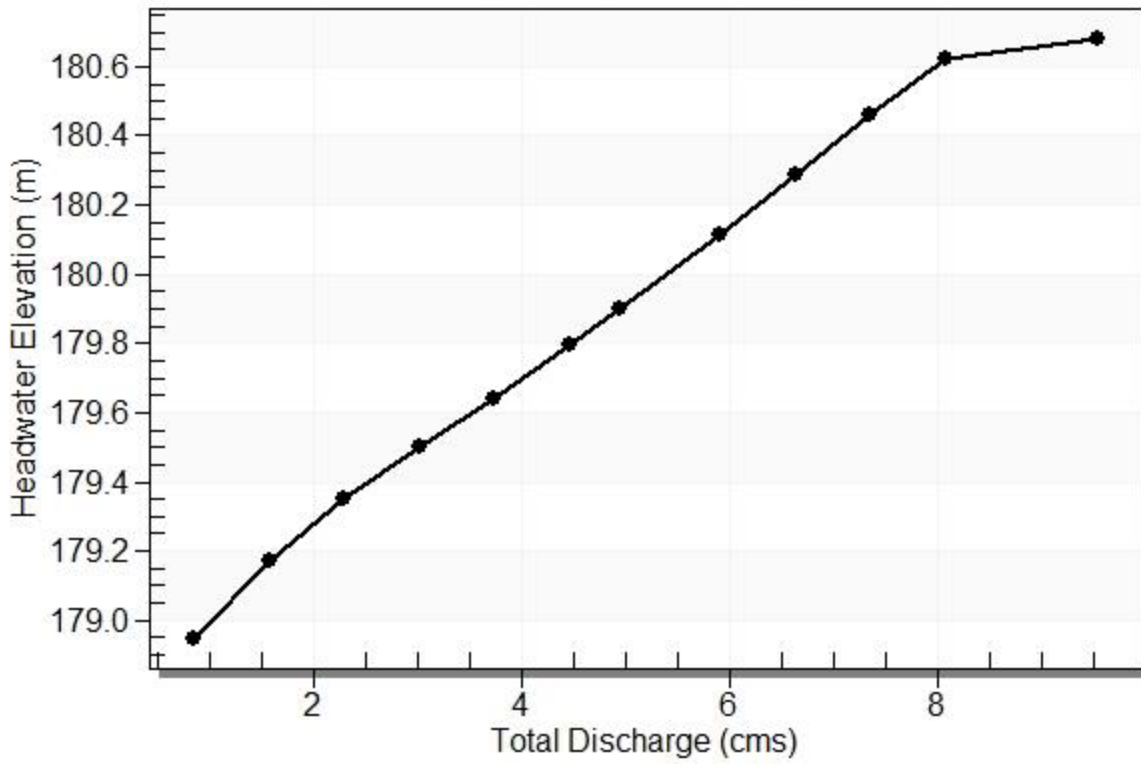
Culvert - W-CS-005 existing, Culvert Discharge - 1.36 cms



Rating Curve Plot for Crossing: J25 Wignell Main - Hwy3

Total Rating Curve

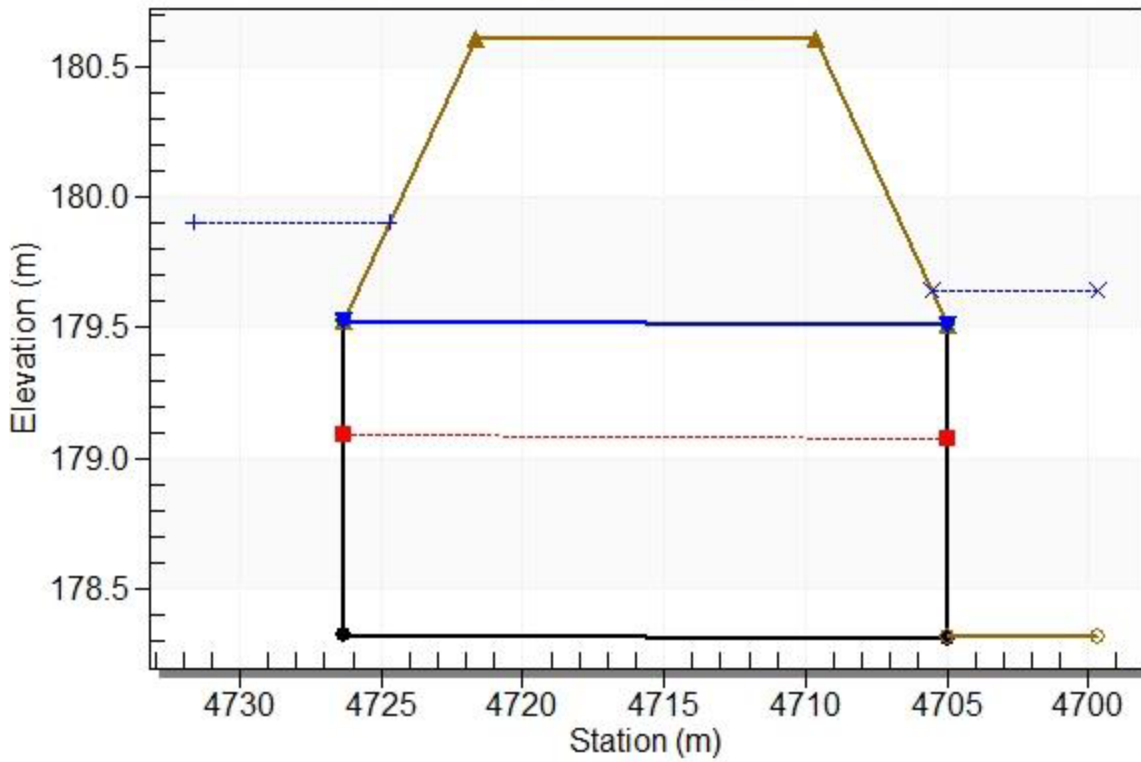
Crossing: J25 Wignell Main - Hwy3



Water Surface Profile Plot for Culvert: W-CS-008

Crossing - J25 Wignell Main - Hwy3, Design Discharge - 4.95 cms

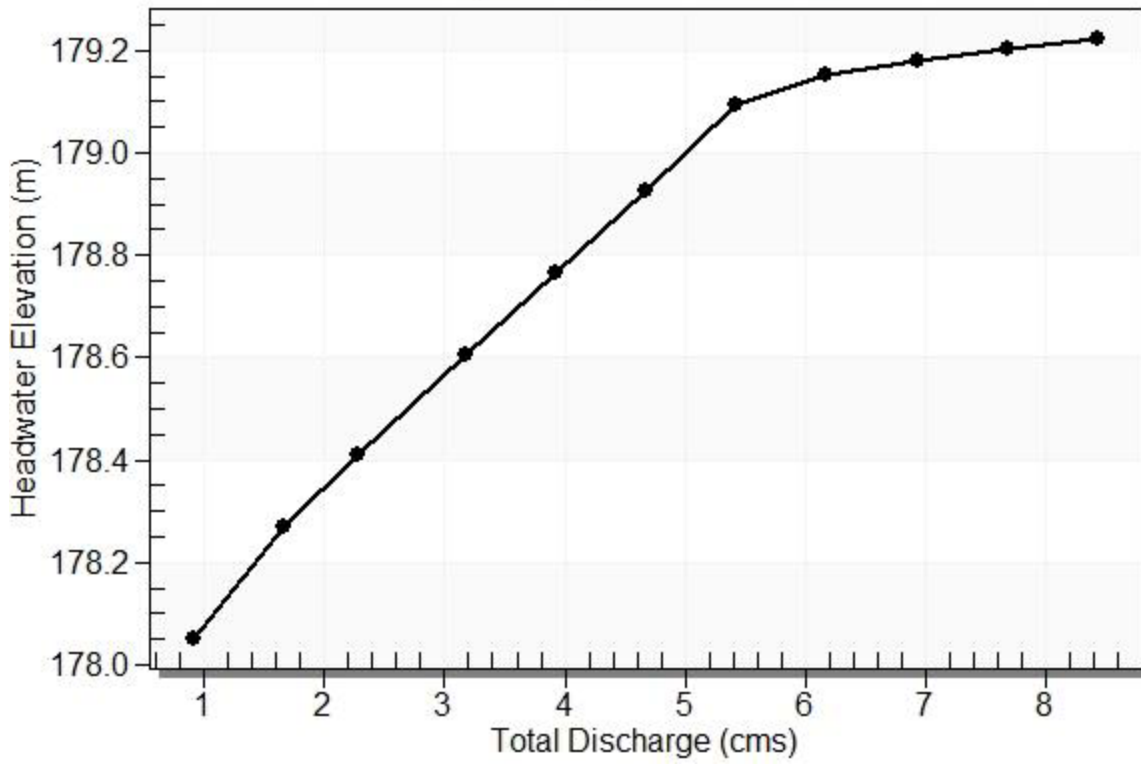
Culvert - W-CS-008, Culvert Discharge - 4.95 cms



Rating Curve Plot for Crossing: J26 Wignell - Weaver Road

Total Rating Curve

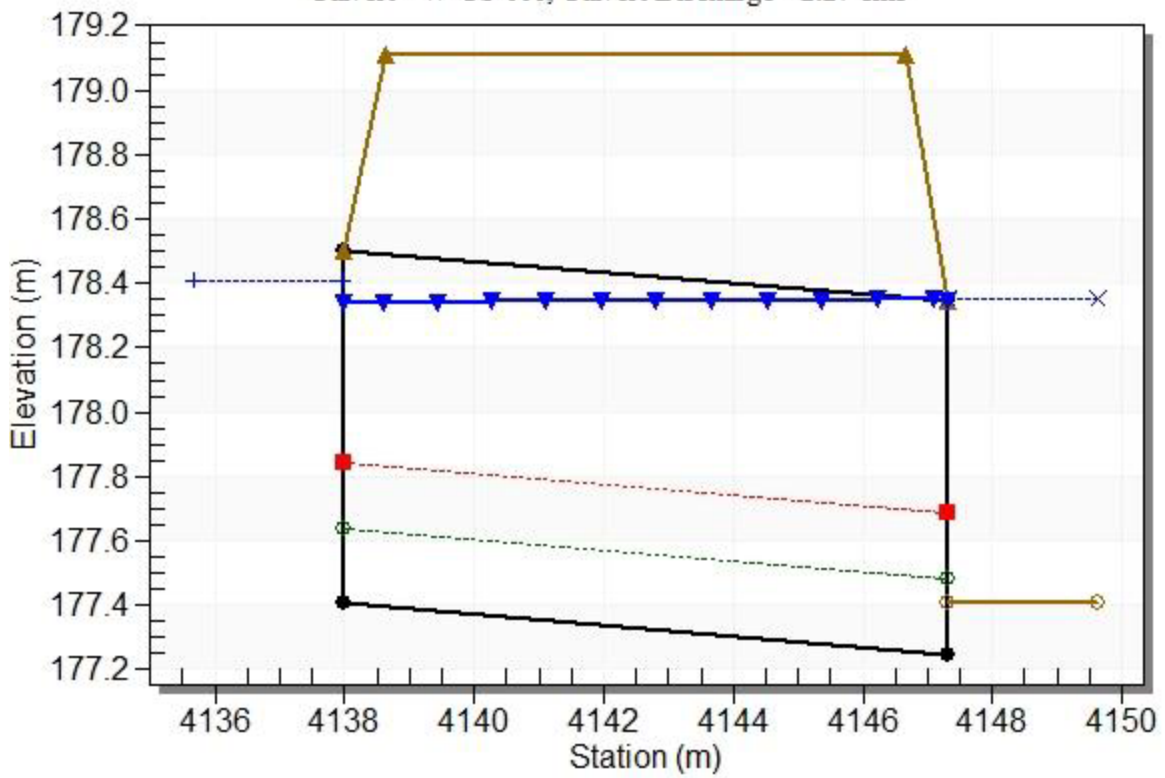
Crossing: J26 Wignell - Weaver Road



Water Surface Profile Plot for Culvert: W-CS-006

Crossing - J26 Wignell - Weaver Road, Design Discharge - 2.27 cms

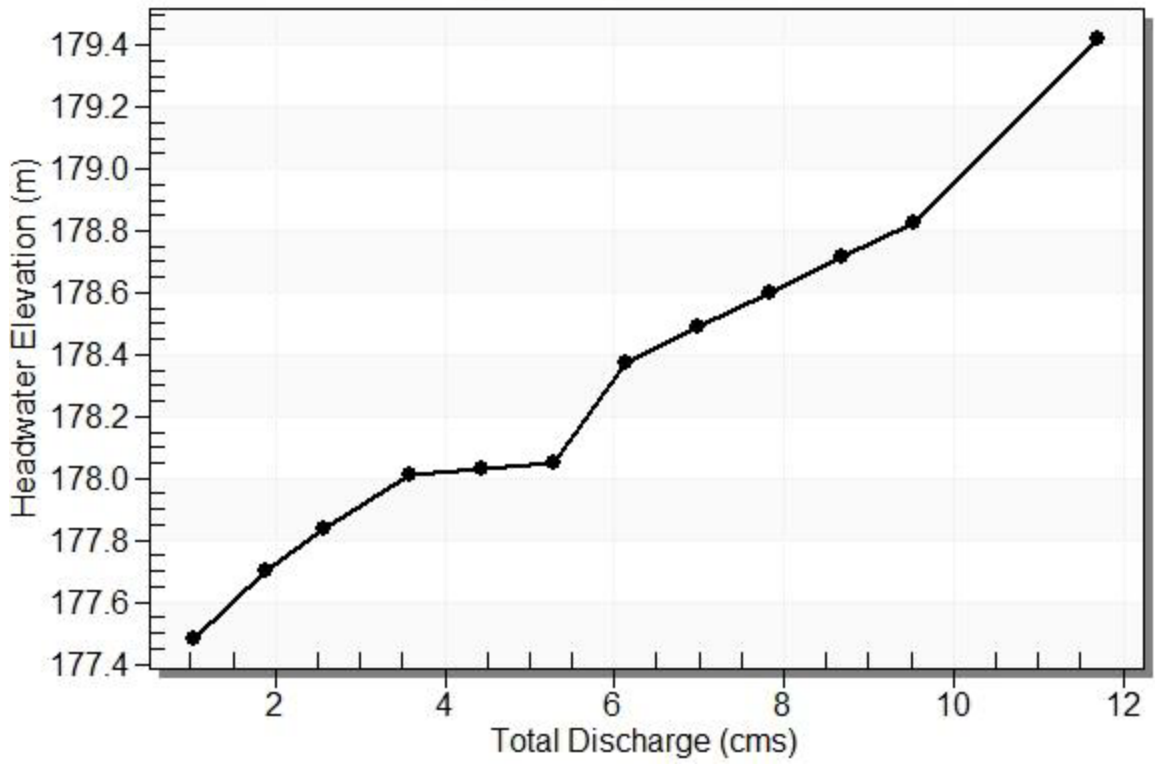
Culvert - W-CS-006, Culvert Discharge - 2.27 cms



Rating Curve Plot for Crossing: J27 - Wignell - Killaly St. E

Total Rating Curve

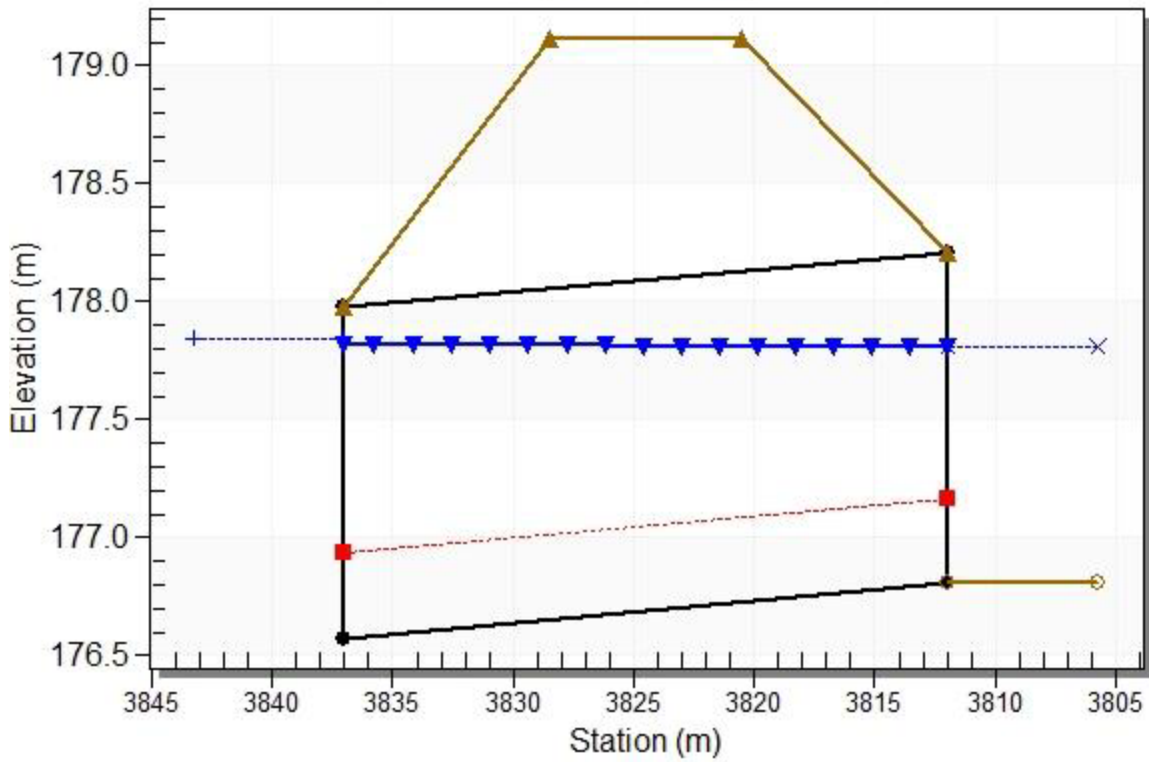
Crossing: J27 - Wignell - Killaly St. E



Water Surface Profile Plot for Culvert: W-CS-003

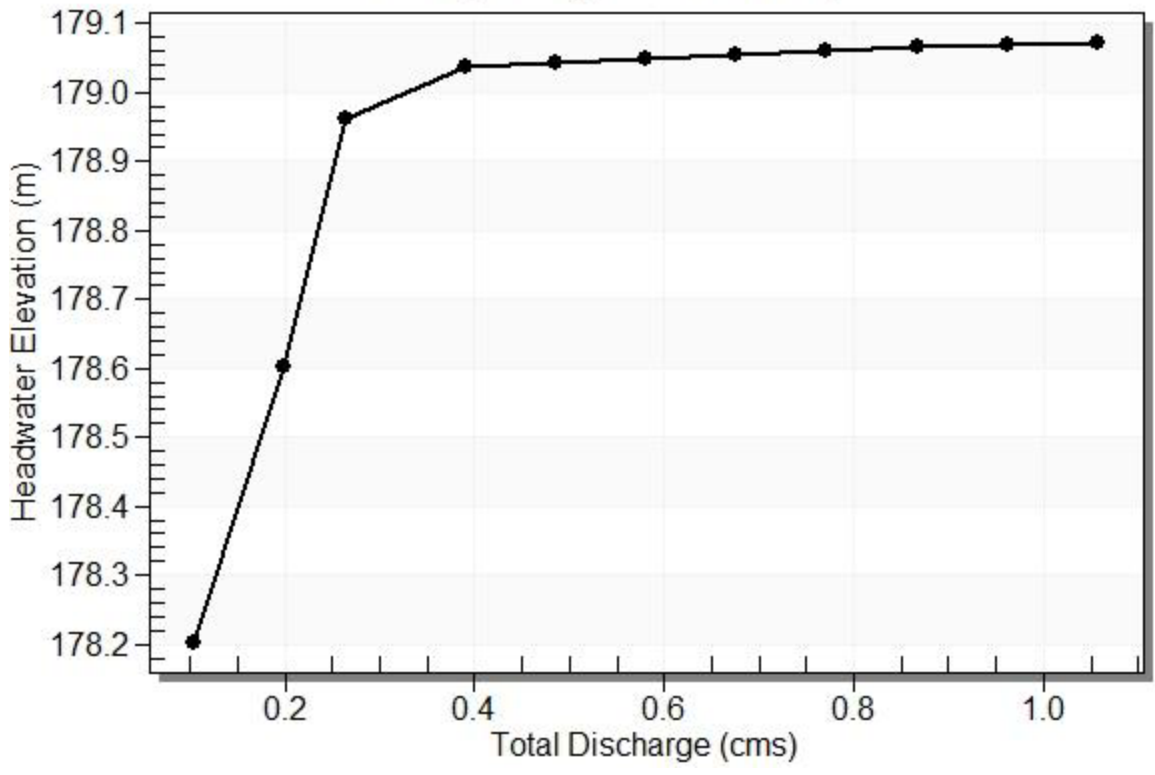
Crossing - J27 - Wignell - Killaly St. E, Design Discharge - 2.58 cms

Culvert - W-CS-003, Culvert Discharge - 2.58 cms



Rating Curve Plot for Crossing: J87 Wignell Branch3 - Killaly

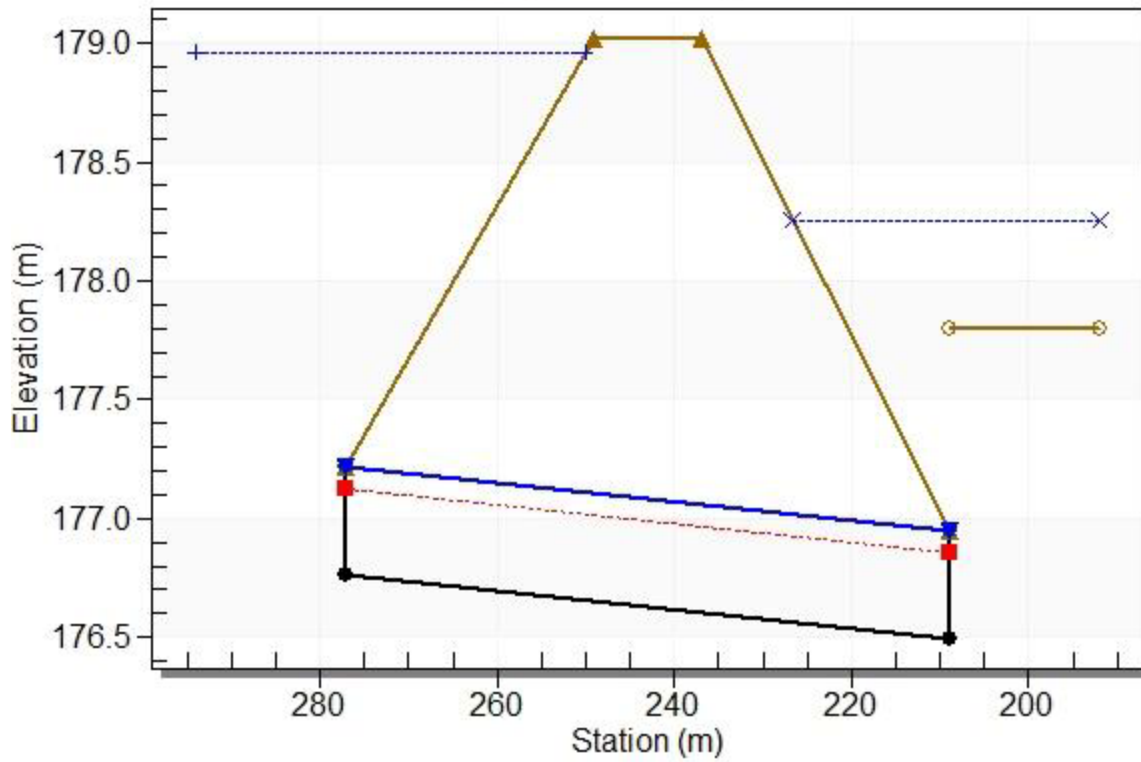
Total Rating Curve
Crossing: J87 Wignell Branch3 - Killaly



Water Surface Profile Plot for Culvert: CS119

Crossing - J87 Wignell Branch3 - Killaly, Design Discharge - 0.26 cms

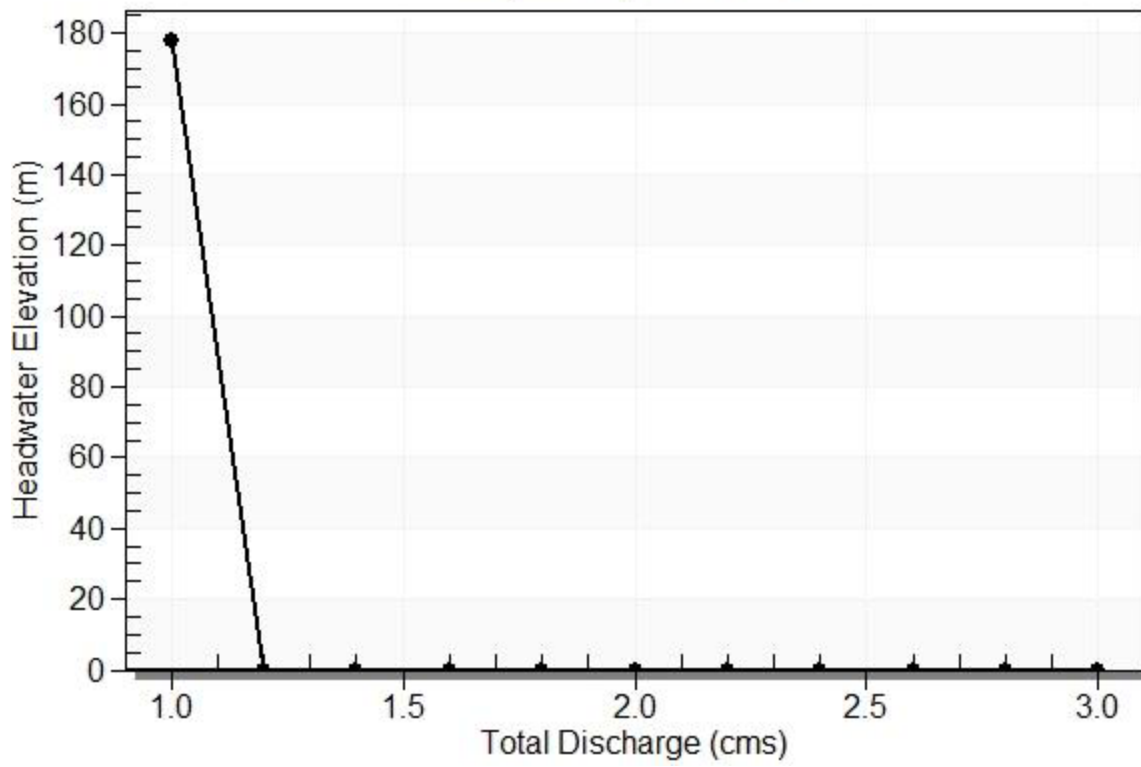
Culvert - CS119, Culvert Discharge - 0.26 cms



Rating Curve Plot for Crossing: J28 Wignell - Lorraine

Total Rating Curve

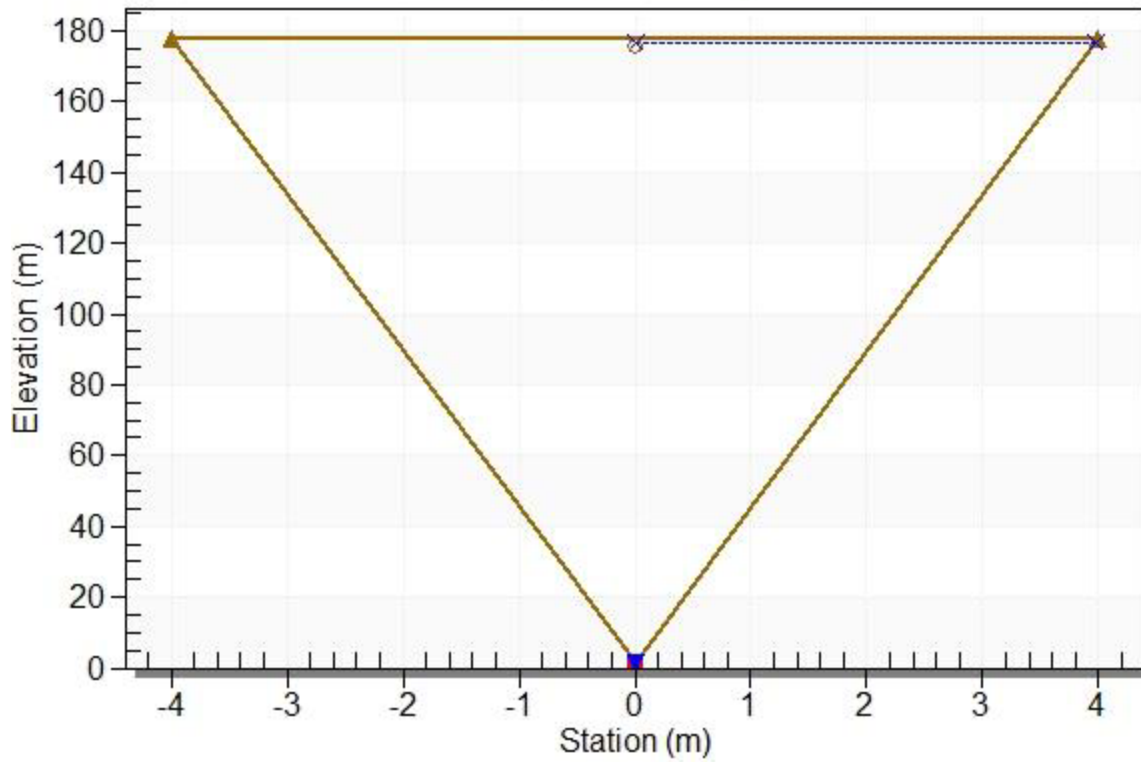
Crossing: J28 Wignell - Lorraine



Water Surface Profile Plot for Culvert: W-CS007

Crossing - J28 Wignell - Lorraine, Design Discharge - 2.00 cms

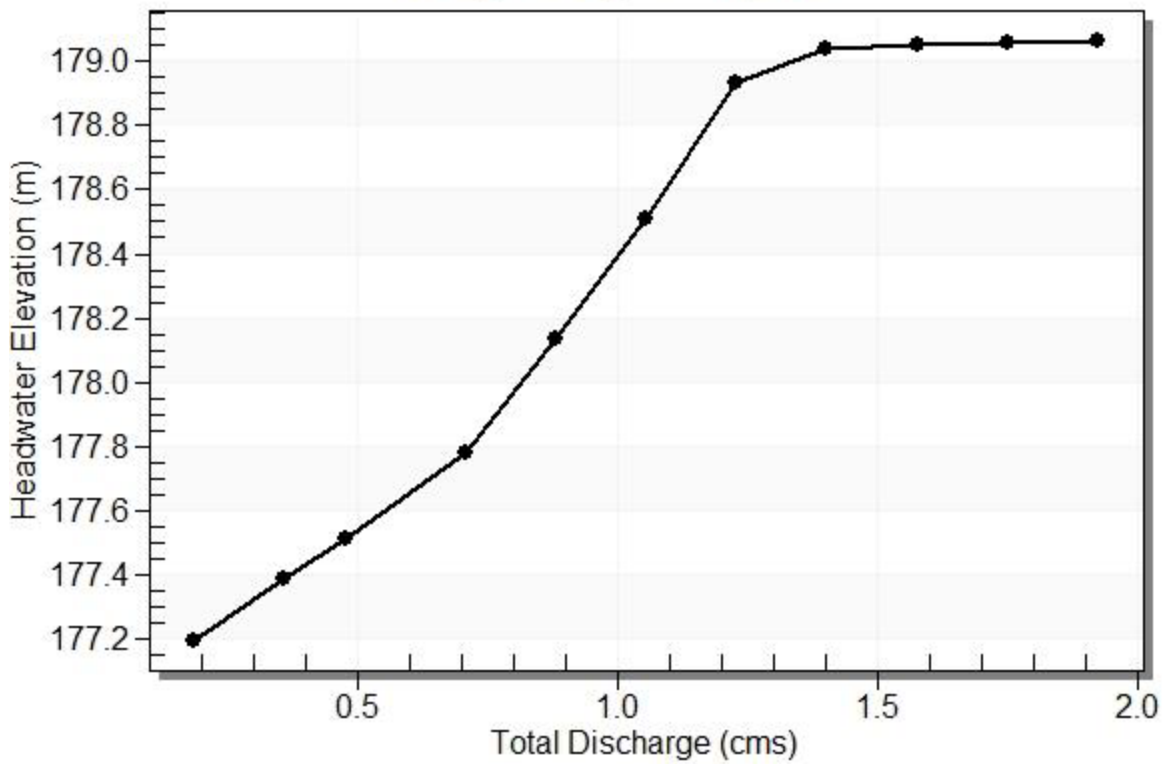
Culvert - W-CS007, Culvert Discharge - 0.00 cms



Rating Curve Plot for Crossing: J86 - Wignell - Killaly St E

Total Rating Curve

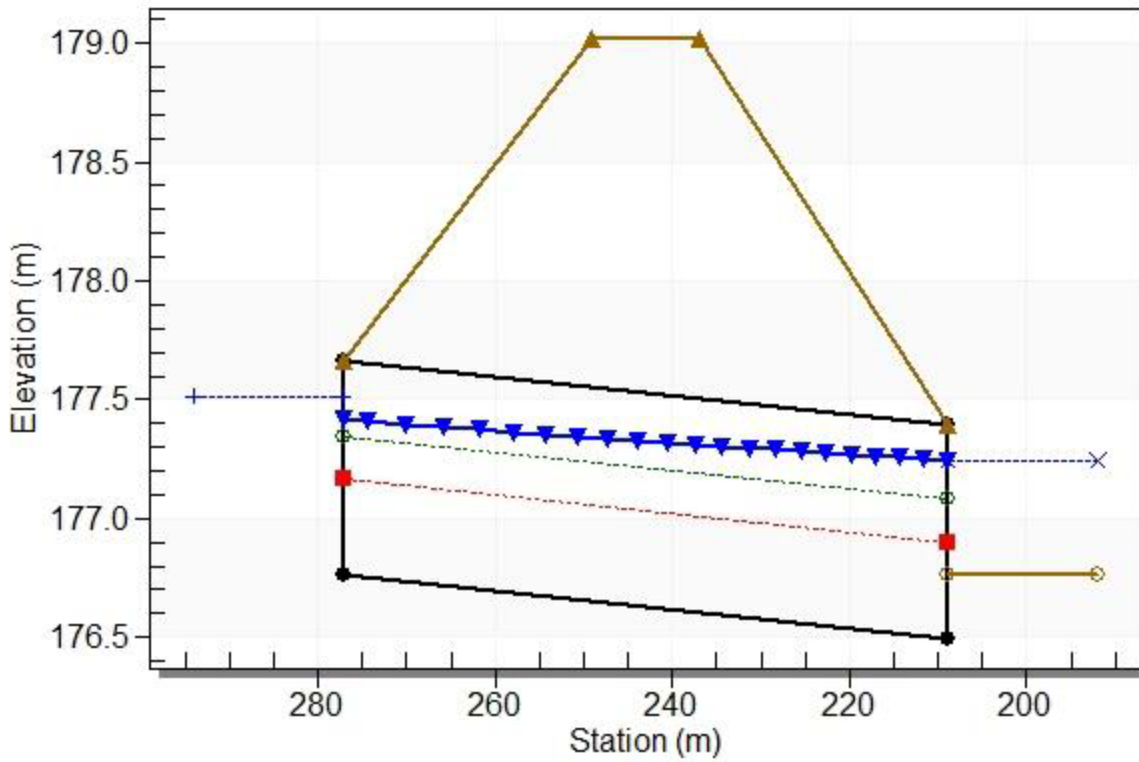
Crossing: J86 - Wignell - Killaly St E



Water Surface Profile Plot for Culvert: CS-120

Crossing - J86 - Wignell - Killaly St E, Design Discharge - 0.48 cms

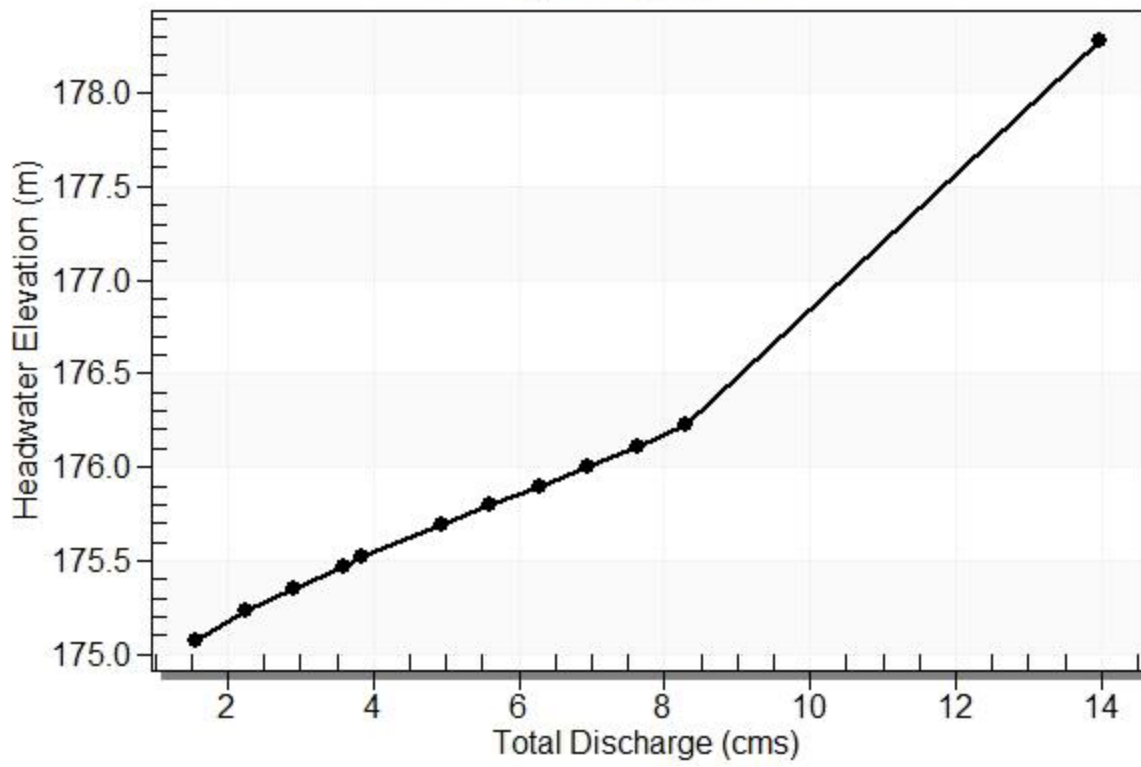
Culvert - CS-120, Culvert Discharge - 0.48 cms



Rating Curve Plot for Crossing: J30 Wignell Snider

Total Rating Curve

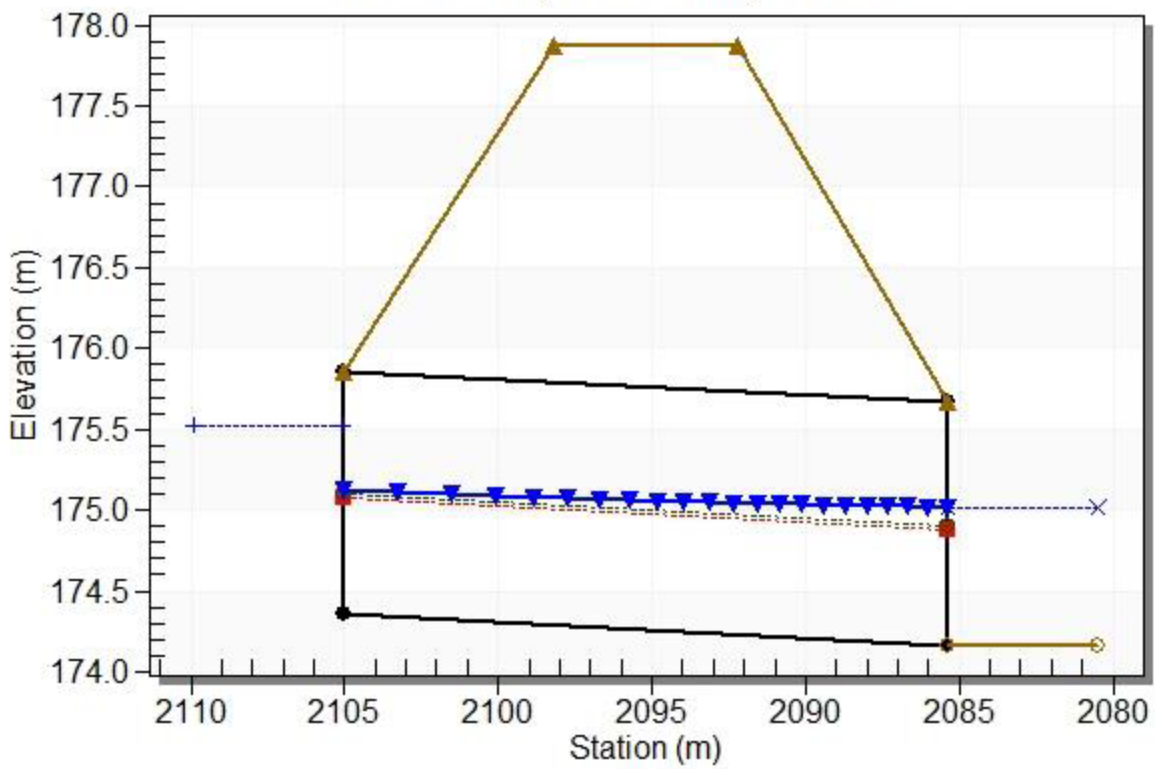
Crossing: J30 Wignell Snider



Water Surface Profile Plot for Culvert: W-CS-010

Crossing - J30 Wignell Snider, Design Discharge - 3.85 cms

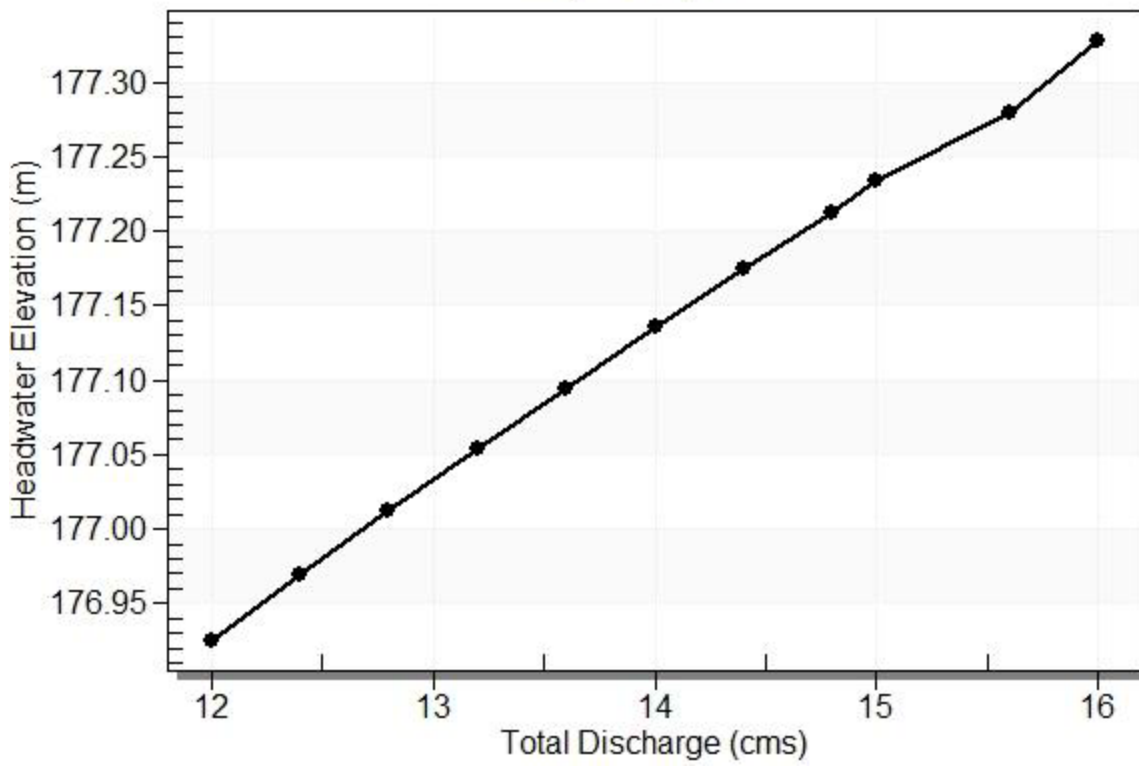
Culvert - W-CS-010, Culvert Discharge - 3.85 cms



Rating Curve Plot for Crossing: J12 Wignell

Total Rating Curve

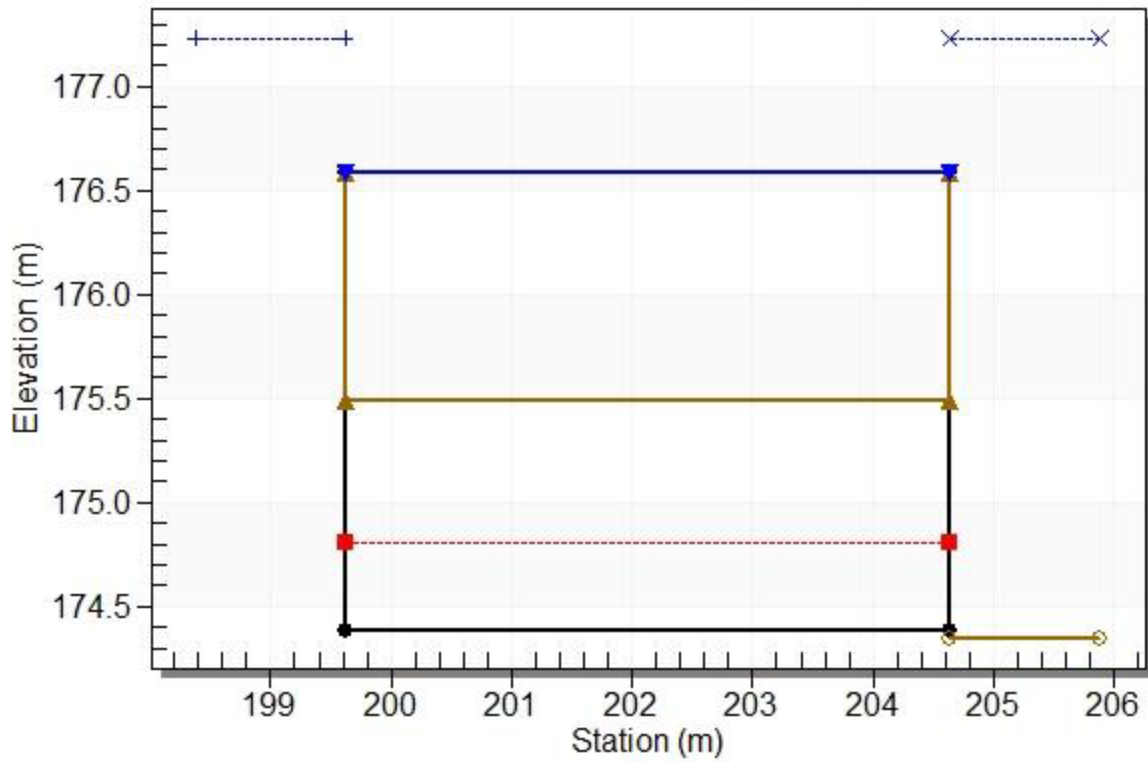
Crossing: J12 Wignell



Water Surface Profile Plot for Culvert: W-BS-002

Crossing - J12 Wignell, Design Discharge - 15.00 cms

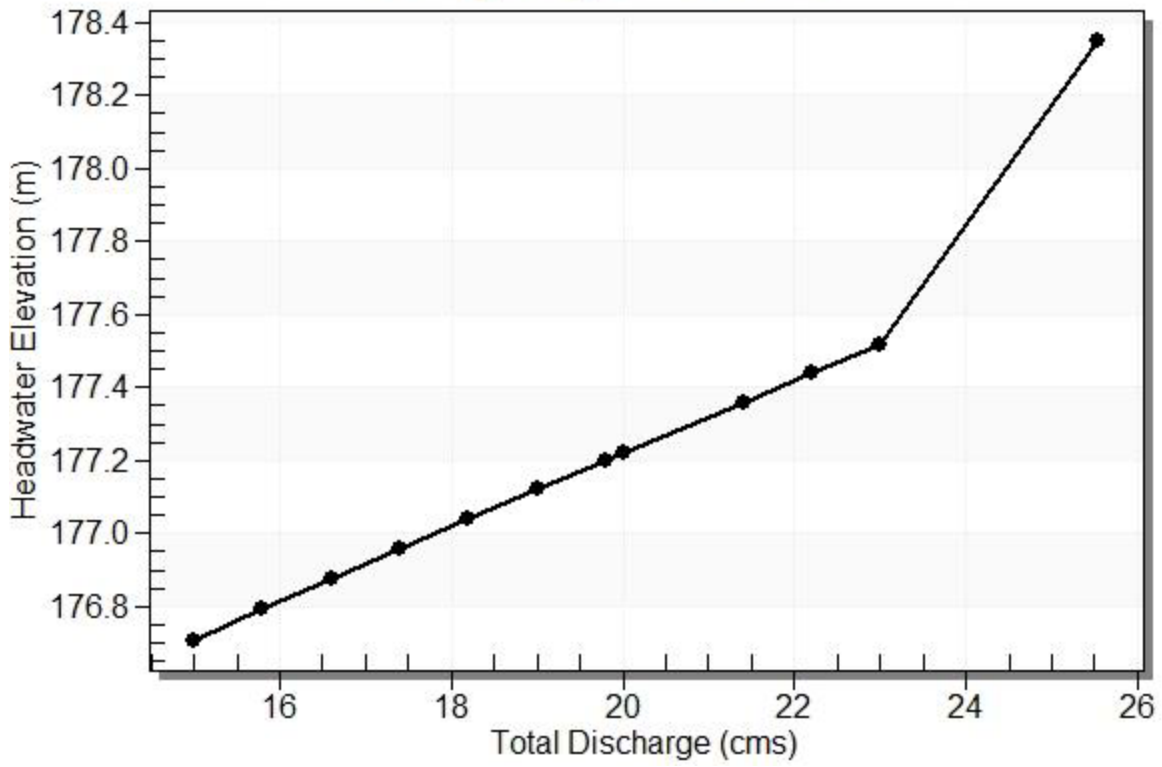
Culvert - W-BS-002, Culvert Discharge - 14.73 cms



Rating Curve Plot for Crossing: J8 Wignell Lakeshore Rd E

Total Rating Curve

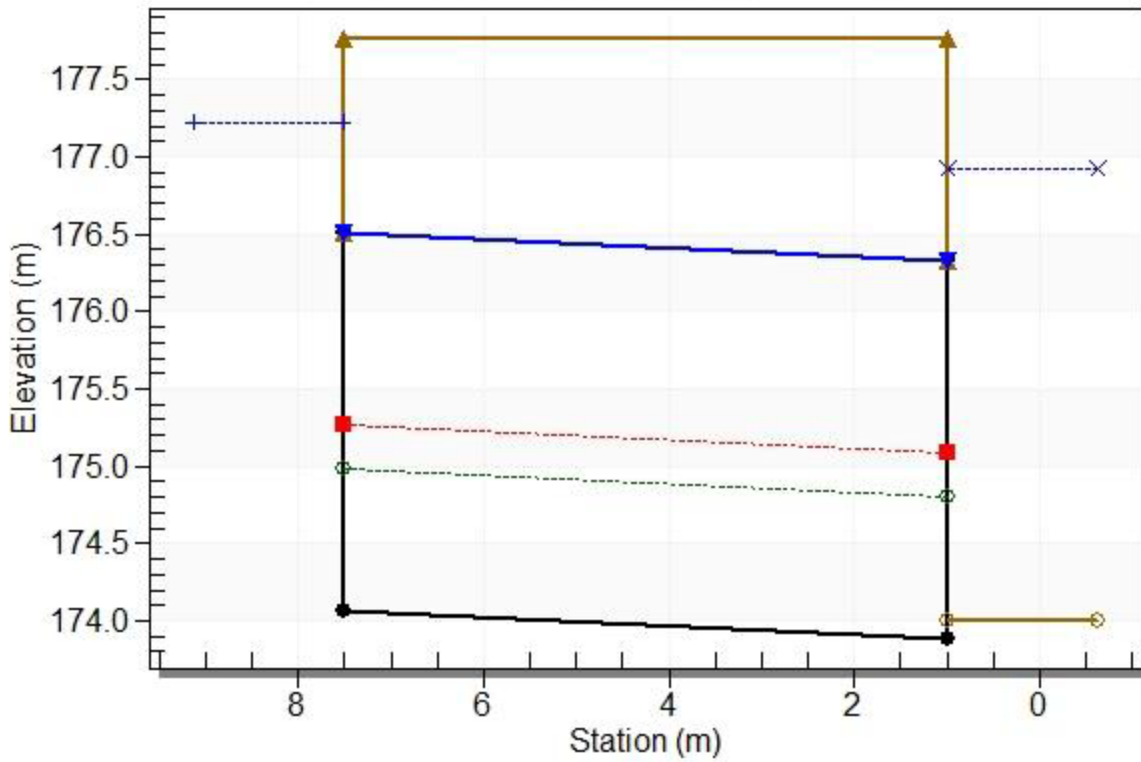
Crossing: J8 Wignell Lakeshore Rd E



Water Surface Profile Plot for Culvert: W-BS-001

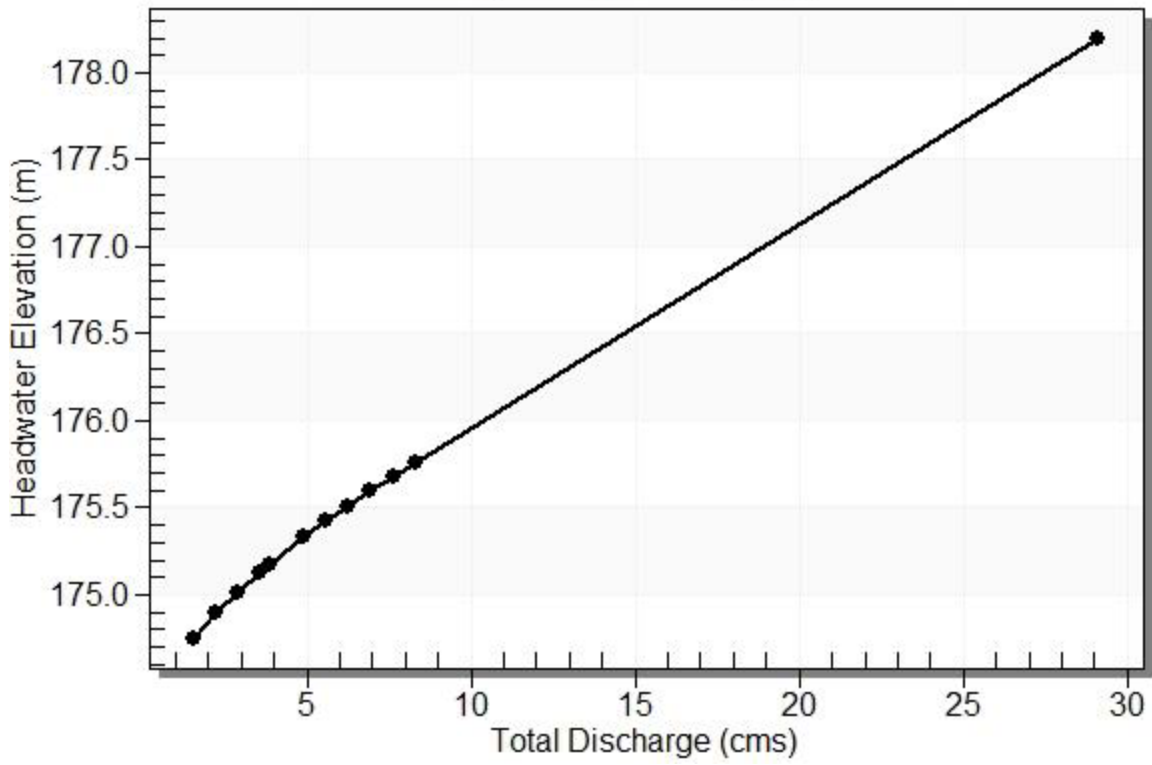
Crossing - J8 Wignell Lakeshore Rd E, Design Discharge - 20.00 cms

Culvert - W-BS-001, Culvert Discharge - 20.00 cms



Rating Curve Plot for Crossing: J30 Wignell Snider (Copy)

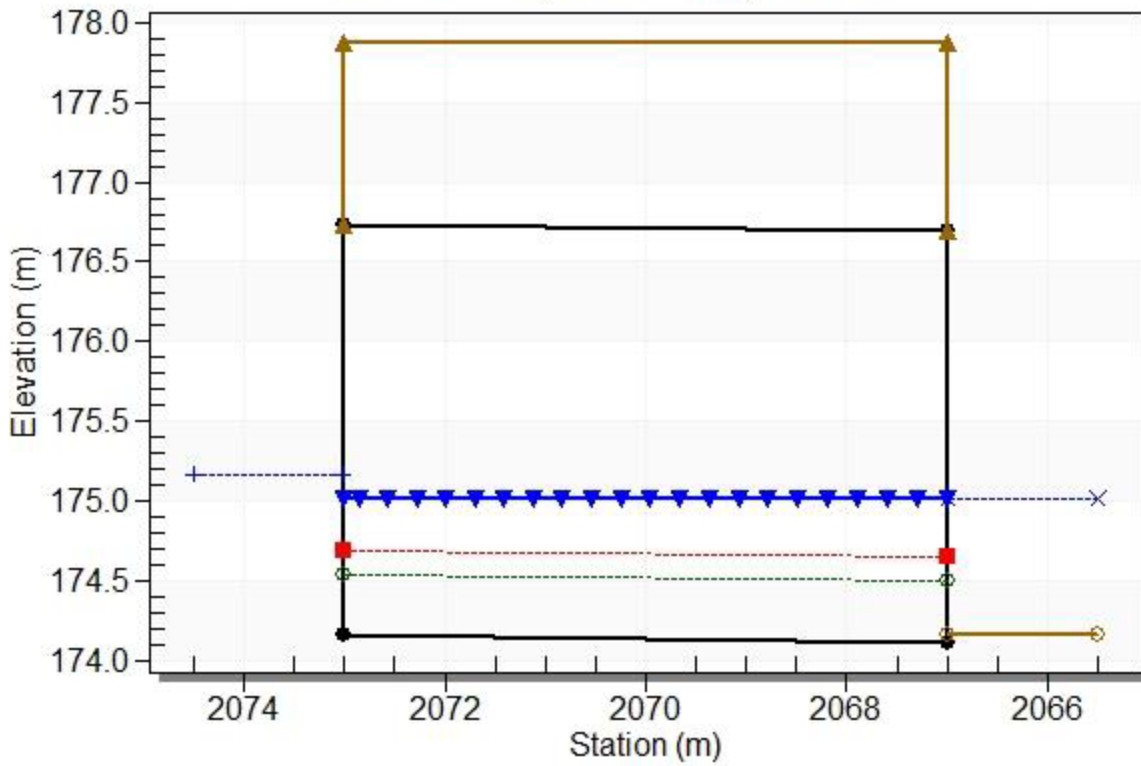
Total Rating Curve
Crossing: J30 Wignell Snider (Copy)



Water Surface Profile Plot for Culvert: W-CS-001

Crossing - J30 Wignell Snider (Copy), Design Discharge - 3.85 cms

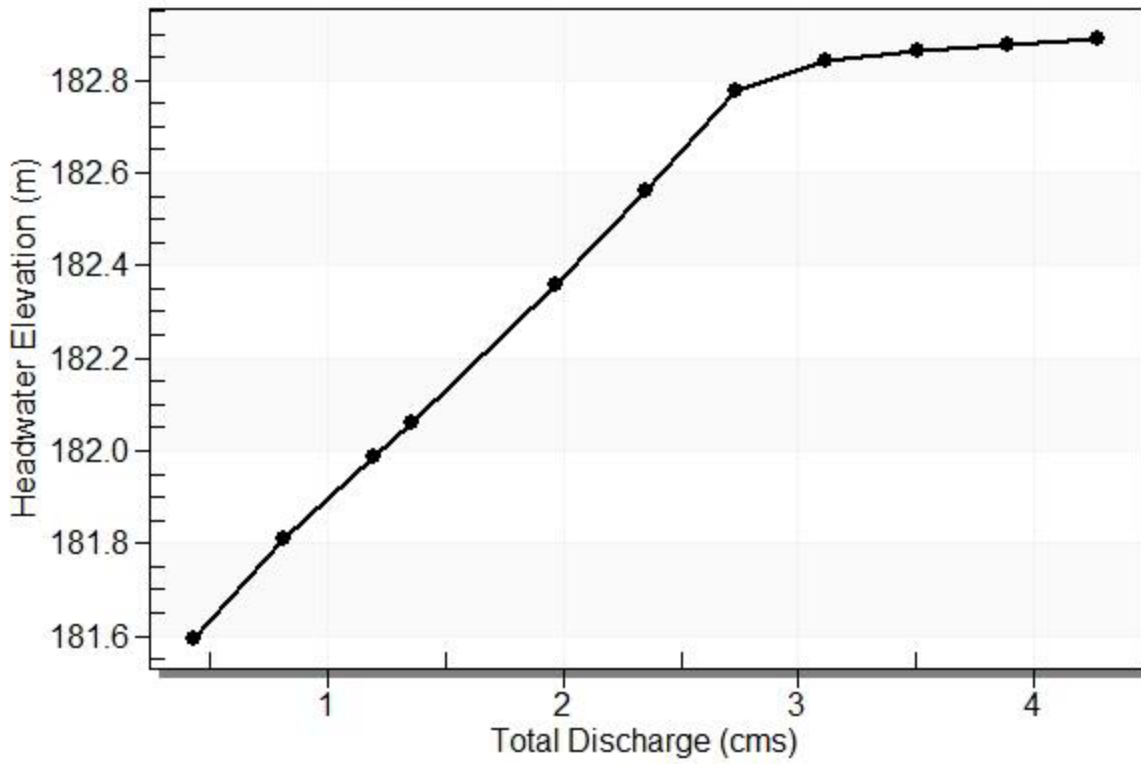
Culvert - W-CS-001, Culvert Discharge - 3.85 cms



Rating Curve Plot for Crossing: J23J24 Wignell - Second Conc Rd. Reloc

Total Rating Curve

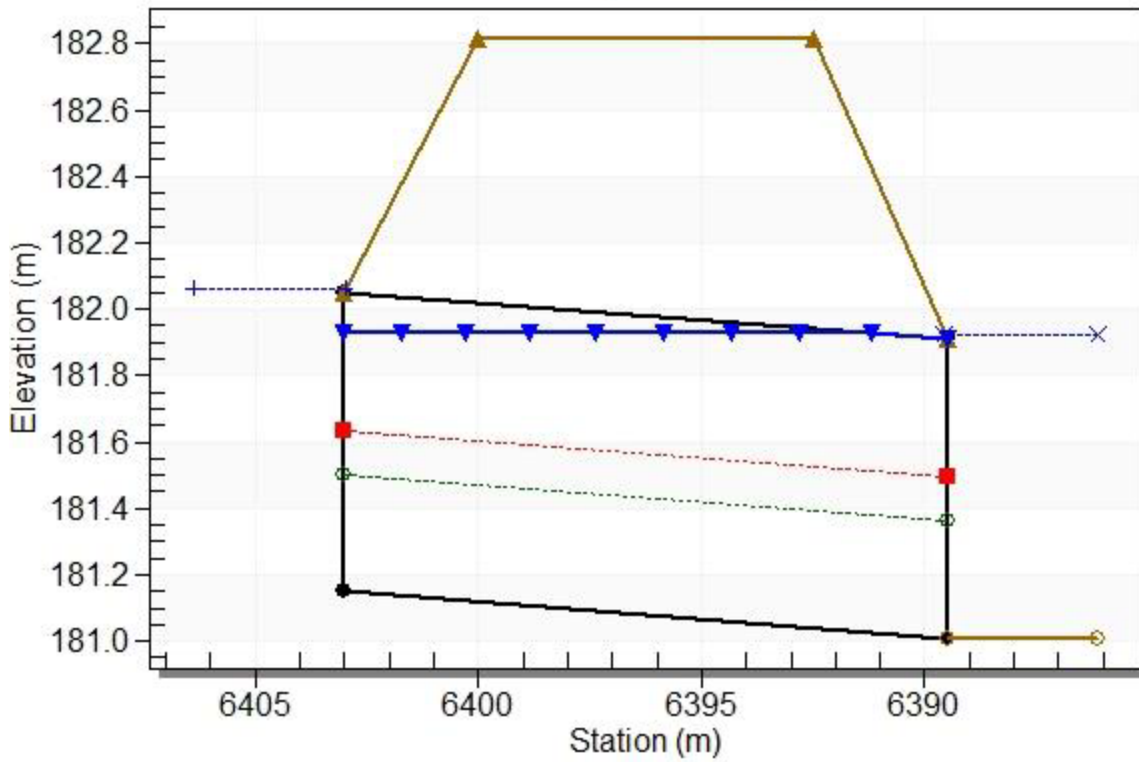
Crossing: J23J24 Wignell - Second Conc Rd. Reloc



Water Surface Profile Plot for Culvert: W-CS-005 Relocated

Crossing - J23J24 Wignell - Second Conc Rd. Reloc, Design Discharge - 1.36 cms

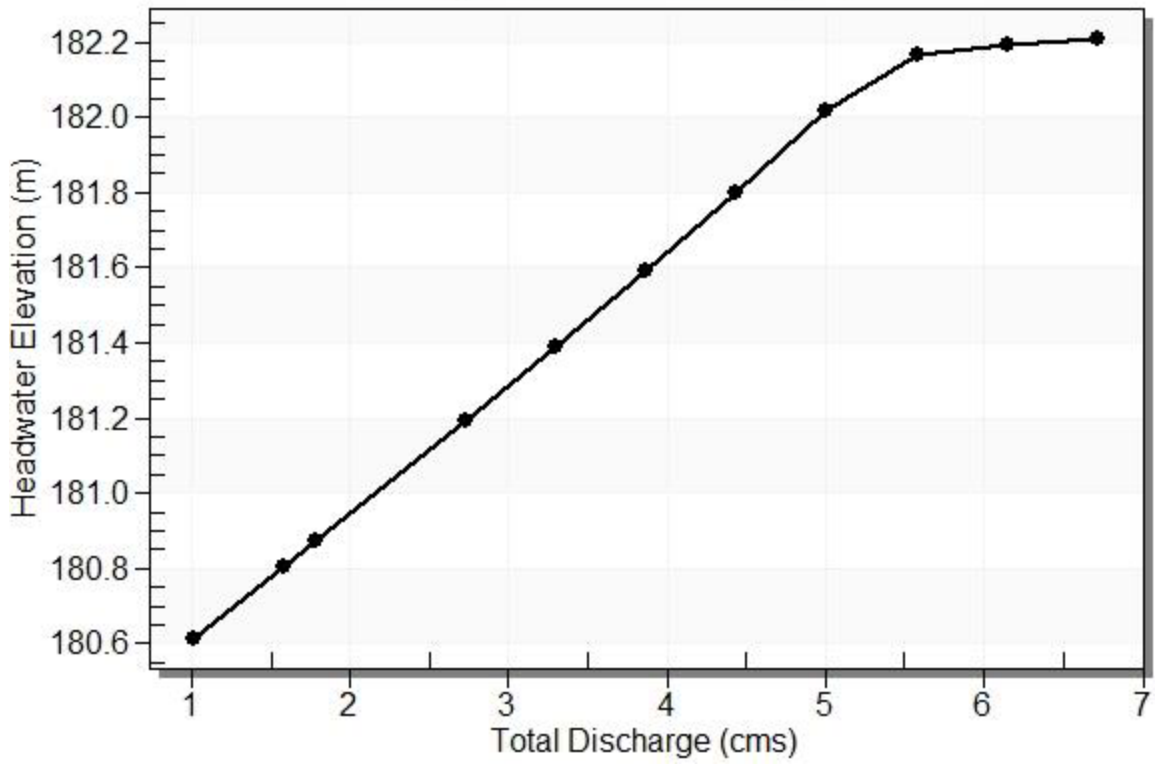
Culvert - W-CS-005 Relocated, Culvert Discharge - 1.36 cms



Rating Curve Plot for Crossing: J24 New Culvert for PC Quarry

Total Rating Curve

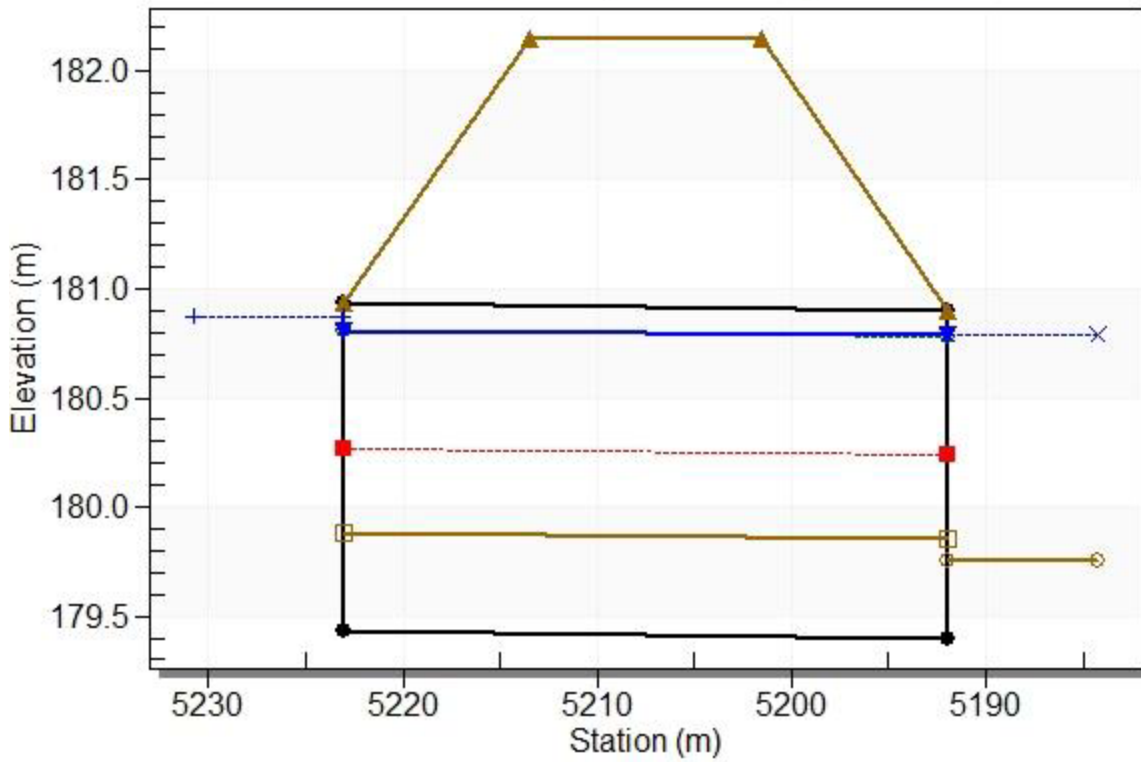
Crossing: J24 New Culvert for PC Quarry



Water Surface Profile Plot for Culvert: W-CS-011 ConcBox

Crossing - J24 New Culvert for PC Quarry, Design Discharge - 1.78 cms

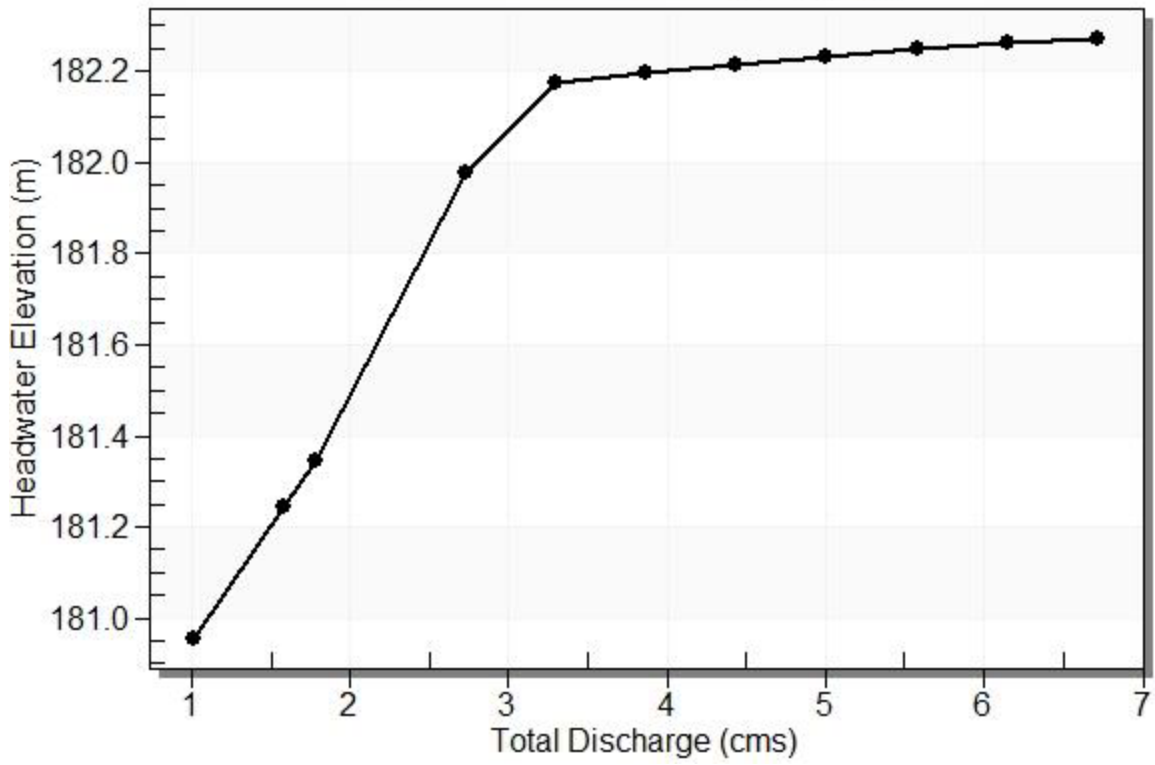
Culvert - W-CS-011 ConcBox, Culvert Discharge - 1.78 cms



Rating Curve Plot for Crossing: J24 New Culvert for PC Quarry (Copy)

Total Rating Curve

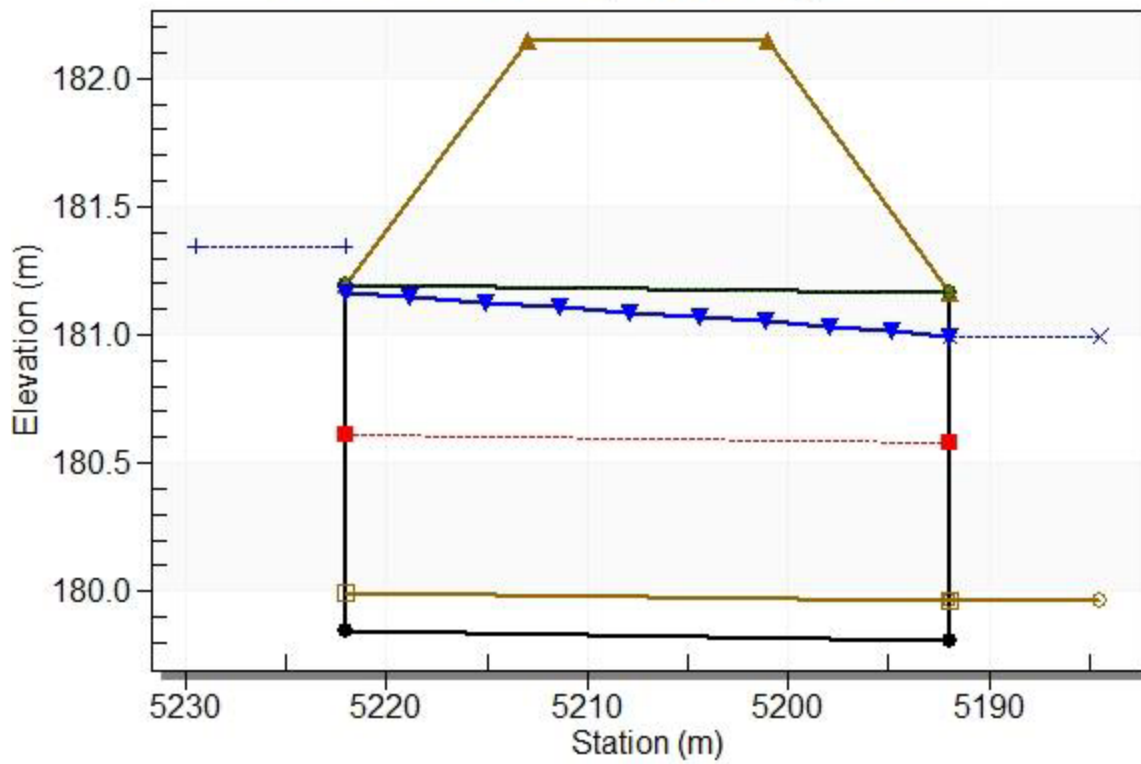
Crossing: J24 New Culvert for PC Quarry (Copy)



Water Surface Profile Plot for Culvert: W-CS-011 - HDPE

Crossing - J24 New Culvert for PC Quarry (Copy), Design Discharge - 1.78 cms

Culvert - W-CS-011 - HDPE, Culvert Discharge - 1.78 cms



HY-8 Culvert Analysis Report

Project Notes

Project Title:

Designer:

Project Date: Tuesday, November 27, 2018

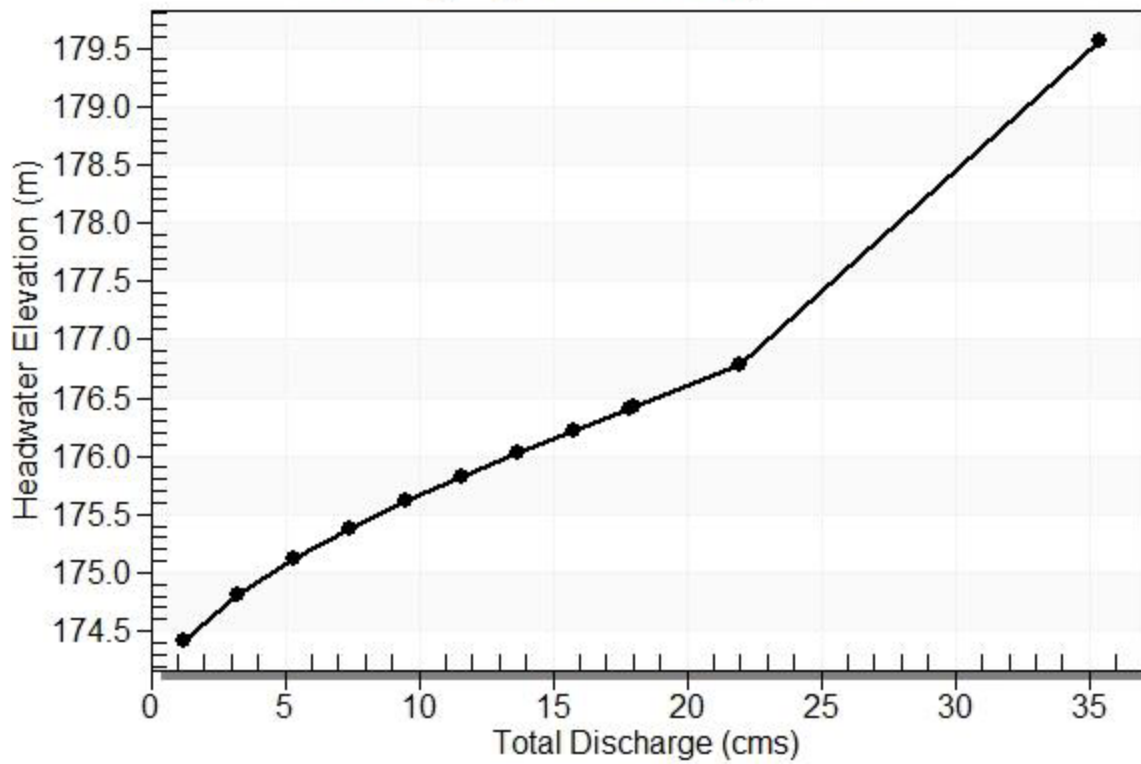
Notes:

Project Units: SI Units (Metric)

Rating Curve Plot for Crossing: Wignell Control Gate Improvement

Total Rating Curve

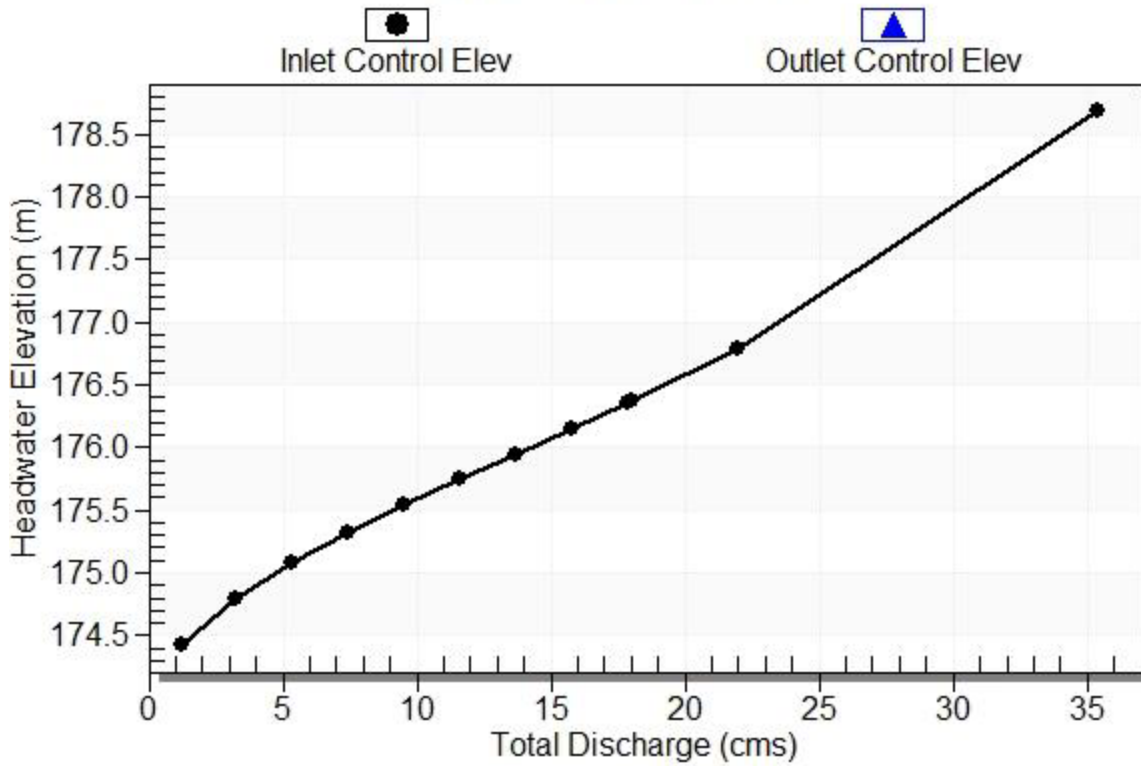
Crossing: Wignell Control Gate Improvement



Culvert Performance Curve Plot: W-GS-001 Gate structure

Performance Curve

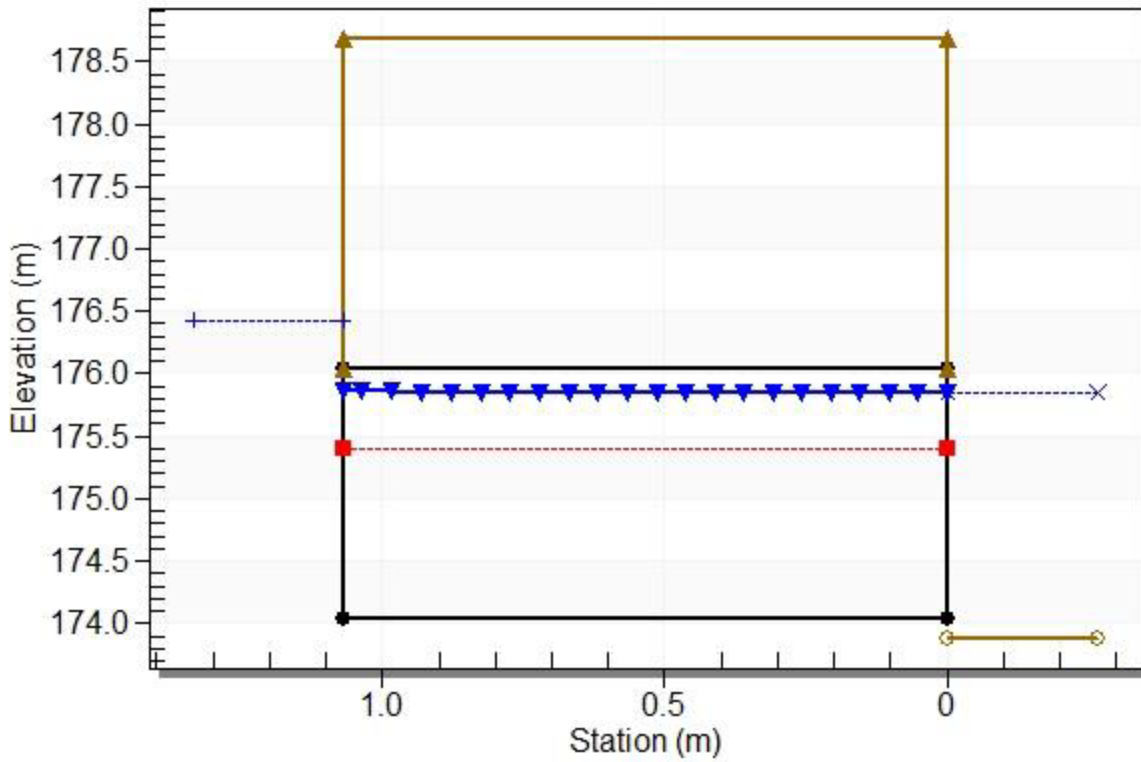
Culvert: W-GS-001 Gate structure



Water Surface Profile Plot for Culvert: W-GS-001 Gate structure

Crossing - Wignell Control Gate Improvement, Design Discharge - 18.00 cms

Culvert - W-GS-001 Gate structure, Culvert Discharge - 18.00 cms



Tailwater Rating Curve Plot for Crossing: Wignell Control Gate Improvement

Downstream Channel Rating Curve

