STAGE 3 REPORT

Wakefield Road, Barnsley

Reference	AS/ HydroWMS.2
Date	JANUARY 2016
Version	2

6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ

Tel: +44(0)191 2585632
info@rwoassociatesuk.com
www.rwoassociatesuk.com

CONTENTS

Confidentiality Statement

Document History

1.0	Summary	4
2.0	Local Surface Water Attenuation	4
3.0	Original Proposed Design	4
4.0	Proposed Drainage Using Skeletank Scheme	4
4.1	Skeletank Storage Requirements	5
5.0	Comparison Between two Systems	6

APPENDICES

Appendix A	Wallingford Maps
Appendix B	Indicative Drainage Layout
Appendix C	Drainage on Plot by Plot Basis
Appendix D	Drainage Calculations

CONFIDENTIALITY STATEMENT

This report has been prepared for the sole use and reliance of HydroWMS. This report shall not be relied upon or transferred to any other parties without the express written authorisation of RWO Associates Limited. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party. No professional liability or warranty shall be extended to other parties by RWO Associates Ltd in this connection without the explicit written agreement thereto by RWO Associates Ltd.

DOCUMENT HISTORY

VERSION	PURPOSE/DESCRIPTION	DATE
1	Issued for client comment	07.01.2016
2	Issued for client comments	08.01.2016

1.0 SUMMARY

RWO Associates have produced a Stage 3 assessment for 236 Units at Wakefield Road, Barnsley on the behalf of HydroWMS.

- The report reviewed the number of Skeletanks required per plot based on either: 0.2l/s, 0.4l/s or 0.6l/s depending on the roof area. Both integral and detached garages have been included in the calculations. By including Skeletanks on a plot by plot basis surface water attenuation is managed at source and meets with the CIRIA SuDS Management Train.
- 33 of the 236 units haven't had the Skeletank scheme designed for the plot drainage due to difficult design.
- Saving in main attenuation volume of 831m^3, changed from 4x 2250 diameter pipes at 244.75m in length down to 4x 2100 diameter pipes at 188.5m in length.

2.0 LOCAL SURFACE WATER ATTENUATION

As surface water attenuation at source is proposed for the roof water drainage the other external areas will discharge via the local surface water attenuation system which has a restricted discharge rate of 28.4 l/s for the 100 year + climate change event. The restriction was put in place to prevent flooding further down the watercourse which the system will drain into.

The impermeable area for all other hard standing areas have been measured as being 3.417Ha. With the roof areas equating to 1.535Ha, giving a total impermeable area of 4.952Ha. Additional area from future phases will be attenuating into this system, so that area of 1.976Ha, which is only an approximation of the impermeable area, has been included within the calculations, giving a total impermeable area of 6.928Ha, making sure that the system would have capacity to attenuate all proposed impermeable areas.

At detailed design the system for the Skeletank drainage will be looked at more closely in the future to see if a more cost effective system could be produced using the Skeletank attenuation system.

3.0 ORIGINAL PROPOSED DRAINAGE

Bryan G. Hall proposed a drainage design at Wakefield Road to provide enough storage to accommodate the 30 year storm event, requiring a storage estimate of 3357m^3 of attenuation to store the surface water without any flooding occurring. The surface water sewer was designed so it would have 100% of the impermeable area discharging into the sewer. There is one main form of attenuation within the site, this is 4 x 2250 diameter pipes at a length of 244.75m equating to an attenuation volume of 3892m^3. There are two ponds within open areas of the site to provide additional attenuation, for such events as a 100 year + climate change. The two ponds are capable of attenuating a volume of 1942m^3 and 504m^3 respectively.

4.0 PROPOSED DRAINAGE USING SKELETANK SCHEME

RWO Associates was tasked with the design of the surface water plot drainage utilising the Skeletank attenuation system, which resulted in the storage within the adoptable system to be downsized by approximately 25%. The Skeletank storage system was designed using a 30 year return period, allowing 100% of the impermeable area to discharge into the surface water drainage system. The Skeletank drainage been designed on a plot by plot basis to allow for the restricted discharge from the flow control into the surface water drainage system, allowing the size of attenuation needed to be reduced.

As the Skeletank provides source control for surface water runoff from roof areas on a plot by plot basis allowing the flows to be conveyed to the main surface water drainage system on a restricted basis.

203 of the 236 plots on site had the Skeletank system designed for the plot drainage; the remaining plots didn't have the Skeletank system designed for due to either difficulty in spacing or too difficult levels due to site constraints mainly due to levels associated with the steep nature of the site.

4.1 SKELETANK STORAGE REQUIREMENTS

After each house type had its total impermeable area measured in AutoCAD, then modelled using MicroDrainage Source Control, the required number of tanks have been modelled.

The amount of tanks required for each plot/house type, also the amount of localised flooding which occurs on each plot can be seen below in Table 1.

Rainfall Design Criteria;
Discharge rate = 0.2 / 0.4 / 0.6 l/s
M5-60 = 18.8
Ratio R = 0.36
SAAR = 675mm

Calculation Reference	Amount of Plots	Impermeable Area Measures m^2	Impermeable Area Modelled m^2	Discharge Rate	Required number of Skeletanks	Volume of flooding for 100yr + CC
Allington	20	69.99	70.00	0.2l/s	4	1.1m^3
Allington +	8	69.97	70.00	0.2l/s	4	1.1m^3
Alton ** See Below	12	41.9	50.00	0.2l/s	2	0.8m^3
Bolberry	8	43.6	50.00	0.2l/s	2	0.8m^3
Bolberry Single Garage	39	60.25	70.00		4	1.1m^3
Bolberry Double Garage	1	75.6	80.00		6	1.0m^3
Edge ** See Below	34	47.23	50	0.2l/s	2	0.8m^3
Edge Garage	2	63.83	70.00	0.2l/s	4	1.1m^3
Hampton ** See Below	1	48.45	50.00	0.2l/s	2	0.8m^3
Hapmton Garage	3	65.45	70.00	0.2l/s	4	1.1m^3
Kingsbury Single Garage	6	84.06	90.00	0.4l/s	5	1.0m^3
Kingsbury Double Garage	8	101.06	110.00	0.4l/s	7	1.2m^3
Leedale Single Garage	15	83.82	90.00	0.4l/s	5	1.0m^3
Leedale Double Garage	3	99.22	100.00	0.4l/s	6	1.1m^3
Lincoln	12	66.9	70.00	0.2l/s	4	1.1m^3
Rochester	22	76.97	80.00	0.2l/s	6	1.0m^3
Salisbury	1	70.90	80.00	0.2l/s	6	1.0m^3
Salisbury Single Garage	10	87.9	90.00	0.4l/s	5	1.0m^3
Whitwell Single Garage	10	86.1	90.00	0.4l/s	5	1.0m^3
Whitwell Double Garage	1	100.9	110	0.4l/s	7	1.2m^3
Alton 3 plots combined	3	124.4	130	0.6l/s	7	1.3m^3
Alton + Hampton	2	129.7	130	0.6l/s	7	1.3m^3
Edge + Hampton	4	139.8	140	0.6l/s	8	1.4m^3

**Where 3 plots were terraced, the drainage was combined into one system with one flow control.*

Table 1 – Number of required Skeletanks

It should be noted that whilst the 100 year return period with 30% climate allowance results in minor plot flooding within the model each residential plot will have between 0.5m³ and 0.8m³ of attenuation in plot drainage which is not modelled as such this can be removed from the modelled volumes.

5.0 COMPARISON BETWEEN THE TWO SYSTEMS

	Original Design			Skeletank Design		
Storm Event	30yr	100yr	100yr + CC	30yr	100yr	100yr + CC
Flooding	0m³	0m³	1.2m³	0m³	0m³	0m³
Discharge rate leaving site	27.8 l/s	30.6 l/s	34.7 l/s	24.4 l/s	26.5 l/s	28.1 l/s

Table 2 – Comparison of Flooding & discharge 30yr, 100yr & 100yr+CC

Original Design			Skeletank Design		
Pipe Number	Length (m)	Diameter(mm)	Pipe Number	Length (m)	Diameter (mm)
10.004	114.00	4x 2250	10.004	114.00	3x 2100
25.004	130.750	4x 2250	25.004	130.750	3x 2100

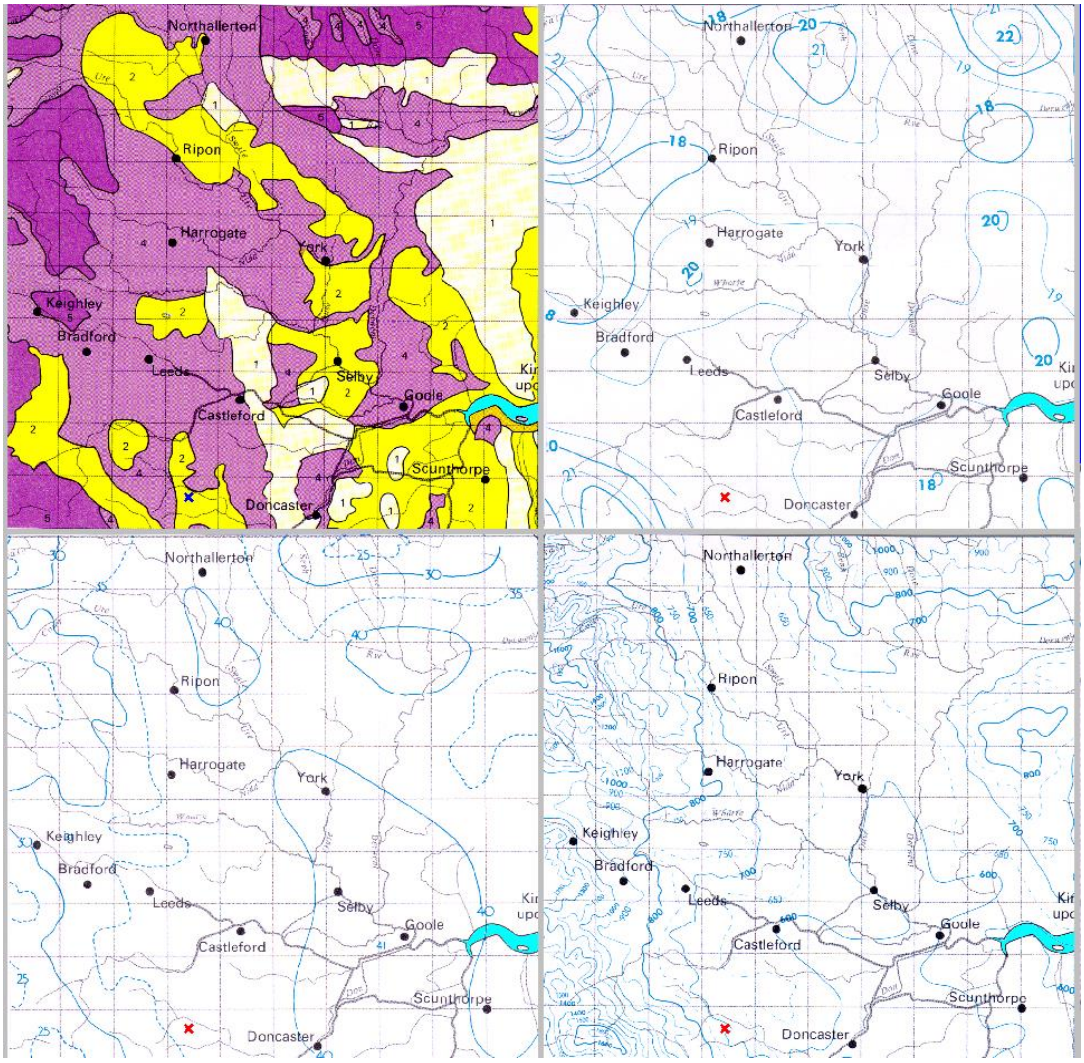
Table 3 – Comparison of Pipe Diameters

As you can see from table 3 above, using the Skeletank system has reduced the amount of below ground attenuation required down from 3380m³ approximately, to 2549m³. This is approximately a 25% reduction in attenuation, resulting in large cost savings.

Both of the ponds will still be utilised as overflow storage for the 100 year + climate change events, which is why there is only minor flooding on the original design but no flooding on any of the Skeletank design due to the way the attenuation stores the larger, more intense storms.

Table 2 shows the difference between the flooding, and also the discharge coming off the site. The discharge was included as it was stated that for the Skeletank design it was restricted to 28.4 l/s maximum for the 100 year + climate change events to prevent flooding downstream of the water course which is the discharge point for this storm water sewer system. The reason behind the reduction of attenuation was due to a decrease in impermeable area being modelled. There has been a reduction of 1.535Ha of impermeable area, when the Skeletanks are utilised. The reduction can be achieved by adding in HYQ files which model the discharge of the roof area and restricts the flow into the sewer, thus allowing the attenuation to be reduced.

Appendix A Wallingford Maps



Design Parameters

M5-60 = 18.8
Ratio R = 0.36
SAAR = 675mm

Appendix B Indicative Drainage Layout



NOTES

1. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE WATER SERVICES ASSOCIATION 'SEWERS FOR ADOPTION' - 6TH EDITION AND ADOPTING WATER AUTHORITY / SEWERAGE AGENCY REQUIREMENTS AND SPECIFICATIONS. ALL PRIVATE DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATIONS 2000 EDITION.
2. CONTRACTOR TO ESTABLISH POSITION SIZE AND DEPTH OF ALL EXISTING SEWERS AND SERVICES PRIOR TO COMMENCEMENT ON SITE.
3. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT, AND TEMPORARY AND PERMANENT DIVERSION WORKS, AS NECESSARY TO ALL EXISTING SERVICES.
4. THE CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS.
5. THE CONTRACTOR SHALL ALLOW FOR KEEPING SEWER TRENCHES AND EXCAVATIONS AS DRY AS PRACTICABLE BY PUMPING FROM TEMPORARY SUMPS AND DEWATERING AS APPROPRIATE, THE POINT AND METHOD OF DISCHARGE TO BE AGREED WITH THE DRAINAGE AUTHORITY.
6. FOR PIPE SPECIFICATION PLEASE REFER TO ADDITIONAL NOTES.
7. VITRIFIED CLAY PIPES AND FITTINGS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN2935 AND BS 65 RESPECTIVELY AND BE X1TEMARKED. ALL PIPES SHALL BE EXTRA STRENGTH TO BS 65 OR EQUIVALENT BS EN295 PIPE CRUSHING STRENGTH.
8. STRUCTURED WALL PLASTIC PIPES TO WIS 4-35-01 MAY BE USED FOR FOUL & SURFACE WATER DRAINAGE SUBJECT TO ADOPTING AUTHORITY APPROVAL.
9. PRECAST CONCRETE PRODUCTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 5911, AND BE X1TEMARKED. CONCRETE PIPES TO BE CLASS 120 UNLESS NOTED OTHERWISE.
10. GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN124 AND BE OF A NON-ROCKING DESIGN WITH CAPTIVE HINGE ACCESS AND BE CLASSIFIED AS FOLLOWS: CLASS D400 FOR ROADS AND SERVICE YARD AREAS. CLASS C250 TO BE USED IN CAR PARKING AREAS.
11. CLASS "Z" BEDDING DETAIL SHALL BE PROVIDED WHERE COVER TO THE PIPE BARREL IS LESS THAN 1.2m IN VEHICULAR TRAFFICKED AREAS AND 0.9m ELSEWHERE, TO ALL ROAD GULLY CONNECTIONS AND WITHIN AREAS OF DEEP ROOTING VEGETATION.
12. WHERE CLASS "Z" TRENCH BEDDING DETAIL IS USED, THE CONCRETE BED AND SURROUND SHALL BE DISCONTINUED AT EACH PIPE JOINT OVER THE FULL CROSS SECTION BY MEANS OF A SHAPED COMPRESSIBLE FILLER.
13. BACKFILLING AND REINSTATEMENT TO TRENCHES IN PUBLIC HIGHWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE ADOPTING AUTHORITY, OR, IN THE ABSENCE OF SUCH, IN ACCORDANCE WITH THE REQUIREMENTS OF "THE STREET WORKS REGULATIONS 1992" AND RELEVANT PROVISIONS OF HAUC "SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS" JUNE 1992, BOTH UNDER SECTION 71 OF THE NEW ROADS AND STREET WORKS ACT 1991.
14. ALL TRADITIONAL RAINWATER PIPE DOWNCOMERS TO DISCHARGE TO TRAPPED GULLIES.
15. ALL SIPHONIC DRAINAGE DOWNCOMERS TO MANUFACTURER SPECIFICATION.
16. ALL ROAD GULLIES ARE TO BE TRAPPED GULLIES.
17. ALL GULLY LEADS TO BE 150mm DIAMETER.
18. ALL PIPES TO BE 100mm DIAMETER UNLESS OTHERWISE STATED.
19. ALL REDUNDANT EXISTING DRAINAGE TO BE GRUBBED UP OR GROUTED, ANY EXISTING LIVE DRAINAGE SHOULD BE REPORTED TO THE ENGINEER AND RECONNECTED.
20. ALL ROAD GULLIES & LEADS TO BE CLEARED OF DEBRIS UPON COMPLETION OF WORKS.
21. ANY EXISTING DRAINAGE WHICH BECOMES UNDER TRAFFICKED AREAS IN THE NEW SCHEME SHOULD BE SUBJECT TO THE FOLLOWING REMEDIALS/REVISIONS. WHERE DEPTH OF COVER IS LESS THAN 1200mm, THE EXISTING PIPEWORK SHALL BE EXPOSED & SURROUNDED WITH 150mm CONCRETE AS CLASS "Z" BEDDING, WHERE THE EXISTING MANHOLE COVER & FRAME IS NOT AS MANHOLE DETAIL A OR B, OR TO BS497 PART 1, THE COVER & FRAME SHALL BE CHANGED FOR SUCH.
22. THE CONTRACTOR SHALL ENSURE THAT ANY OF THE EXISTING DRAINAGE WHICH IS LIVE IS KEPT CLEAR OF DEBRIS AND SHOULD ALLOW FOR LETTING THROUGH THE NEW & EXISTING DRAINAGE UPON COMPLETION.
23. CONTRACTOR TO TAKE MEASURES TO PROTECT HIS OPERATIVES WITH RESPECT TO THE PRESENCE OF GAS IN SEWER TRENCHES AND MANHOLES THROUGH THE USE OF GAS MONITORING EQUIPMENT AND BREATHING APPARATUS AS REQUIRED.
24. CONTRACTOR TO APPLY FOR SEWER PERMITS AND ROAD OPENING PERMITS AS NECESSARY FROM THE APPROPRIATE AUTHORITIES, PRIOR TO COMMENCING WORKS.

VERGES AND GRASSED AREAS:

1. GRASSED AREAS SHALL BE PREPARED BY CLEARING THE AREA OF ALL RUBBISH, BRICKS, STONES AND BREAKING ANY HARD GROUND BY HAND FORKING OR HARROWING OR ROTOVATING SO THAT THE PREPARED AREA IS 150mm BELOW THE PROPOSED FINISHED LEVEL.
2. REMOVED TOPSOIL SHALL BE SPREAD AND LIGHTLY ROLLED TO A FINISHED THICKNESS OF 150mm FOR SEEDING AND 100mm FOR TURFING.
3. THE TOPSOIL SHALL BE FERTILISED BY EVENLY SPREADING THE FOLLOWING AT A RATE OF 50kg TO 650m²
   THE FERTILISED SHALL CONTAIN NO LESS THAN:
   10% NITROGEN
   15% PHOSPHORIC ACID
   10% POTASH
4. WHERE THE AREA IS TO BE TURFED, TURFES SHALL COMPLY WITH BS3365. THEY SHALL BE LAID TO BOND AND TAMPED INTO THE TOPSOIL BED. ON BANKS TURFES SHALL BE LAID DIAGONALLY AND IF NECESSARY PEGGED WITH WOODEN PEGS FLUSH WITH SURFACE. THE SOIL SHALL FINISH 10mm ABOVE SURROUNDING PAVEMENTS AND KERBS AND THE WHOLE AREA SHALL NOT FALL BELOW THIS LEVEL. PRECAST CONCRETE EDGINGS SHALL BE LAID BETWEEN THE FOOTWAY AND THE GRASS VERGE.
5. WHERE THE AREA IS TO BE SEEDED, SEED MIX IS TO BE SPECIFIED BY LANDSCAPE ARCHITECT

GENERAL NOTES:

1. WHERE THE BASE (ROAD BASE) HAS BEEN USED AS A TEMPORARY RUNNING SURFACE DURING THE CONTRACT IT SHALL BE THOROUGHLY CLEANED AND POWER WASHED AS NECESSARY. AFTER DRYING AND IMMEDIATELY BEFORE THE BINDER COURSE IS LAID A TACK COAT OF BITUMEN EMULSION CLASS A1-40 OR K1-40 TO BS434 SHALL BE APPLIED AT A RATE OF 0.25-0.55 litres/ sq.metre.
2. ALL RADIUS KERBS WITH A RADIUS OF 12m OR LESS SHALL BE FORMED WITH PROPRIETARY RADIUS KERBS.

HEALTH & SAFETY:

1. CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.

ROAD/ DRAINAGE:

2. CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE
3. THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
4. CONNECTIONS TO EXISTING SEWERS TO BE MADE BY APPROVED CONTRACTOR ONLY.
5. CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LEPTOSPIROSIS (WEILS DISEASE) AND RECOMMENDED PRECAUTIONS. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
6. UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIER.

PIPES & CABLES:

7. CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
8. SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

EXCAVATION / FILL:

9. CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
10. CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
11. CONTRACTOR TO REFER TO GROUND INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.

KEY

←1500 1:150→	PROPOSED PRIVATE SURFACE
•	FLOW CONTROL
▭	SKELETANK
PRC CL 0.000 IL 0.000 ○	PROPOSED SURFACE PRC
AC ●	PROPOSED SURFACE AC
RE ‖	PROPOSED RODDING EYE
RWP ▪	PROPOSED RWP

Date	Revisions	Drawn	CHKD	Rev.

Dwg Status: PRELIMINARY

RWO ASSOCIATES CONSULTING ENGINEERS
RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com

Client: BRYAN G. HALL

Project: WAKEFIELD ROAD, BARSLEY

Title: PROPOSED SKELETANK DRAINAGE

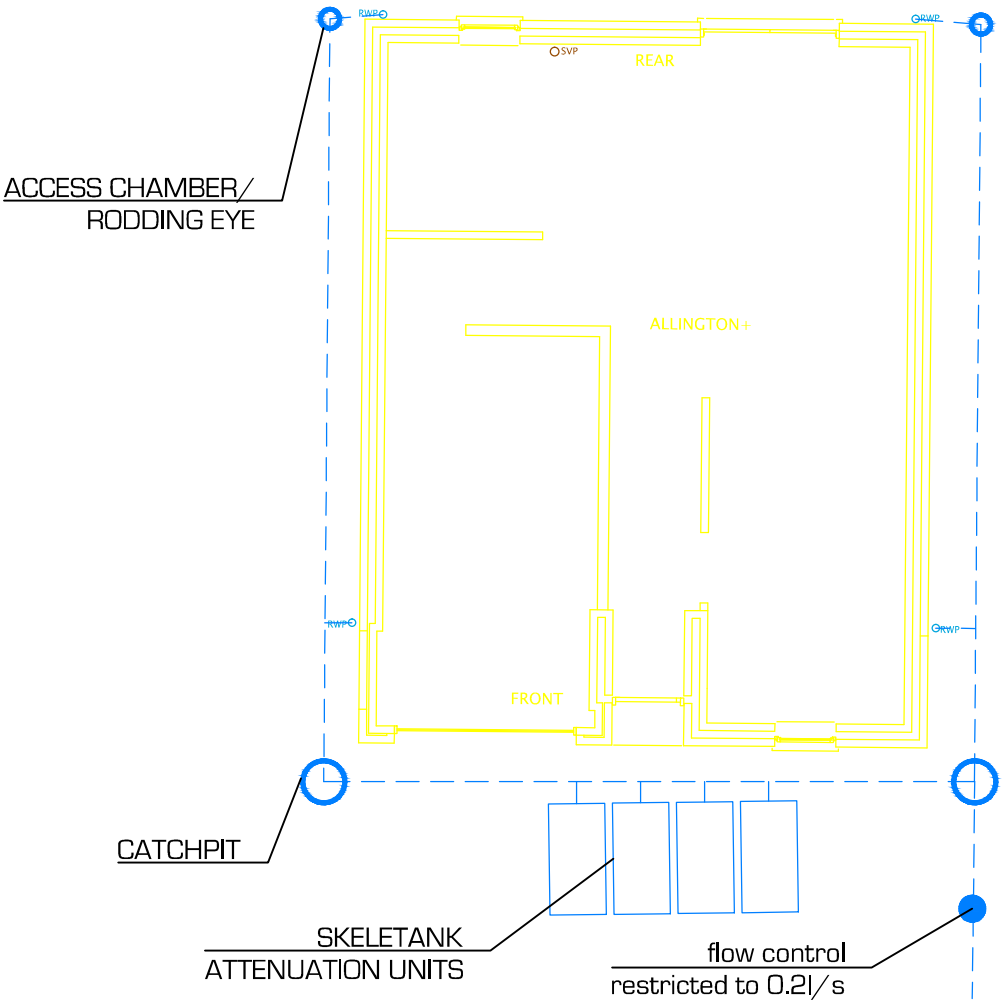
Scale	Drawn	Checked	Date
1:500	AS	RWO	12.01.16

Job No.	Drawing No.	Revision
	200	-

A0 - Do Not Scale.

Appendix C Drainage on Plot by Plot Basis

A4 - Do Not Scale.

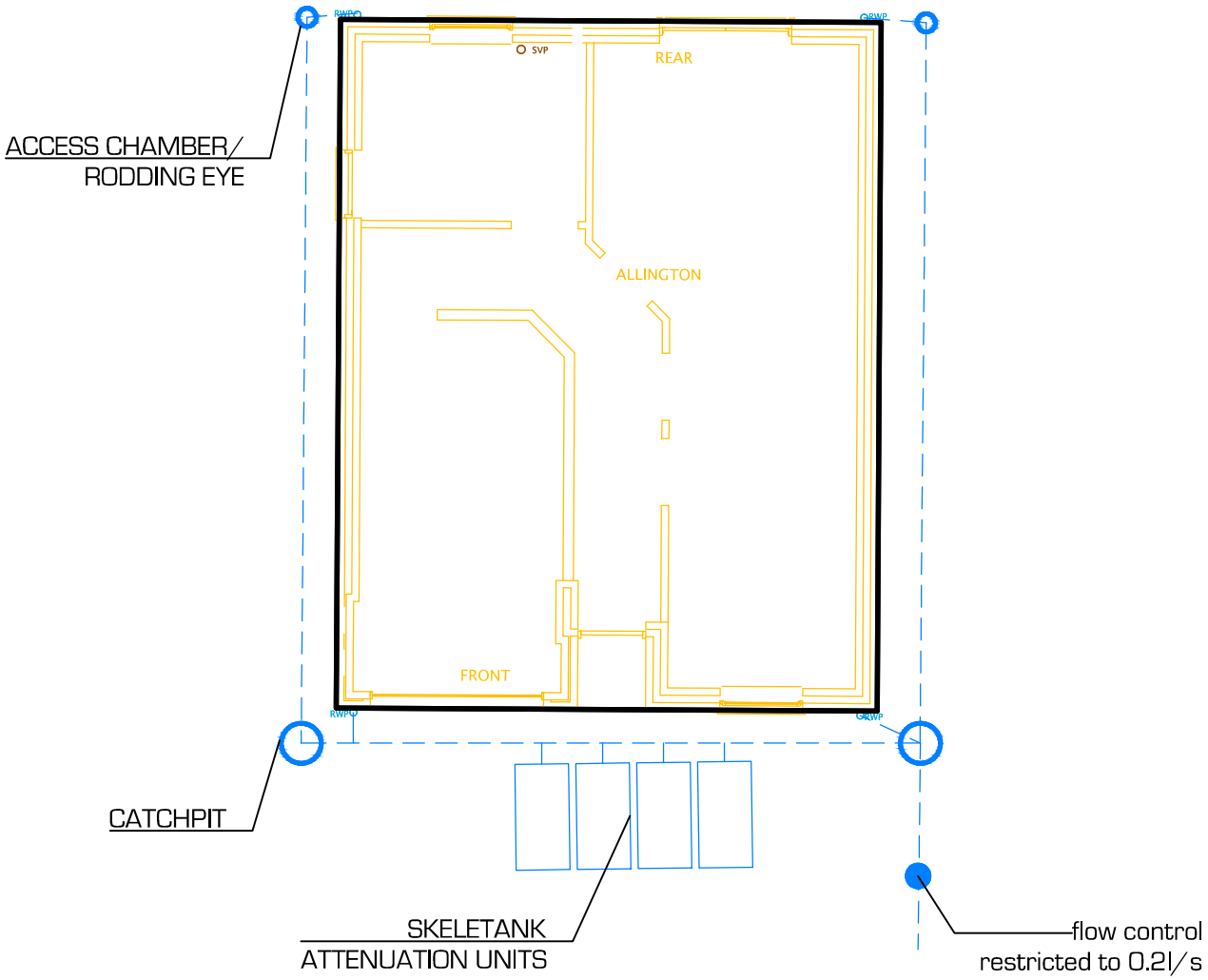


Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
			Dwg Status	INFORMATION	
Project WAKEFIELD ROAD, BARNSLEY		Drawn AS			
Title ALLINGTON + HOUSE TYPE DRAINAGE		Checked RWO			
Job No. HYDROWMS	Drawing No. -	Revision -	Date 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.

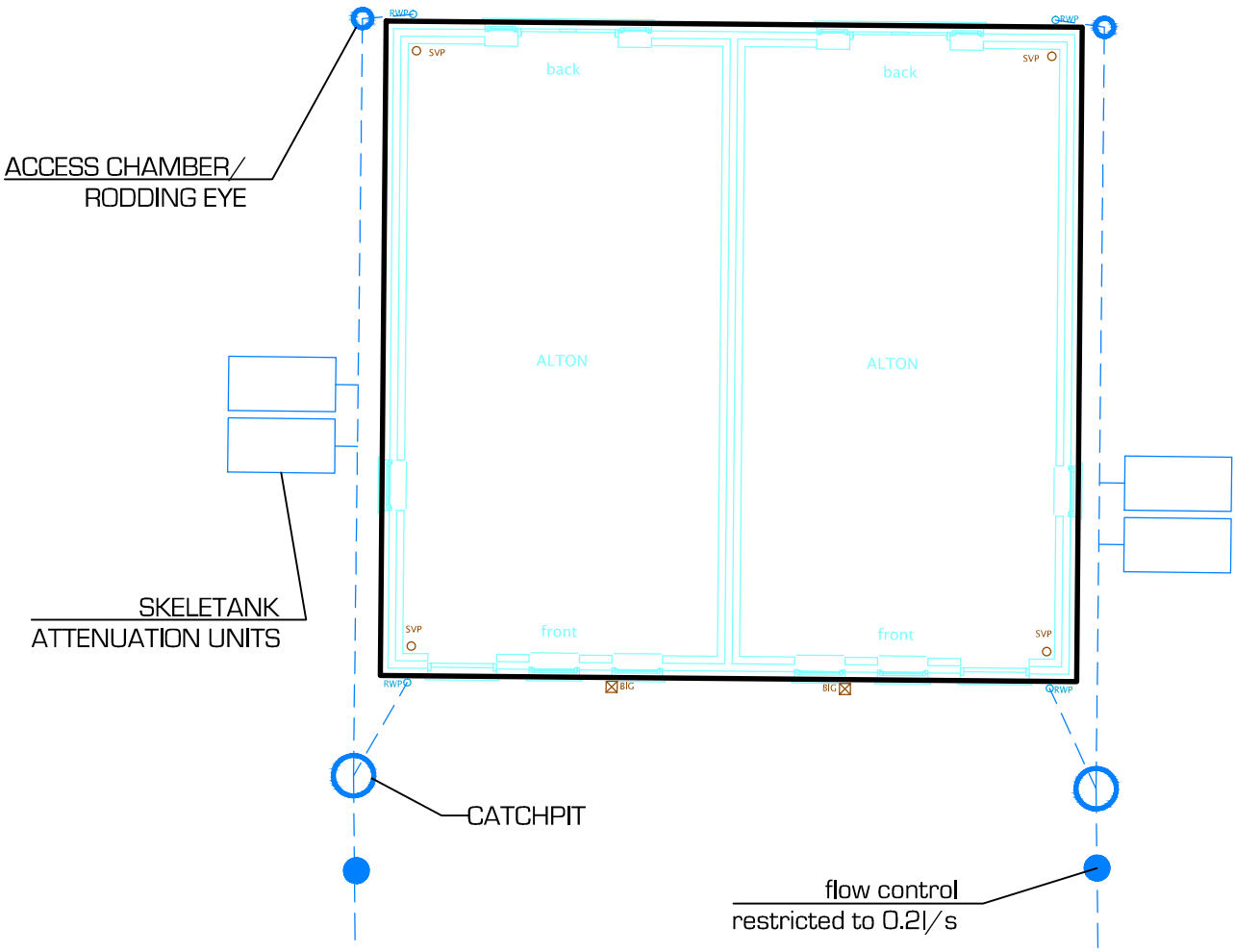


Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
			Dwg Status: INFORMATION		
Project: WAKEFIELD ROAD, BARNSLEY		Drawn: AS			
Title: ALLINGTON HOUSE TYPE DRAINAGE		Checked: RWO			
Job No.: HYDROWMS	Drawing No.: -	Revision: -	Date: 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

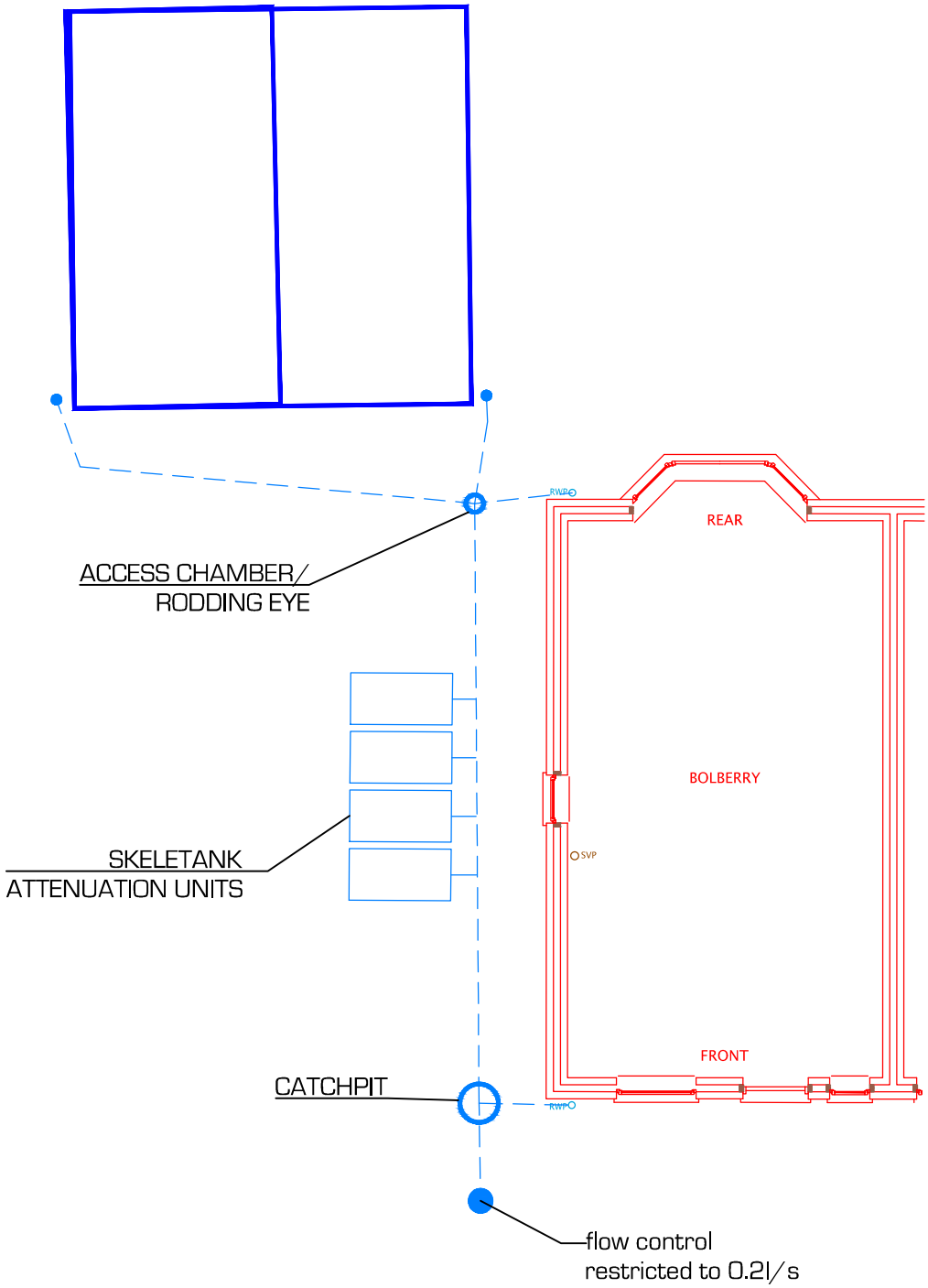
A4 - Do Not Scale.



Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
			Dwg Status	INFORMATION	
Project: WAKEFIELD ROAD, BARNSLEY		Drawn AS			
Title: ALTON HOUSE TYPE DRAINAGE		Checked RWO			
Job No. HYDROWMS	Drawing No. -	Revision -	Date 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS
RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.

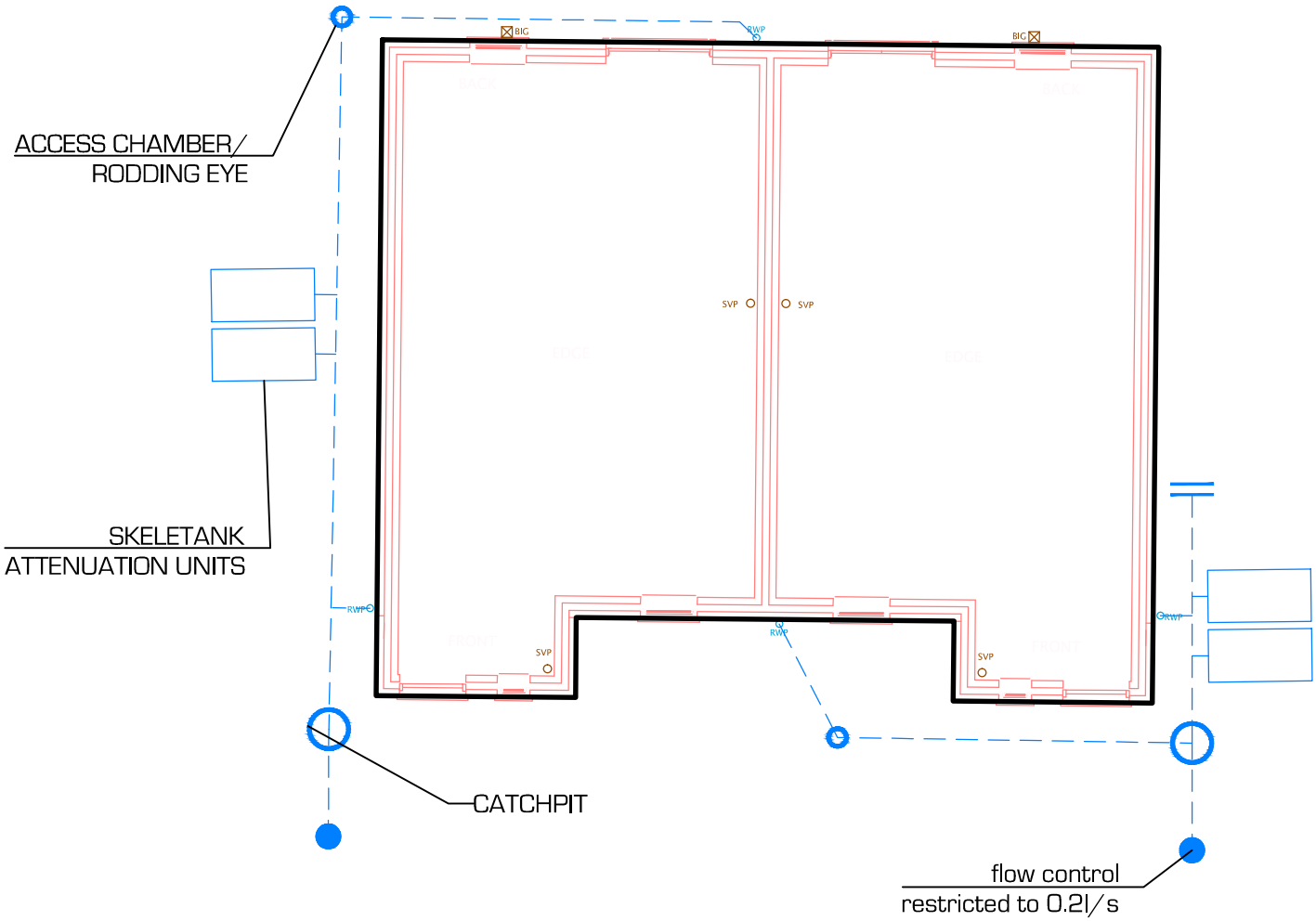


Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
Project: WAKEFIELD ROAD, BARNSLEY		Drawn AS	Dwg Status: INFORMATION		
Title: BOLBERRY HOUSE TYPE DRAINAGE		Checked RWO			
Job No. HYDROWMS	Drawing No. -	Revision -	Date 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.

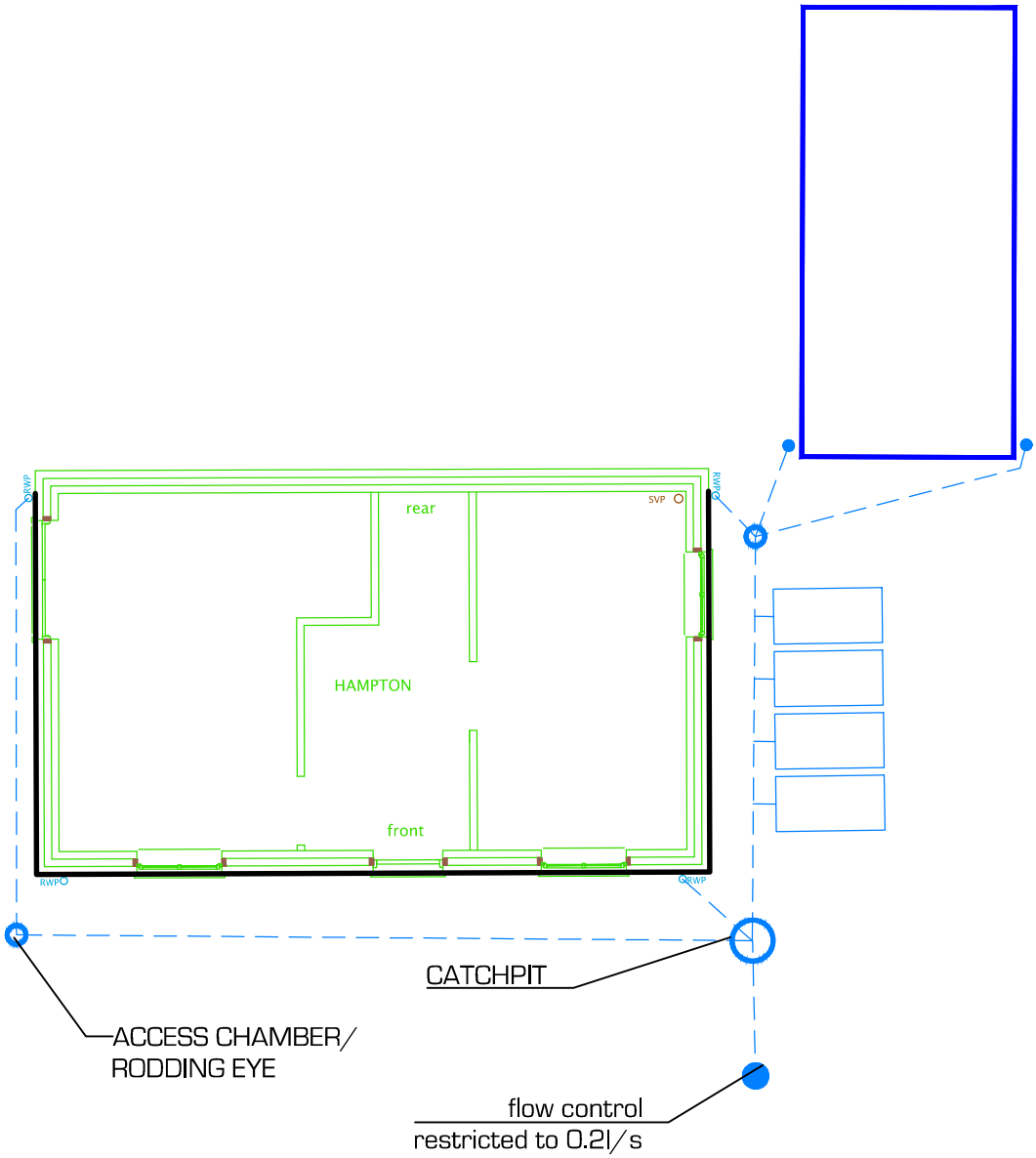


Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
Project: WAKEFIELD ROAD, BARNSLEY		Drawn: AS	Dwg Status: INFORMATION		
Title: EDGE HOUSE TYPE DRAINAGE		Checked: RWO			
Job No.: HYDROWMS	Drawing No.: -	Revision: -	Date: 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.

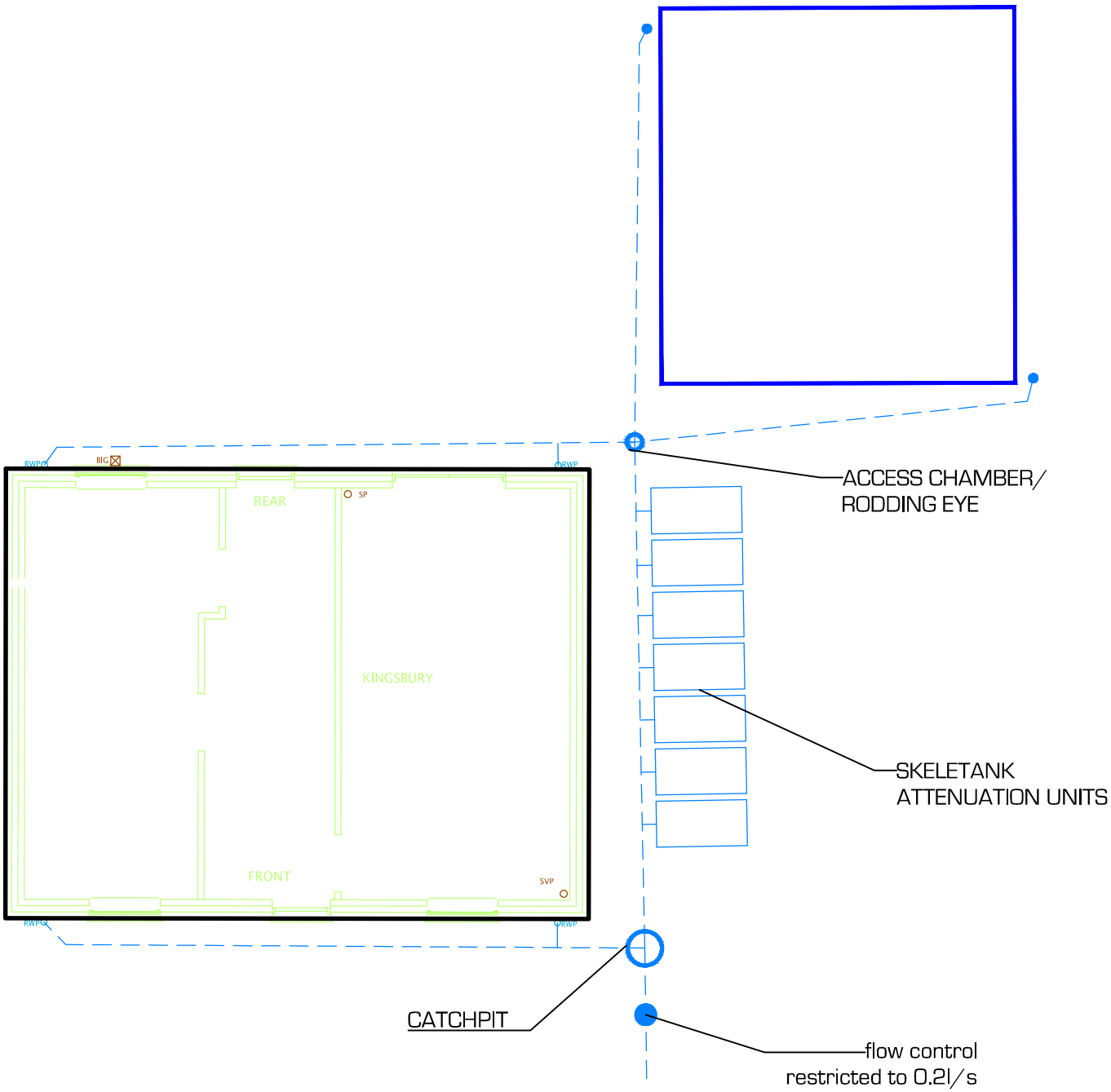


Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
			Dwg Status	INFORMATION	
Project WAKEFIELD ROAD, BARNSLEY		Drawn AS			
Title HAMPTON HOUSE TYPE DRAINAGE		Checked RWO			
Job No. HYDROWMS	Drawing No. -	Revision -	Date 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

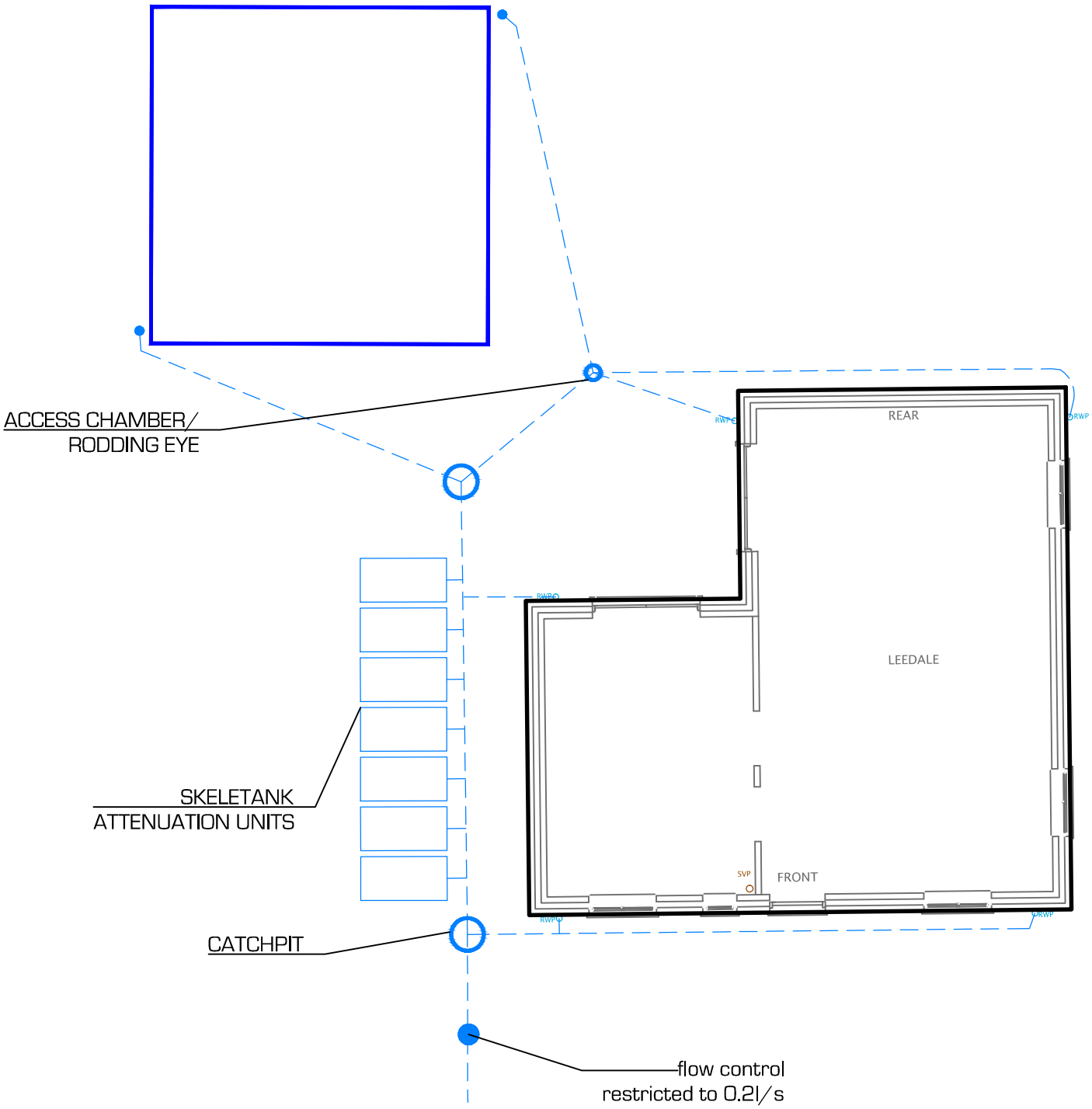
A4 - Do Not Scale.



Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
Project WAKEFIELD ROAD, BARNSLEY		Drawn AS	Dwg Status INFORMATION		
Title KINGSBURY HOUSE TYPE DRAINAGE		Checked RWO			
Job No. HYDROWMS	Drawing No. -	Revision -	Date 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS
RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.

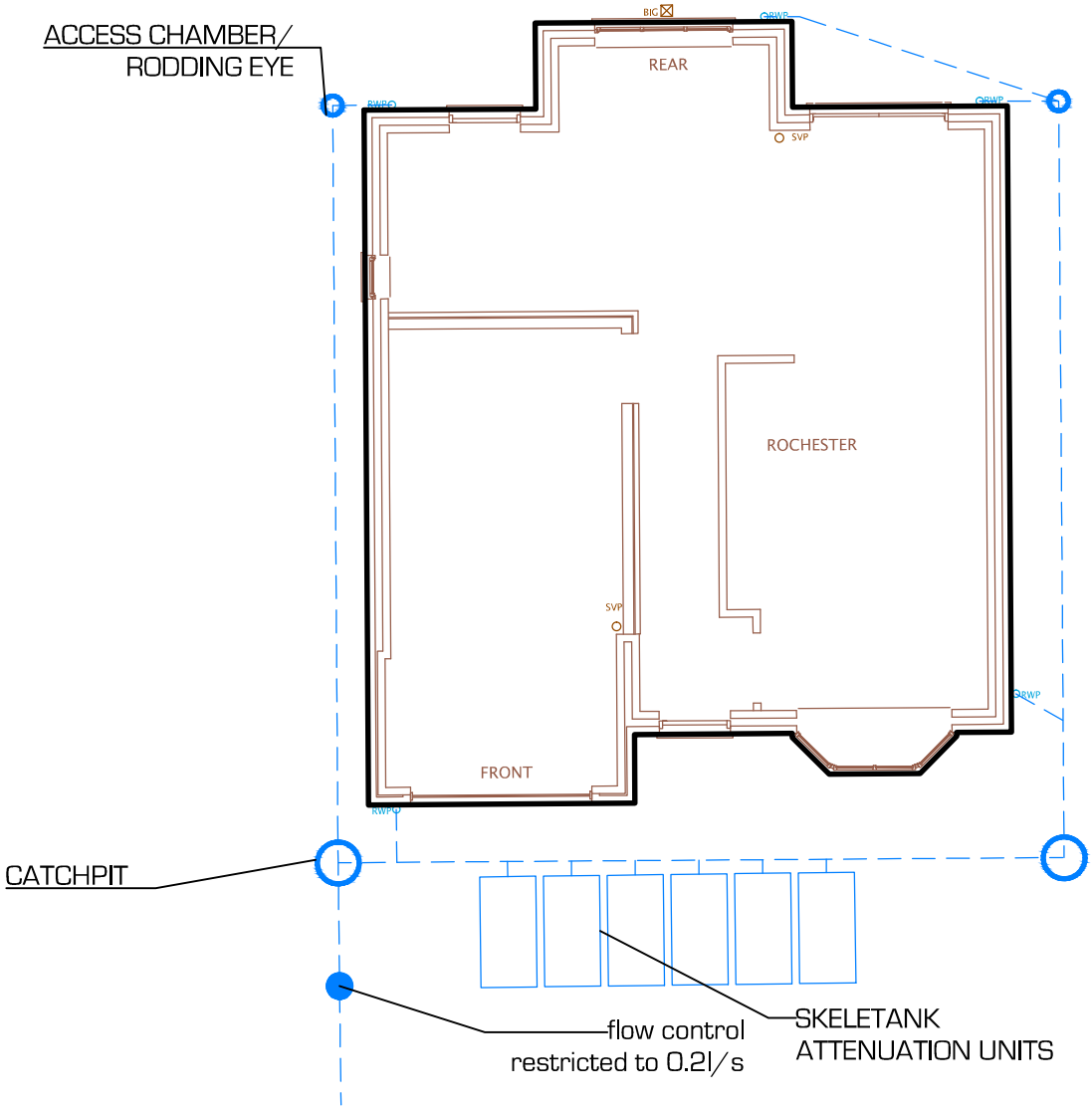


Client		Scale 1:100	Date / Revisions / Drawn / CHKD / Rev.	
Project: WAKEFIELD ROAD, BARNSLEY		Drawn: AS	Dwg Status: INFORMATION	
Title: HOUSE TYPE DRAINAGE		Checked: RWO		
Job No.: HYDROWMS	Drawing No.: -	Revision: -	Date: 12/01/16	

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.

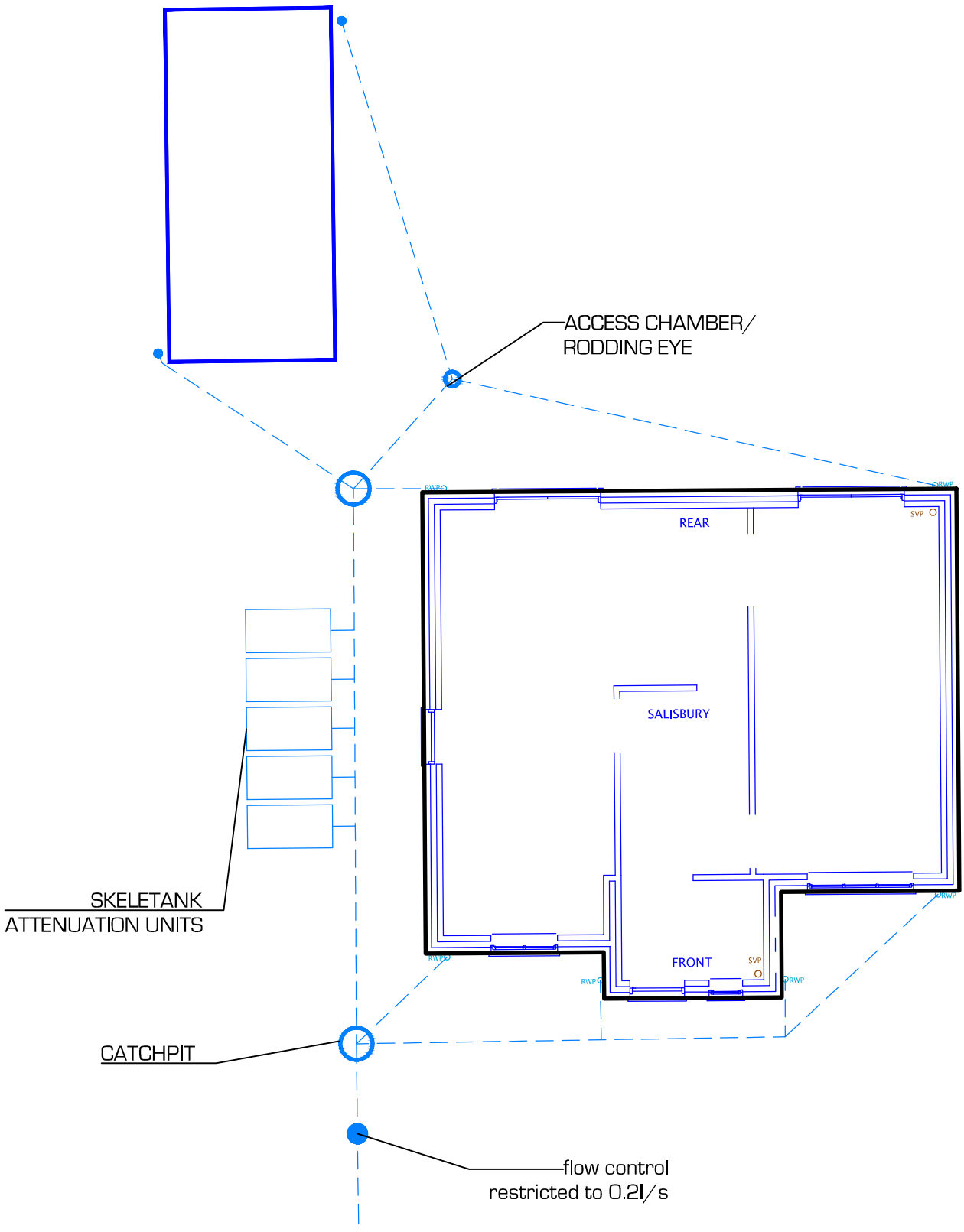


Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
Project: WAKEFIELD ROAD, BARNSLEY		Drawn AS	Dwg Status: INFORMATION		
Title: ROCHESTER HOUSE TYPE DRAINAGE		Checked RWO			
Job No. HYDROWMS	Drawing No. -	Revision -	Date 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.

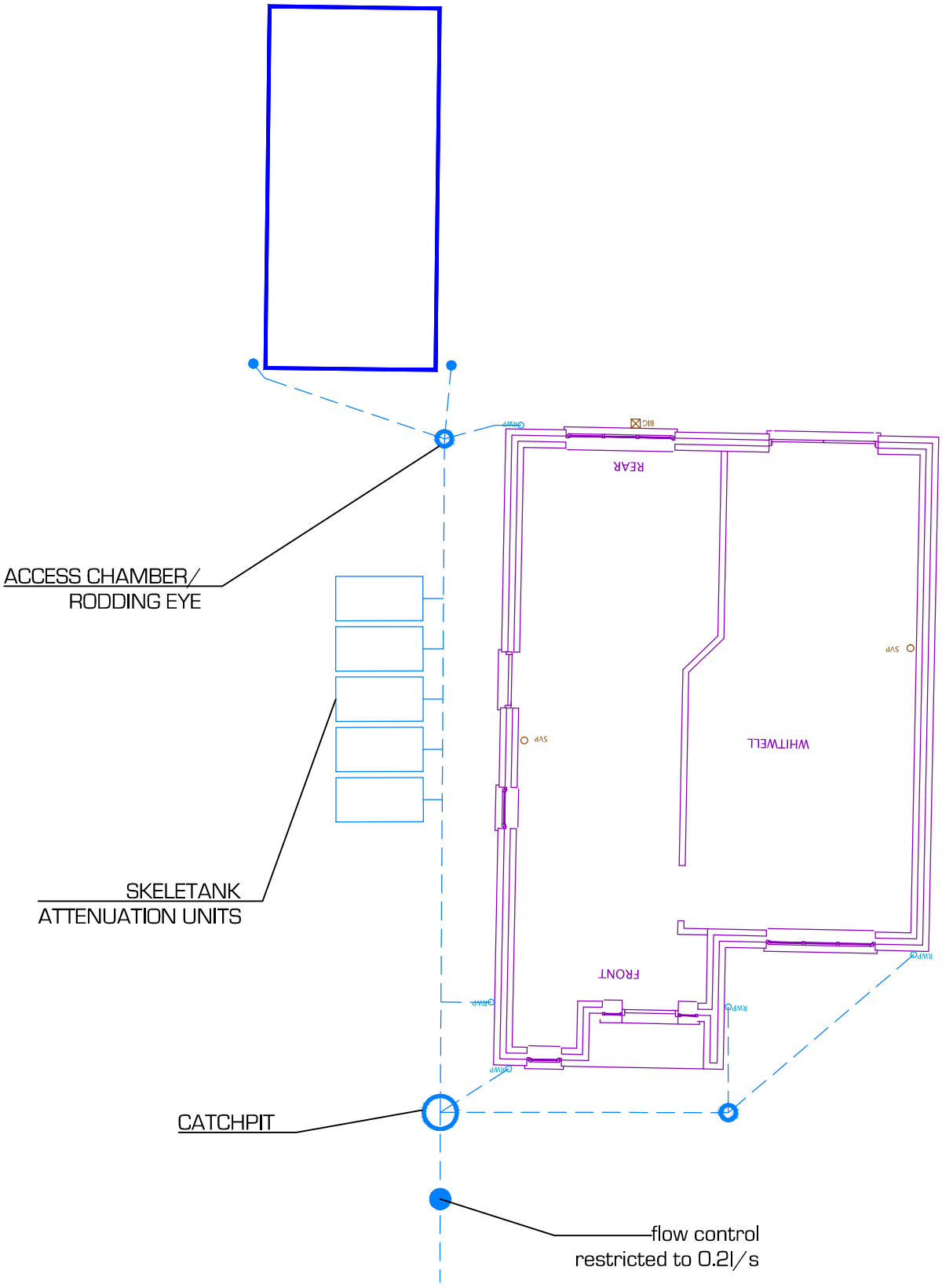


Client		Scale 1:100	Date	Revisions	Drawn	CHKD	Rev.
Project WAKEFIELD ROAD, BARNSLEY		Drawn AS	Dwg Status INFORMATION				
Title SALISBURY HOUSE TYPE DRAINAGE		Checked RWO					
Job No. HYDROWMS	Drawing No. -	Revision -	Date 12/01/16				

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

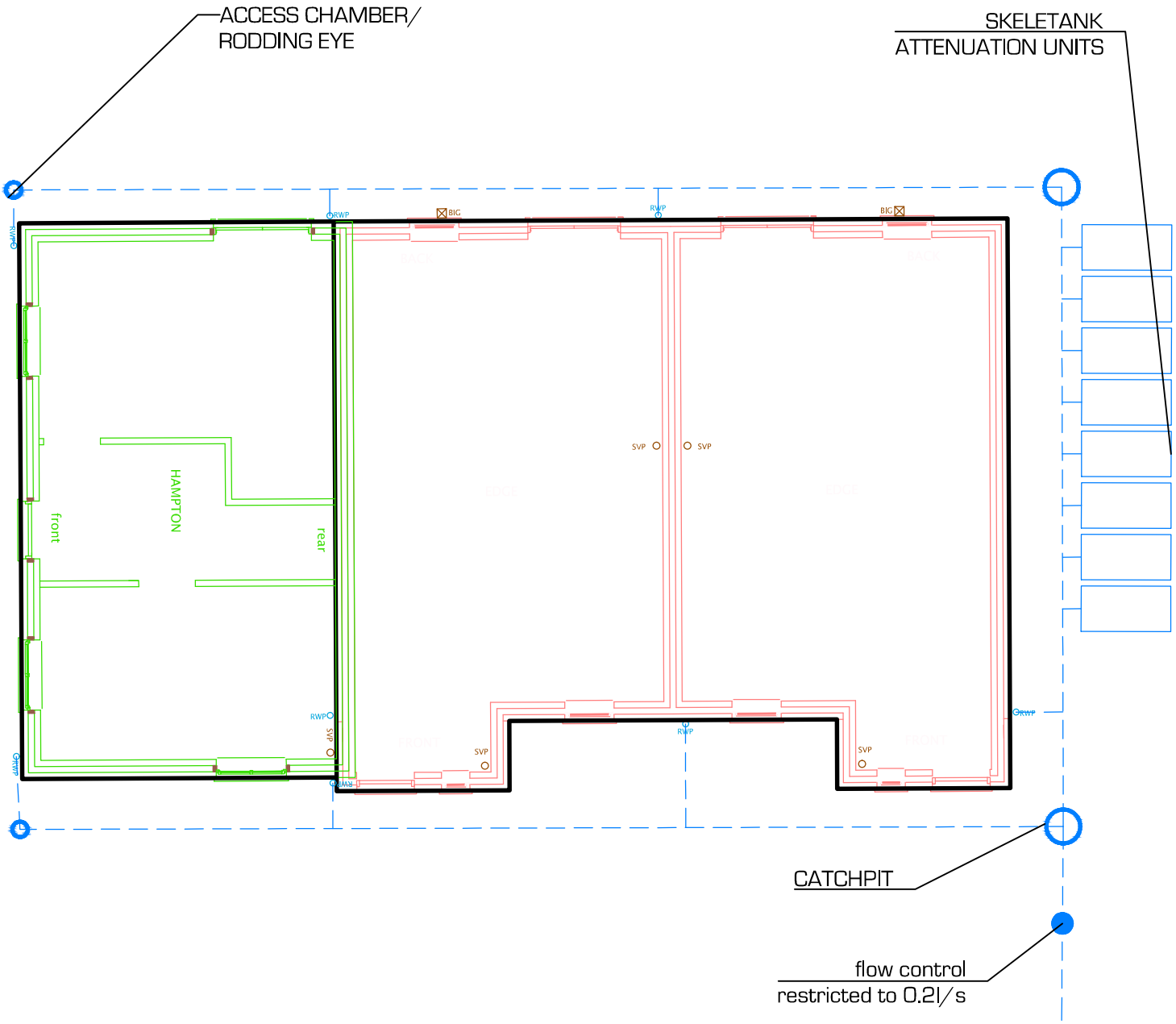
A4 - Do Not Scale.



Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
Project WAKEFIELD ROAD, BARNSLEY		Drawn AS	Dwg Status INFORMATION		
Title HOUSE TYPE DRAINAGE		Checked RWO			
Job No. HYDROWMS	Drawing No. -	Revision -	Date 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS
RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.

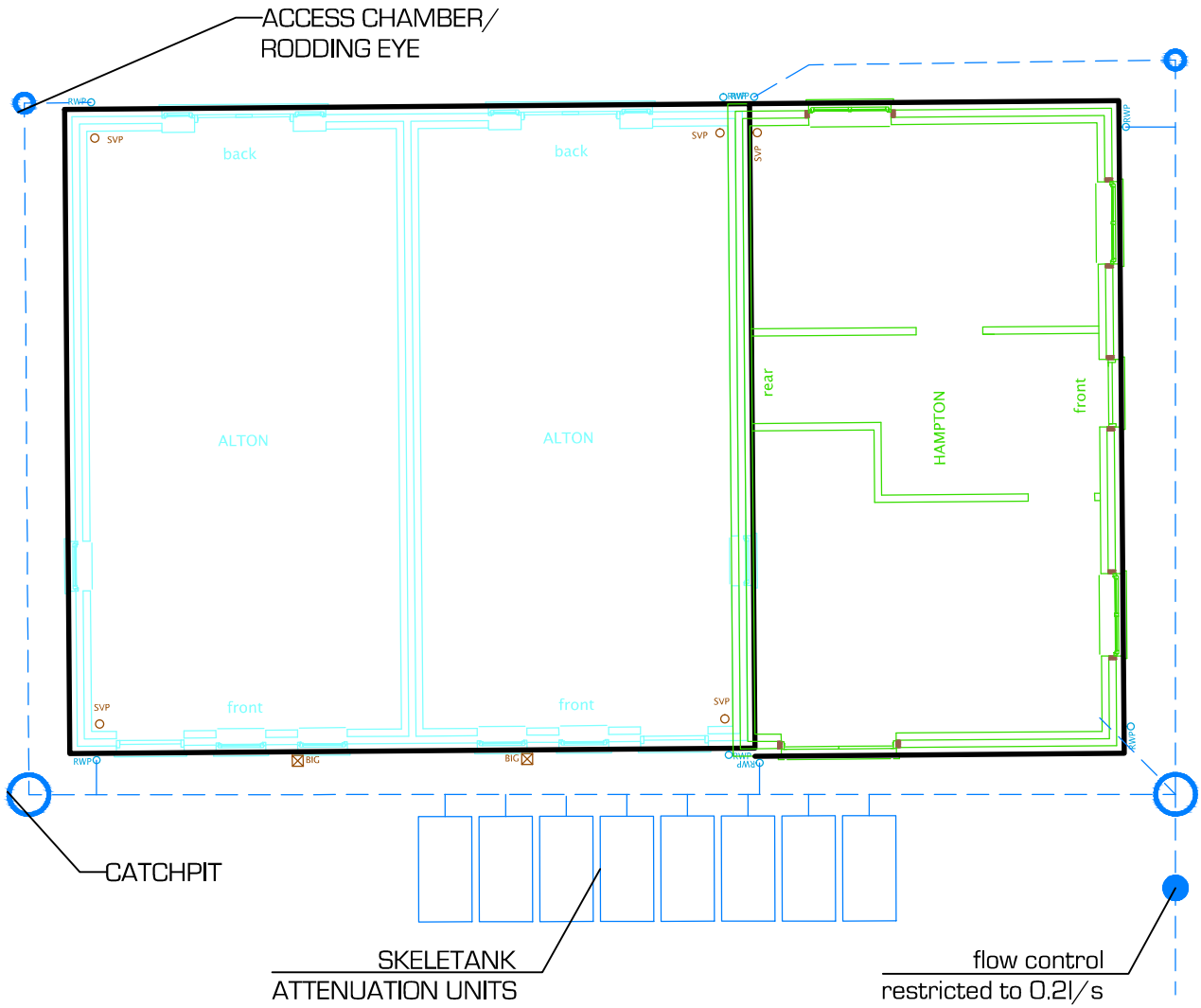


Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
Project: WAKEFIELD ROAD, BARNSLEY		Drawn: AS	Dwg Status: INFORMATION		
Title: EDGE & HAMPTON HOUSE TYPE DRAINAGE		Checked: RWO			
Job No.: HYDROWMS	Drawing No.: -	Revision: -	Date: 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.

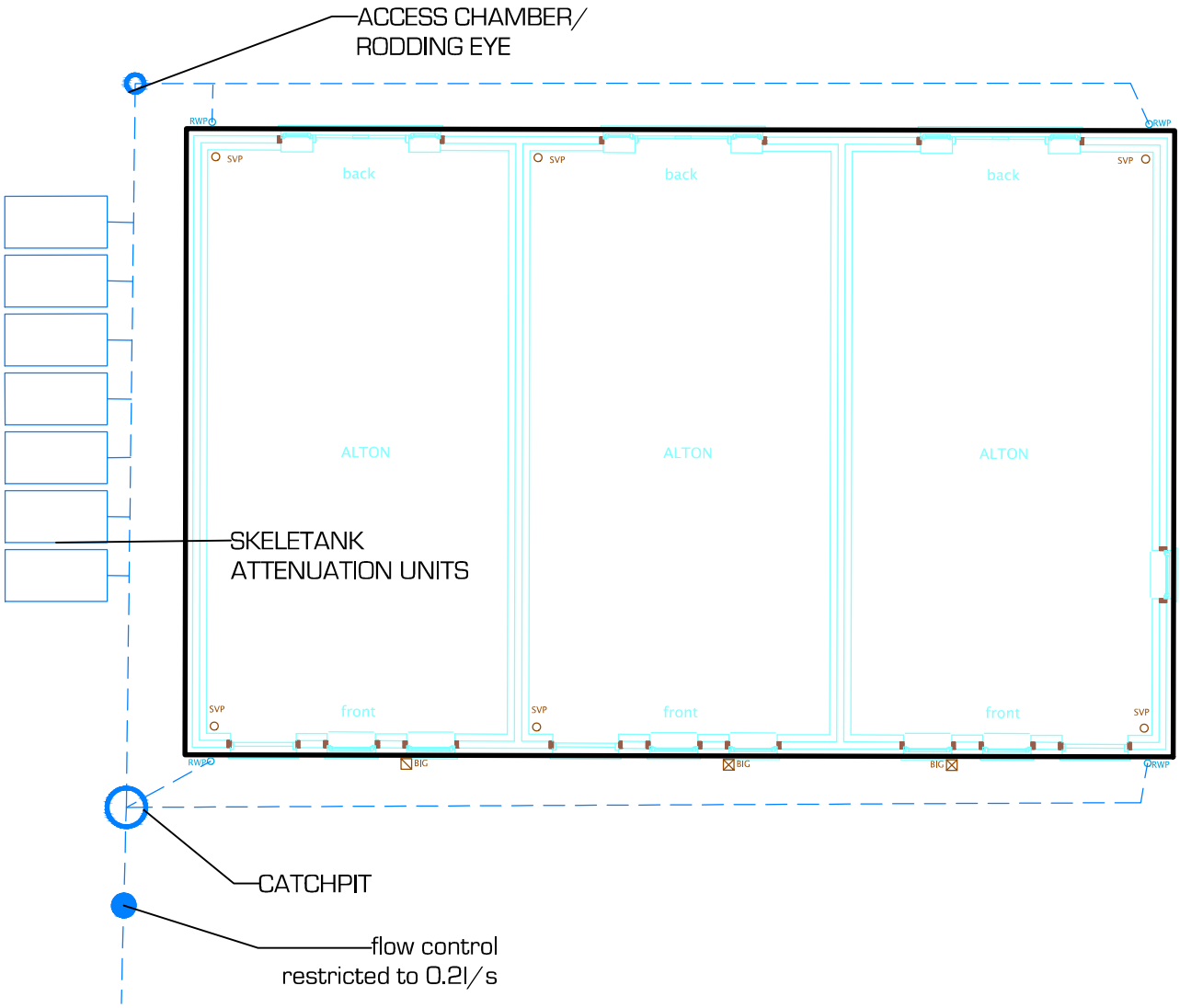


Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
Project: WAKEFIELD ROAD, BARNSLEY		Drawn: AS	Dwg Status: INFORMATION		
Title: ALTON & HAMPTON HOUSE TYPE DRAINAGE		Checked: RWO			
Job No.: HYDROWMS	Drawing No.: -	Revision: -	Date: 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS

RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

A4 - Do Not Scale.



Client		Scale 1:100	Date	Revisions	Drawn / CHKD / Rev.
			Dwg Status: INFORMATION		
Project: WAKEFIELD ROAD, BARNSLEY		Drawn: AS			
Title: ALTON X3 PLOTS HOUSE TYPE DRAINAGE		Checked: RWO			
Job No.: HYDROWMS	Drawing No.: -	Revision: -	Date: 12/01/16		

RWO ASSOCIATES
CONSULTING ENGINEERS
RWO Associates LTD
6A Union Quay
North Shields
Tyne & Wear
NE30 1HJ
www.rwoassociatesuk.com
Tel - 0191 2585632

Appendix D Drainage Calculations

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for PLANNING-SW-DESIGN.SWS

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	0
M5-60 (mm)	19.000	Minimum Backdrop Height (m)	0.200
Ratio R	0.362	Maximum Backdrop Height (m)	1.800
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	1.200
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500
Volumetric Runoff Coeff.	0.750		

Designed with Level Soffits

Time Area Diagram for PLANNING-SW-DESIGN.SWS

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	3.397	4-8	3.399	8-12	0.133

Total Area Contributing (ha) = 6.929

Total Pipe Volume (m³) = 3068.038

Network Design Table for PLANNING-SW-DESIGN.SWS

- Indicates pipe length does not match coordinates
« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
1.000	24.905	1.211	20.6	0.020	5.00	0.0	0.600	o	150	
1.001	44.062	1.856	23.7	0.144	0.00	0.0	0.600	o	225	
2.000	14.206	0.250	56.8	0.429	6.00	0.0	0.600	o	300	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.19	111.667	0.020	0.0	0.0	0.0	2.23	39.4	2.7
1.001	50.00	5.46	110.381	0.164	0.0	0.0	0.0	2.70	107.2	22.2
2.000	50.00	6.11	110.100	0.429	0.0	0.0	0.0	2.09	147.7	58.1

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
2.001	14.189	1.475	9.6	0.040	0.00	0.0	0.600	o	300	
1.002	16.067	1.632	9.8	0.034	0.00	0.0	0.600	o	300	
3.000	17.387	0.175	99.4	0.056	5.00	0.0	0.600	o	225	
3.001	23.625	0.338	69.9	0.097	0.00	0.0	0.600	o	225	
1.003	24.310	2.425	10.0	0.050	0.00	0.0	0.600	o	300	
1.004	21.862	0.490	44.6	0.030	0.00	0.0	0.600	o	450	
4.000	42.487	2.070	20.5	0.036	5.00	0.0	0.600	o	150	
1.005	31.679	0.777	40.8	0.087	0.00	0.0	0.600	o	525	
1.006	30.783	0.615	50.1	0.105	0.00	0.0	0.600	o	525	
1.007	13.860	0.410	33.8	0.069	0.00	0.0	0.600	o	600	
5.000	11.929	0.403	29.6	0.503	6.50	0.0	0.600	o	300	
6.000	27.039	1.325	20.4	0.026	5.00	0.0	0.600	o	150	
5.001	35.877	3.405	10.5	0.076	0.00	0.0	0.600	o	300	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
2.001	50.00	6.16	109.850	0.469	0.0	0.0	0.0	5.10	360.4	63.5
1.002	50.00	6.21	108.375	0.667	0.0	0.0	0.0	5.04	356.2	90.3
3.000	50.00	5.22	107.481	0.056	0.0	0.0	0.0	1.31	52.2	7.6
3.001	50.00	5.47	107.306	0.153	0.0	0.0	0.0	1.57	62.3	20.7
1.003	50.00	6.29	106.743	0.870	0.0	0.0	0.0	4.99	353.0	117.8
1.004	50.00	6.41	104.168	0.900	0.0	0.0	0.0	3.05	485.1	121.9
4.000	50.00	5.32	106.198	0.036	0.0	0.0	0.0	2.23	39.5	4.9
1.005	50.00	6.56	103.603	1.023	0.0	0.0	0.0	3.52	761.0	138.5
1.006	50.00	6.73	102.826	1.128	0.0	0.0	0.0	3.17	686.6	152.7
1.007	50.00	6.78	102.136	1.197	0.0	0.0	0.0	4.20	1187.0	162.1
5.000	50.00	6.57	108.000	0.503	0.0	0.0	0.0	2.90	205.0	68.1
6.000	50.00	5.20	109.147	0.026	0.0	0.0	0.0	2.24	39.6	3.5
5.001	50.00	6.69	107.597	0.605	0.0	0.0	0.0	4.87	344.3	81.9

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
7.000	68.335	0.683	100.1	0.990	7.00	0.0	0.600	o	525	
7.001	52.317	0.523	100.0	0.068	0.00	0.0	0.600	o	600	
5.002	39.347	0.794	49.6	0.214	0.00	0.0	0.600	o	600	
1.008	9.203	0.202	45.6	0.028	0.00	0.0	0.600	o	675	
1.009	14.461	1.176	12.3	0.035	0.00	0.0	0.600	o	675	
8.000	57.343	0.574	99.9	0.059	5.00	0.0	0.600	o	375	
1.010	10.125	0.349	29.0	0.033	0.00	0.0	0.600	o	675	
9.000	13.431	0.400	33.6	0.051	5.00	0.0	0.600	o	150	
9.001	26.296	0.263	100.0	0.056	0.00	0.0	0.600	o	225	
9.002	7.299	0.364	20.1	0.000	0.00	0.0	0.600	o	225	
1.011	62.086	1.602	38.8	0.148	0.00	0.0	0.600	o	675	
1.012	12.822	0.453	28.3	0.044	0.00	0.0	0.600	o	675	
1.013	11.530	0.030	384.3	0.020	0.00	0.0	0.600	o	750	
1.014	28.420	1.318	21.6	0.130	0.00	0.0	0.600	o	750	
1.015	13.005	0.516	25.2	0.020	0.00	0.0	0.600	o	750	
1.016	21.229	1.385	15.3	0.075	0.00	0.0	0.600	o	750	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
7.000	50.00	7.51	104.075	0.990	0.0	0.0	0.0	2.24	484.8	134.1
7.001	50.00	7.87	103.317	1.058	0.0	0.0	0.0	2.43	688.5	143.3
5.002	50.00	8.06	102.794	1.877	0.0	0.0	0.0	3.46	979.7	254.2
1.008	50.00	8.10	101.651	3.102	0.0	0.0	0.0	3.89	1391.9	420.0
1.009	50.00	8.13	101.449	3.137	0.0	0.0	0.0	7.50	2683.4	424.8
8.000	50.00	5.53	100.221	0.059	0.0	0.0	0.0	1.81	200.2	8.0
1.010	50.00	8.16	99.347	3.229	0.0	0.0	0.0	4.88	1745.4	437.2
9.000	50.00	5.13	100.550	0.051	0.0	0.0	0.0	1.74	30.8	6.9
9.001	50.00	5.46	100.075	0.107	0.0	0.0	0.0	1.31	52.0	14.5
9.002	50.00	5.51	99.812	0.107	0.0	0.0	0.0	2.94	116.7	14.5
1.011	50.00	8.41	98.998	3.484	0.0	0.0	0.0	4.22	1509.5	471.8
1.012	49.95	8.45	97.396	3.528	0.0	0.0	0.0	4.94	1767.1	477.3
1.013	49.56	8.59	96.868	3.548	0.0	0.0	0.0	1.42	627.9	477.3
1.014	49.33	8.66	96.838	3.678	0.0	0.0	0.0	6.04	2669.3	491.4
1.015	49.22	8.70	95.520	3.698	0.0	0.0	0.0	5.59	2468.6	493.0
1.016	49.08	8.75	95.004	3.773	0.0	0.0	0.0	7.17	3167.1	501.5

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
1.017	5.100	1.484	3.4	0.037	0.00	0.0	0.600	o	750	
10.000	41.255	1.709	24.1	0.036	5.00	0.0	0.600	o	150	
11.000	7.615	0.767	9.9	0.044	5.00	0.0	0.600	o	150	
11.001	16.498	0.203	81.3	0.019	0.00	0.0	0.600	o	225	
11.002	33.668	0.402	83.8	0.068	0.00	0.0	0.600	o	225	
10.001	51.065	1.400	36.5	0.048	0.00	0.0	0.600	o	300	
10.002	15.045	1.293	11.6	0.079	0.00	0.0	0.600	o	300	
10.003	22.967	0.741	31.0	0.000	0.00	0.0	0.600	o	300	
10.004	82.200#	0.152	540.8	0.000	0.00	0.0	0.030	4o	-7	
12.000	19.518	1.107	17.6	0.000	5.00	0.0	0.600	o	150	
12.001	30.662	1.436	21.4	0.044	0.00	0.0	0.600	o	150	
12.002	30.467	0.937	32.5	0.008	0.00	0.0	0.600	o	150	
12.003	12.160	0.167	72.8	0.000	0.00	0.0	0.600	o	150	
12.004	23.962	0.926	25.9	0.040	0.00	0.0	0.600	o	225	
13.000	37.899	0.401	94.5	0.066	5.00	0.0	0.600	o	150	
13.001	9.291	0.093	99.9	0.000	0.00	0.0	0.600	o	150	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.017	49.07	8.76	93.619	3.810	0.0	0.0	0.0	15.15	6695.1	506.3
10.000	50.00	5.33	98.275	0.036	0.0	0.0	0.0	2.06	36.4	4.9
11.000	50.00	5.04	97.938	0.044	0.0	0.0	0.0	3.22	56.8	6.0
11.001	50.00	5.23	97.096	0.063	0.0	0.0	0.0	1.45	57.7	8.5
11.002	50.00	5.62	96.893	0.131	0.0	0.0	0.0	1.43	56.9	17.7
10.001	50.00	5.95	96.416	0.215	0.0	0.0	0.0	2.61	184.6	29.1
10.002	50.00	6.00	95.016	0.294	0.0	0.0	0.0	4.63	327.6	39.8
10.003	50.00	6.14	93.723	0.294	0.0	0.0	0.0	2.83	200.3	39.8
10.004	50.00	6.62	92.082	0.294	0.0	0.0	0.0	2.81	38902.9	39.8
12.000	50.00	5.13	111.076	0.000	0.0	0.0	0.0	2.41	42.6	0.0
12.001	50.00	5.37	109.969	0.044	0.0	0.0	0.0	2.19	38.7	6.0
12.002	50.00	5.66	108.533	0.052	0.0	0.0	0.0	1.77	31.3	7.0
12.003	50.00	5.83	107.596	0.052	0.0	0.0	0.0	1.18	20.8	7.0
12.004	50.00	5.98	107.354	0.092	0.0	0.0	0.0	2.58	102.7	12.5
13.000	50.00	5.61	106.997	0.066	0.0	0.0	0.0	1.03	18.3	8.9
13.001	50.00	5.76	106.596	0.066	0.0	0.0	0.0	1.01	17.8	8.9

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
12.005	35.273	1.999	17.6	0.023	0.00	0.0	0.600	o	300	
12.006	27.896	1.758	15.9	0.099	0.00	0.0	0.600	o	300	
14.000	15.941	0.772	20.6	0.020	5.00	0.0	0.600	o	150	
14.001	22.408	1.205	18.6	0.086	0.00	0.0	0.600	o	150	
14.002	22.120	1.094	20.2	0.020	0.00	0.0	0.600	o	225	
14.003	31.235	1.458	21.4	0.047	0.00	0.0	0.600	o	225	
14.004	37.250	0.233	159.9	0.110	0.00	0.0	0.600	o	300	
12.007	18.883	1.650	11.4	0.000	0.00	0.0	0.600	o	300	
12.008	41.034	2.305	17.8	0.066	0.00	0.0	0.600	o	450	
12.009	17.037	0.167	102.0	0.050	0.00	0.0	0.600	o	450	
15.000	34.686	1.389	25.0	0.049	5.00	0.0	0.600	o	150	
15.001	62.338	2.500	24.9	0.140	0.00	0.0	0.600	o	225	
15.002	13.187	0.550	24.0	0.053	0.00	0.0	0.600	o	300	
15.003	39.649	1.706	23.2	0.159	0.00	0.0	0.600	o	300	
16.000	21.444	0.280	76.6	0.041	5.00	0.0	0.600	o	225	
16.001	19.912	0.678	29.4	0.330	0.00	0.0	0.600	o	450	
17.000	9.905	0.122	81.2	0.007	5.00	0.0	0.600	o	150	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
12.005	50.00	6.14	106.353	0.181	0.0	0.0	0.0	3.76	265.8	24.5
12.006	50.00	6.25	104.354	0.280	0.0	0.0	0.0	3.97	280.4	37.9
14.000	50.00	5.12	107.508	0.020	0.0	0.0	0.0	2.23	39.3	2.7
14.001	50.00	5.28	106.736	0.106	0.0	0.0	0.0	2.35	41.5	14.4
14.002	50.00	5.40	105.456	0.126	0.0	0.0	0.0	2.92	116.2	17.1
14.003	50.00	5.59	104.362	0.173	0.0	0.0	0.0	2.84	112.9	23.4
14.004	50.00	6.09	102.829	0.283	0.0	0.0	0.0	1.24	87.7	38.3
12.007	50.00	6.32	102.596	0.563	0.0	0.0	0.0	4.67	330.3	76.2
12.008	50.00	6.46	100.796	0.629	0.0	0.0	0.0	4.84	769.2	85.2
12.009	50.00	6.60	98.491	0.679	0.0	0.0	0.0	2.01	320.1	91.9
15.000	50.00	5.29	106.325	0.049	0.0	0.0	0.0	2.02	35.8	6.6
15.001	50.00	5.68	104.861	0.189	0.0	0.0	0.0	2.63	104.6	25.6
15.002	50.00	5.75	102.286	0.242	0.0	0.0	0.0	3.22	227.9	32.8
15.003	50.00	5.95	101.736	0.401	0.0	0.0	0.0	3.28	231.5	54.3
16.000	50.00	5.24	101.575	0.041	0.0	0.0	0.0	1.50	59.5	5.6
16.001	50.00	5.33	101.070	0.371	0.0	0.0	0.0	3.76	598.4	50.2
17.000	50.00	5.15	101.066	0.007	0.0	0.0	0.0	1.12	19.7	0.9

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
17.001	7.497	0.252	29.8	0.034	0.00	0.0	0.600	o	150	
16.002	51.208	0.587	87.2	0.097	0.00	0.0	0.600	o	450	
15.004	37.643	0.976	38.6	0.118	0.00	0.0	0.600	o	450	
15.005	16.533	0.345	47.9	0.018	0.00	0.0	0.600	o	600	
18.000	22.842	0.714	32.0	0.043	5.00	0.0	0.600	o	150	
19.000	11.422	0.417	27.4	0.010	5.00	0.0	0.600	o	150	
18.001	41.765	0.084	497.2	0.020	0.00	0.0	0.600	o	1050	
15.006	89.696	0.179	501.1	0.155	0.00	0.0	0.600	o	1050	
15.007	27.971	0.056	499.5	0.135	0.00	0.0	0.600	o	1050	
12.010	37.172	0.074	502.3	0.022	0.00	0.0	0.600	o	1050	
20.000	13.424	0.005	2684.8	0.000	5.00	0.0	0.600	o	1050	
12.011	15.182	0.598	25.4	0.018	0.00	0.0	0.600	o	300	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
17.001	50.00	5.22	100.944	0.041	0.0	0.0	0.0	1.85	32.7	5.6
16.002	50.00	5.72	100.392	0.509	0.0	0.0	0.0	2.18	346.3	68.9
15.004	50.00	6.14	99.805	1.028	0.0	0.0	0.0	3.28	521.9	139.2
15.005	50.00	6.22	98.679	1.046	0.0	0.0	0.0	3.52	996.3	141.6
18.000	50.00	5.21	99.657	0.043	0.0	0.0	0.0	1.79	31.6	5.8
19.000	50.00	5.10	99.360	0.010	0.0	0.0	0.0	1.93	34.1	1.4
18.001	50.00	5.67	98.193	0.073	0.0	0.0	0.0	1.54	1332.3	9.9
15.006	50.00	7.20	98.109	1.274	0.0	0.0	0.0	1.53	1327.1	172.5
15.007	50.00	7.50	97.930	1.409	0.0	0.0	0.0	1.54	1329.2	190.8
12.010	50.00	7.90	97.874	2.110	0.0	0.0	0.0	1.53	1325.4	285.7
20.000	50.00	5.34	97.805	0.000	0.0	0.0	0.0	0.66	567.4	0.0
12.011	50.00	7.98	97.800	2.128	0.0	0.0	0.0	3.13	221.5«	288.2

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
21.000	28.470	0.700	40.7	0.072	5.00	0.0	0.600	o	150	
21.001	19.391	0.973	19.9	0.022	0.00	0.0	0.600	o	225	
22.000	39.541	0.395	100.1	0.074	5.00	0.0	0.600	o	150	
12.012	9.463	0.095	99.6	0.000	0.00	0.0	0.600	o	225	
12.013	40.798	0.410	99.5	0.016	0.00	0.0	0.600	o	225	
12.014	10.989	0.022	499.5	0.072	0.00	0.0	0.600	o	900	
23.000	40.679	1.377	29.5	0.020	5.00	0.0	0.600	o	150	
23.001	33.227	0.066	503.4	0.137	0.00	0.0	0.600	o	900	
24.000	20.850	0.005	4170.0	0.000	5.00	0.0	0.600	o	900	
12.015	25.964	2.270	11.4	0.000	0.00	0.0	0.600	o	300	
25.000	33.685	1.094	30.8	0.146	5.00	0.0	0.765	o	225	
25.001	11.666	0.326	35.8	0.000	0.00	0.0	0.600	o	225	
25.002	20.529	0.205	100.1	0.138	0.00	0.0	0.600	o	300	
25.003	26.130	4.122	6.3	0.000	0.00	0.0	0.600	o	300	
25.004	106.300#	0.174	610.9	0.000	0.00	0.0	0.030	4o	-7	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
21.000	50.00	5.30	98.950	0.072	0.0	0.0	0.0	1.58	28.0	9.7
21.001	50.00	5.41	98.175	0.094	0.0	0.0	0.0	2.94	117.1	12.7
22.000	50.00	5.66	97.672	0.074	0.0	0.0	0.0	1.00	17.7	10.0
12.012	50.00	8.10	97.202	2.296	0.0	0.0	0.0	1.31	52.1«	310.9
12.013	49.45	8.62	97.107	2.312	0.0	0.0	0.0	1.31	52.1«	310.9
12.014	49.08	8.75	96.022	2.384	0.0	0.0	0.0	1.40	887.5	316.9
23.000	50.00	5.36	98.193	0.020	0.0	0.0	0.0	1.86	32.9	2.7
23.001	50.00	5.76	96.066	0.157	0.0	0.0	0.0	1.39	884.0	21.3
24.000	50.00	5.73	96.005	0.000	0.0	0.0	0.0	0.48	302.3	0.0
12.015	48.82	8.85	96.000	2.541	0.0	0.0	0.0	4.67	330.4«	335.9
25.000	50.00	5.25	98.840	0.146	0.0	0.0	0.0	2.29	91.0	19.8
25.001	50.00	5.33	97.746	0.146	0.0	0.0	0.0	2.19	87.2	19.8
25.002	50.00	5.55	97.345	0.284	0.0	0.0	0.0	1.57	111.1	38.5
25.003	50.00	5.62	97.140	0.284	0.0	0.0	0.0	6.28	444.1	38.5
25.004	50.00	6.29	92.104	0.284	0.0	0.0	0.0	2.63	36499.8	38.5

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
1.018	4.018	0.040	100.5	0.000	0.00	0.0	0.600	o	225	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.018	48.67	8.90	91.930	6.929	0.0	0.0	0.0	1.30	51.9«	913.4

Conduit Sections for PLANNING-SW-DESIGN.SWS

NOTE: Diameters less than 66 refer to section numbers of hydraulic conduits. These conduits are marked by the symbols:- [] box culvert, \/ open channel, oo dual pipe, ooo triple pipe, O egg.

Section numbers < 0 are taken from user conduit table

Section Number	Conduit Type	Major Dimn. (mm)	Minor Dimn. (mm)	Side Slope (Deg)	Corner Splay (mm)	4*Hyd Radius (m)	XSect Area (m²)
-7	4o	8400	2100			2.100	13.854

Free Flowing Outfall Details for PLANNING-SW-DESIGN.SWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.018	20	93.730	91.890	0.000	0	0

Simulation Criteria for PLANNING-SW-DESIGN.SWS

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	3	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Region	England and Wales
Return Period (years)	2	M5-60 (mm)	19.000

©1982-2015 XP Solutions

Synthetic Rainfall Details

Ratio R	0.362	Cv (Winter)	0.840
Profile Type	Summer	Storm Duration (mins)	30
Cv (Summer)	0.750		

©1982-2015 XP Solutions

Online Controls for PLANNING-SW-DESIGN.SWS

Hydro-Brake Optimum® Manhole: 54, DS/PN: 12.011, Volume (m³): 45.2

Unit Reference	MD-SCU-0076-6000-1000-6000
Design Head (m)	1.000
Design Flow (l/s)	6.0
Flush-Flo™	Calculated
Objective	Linear discharge profile
Diameter (mm)	76
Invert Level (m)	97.800
Minimum Outlet Pipe Diameter (mm)	100
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.000	6.0
Flush-Flo™	0.106	2.2
Kick-Flo®	0.115	2.2
Mean Flow over Head Range	-	4.1

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake Optimum® as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.2	1.200	6.5	3.000	10.1	7.000	15.1
0.200	2.9	1.400	7.0	3.500	10.9	7.500	15.6
0.300	3.4	1.600	7.5	4.000	11.6	8.000	16.1
0.400	3.9	1.800	7.9	4.500	12.2	8.500	16.6
0.500	4.3	2.000	8.3	5.000	12.9	9.000	17.1
0.600	4.7	2.200	8.7	5.500	13.5	9.500	17.5
0.800	5.4	2.400	9.1	6.000	14.0		
1.000	6.0	2.600	9.4	6.500	14.6		

Hydro-Brake Optimum® Manhole: 58, DS/PN: 12.015, Volume (m³): 40.8

Unit Reference	MD-SHE-0121-6000-0500-6000
Design Head (m)	0.500
Design Flow (l/s)	6.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Diameter (mm)	121
Invert Level (m)	96.000
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.500	5.9
Flush-Flo™	0.189	5.9

©1982-2015 XP Solutions

Hydro-Brake Optimum® Manhole: 58, DS/PN: 12.015, Volume (m³): 40.8

Control Points	Head (m)	Flow (l/s)
Kick-Flo®	0.376	5.2
Mean Flow over Head Range	-	4.8

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake Optimum® as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	4.3	1.200	8.9	3.000	13.8	7.000	20.8
0.200	5.9	1.400	9.6	3.500	14.8	7.500	21.5
0.300	5.7	1.600	10.2	4.000	15.8	8.000	22.2
0.400	5.3	1.800	10.8	4.500	16.7	8.500	22.9
0.500	5.9	2.000	11.4	5.000	17.6	9.000	23.6
0.600	6.5	2.200	11.9	5.500	18.4	9.500	24.2
0.800	7.4	2.400	12.4	6.000	19.2		
1.000	8.2	2.600	12.9	6.500	20.0		

Hydro-Brake Optimum® Manhole: 19, DS/PN: 1.018, Volume (m³): 2553.0

Unit Reference	MD-SHE-0211-2840-2350-2840
Design Head (m)	2.350
Design Flow (l/s)	28.4
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Diameter (mm)	211
Invert Level (m)	91.930
Minimum Outlet Pipe Diameter (mm)	225
Suggested Manhole Diameter (mm)	1800

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	2.350	28.3
Flush-Flo™	0.674	28.2
Kick-Flo®	1.433	22.3
Mean Flow over Head Range	-	24.6

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake Optimum® as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	7.2	0.800	28.1	2.000	26.2	4.000	36.5
0.200	20.5	1.000	27.4	2.200	27.4	4.500	38.6
0.300	25.3	1.200	26.0	2.400	28.6	5.000	40.7
0.400	26.9	1.400	23.1	2.600	29.7	5.500	42.6
0.500	27.8	1.600	23.5	3.000	31.8	6.000	44.4
0.600	28.2	1.800	24.9	3.500	34.2	6.500	46.2

©1982-2015 XP Solutions

Hydro-Brake Optimum® Manhole: 19, DS/PN: 1.018, Volume (m³): 2553.0

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
7.000	47.8	8.000	51.0	9.000	54.0		
7.500	49.5	8.500	52.6	9.500	55.5		

©1982-2015 XP Solutions

Storage Structures for PLANNING-SW-DESIGN.SWS

Tank or Pond Manhole: POND1, DS/PN: 20.000

Invert Level (m) 97.805

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	920.3	0.500	1347.0	1.000	1716.3	1.300	1942.0

Tank or Pond Manhole: POND2, DS/PN: 24.000

Invert Level (m) 96.005

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	74.6	0.500	257.7	1.000	401.7	1.295	504.8

©1982-2015 XP Solutions

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	3	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.362
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1	15 Winter	2	+0%					111.697
1.001	2	15 Winter	2	+0%					110.454
2.000	21	15 Winter	2	+0%					110.256
2.001	22	15 Winter	2	+0%					109.949
1.002	3	15 Winter	2	+0%					108.494
3.000	23	15 Winter	2	+0%					107.549
3.001	24	15 Winter	2	+0%					107.405
1.003	4	15 Winter	2	+0%					106.877
1.004	5	15 Winter	2	+0%					104.348
4.000	25	15 Winter	2	+0%					106.238
1.005	6	15 Winter	2	+0%					103.774
1.006	7	15 Winter	2	+0%					103.017
1.007	8	15 Winter	2	+0%	30/15 Winter				102.349
5.000	26	15 Winter	2	+0%					108.146
6.000	29	15 Winter	2	+0%					109.181
5.001	27	15 Winter	2	+0%					107.706
7.000	30	15 Winter	2	+0%					104.277
7.001	31	15 Winter	2	+0%					103.517

©1982-2015 XP Solutions

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	1	-0.120	0.000	0.09		3.3	OK	
1.001	2	-0.152	0.000	0.23		23.4	OK	
2.000	21	-0.144	0.000	0.53		65.6	OK	
2.001	22	-0.201	0.000	0.24		71.1	OK	
1.002	3	-0.181	0.000	0.33		99.1	OK	
3.000	23	-0.157	0.000	0.20		9.2	OK	
3.001	24	-0.126	0.000	0.40		22.7	OK	
1.003	4	-0.166	0.000	0.41		128.9	OK	
1.004	5	-0.270	0.000	0.34		132.9	OK	
4.000	25	-0.110	0.000	0.15		5.9	OK	
1.005	6	-0.354	0.000	0.23		150.2	OK	
1.006	7	-0.334	0.000	0.28		163.7	OK	
1.007	8	-0.387	0.000	0.27		171.9	OK	
5.000	26	-0.154	0.000	0.47		75.3	OK	
6.000	29	-0.116	0.000	0.11		4.3	OK	
5.001	27	-0.191	0.000	0.28		89.7	OK	
7.000	30	-0.323	0.000	0.31		138.6	OK	
7.001	31	-0.400	0.000	0.24		147.0	OK	

©1982-2015 XP Solutions

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
5.002	28	15 Winter	2	+0%					103.026
1.008	9	15 Winter	2	+0%	30/15 Winter				102.099
1.009	10	15 Winter	2	+0%					101.712
8.000	32	15 Winter	2	+0%					100.276
1.010	11	15 Winter	2	+0%	30/15 Winter				99.727
9.000	33	15 Winter	2	+0%					100.606
9.001	34	15 Winter	2	+0%					100.166
9.002	35	15 Winter	2	+0%					99.879
1.011	12	15 Winter	2	+0%					99.280
1.012	13	15 Winter	2	+0%	30/15 Winter				97.773
1.013	14	15 Winter	2	+0%	30/15 Winter				97.618
1.014	15	15 Winter	2	+0%					97.111
1.015	16	15 Winter	2	+0%					95.876
1.016	17	15 Winter	2	+0%					95.276
1.017	18	15 Winter	2	+0%					93.886
10.000	36	15 Winter	2	+0%					98.316
11.000	40	15 Winter	2	+0%					97.977
11.001	41	15 Winter	2	+0%					97.163
11.002	42	15 Winter	2	+0%					96.987
10.001	37	15 Winter	2	+0%					96.503
10.002	38	15 Winter	2	+0%					95.095
10.003	39	15 Winter	2	+0%					93.822
10.004	94	240 Winter	2	+0%					92.719
12.000	43	600 Winter	2	+0%					111.076
12.001	44	15 Winter	2	+0%					110.010
12.002	45	15 Winter	2	+0%					108.583
12.003	46	15 Winter	2	+0%					107.661
12.004	47	15 Winter	2	+0%					107.409
13.000	59	15 Winter	2	+0%	30/15 Winter				107.083
13.001	60	15 Winter	2	+0%	30/15 Winter				106.687
12.005	48	15 Winter	2	+0%					106.419
12.006	49	15 Winter	2	+0%					104.434
14.000	61	15 Winter	2	+0%					107.538
14.001	62	15 Winter	2	+0%					106.801
14.002	63	15 Winter	2	+0%					105.519
14.003	64	15 Winter	2	+0%					104.436
14.004	65	15 Winter	2	+0%	30/15 Winter				102.979
12.007	50	15 Winter	2	+0%					102.704
12.008	51	15 Winter	2	+0%					100.903
12.009	52	15 Winter	2	+0%					98.693
15.000	66	15 Winter	2	+0%					106.374
15.001	67	15 Winter	2	+0%					104.941
15.002	68	15 Winter	2	+0%					102.375
15.003	69	15 Winter	2	+0%					101.841
16.000	74	15 Winter	2	+0%					101.628
16.001	75	15 Winter	2	+0%					101.171
17.000	77	15 Winter	2	+0%					101.091
17.001	78	15 Winter	2	+0%					100.991

©1982-2015 XP Solutions

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
5.002	28	-0.368	0.000	0.32		262.6	OK	
1.008	9	-0.227	0.000	0.77		439.9	OK	
1.009	10	-0.412	0.000	0.32		444.4	OK	
8.000	32	-0.320	0.000	0.05		9.6	OK	
1.010	11	-0.295	0.000	0.61		456.4	OK	
9.000	33	-0.094	0.000	0.30		8.4	OK	
9.001	34	-0.134	0.000	0.34		16.1	OK	
9.002	35	-0.158	0.000	0.19		16.2	OK	
1.011	12	-0.393	0.000	0.37		489.0	OK	
1.012	13	-0.298	0.000	0.58		492.3	OK	
1.013	14	0.000	0.000	1.48		495.3	OK	
1.014	15	-0.477	0.000	0.28		511.9	OK	
1.015	16	-0.394	0.000	0.46		515.2	OK	
1.016	17	-0.478	0.000	0.28		523.4	OK	
1.017	18	-0.483	0.000	0.28		526.5	OK	
10.000	36	-0.109	0.000	0.17		5.9	OK	
11.000	40	-0.111	0.000	0.15		7.3	OK	
11.001	41	-0.158	0.000	0.19		9.8	OK	
11.002	42	-0.131	0.000	0.36		19.5	OK	
10.001	37	-0.213	0.000	0.18		31.9	OK	
10.002	38	-0.221	0.000	0.16		42.8	OK	
10.003	39	-0.201	0.000	0.24		42.7	OK	
10.004	94	-1.463	0.000	0.00		9.3	OK	
12.000	43	-0.150	0.000	0.00		0.0	OK	
12.001	44	-0.109	0.000	0.17		6.2	OK	
12.002	45	-0.100	0.000	0.24		7.3	OK	
12.003	46	-0.085	0.000	0.39		7.3	OK	
12.004	47	-0.170	0.000	0.14		12.8	OK	
13.000	59	-0.064	0.000	0.60		10.7	OK	
13.001	60	-0.059	0.000	0.68		10.7	OK	
12.005	48	-0.234	0.000	0.11		26.7	OK	
12.006	49	-0.220	0.000	0.16		40.3	OK	
14.000	61	-0.120	0.000	0.09		3.3	OK	
14.001	62	-0.085	0.000	0.39		15.3	OK	
14.002	63	-0.162	0.000	0.17		18.1	OK	
14.003	64	-0.151	0.000	0.23		24.7	OK	
14.004	65	-0.150	0.000	0.49		39.8	OK	
12.007	50	-0.192	0.000	0.28		79.9	OK	
12.008	51	-0.343	0.000	0.13		88.6	OK	
12.009	52	-0.248	0.000	0.41		94.8	OK	
15.000	66	-0.101	0.000	0.23		8.0	OK	
15.001	67	-0.145	0.000	0.27		27.7	OK	
15.002	68	-0.211	0.000	0.19		35.1	OK	
15.003	69	-0.195	0.000	0.27		57.2	OK	
16.000	74	-0.172	0.000	0.12		6.8	OK	
16.001	75	-0.349	0.000	0.11		52.9	OK	
17.000	77	-0.125	0.000	0.07		1.1	OK	

©1982-2015 XP Solutions

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
17.001	78	-0.103	0.000	0.21		5.9	OK	

©1982-2015 XP Solutions

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
16.002	76	15 Winter	2	+0%					100.539
15.004	70	15 Winter	2	+0%					99.979
15.005	71	15 Winter	2	+0%					98.883
18.000	79	15 Winter	2	+0%					99.707
19.000	81	15 Winter	2	+0%					99.382
18.001	80	15 Winter	2	+0%					98.437
15.006	72	15 Winter	2	+0%					98.436
15.007	73	15 Winter	2	+0%					98.383
12.010	53	15 Winter	2	+0%					98.367
20.000	POND1	1440 Winter	2	+0%					98.207
12.011	54	15 Winter	2	+0%	2/15 Winter				98.341
21.000	83	15 Winter	2	+0%					99.020
21.001	84	15 Winter	2	+0%					98.232
22.000	85	15 Winter	2	+0%	30/15 Winter				97.767
12.012	55	15 Winter	2	+0%	30/15 Winter				97.343
12.013	56	15 Winter	2	+0%	30/15 Winter				97.241
12.014	57	240 Winter	2	+0%					96.355
23.000	86	15 Winter	2	+0%					98.225
23.001	87	240 Winter	2	+0%					96.355
24.000	POND2	240 Winter	2	+0%					96.354
12.015	58	240 Winter	2	+0%	2/60 Winter				96.355
25.000	89	15 Winter	2	+0%					98.921
25.001	90	15 Winter	2	+0%					97.835
25.002	91	15 Winter	2	+0%					97.487
25.003	92	15 Winter	2	+0%					97.206
25.004	93	240 Winter	2	+0%					92.720
1.018	19	240 Winter	2	+0%	2/15 Winter				92.720

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
16.002	76	-0.303	0.000	0.23		72.3	OK	
15.004	70	-0.276	0.000	0.32		146.0	OK	
15.005	71	-0.396	0.000	0.25		148.5	OK	
18.000	79	-0.100	0.000	0.24		7.1	OK	
19.000	81	-0.128	0.000	0.05		1.6	OK	
18.001	80	-0.806	0.000	0.01		10.0	OK	
15.006	72	-0.723	0.000	0.14		158.8	OK	
15.007	73	-0.597	0.000	0.16		142.7	OK	
12.010	53	-0.557	0.000	0.21		210.5	OK	
20.000	POND1	-0.648	0.000	0.02		6.7	OK	
12.011	54	0.241	0.000	0.02		4.5	SURCHARGED	
21.000	83	-0.080	0.000	0.44		11.7	OK	
21.001	84	-0.168	0.000	0.14		14.8	OK	
22.000	85	-0.055	0.000	0.70		12.0	OK	
12.012	55	-0.084	0.000	0.72		30.8	OK	

©1982-2015 XP Solutions

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
12.013	56	-0.091	0.000	0.66		32.8	OK	
12.014	57	-0.567	0.000	0.03		12.2	OK	
23.000	86	-0.118	0.000	0.10		3.3	OK	
23.001	87	-0.611	0.000	0.01		5.1	OK	
24.000	POND2	-0.551	0.000	0.01		2.0	OK	
12.015	58	0.055	0.000	0.02		5.9	SURCHARGED	
25.000	89	-0.144	0.000	0.28		24.1	OK	
25.001	90	-0.136	0.000	0.32		23.8	OK	
25.002	91	-0.158	0.000	0.45		43.2	OK	
25.003	92	-0.234	0.000	0.11		43.4	OK	
25.004	93	-1.484	0.000	0.00		9.0	OK	
1.018	19	0.565	0.000	0.94		28.2	SURCHARGED	

©1982-2015 XP Solutions

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	3	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.362
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1	15 Winter	30	+0%					111.708
1.001	2	15 Winter	30	+0%					110.498
2.000	21	15 Winter	30	+0%					110.360
2.001	22	15 Winter	30	+0%					109.992
1.002	3	15 Winter	30	+0%					108.555
3.000	23	15 Winter	30	+0%					107.577
3.001	24	15 Winter	30	+0%					107.470
1.003	4	15 Winter	30	+0%					106.957
1.004	5	15 Winter	30	+0%					104.447
4.000	25	15 Winter	30	+0%					106.254
1.005	6	15 Winter	30	+0%					103.862
1.006	7	15 Winter	30	+0%					103.120
1.007	8	15 Winter	30	+0%	30/15 Winter				102.761
5.000	26	15 Winter	30	+0%					108.223
6.000	29	15 Winter	30	+0%					109.194
5.001	27	15 Winter	30	+0%					107.756
7.000	30	15 Winter	30	+0%					104.368
7.001	31	15 Winter	30	+0%					103.605

©1982-2015 XP Solutions

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	1	-0.109	0.000	0.17		6.2	OK	
1.001	2	-0.108	0.000	0.53		54.4	OK	
2.000	21	-0.040	0.000	1.00		122.7	OK	
2.001	22	-0.158	0.000	0.45		134.4	OK	
1.002	3	-0.120	0.000	0.65		195.5	OK	
3.000	23	-0.129	0.000	0.38		17.5	OK	
3.001	24	-0.061	0.000	0.86		49.4	OK	
1.003	4	-0.086	0.000	0.83		259.5	OK	
1.004	5	-0.171	0.000	0.69		270.6	OK	
4.000	25	-0.094	0.000	0.29		11.1	OK	
1.005	6	-0.266	0.000	0.48		309.2	OK	
1.006	7	-0.231	0.000	0.59		341.7	OK	
1.007	8	0.025	0.000	0.53		337.0	SURCHARGED	
5.000	26	-0.077	0.000	0.90		142.6	OK	
6.000	29	-0.103	0.000	0.22		8.1	OK	
5.001	27	-0.141	0.000	0.54		172.3	OK	
7.000	30	-0.232	0.000	0.59		262.4	OK	
7.001	31	-0.312	0.000	0.46		278.5	OK	

©1982-2015 XP Solutions

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
5.002	28	15 Winter	30	+0%					103.135
1.008	9	15 Winter	30	+0%	30/15 Winter				102.539
1.009	10	15 Winter	30	+0%					101.836
8.000	32	15 Winter	30	+0%					100.300
1.010	11	15 Winter	30	+0%	30/15 Winter				100.134
9.000	33	15 Winter	30	+0%					100.631
9.001	34	15 Winter	30	+0%					100.218
9.002	35	15 Winter	30	+0%					99.912
1.011	12	15 Winter	30	+0%					99.424
1.012	13	15 Winter	30	+0%	30/15 Winter				98.497
1.013	14	15 Winter	30	+0%	30/15 Winter				97.928
1.014	15	15 Winter	30	+0%					97.234
1.015	16	15 Winter	30	+0%					96.064
1.016	17	15 Winter	30	+0%					95.396
1.017	18	15 Winter	30	+0%					94.003
10.000	36	15 Winter	30	+0%					98.333
11.000	40	15 Winter	30	+0%					97.992
11.001	41	15 Winter	30	+0%					97.194
11.002	42	15 Winter	30	+0%					97.047
10.001	37	15 Winter	30	+0%					96.548
10.002	38	15 Winter	30	+0%					95.138
10.003	39	15 Winter	30	+0%					93.880
10.004	94	360 Winter	30	+0%					93.241
12.000	43	600 Winter	30	+0%					111.076
12.001	44	15 Winter	30	+0%					110.034
12.002	45	15 Winter	30	+0%					108.615
12.003	46	15 Winter	30	+0%					107.709
12.004	47	15 Winter	30	+0%					107.442
13.000	59	15 Winter	30	+0%	30/15 Winter				107.242
13.001	60	15 Winter	30	+0%	30/15 Winter				106.778
12.005	48	15 Winter	30	+0%					106.450
12.006	49	15 Winter	30	+0%					104.476
14.000	61	15 Winter	30	+0%					107.550
14.001	62	15 Winter	30	+0%					106.847
14.002	63	15 Winter	30	+0%					105.554
14.003	64	15 Winter	30	+0%					104.481
14.004	65	15 Winter	30	+0%	30/15 Winter				103.194
12.007	50	15 Winter	30	+0%					102.769
12.008	51	15 Winter	30	+0%					100.962
12.009	52	15 Winter	30	+0%					98.834
15.000	66	15 Winter	30	+0%					106.395
15.001	67	15 Winter	30	+0%					104.989
15.002	68	15 Winter	30	+0%					102.423
15.003	69	15 Winter	30	+0%					101.907
16.000	74	15 Winter	30	+0%					101.649
16.001	75	15 Winter	30	+0%					101.227
17.000	77	15 Winter	30	+0%					101.101
17.001	78	15 Winter	30	+0%					101.017

©1982-2015 XP Solutions

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
5.002	28	-0.259	0.000	0.60		503.1	OK	
1.008	9	0.213	0.000	1.49		849.1	SURCHARGED	
1.009	10	-0.288	0.000	0.62		858.2	OK	
8.000	32	-0.296	0.000	0.10		18.1	OK	
1.010	11	0.112	0.000	1.18		885.1	SURCHARGED	
9.000	33	-0.069	0.000	0.56		15.9	OK	
9.001	34	-0.082	0.000	0.71		34.2	OK	
9.002	35	-0.125	0.000	0.40		33.9	OK	
1.011	12	-0.249	0.000	0.71		947.6	OK	
1.012	13	0.426	0.000	1.11		947.0	SURCHARGED	
1.013	14	0.310	0.000	2.85		953.7	SURCHARGED	
1.014	15	-0.354	0.000	0.54		975.1	OK	
1.015	16	-0.206	0.000	0.87		978.9	OK	
1.016	17	-0.358	0.000	0.54		988.3	OK	
1.017	18	-0.366	0.000	0.52		990.3	OK	
10.000	36	-0.092	0.000	0.32		11.1	OK	
11.000	40	-0.096	0.000	0.28		13.8	OK	
11.001	41	-0.127	0.000	0.39		20.0	OK	
11.002	42	-0.071	0.000	0.78		41.8	OK	
10.001	37	-0.168	0.000	0.39		67.6	OK	
10.002	38	-0.178	0.000	0.34		92.5	OK	
10.003	39	-0.143	0.000	0.52		92.5	OK	
10.004	94	-0.941	0.000	0.00		12.9	OK	
12.000	43	-0.150	0.000	0.00		0.0	OK	
12.001	44	-0.085	0.000	0.40		14.7	OK	
12.002	45	-0.068	0.000	0.58		17.4	OK	
12.003	46	-0.037	0.000	0.92		17.3	OK	
12.004	47	-0.137	0.000	0.32		30.6	OK	
13.000	59	0.095	0.000	1.06		18.7	SURCHARGED	
13.001	60	0.032	0.000	1.19		18.7	SURCHARGED	
12.005	48	-0.203	0.000	0.22		53.9	OK	
12.006	49	-0.178	0.000	0.34		86.5	OK	
14.000	61	-0.108	0.000	0.17		6.2	OK	
14.001	62	-0.039	0.000	0.89		35.0	OK	
14.002	63	-0.127	0.000	0.39		41.7	OK	
14.003	64	-0.106	0.000	0.54		57.3	OK	
14.004	65	0.065	0.000	1.13		91.3	SURCHARGED	
12.007	50	-0.127	0.000	0.62		176.7	OK	
12.008	51	-0.284	0.000	0.29		196.9	OK	
12.009	52	-0.107	0.000	0.92		212.7	OK	
15.000	66	-0.080	0.000	0.44		15.2	OK	
15.001	67	-0.097	0.000	0.61		61.3	OK	
15.002	68	-0.163	0.000	0.42		78.6	OK	
15.003	69	-0.129	0.000	0.61		131.2	OK	
16.000	74	-0.151	0.000	0.24		12.8	OK	
16.001	75	-0.293	0.000	0.27		123.2	OK	
17.000	77	-0.115	0.000	0.12		2.2	OK	

©1982-2015 XP Solutions

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
17.001	78	-0.077	0.000	0.48		13.5	OK	

©1982-2015 XP Solutions

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
16.002	76	15 Winter	30	+0%					100.627
15.004	70	15 Winter	30	+0%					100.094
15.005	71	15 Winter	30	+0%					99.010
18.000	79	15 Winter	30	+0%					99.728
19.000	81	15 Winter	30	+0%					99.392
18.001	80	15 Winter	30	+0%					98.726
15.006	72	15 Winter	30	+0%					98.724
15.007	73	15 Winter	30	+0%					98.675
12.010	53	15 Winter	30	+0%					98.648
20.000	POND1	1440 Winter	30	+0%					98.480
12.011	54	15 Winter	30	+0%	2/15 Winter				98.606
21.000	83	15 Winter	30	+0%					99.057
21.001	84	15 Winter	30	+0%					98.257
22.000	85	15 Winter	30	+0%	30/15 Winter				98.060
12.012	55	15 Winter	30	+0%	30/15 Winter				97.526
12.013	56	15 Winter	30	+0%	30/15 Winter				97.398
12.014	57	480 Winter	30	+0%					96.598
23.000	86	15 Winter	30	+0%					98.238
23.001	87	480 Winter	30	+0%					96.597
24.000	POND2	480 Winter	30	+0%					96.597
12.015	58	480 Winter	30	+0%	2/60 Winter				96.597
25.000	89	15 Winter	30	+0%					98.958
25.001	90	15 Winter	30	+0%					97.875
25.002	91	15 Winter	30	+0%					97.577
25.003	92	15 Winter	30	+0%					97.237
25.004	93	360 Winter	30	+0%					93.241
1.018	19	360 Winter	30	+0%	2/15 Winter				93.241

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
16.002	76	-0.215	0.000	0.53		167.5	OK	
15.004	70	-0.161	0.000	0.73		335.4	OK	
15.005	71	-0.269	0.000	0.57		338.1	OK	
18.000	79	-0.079	0.000	0.45		13.4	OK	
19.000	81	-0.118	0.000	0.10		3.1	OK	
18.001	80	-0.517	0.000	0.02		19.6	OK	
15.006	72	-0.435	0.000	0.30		339.6	OK	
15.007	73	-0.305	0.000	0.29		264.8	OK	
12.010	53	-0.276	0.000	0.42		416.5	OK	
20.000	POND1	-0.375	0.000	0.02		7.4	OK	
12.011	54	0.506	0.000	0.03		5.4	SURCHARGED	
21.000	83	-0.043	0.000	0.83		22.2	OK	
21.001	84	-0.143	0.000	0.28		29.3	OK	
22.000	85	0.238	0.000	1.15		19.7	SURCHARGED	
12.012	55	0.099	0.000	1.18		50.6	SURCHARGED	

©1982-2015 XP Solutions

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for PLANNING-SW-DESIGN.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
12.013	56	0.066	0.000	1.09		53.7	SURCHARGED	
12.014	57	-0.324	0.000	0.04		13.5	OK	
23.000	86	-0.105	0.000	0.19		6.2	OK	
23.001	87	-0.369	0.000	0.01		5.7	OK	
24.000	POND2	-0.308	0.000	0.01		1.6	OK	
12.015	58	0.297	0.000	0.02		6.4	SURCHARGED	
25.000	89	-0.107	0.000	0.53		45.6	OK	
25.001	90	-0.096	0.000	0.61		45.1	OK	
25.002	91	-0.068	0.000	0.93		90.6	OK	
25.003	92	-0.203	0.000	0.23		90.0	OK	
25.004	93	-0.963	0.000	0.00		12.4	OK	
1.018	19	1.086	0.000	0.94		28.2	SURCHARGED	

©1982-2015 XP Solutions

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for PLANNING-SW-DESIGN.SWS

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	100	Add Flow / Climate Change (%)	0
M5-60 (mm)	19.000	Minimum Backdrop Height (m)	0.200
Ratio R	0.362	Maximum Backdrop Height (m)	1.800
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	1.200
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500
Volumetric Runoff Coeff.	0.750		

Designed with Level Soffits

Time Area Diagram for PLANNING-SW-DESIGN.SWS

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	2.626	4-8	2.744	8-12	0.125

Total Area Contributing (ha) = 5.495

Total Pipe Volume (m³) = 3068.038

Network Design Table for PLANNING-SW-DESIGN.SWS

\# - Indicates pipe length does not match coordinates
« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
1.000	24.905	1.211	20.6	0.020	5.00	0.0	0.600	o	150	
1.001	44.062	1.856	23.7	0.112	0.00	0.0	0.600	o	225	
2.000	14.206	0.250	56.8	0.429	6.00	0.0	0.600	o	300	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.19	111.667	0.020	0.0	0.0	0.0	2.23	39.4	2.7
1.001	50.00	5.46	110.381	0.132	0.0	0.0	0.0	2.70	107.2	17.9
2.000	50.00	6.11	110.100	0.429	0.0	0.0	0.0	2.09	147.7	58.1

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
2.001	14.189	1.475	9.6	0.025	0.00	0.0	0.600	o	300	
1.002	16.067	1.632	9.8	0.024	0.00	0.0	0.600	o	300	
3.000	17.387	0.175	99.4	0.047	5.00	0.0	0.600	o	225	
3.001	23.625	0.338	69.9	0.062	0.00	0.0	0.600	o	225	
1.003	24.310	2.425	10.0	0.032	0.00	0.0	0.600	o	300	
1.004	21.862	0.490	44.6	0.026	0.00	0.0	0.600	o	450	
4.000	42.487	2.070	20.5	0.001	5.00	0.0	0.600	o	150	
1.005	31.679	0.777	40.8	0.042	0.00	0.0	0.600	o	525	
1.006	30.783	0.615	50.1	0.069	0.00	0.0	0.600	o	525	
1.007	13.860	0.410	33.8	0.039	0.00	0.0	0.600	o	600	
5.000	11.929	0.403	29.6	0.503	6.50	0.0	0.600	o	300	
6.000	27.039	1.325	20.4	0.016	5.00	0.0	0.600	o	150	
5.001	35.877	3.405	10.5	0.061	0.00	0.0	0.600	o	300	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
2.001	50.00	6.16	109.850	0.454	0.0	0.0	0.0	5.10	360.4	61.5
1.002	50.00	6.21	108.375	0.610	0.0	0.0	0.0	5.04	356.2	82.6
3.000	50.00	5.22	107.481	0.047	0.0	0.0	0.0	1.31	52.2	6.4
3.001	50.00	5.47	107.306	0.109	0.0	0.0	0.0	1.57	62.3	14.8
1.003	50.00	6.29	106.743	0.751	0.0	0.0	0.0	4.99	353.0	101.7
1.004	50.00	6.41	104.168	0.777	0.0	0.0	0.0	3.05	485.1	105.2
4.000	50.00	5.32	106.198	0.001	0.0	0.0	0.0	2.23	39.5	0.1
1.005	50.00	6.56	103.603	0.820	0.0	0.0	0.0	3.52	761.0	111.0
1.006	50.00	6.73	102.826	0.889	0.0	0.0	0.0	3.17	686.6	120.4
1.007	50.00	6.78	102.136	0.928	0.0	0.0	0.0	4.20	1187.0	125.7
5.000	50.00	6.57	108.000	0.503	0.0	0.0	0.0	2.90	205.0	68.1
6.000	50.00	5.20	109.147	0.016	0.0	0.0	0.0	2.24	39.6	2.2
5.001	50.00	6.69	107.597	0.580	0.0	0.0	0.0	4.87	344.3	78.5

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
7.000	68.335	0.683	100.1	0.990	7.00	0.0	0.600	o	525	
7.001	52.317	0.523	100.0	0.024	0.00	0.0	0.600	o	600	
5.002	39.347	0.794	49.6	0.168	0.00	0.0	0.600	o	600	
1.008	9.203	0.202	45.6	0.028	0.00	0.0	0.600	o	675	
1.009	14.461	1.176	12.3	0.025	0.00	0.0	0.600	o	675	
8.000	57.343	0.574	99.9	0.019	5.00	0.0	0.600	o	375	
1.010	10.125	0.349	29.0	0.033	0.00	0.0	0.600	o	675	
9.000	13.431	0.400	33.6	0.034	5.00	0.0	0.600	o	150	
9.001	26.296	0.263	100.0	0.046	0.00	0.0	0.600	o	225	
9.002	7.299	0.364	20.1	0.000	0.00	0.0	0.600	o	225	
1.011	62.086	1.602	38.8	0.127	0.00	0.0	0.600	o	675	
1.012	12.822	0.453	28.3	0.022	0.00	0.0	0.600	o	675	
1.013	11.530	0.030	384.3	0.008	0.00	0.0	0.600	o	750	
1.014	28.420	1.318	21.6	0.130	0.00	0.0	0.600	o	750	
1.015	13.005	0.516	25.2	0.008	0.00	0.0	0.600	o	750	
1.016	21.229	1.385	15.3	0.049	0.00	0.0	0.600	o	750	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
7.000	50.00	7.51	104.075	0.990	0.0	0.0	0.0	2.24	484.8	134.1
7.001	50.00	7.87	103.317	1.014	0.0	0.0	0.0	2.43	688.5	137.3
5.002	50.00	8.06	102.794	1.762	0.0	0.0	0.0	3.46	979.7	238.6
1.008	50.00	8.10	101.651	2.718	0.0	0.0	0.0	3.89	1391.9	368.1
1.009	50.00	8.13	101.449	2.743	0.0	0.0	0.0	7.50	2683.4	371.4
8.000	50.00	5.53	100.221	0.019	0.0	0.0	0.0	1.81	200.2	2.6
1.010	50.00	8.16	99.347	2.795	0.0	0.0	0.0	4.88	1745.4	378.5
9.000	50.00	5.13	100.550	0.034	0.0	0.0	0.0	1.74	30.8	4.6
9.001	50.00	5.46	100.075	0.080	0.0	0.0	0.0	1.31	52.0	10.8
9.002	50.00	5.51	99.812	0.080	0.0	0.0	0.0	2.94	116.7	10.8
1.011	50.00	8.41	98.998	3.002	0.0	0.0	0.0	4.22	1509.5	406.5
1.012	50.00	8.45	97.396	3.024	0.0	0.0	0.0	4.94	1767.1	409.5
1.013	50.00	8.59	96.868	3.032	0.0	0.0	0.0	1.42	627.9	410.6
1.014	50.00	8.66	96.838	3.162	0.0	0.0	0.0	6.04	2669.3	428.2
1.015	50.00	8.70	95.520	3.170	0.0	0.0	0.0	5.59	2468.6	429.3
1.016	50.00	8.75	95.004	3.219	0.0	0.0	0.0	7.17	3167.1	435.9

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
1.017	5.100	1.484	3.4	0.037	0.00	0.0	0.600	o	750	
10.000	41.255	1.709	24.1	0.028	5.00	0.0	0.600	o	150	
11.000	7.615	0.767	9.9	0.030	5.00	0.0	0.600	o	150	
11.001	16.498	0.203	81.3	0.019	0.00	0.0	0.600	o	225	
11.002	33.668	0.402	83.8	0.023	0.00	0.0	0.600	o	225	
10.001	51.065	1.400	36.5	0.041	0.00	0.0	0.600	o	300	
10.002	15.045	1.293	11.6	0.058	0.00	0.0	0.600	o	300	
10.003	22.967	0.741	31.0	0.000	0.00	0.0	0.600	o	300	
10.004	82.200#	0.152	540.8	0.000	0.00	0.0	0.030	4o	-7	
12.000	19.518	1.107	17.6	0.000	5.00	0.0	0.600	o	150	
12.001	30.662	1.436	21.4	0.044	0.00	0.0	0.600	o	150	
12.002	30.467	0.937	32.5	0.008	0.00	0.0	0.600	o	150	
12.003	12.160	0.167	72.8	0.000	0.00	0.0	0.600	o	150	
12.004	23.962	0.926	25.9	0.040	0.00	0.0	0.600	o	225	
13.000	37.899	0.401	94.5	0.049	5.00	0.0	0.600	o	150	
13.001	9.291	0.093	99.9	0.000	0.00	0.0	0.600	o	150	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.017	50.00	8.76	93.619	3.256	0.0	0.0	0.0	15.15	6695.1	440.9
10.000	50.00	5.33	98.275	0.028	0.0	0.0	0.0	2.06	36.4	3.8
11.000	50.00	5.04	97.938	0.030	0.0	0.0	0.0	3.22	56.8	4.1
11.001	50.00	5.23	97.096	0.049	0.0	0.0	0.0	1.45	57.7	6.6
11.002	50.00	5.62	96.893	0.072	0.0	0.0	0.0	1.43	56.9	9.7
10.001	50.00	5.95	96.416	0.141	0.0	0.0	0.0	2.61	184.6	19.1
10.002	50.00	6.00	95.016	0.199	0.0	0.0	0.0	4.63	327.6	26.9
10.003	50.00	6.14	93.723	0.199	0.0	0.0	0.0	2.83	200.3	26.9
10.004	50.00	6.62	92.082	0.199	0.0	0.0	0.0	2.81	38902.9	26.9
12.000	50.00	5.13	111.076	0.000	0.0	0.0	0.0	2.41	42.6	0.0
12.001	50.00	5.37	109.969	0.044	0.0	0.0	0.0	2.19	38.7	6.0
12.002	50.00	5.66	108.533	0.052	0.0	0.0	0.0	1.77	31.3	7.0
12.003	50.00	5.83	107.596	0.052	0.0	0.0	0.0	1.18	20.8	7.0
12.004	50.00	5.98	107.354	0.092	0.0	0.0	0.0	2.58	102.7	12.5
13.000	50.00	5.61	106.997	0.049	0.0	0.0	0.0	1.03	18.3	6.6
13.001	50.00	5.76	106.596	0.049	0.0	0.0	0.0	1.01	17.8	6.6

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
12.005	35.273	1.999	17.6	0.023	0.00	0.0	0.600	o	300	
12.006	27.896	1.758	15.9	0.065	0.00	0.0	0.600	o	300	
14.000	15.941	0.772	20.6	0.020	5.00	0.0	0.600	o	150	
14.001	22.408	1.205	18.6	0.086	0.00	0.0	0.600	o	150	
14.002	22.120	1.094	20.2	0.016	0.00	0.0	0.600	o	225	
14.003	31.235	1.458	21.4	0.039	0.00	0.0	0.600	o	225	
14.004	37.250	0.233	159.9	0.099	0.00	0.0	0.600	o	300	
12.007	18.883	1.650	11.4	0.000	0.00	0.0	0.600	o	300	
12.008	41.034	2.305	17.8	0.066	0.00	0.0	0.600	o	450	
12.009	17.037	0.167	102.0	0.009	0.00	0.0	0.600	o	450	
15.000	34.686	1.389	25.0	0.033	5.00	0.0	0.600	o	150	
15.001	62.338	2.500	24.9	0.098	0.00	0.0	0.600	o	225	
15.002	13.187	0.550	24.0	0.027	0.00	0.0	0.600	o	300	
15.003	39.649	1.706	23.2	0.092	0.00	0.0	0.600	o	300	
16.000	21.444	0.280	76.6	0.023	5.00	0.0	0.600	o	225	
16.001	19.912	0.678	29.4	0.324	0.00	0.0	0.600	o	450	
17.000	9.905	0.122	81.2	0.002	5.00	0.0	0.600	o	150	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
12.005	50.00	6.14	106.353	0.164	0.0	0.0	0.0	3.76	265.8	22.2
12.006	50.00	6.25	104.354	0.229	0.0	0.0	0.0	3.97	280.4	31.0
14.000	50.00	5.12	107.508	0.020	0.0	0.0	0.0	2.23	39.3	2.7
14.001	50.00	5.28	106.736	0.106	0.0	0.0	0.0	2.35	41.5	14.4
14.002	50.00	5.40	105.456	0.122	0.0	0.0	0.0	2.92	116.2	16.5
14.003	50.00	5.59	104.362	0.161	0.0	0.0	0.0	2.84	112.9	21.8
14.004	50.00	6.09	102.829	0.260	0.0	0.0	0.0	1.24	87.7	35.2
12.007	50.00	6.32	102.596	0.489	0.0	0.0	0.0	4.67	330.3	66.2
12.008	50.00	6.46	100.796	0.555	0.0	0.0	0.0	4.84	769.2	75.2
12.009	50.00	6.60	98.491	0.564	0.0	0.0	0.0	2.01	320.1	76.4
15.000	50.00	5.29	106.325	0.033	0.0	0.0	0.0	2.02	35.8	4.5
15.001	50.00	5.68	104.861	0.131	0.0	0.0	0.0	2.63	104.6	17.7
15.002	50.00	5.75	102.286	0.158	0.0	0.0	0.0	3.22	227.9	21.4
15.003	50.00	5.95	101.736	0.250	0.0	0.0	0.0	3.28	231.5	33.9
16.000	50.00	5.24	101.575	0.023	0.0	0.0	0.0	1.50	59.5	3.1
16.001	50.00	5.33	101.070	0.347	0.0	0.0	0.0	3.76	598.4	47.0
17.000	50.00	5.15	101.066	0.002	0.0	0.0	0.0	1.12	19.7	0.3

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
17.001	7.497	0.252	29.8	0.017	0.00	0.0	0.600	o	150	
16.002	51.208	0.587	87.2	0.078	0.00	0.0	0.600	o	450	
15.004	37.643	0.976	38.6	0.029	0.00	0.0	0.600	o	450	
15.005	16.533	0.345	47.9	0.008	0.00	0.0	0.600	o	600	
18.000	22.842	0.714	32.0	0.019	5.00	0.0	0.600	o	150	
19.000	11.422	0.417	27.4	0.000	5.00	0.0	0.600	o	150	
18.001	41.765	0.084	497.2	0.011	0.00	0.0	0.600	o	1050	
15.006	89.696	0.179	501.1	0.118	0.00	0.0	0.600	o	1050	
15.007	27.971	0.056	499.5	0.065	0.00	0.0	0.600	o	1050	
12.010	37.172	0.074	502.3	0.022	0.00	0.0	0.600	o	1050	
20.000	13.424	0.005	2684.8	0.000	5.00	0.0	0.600	o	1050	
12.011	15.182	0.598	25.4	0.018	0.00	0.0	0.600	o	300	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
17.001	50.00	5.22	100.944	0.019	0.0	0.0	0.0	1.85	32.7	2.6
16.002	50.00	5.72	100.392	0.444	0.0	0.0	0.0	2.18	346.3	60.1
15.004	50.00	6.14	99.805	0.723	0.0	0.0	0.0	3.28	521.9	97.9
15.005	50.00	6.22	98.679	0.731	0.0	0.0	0.0	3.52	996.3	99.0
18.000	50.00	5.21	99.657	0.019	0.0	0.0	0.0	1.79	31.6	2.6
19.000	50.00	5.10	99.360	0.000	0.0	0.0	0.0	1.93	34.1	0.0
18.001	50.00	5.67	98.193	0.030	0.0	0.0	0.0	1.54	1332.3	4.1
15.006	50.00	7.20	98.109	0.879	0.0	0.0	0.0	1.53	1327.1	119.0
15.007	50.00	7.50	97.930	0.944	0.0	0.0	0.0	1.54	1329.2	127.8
12.010	50.00	7.90	97.874	1.530	0.0	0.0	0.0	1.53	1325.4	207.2
20.000	50.00	5.34	97.805	0.000	0.0	0.0	0.0	0.66	567.4	0.0
12.011	50.00	7.98	97.800	1.548	0.0	0.0	0.0	3.13	221.5	209.6

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
21.000	28.470	0.700	40.7	0.045	5.00	0.0	0.600	o	150	
21.001	19.391	0.973	19.9	0.008	0.00	0.0	0.600	o	225	
22.000	39.541	0.395	100.1	0.050	5.00	0.0	0.600	o	150	
12.012	9.463	0.095	99.6	0.000	0.00	0.0	0.600	o	225	
12.013	40.798	0.410	99.5	0.016	0.00	0.0	0.600	o	225	
12.014	10.989	0.022	499.5	0.046	0.00	0.0	0.600	o	900	
23.000	40.679	1.377	29.5	0.020	5.00	0.0	0.600	o	150	
23.001	33.227	0.066	503.4	0.099	0.00	0.0	0.600	o	900	
24.000	20.850	0.005	4170.0	0.000	5.00	0.0	0.600	o	900	
12.015	25.964	2.270	11.4	0.000	0.00	0.0	0.600	o	300	
25.000	33.685	1.094	30.8	0.119	5.00	0.0	0.765	o	225	
25.001	11.666	0.326	35.8	0.000	0.00	0.0	0.600	o	225	
25.002	20.529	0.205	100.1	0.089	0.00	0.0	0.600	o	300	
25.003	26.130	4.122	6.3	0.000	0.00	0.0	0.600	o	300	
25.004	106.300#	0.174	610.9	0.000	0.00	0.0	0.030	4o	-7	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
21.000	50.00	5.30	98.950	0.045	0.0	0.0	0.0	1.58	28.0	6.1
21.001	50.00	5.41	98.175	0.053	0.0	0.0	0.0	2.94	117.1	7.2
22.000	50.00	5.66	97.672	0.050	0.0	0.0	0.0	1.00	17.7	6.8
12.012	50.00	8.10	97.202	1.651	0.0	0.0	0.0	1.31	52.1«	223.6
12.013	50.00	8.62	97.107	1.667	0.0	0.0	0.0	1.31	52.1«	225.7
12.014	50.00	8.75	96.022	1.713	0.0	0.0	0.0	1.40	887.5	232.0
23.000	50.00	5.36	98.193	0.020	0.0	0.0	0.0	1.86	32.9	2.7
23.001	50.00	5.76	96.066	0.119	0.0	0.0	0.0	1.39	884.0	16.1
24.000	50.00	5.73	96.005	0.000	0.0	0.0	0.0	0.48	302.3	0.0
12.015	50.00	8.85	96.000	1.832	0.0	0.0	0.0	4.67	330.4	248.1
25.000	50.00	5.25	98.840	0.119	0.0	0.0	0.0	2.29	91.0	16.1
25.001	50.00	5.33	97.746	0.119	0.0	0.0	0.0	2.19	87.2	16.1
25.002	50.00	5.55	97.345	0.208	0.0	0.0	0.0	1.57	111.1	28.2
25.003	50.00	5.62	97.140	0.208	0.0	0.0	0.0	6.28	444.1	28.2
25.004	50.00	6.29	92.104	0.208	0.0	0.0	0.0	2.63	36499.8	28.2

©1982-2015 XP Solutions

Network Design Table for PLANNING-SW-DESIGN.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
1.018	4.018	0.040	100.5	0.000	0.00	0.0	0.600	o	225	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.018	50.00	8.90	91.930	5.495	0.0	0.0	0.0	1.30	51.9«	744.1

Conduit Sections for PLANNING-SW-DESIGN.SWS

NOTE: Diameters less than 66 refer to section numbers of hydraulic conduits. These conduits are marked by the symbols:- [] box culvert, \/ open channel, oo dual pipe, ooo triple pipe, O egg.

Section numbers < 0 are taken from user conduit table

Section Number	Conduit Type	Major Dimn. (mm)	Minor Dimn. (mm)	Side Slope (Deg)	Corner Splay (mm)	4*Hyd Radius (m)	XSect Area (m²)
-7	4o	8400	2100			2.100	13.854

Free Flowing Outfall Details for PLANNING-SW-DESIGN.SWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.018	20	93.730	91.890	0.000	0	0

Simulation Criteria for PLANNING-SW-DESIGN.SWS

Volumetric Runoff Coeff	0.840	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	174	Number of Storage Structures	2
Number of Online Controls	3	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Region	England and Wales
Return Period (years)	100	M5-60 (mm)	19.000

©1982-2015 XP Solutions

Synthetic Rainfall Details

Ratio R	0.362	Cv (Winter)	0.840
Profile Type	Winter	Storm Duration (mins)	15
Cv (Summer)	0.750		

©1982-2015 XP Solutions

Online Controls for PLANNING-SW-DESIGN.SWS

Hydro-Brake Optimum® Manhole: 54, DS/PN: 12.011, Volume (m³): 45.2

Unit Reference	MD-SCU-0076-6000-1000-6000
Design Head (m)	1.000
Design Flow (l/s)	6.0
Flush-Flo™	Calculated
Objective	Linear discharge profile
Diameter (mm)	76
Invert Level (m)	97.800
Minimum Outlet Pipe Diameter (mm)	100
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.000	6.0
Flush-Flo™	0.106	2.2
Kick-Flo®	0.115	2.2
Mean Flow over Head Range	-	4.1

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake Optimum® as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.2	1.200	6.5	3.000	10.1	7.000	15.1
0.200	2.9	1.400	7.0	3.500	10.9	7.500	15.6
0.300	3.4	1.600	7.5	4.000	11.6	8.000	16.1
0.400	3.9	1.800	7.9	4.500	12.2	8.500	16.6
0.500	4.3	2.000	8.3	5.000	12.9	9.000	17.1
0.600	4.7	2.200	8.7	5.500	13.5	9.500	17.5
0.800	5.4	2.400	9.1	6.000	14.0		
1.000	6.0	2.600	9.4	6.500	14.6		

Hydro-Brake Optimum® Manhole: 58, DS/PN: 12.015, Volume (m³): 40.8

Unit Reference	MD-SHE-0121-6000-0500-6000
Design Head (m)	0.500
Design Flow (l/s)	6.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Diameter (mm)	121
Invert Level (m)	96.000
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.500	5.9
Flush-Flo™	0.189	5.9

©1982-2015 XP Solutions

Hydro-Brake Optimum® Manhole: 58, DS/PN: 12.015, Volume (m³): 40.8

Control Points	Head (m)	Flow (l/s)
Kick-Flo®	0.376	5.2
Mean Flow over Head Range	-	4.8

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake Optimum® as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	4.3	1.200	8.9	3.000	13.8	7.000	20.8
0.200	5.9	1.400	9.6	3.500	14.8	7.500	21.5
0.300	5.7	1.600	10.2	4.000	15.8	8.000	22.2
0.400	5.3	1.800	10.8	4.500	16.7	8.500	22.9
0.500	5.9	2.000	11.4	5.000	17.6	9.000	23.6
0.600	6.5	2.200	11.9	5.500	18.4	9.500	24.2
0.800	7.4	2.400	12.4	6.000	19.2		
1.000	8.2	2.600	12.9	6.500	20.0		

Hydro-Brake Optimum® Manhole: 19, DS/PN: 1.018, Volume (m³): 2553.0

Unit Reference	MD-SHE-0211-2840-2350-2840
Design Head (m)	2.350
Design Flow (l/s)	28.4
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Diameter (mm)	211
Invert Level (m)	91.930
Minimum Outlet Pipe Diameter (mm)	225
Suggested Manhole Diameter (mm)	1800

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	2.350	28.3
Flush-Flo™	0.674	28.2
Kick-Flo®	1.433	22.3
Mean Flow over Head Range	-	24.6

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake Optimum® as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	7.2	0.800	28.1	2.000	26.2	4.000	36.5
0.200	20.5	1.000	27.4	2.200	27.4	4.500	38.6
0.300	25.3	1.200	26.0	2.400	28.6	5.000	40.7
0.400	26.9	1.400	23.1	2.600	29.7	5.500	42.6
0.500	27.8	1.600	23.5	3.000	31.8	6.000	44.4
0.600	28.2	1.800	24.9	3.500	34.2	6.500	46.2

©1982-2015 XP Solutions

Hydro-Brake Optimum® Manhole: 19, DS/PN: 1.018, Volume (m³): 2553.0

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
7.000	47.8	8.000	51.0	9.000	54.0		
7.500	49.5	8.500	52.6	9.500	55.5		

©1982-2015 XP Solutions

Storage Structures for PLANNING-SW-DESIGN.SWS

Tank or Pond Manhole: POND1, DS/PN: 20.000

Invert Level (m) 97.805

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	920.3	0.500	1347.0	1.000	1716.3	1.300	1942.0

Tank or Pond Manhole: POND2, DS/PN: 24.000

Invert Level (m) 96.005

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	74.6	0.500	257.7	1.000	401.7	1.295	504.8

©1982-2015 XP Solutions

Summary of Results for 15 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.714	-0.103	0.000	0.22		8.1	OK
1.001	2	110.502	-0.104	0.000	0.56		57.5	OK
2.000	21	110.559	0.159	0.000	1.29		157.8	SURCHARGED
2.001	22	110.012	-0.138	0.000	0.56		166.7	OK
1.002	3	108.574	-0.101	0.000	0.76		228.4	OK
3.000	23	107.582	-0.124	0.000	0.41		19.3	OK
3.001	24	107.462	-0.069	0.000	0.81		46.0	OK
1.003	4	106.971	-0.072	0.000	0.91		286.2	OK
1.004	5	104.463	-0.155	0.000	0.75		296.6	OK
4.000	25	106.215	-0.133	0.000	0.03		1.1	OK
1.005	6	103.863	-0.265	0.000	0.49		314.0	OK
1.006	7	103.117	-0.234	0.000	0.59		340.3	OK
1.007	8	102.736	0.000	0.000	0.53		342.8	OK
5.000	26	108.413	0.113	0.000	1.14		180.7	SURCHARGED
6.000	29	109.190	-0.107	0.000	0.18		6.8	OK
5.001	27	107.776	-0.121	0.000	0.65		205.2	OK
7.000	30	104.424	-0.176	0.000	0.76		339.5	OK
7.001	31	103.644	-0.273	0.000	0.57		347.0	OK
5.002	28	103.179	-0.215	0.000	0.72		602.4	OK
1.008	9	102.659	0.333	0.000	1.68		956.1	SURCHARGED
1.009	10	101.865	-0.259	0.000	0.70		961.4	OK
8.000	32	100.275	-0.321	0.000	0.04		7.5	OK
1.010	11	100.239	0.217	0.000	1.30		970.8	SURCHARGED
9.000	33	100.626	-0.074	0.000	0.51		14.3	OK
9.001	34	100.217	-0.083	0.000	0.71		34.1	OK
9.002	35	99.912	-0.125	0.000	0.40		34.1	OK
1.011	12	99.575	-0.098	0.000	0.77		1023.2	OK
1.012	13	98.633	0.562	0.000	1.20		1021.7	SURCHARGED
1.013	14	97.981	0.363	0.000	3.05		1020.5	SURCHARGED
1.014	15	97.250	-0.338	0.000	0.58		1041.8	OK
1.015	16	96.091	-0.179	0.000	0.93		1045.8	OK
1.016	17	95.412	-0.342	0.000	0.57		1053.9	OK
1.017	18	94.019	-0.350	0.000	0.56		1059.3	OK
10.000	36	98.334	-0.091	0.000	0.32		11.4	OK
11.000	40	97.990	-0.098	0.000	0.26		12.5	OK
11.001	41	97.196	-0.125	0.000	0.40		20.6	OK
11.002	42	97.018	-0.100	0.000	0.58		30.8	OK
10.001	37	96.538	-0.178	0.000	0.34		58.6	OK
10.002	38	95.131	-0.185	0.000	0.30		83.0	OK
10.003	39	93.870	-0.153	0.000	0.47		82.6	OK
10.004	94	92.784	-1.398	0.000	0.00		74.3	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	110.046	-0.073	0.000	0.52		19.5	OK

©1982-2015 XP Solutions

Summary of Results for 15 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.632	-0.051	0.000	0.76		22.9	OK
12.003	46	107.814	0.068	0.000	1.19		22.5	SURCHARGED
12.004	47	107.456	-0.123	0.000	0.41		38.7	OK
13.000	59	107.241	0.094	0.000	1.06		18.7	SURCHARGED
13.001	60	106.777	0.031	0.000	1.19		18.7	SURCHARGED
12.005	48	106.460	-0.193	0.000	0.27		64.9	OK
12.006	49	104.481	-0.173	0.000	0.36		91.6	OK
14.000	61	107.556	-0.102	0.000	0.22		8.1	OK
14.001	62	107.039	0.153	0.000	1.06		41.6	SURCHARGED
14.002	63	105.563	-0.118	0.000	0.45		47.7	OK
14.003	64	104.490	-0.097	0.000	0.61		64.3	OK
14.004	65	103.290	0.161	0.000	1.29		104.9	SURCHARGED
12.007	50	102.782	-0.114	0.000	0.69		197.0	OK
12.008	51	100.974	-0.272	0.000	0.33		222.8	OK
12.009	52	98.851	-0.090	0.000	0.99		228.2	OK
15.000	66	106.391	-0.084	0.000	0.39		13.5	OK
15.001	67	104.982	-0.104	0.000	0.56		56.4	OK
15.002	68	102.412	-0.174	0.000	0.37		68.2	OK
15.003	69	101.889	-0.147	0.000	0.51		109.4	OK
16.000	74	101.639	-0.161	0.000	0.18		9.6	OK
16.001	75	101.245	-0.275	0.000	0.32		150.0	OK
17.000	77	101.088	-0.128	0.000	0.05		0.9	OK
17.001	78	101.001	-0.093	0.000	0.31		8.8	OK
16.002	76	100.647	-0.195	0.000	0.61		191.4	OK
15.004	70	100.080	-0.175	0.000	0.68		312.7	OK
15.005	71	98.995	-0.284	0.000	0.53		314.7	OK
18.000	79	99.709	-0.098	0.000	0.26		7.9	OK
19.000	81	99.377	-0.133	0.000	0.03		0.9	OK
18.001	80	98.654	-0.589	0.000	0.01		10.4	OK
15.006	72	98.653	-0.506	0.000	0.27		313.9	OK
15.007	73	98.630	-0.350	0.000	0.29		263.2	OK
12.010	53	98.615	-0.309	0.000	0.44		428.6	OK
20.000	POND1	98.112	-0.743	0.000	0.00		0.0	OK
12.011	54	98.582	0.482	0.000	0.03		5.3	SURCHARGED
21.000	83	99.043	-0.057	0.000	0.69		18.4	OK
21.001	84	98.245	-0.155	0.000	0.21		22.1	OK
22.000	85	97.924	0.102	0.000	1.10		18.9	SURCHARGED
12.012	55	97.428	0.001	0.000	1.03		44.4	SURCHARGED
12.013	56	97.293	-0.039	0.000	1.00		49.5	OK
12.014	57	96.395	-0.527	0.000	0.18		66.4	OK
23.000	86	98.244	-0.099	0.000	0.25		8.0	OK
23.001	87	96.390	-0.576	0.000	0.07		47.6	OK
24.000	POND2	96.358	-0.547	0.000	0.00		0.0	OK
12.015	58	96.387	0.087	0.000	0.02		5.9	SURCHARGED
25.000	89	98.962	-0.103	0.000	0.57		48.7	OK
25.001	90	97.881	-0.090	0.000	0.65		48.3	OK
25.002	91	97.570	-0.075	0.000	0.89		86.7	OK
25.003	92	97.235	-0.205	0.000	0.22		86.1	OK
25.004	93	92.784	-1.420	0.000	0.00		75.8	OK

©1982-2015 XP Solutions

Summary of Results for 15 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	92.784	0.629	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 30 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.709	-0.108	0.000	0.17		6.5	OK
1.001	2	110.485	-0.121	0.000	0.44		44.5	OK
2.000	21	110.437	0.037	0.000	1.09		133.8	SURCHARGED
2.001	22	109.996	-0.154	0.000	0.47		141.8	OK
1.002	3	108.550	-0.125	0.000	0.63		190.9	OK
3.000	23	107.570	-0.136	0.000	0.33		15.5	OK
3.001	24	107.437	-0.094	0.000	0.63		36.3	OK
1.003	4	106.940	-0.103	0.000	0.75		236.4	OK
1.004	5	104.426	-0.192	0.000	0.62		244.9	OK
4.000	25	106.215	-0.133	0.000	0.03		1.1	OK
1.005	6	103.835	-0.293	0.000	0.40		259.1	OK
1.006	7	103.085	-0.266	0.000	0.49		280.8	OK
1.007	8	102.576	-0.160	0.000	0.45		289.9	OK
5.000	26	108.239	-0.061	0.000	0.98		156.3	OK
6.000	29	109.185	-0.112	0.000	0.14		5.5	OK
5.001	27	107.761	-0.136	0.000	0.57		180.6	OK
7.000	30	104.392	-0.208	0.000	0.67		299.7	OK
7.001	31	103.620	-0.297	0.000	0.51		306.1	OK
5.002	28	103.145	-0.249	0.000	0.64		534.8	OK
1.008	9	102.524	0.198	0.000	1.46		831.4	SURCHARGED
1.009	10	101.831	-0.293	0.000	0.61		839.6	OK
8.000	32	100.265	-0.331	0.000	0.03		6.1	OK
1.010	11	100.093	0.071	0.000	1.14		854.1	SURCHARGED
9.000	33	100.617	-0.083	0.000	0.41		11.6	OK
9.001	34	100.196	-0.104	0.000	0.56		26.9	OK
9.002	35	99.900	-0.137	0.000	0.32		27.2	OK
1.011	12	99.410	-0.263	0.000	0.68		911.5	OK
1.012	13	98.417	0.346	0.000	1.07		912.0	SURCHARGED
1.013	14	97.894	0.276	0.000	2.73		915.6	SURCHARGED
1.014	15	97.226	-0.362	0.000	0.53		944.7	OK
1.015	16	96.050	-0.220	0.000	0.84		947.2	OK
1.016	17	95.388	-0.366	0.000	0.52		957.7	OK
1.017	18	93.997	-0.372	0.000	0.51		964.5	OK
10.000	36	98.327	-0.098	0.000	0.26		9.3	OK
11.000	40	97.984	-0.104	0.000	0.21		10.1	OK
11.001	41	97.183	-0.138	0.000	0.32		16.3	OK
11.002	42	97.001	-0.117	0.000	0.46		24.8	OK
10.001	37	96.522	-0.194	0.000	0.27		47.3	OK
10.002	38	95.116	-0.200	0.000	0.24		66.4	OK
10.003	39	93.850	-0.173	0.000	0.38		66.5	OK
10.004	94	92.947	-1.235	0.000	0.00		59.8	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	110.035	-0.084	0.000	0.40		15.0	OK

©1982-2015 XP Solutions

Summary of Results for 30 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.616	-0.067	0.000	0.58		17.5	OK
12.003	46	107.711	-0.035	0.000	0.93		17.6	OK
12.004	47	107.443	-0.136	0.000	0.33		30.7	OK
13.000	59	107.111	-0.036	0.000	0.92		16.3	OK
13.001	60	106.742	-0.004	0.000	1.00		15.7	OK
12.005	48	106.448	-0.205	0.000	0.22		53.9	OK
12.006	49	104.466	-0.188	0.000	0.30		75.1	OK
14.000	61	107.550	-0.108	0.000	0.18		6.5	OK
14.001	62	106.847	-0.039	0.000	0.89		34.8	OK
14.002	63	105.552	-0.129	0.000	0.38		40.1	OK
14.003	64	104.476	-0.111	0.000	0.50		53.1	OK
14.004	65	103.143	0.014	0.000	1.05		85.0	SURCHARGED
12.007	50	102.757	-0.139	0.000	0.56		160.1	OK
12.008	51	100.953	-0.293	0.000	0.26		180.9	OK
12.009	52	98.799	-0.142	0.000	0.80		184.2	OK
15.000	66	106.383	-0.092	0.000	0.32		11.0	OK
15.001	67	104.966	-0.120	0.000	0.44		44.2	OK
15.002	68	102.396	-0.190	0.000	0.29		53.5	OK
15.003	69	101.868	-0.168	0.000	0.40		85.5	OK
16.000	74	101.631	-0.169	0.000	0.14		7.7	OK
16.001	75	101.222	-0.298	0.000	0.25		115.2	OK
17.000	77	101.086	-0.130	0.000	0.04		0.7	OK
17.001	78	100.994	-0.100	0.000	0.24		6.9	OK
16.002	76	100.610	-0.232	0.000	0.47		147.7	OK
15.004	70	100.039	-0.216	0.000	0.53		245.2	OK
15.005	71	98.950	-0.329	0.000	0.42		248.1	OK
18.000	79	99.704	-0.103	0.000	0.21		6.3	OK
19.000	81	99.377	-0.133	0.000	0.03		0.9	OK
18.001	80	98.632	-0.611	0.000	0.01		9.0	OK
15.006	72	98.631	-0.528	0.000	0.23		262.7	OK
15.007	73	98.603	-0.377	0.000	0.27		250.2	OK
12.010	53	98.588	-0.336	0.000	0.41		401.7	OK
20.000	POND1	98.186	-0.669	0.000	0.00		0.0	OK
12.011	54	98.557	0.457	0.000	0.03		5.3	SURCHARGED
21.000	83	99.030	-0.070	0.000	0.56		15.0	OK
21.001	84	98.237	-0.163	0.000	0.17		18.0	OK
22.000	85	97.788	-0.034	0.000	0.95		16.3	OK
12.012	55	97.370	-0.057	0.000	0.91		39.0	OK
12.013	56	97.273	-0.059	0.000	0.89		44.2	OK
12.014	57	96.429	-0.493	0.000	0.15		57.8	OK
23.000	86	98.239	-0.104	0.000	0.20		6.5	OK
23.001	87	96.429	-0.537	0.000	0.06		37.7	OK
24.000	POND2	96.429	-0.476	0.000	0.00		0.0	OK
12.015	58	96.429	0.129	0.000	0.02		5.9	SURCHARGED
25.000	89	98.946	-0.119	0.000	0.45		39.1	OK
25.001	90	97.862	-0.109	0.000	0.53		39.2	OK
25.002	91	97.534	-0.111	0.000	0.71		68.8	OK
25.003	92	97.224	-0.216	0.000	0.17		68.9	OK
25.004	93	92.947	-1.257	0.000	0.00		61.7	OK

©1982-2015 XP Solutions

Summary of Results for 30 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	92.947	0.792	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 60 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.701	-0.116	0.000	0.12		4.3	OK
1.001	2	110.464	-0.142	0.000	0.29		30.1	OK
2.000	21	110.296	-0.104	0.000	0.76		92.8	OK
2.001	22	109.968	-0.182	0.000	0.33		98.5	OK
1.002	3	108.515	-0.160	0.000	0.44		133.4	OK
3.000	23	107.553	-0.153	0.000	0.23		10.5	OK
3.001	24	107.409	-0.122	0.000	0.43		24.4	OK
1.003	4	106.898	-0.145	0.000	0.53		165.0	OK
1.004	5	104.376	-0.242	0.000	0.43		170.8	OK
4.000	25	106.216	-0.132	0.000	0.03		1.3	OK
1.005	6	103.794	-0.334	0.000	0.28		181.5	OK
1.006	7	103.039	-0.312	0.000	0.34		198.2	OK
1.007	8	102.371	-0.365	0.000	0.32		207.4	OK
5.000	26	108.183	-0.117	0.000	0.68		108.9	OK
6.000	29	109.179	-0.118	0.000	0.10		3.8	OK
5.001	27	107.728	-0.169	0.000	0.40		125.8	OK
7.000	30	104.330	-0.270	0.000	0.47		211.0	OK
7.001	31	103.565	-0.352	0.000	0.36		215.9	OK
5.002	28	103.078	-0.316	0.000	0.45		377.7	OK
1.008	9	102.326	0.000	0.000	1.02		579.8	OK
1.009	10	101.759	-0.365	0.000	0.43		585.6	OK
8.000	32	100.259	-0.337	0.000	0.02		4.1	OK
1.010	11	99.810	-0.212	0.000	0.80		598.1	OK
9.000	33	100.605	-0.095	0.000	0.29		8.1	OK
9.001	34	100.171	-0.129	0.000	0.38		18.2	OK
9.002	35	99.883	-0.154	0.000	0.22		18.6	OK
1.011	12	99.332	-0.341	0.000	0.48		643.1	OK
1.012	13	97.988	-0.083	0.000	0.76		650.6	OK
1.013	14	97.722	0.104	0.000	1.95		652.7	SURCHARGED
1.014	15	97.154	-0.434	0.000	0.38		677.5	OK
1.015	16	95.939	-0.331	0.000	0.60		678.6	OK
1.016	17	95.320	-0.434	0.000	0.37		687.6	OK
1.017	18	93.932	-0.437	0.000	0.36		693.8	OK
10.000	36	98.318	-0.107	0.000	0.18		6.4	OK
11.000	40	97.976	-0.112	0.000	0.14		7.0	OK
11.001	41	97.167	-0.154	0.000	0.22		11.2	OK
11.002	42	96.982	-0.136	0.000	0.32		17.3	OK
10.001	37	96.504	-0.212	0.000	0.19		32.6	OK
10.002	38	95.098	-0.218	0.000	0.17		45.6	OK
10.003	39	93.827	-0.196	0.000	0.26		45.7	OK
10.004	94	93.126	-1.056	0.000	0.00		41.8	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	110.022	-0.097	0.000	0.28		10.2	OK

©1982-2015 XP Solutions

Summary of Results for 60 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.599	-0.084	0.000	0.40		11.9	OK
12.003	46	107.683	-0.063	0.000	0.63		11.9	OK
12.004	47	107.425	-0.154	0.000	0.22		20.7	OK
13.000	59	107.084	-0.063	0.000	0.64		11.3	OK
13.001	60	106.691	-0.055	0.000	0.72		11.3	OK
12.005	48	106.431	-0.222	0.000	0.15		36.7	OK
12.006	49	104.446	-0.208	0.000	0.20		50.9	OK
14.000	61	107.542	-0.116	0.000	0.12		4.3	OK
14.001	62	106.820	-0.066	0.000	0.59		23.3	OK
14.002	63	105.533	-0.148	0.000	0.25		27.0	OK
14.003	64	104.453	-0.134	0.000	0.34		35.7	OK
14.004	65	103.019	-0.110	0.000	0.71		57.6	OK
12.007	50	102.725	-0.171	0.000	0.38		109.0	OK
12.008	51	100.925	-0.321	0.000	0.18		123.4	OK
12.009	52	98.731	-0.210	0.000	0.55		126.9	OK
15.000	66	106.372	-0.103	0.000	0.22		7.5	OK
15.001	67	104.945	-0.141	0.000	0.30		30.0	OK
15.002	68	102.376	-0.210	0.000	0.20		36.3	OK
15.003	69	101.843	-0.193	0.000	0.27		58.6	OK
16.000	74	101.622	-0.178	0.000	0.10		5.3	OK
16.001	75	101.193	-0.327	0.000	0.17		77.0	OK
17.000	77	101.084	-0.132	0.000	0.04		0.6	OK
17.001	78	100.987	-0.107	0.000	0.18		5.1	OK
16.002	76	100.566	-0.276	0.000	0.31		99.1	OK
15.004	70	99.993	-0.262	0.000	0.36		165.7	OK
15.005	71	98.899	-0.380	0.000	0.29		167.9	OK
18.000	79	99.695	-0.112	0.000	0.14		4.3	OK
19.000	81	99.378	-0.132	0.000	0.03		1.0	OK
18.001	80	98.544	-0.699	0.000	0.01		7.0	OK
15.006	72	98.544	-0.615	0.000	0.17		190.7	OK
15.007	73	98.507	-0.473	0.000	0.21		196.8	OK
12.010	53	98.494	-0.430	0.000	0.32		313.5	OK
20.000	POND1	98.303	-0.552	0.000	0.00		0.0	OK
12.011	54	98.465	0.365	0.000	0.03		5.0	SURCHARGED
21.000	83	99.015	-0.085	0.000	0.39		10.3	OK
21.001	84	98.226	-0.174	0.000	0.12		12.5	OK
22.000	85	97.761	-0.061	0.000	0.65		11.2	OK
12.012	55	97.337	-0.090	0.000	0.67		28.6	OK
12.013	56	97.239	-0.093	0.000	0.65		32.1	OK
12.014	57	96.520	-0.402	0.000	0.11		42.1	OK
23.000	86	98.230	-0.113	0.000	0.14		4.3	OK
23.001	87	96.519	-0.447	0.000	0.04		25.8	OK
24.000	POND2	96.519	-0.386	0.000	0.00		0.0	OK
12.015	58	96.519	0.219	0.000	0.02		6.0	SURCHARGED
25.000	89	98.926	-0.139	0.000	0.31		26.5	OK
25.001	90	97.839	-0.132	0.000	0.36		26.6	OK
25.002	91	97.492	-0.153	0.000	0.48		46.6	OK
25.003	92	97.208	-0.232	0.000	0.12		46.4	OK
25.004	93	93.126	-1.078	0.000	0.00		42.5	OK

©1982-2015 XP Solutions

Summary of Results for 60 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.126	0.971	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 120 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.694	-0.123	0.000	0.07		2.7	OK
1.001	2	110.448	-0.158	0.000	0.19		19.7	OK
2.000	21	110.246	-0.154	0.000	0.48		58.6	OK
2.001	22	109.943	-0.207	0.000	0.21		62.6	OK
1.002	3	108.484	-0.191	0.000	0.29		85.9	OK
3.000	23	107.538	-0.168	0.000	0.15		6.8	OK
3.001	24	107.387	-0.144	0.000	0.28		16.1	OK
1.003	4	106.864	-0.179	0.000	0.34		107.0	OK
1.004	5	104.330	-0.288	0.000	0.28		110.5	OK
4.000	25	106.216	-0.132	0.000	0.04		1.4	OK
1.005	6	103.755	-0.373	0.000	0.18		118.1	OK
1.006	7	102.994	-0.357	0.000	0.22		129.1	OK
1.007	8	102.322	-0.414	0.000	0.21		135.4	OK
5.000	26	108.138	-0.162	0.000	0.43		68.7	OK
6.000	29	109.173	-0.124	0.000	0.07		2.6	OK
5.001	27	107.699	-0.198	0.000	0.25		80.0	OK
7.000	30	104.273	-0.327	0.000	0.30		134.8	OK
7.001	31	103.512	-0.405	0.000	0.23		138.9	OK
5.002	28	103.015	-0.379	0.000	0.29		242.3	OK
1.008	9	102.057	-0.269	0.000	0.67		381.1	OK
1.009	10	101.692	-0.432	0.000	0.28		384.6	OK
8.000	32	100.246	-0.350	0.000	0.01		2.6	OK
1.010	11	99.695	-0.327	0.000	0.52		391.4	OK
9.000	33	100.595	-0.105	0.000	0.19		5.5	OK
9.001	34	100.151	-0.149	0.000	0.25		12.1	OK
9.002	35	99.869	-0.168	0.000	0.15		12.5	OK
1.011	12	99.259	-0.414	0.000	0.32		421.8	OK
1.012	13	97.735	-0.336	0.000	0.50		425.0	OK
1.013	14	97.618	0.000	0.000	1.27		426.2	OK
1.014	15	97.091	-0.497	0.000	0.25		443.6	OK
1.015	16	95.849	-0.421	0.000	0.40		444.7	OK
1.016	17	95.256	-0.498	0.000	0.25		451.7	OK
1.017	18	93.868	-0.501	0.000	0.24		456.4	OK
10.000	36	98.310	-0.115	0.000	0.12		4.3	OK
11.000	40	97.969	-0.119	0.000	0.10		4.8	OK
11.001	41	97.153	-0.168	0.000	0.14		7.4	OK
11.002	42	96.966	-0.152	0.000	0.23		12.2	OK
10.001	37	96.487	-0.229	0.000	0.13		22.0	OK
10.002	38	95.083	-0.233	0.000	0.11		30.6	OK
10.003	39	93.807	-0.216	0.000	0.17		30.8	OK
10.004	94	93.313	-0.869	0.000	0.00		28.3	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	110.012	-0.107	0.000	0.18		6.7	OK

©1982-2015 XP Solutions

Summary of Results for 120 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.585	-0.098	0.000	0.26		7.8	OK
12.003	46	107.663	-0.083	0.000	0.41		7.8	OK
12.004	47	107.410	-0.169	0.000	0.14		13.2	OK
13.000	59	107.065	-0.082	0.000	0.42		7.5	OK
13.001	60	106.669	-0.077	0.000	0.48		7.5	OK
12.005	48	106.416	-0.237	0.000	0.10		23.9	OK
12.006	49	104.425	-0.229	0.000	0.13		32.8	OK
14.000	61	107.535	-0.123	0.000	0.08		2.7	OK
14.001	62	106.799	-0.087	0.000	0.37		14.5	OK
14.002	63	105.516	-0.165	0.000	0.16		16.9	OK
14.003	64	104.432	-0.155	0.000	0.21		22.5	OK
14.004	65	102.971	-0.158	0.000	0.45		36.7	OK
12.007	50	102.697	-0.199	0.000	0.25		70.5	OK
12.008	51	100.898	-0.348	0.000	0.12		79.6	OK
12.009	52	98.677	-0.264	0.000	0.36		82.4	OK
15.000	66	106.362	-0.113	0.000	0.14		4.9	OK
15.001	67	104.929	-0.157	0.000	0.20		20.0	OK
15.002	68	102.358	-0.228	0.000	0.13		24.5	OK
15.003	69	101.823	-0.213	0.000	0.19		39.9	OK
16.000	74	101.614	-0.186	0.000	0.07		3.7	OK
16.001	75	101.166	-0.354	0.000	0.10		48.3	OK
17.000	77	101.084	-0.132	0.000	0.03		0.6	OK
17.001	78	100.981	-0.113	0.000	0.14		3.9	OK
16.002	76	100.529	-0.313	0.000	0.20		63.7	OK
15.004	70	99.954	-0.301	0.000	0.24		110.8	OK
15.005	71	98.856	-0.423	0.000	0.19		112.3	OK
18.000	79	99.689	-0.118	0.000	0.10		3.0	OK
19.000	81	99.378	-0.132	0.000	0.03		1.0	OK
18.001	80	98.450	-0.793	0.000	0.01		5.6	OK
15.006	72	98.450	-0.709	0.000	0.12		132.2	OK
15.007	73	98.399	-0.581	0.000	0.15		141.4	OK
12.010	53	98.397	-0.527	0.000	0.23		223.2	OK
20.000	POND1	98.396	-0.459	0.000	0.00		0.5	OK
12.011	54	98.397	0.297	0.000	0.03		4.7	SURCHARGED
21.000	83	99.002	-0.098	0.000	0.26		7.0	OK
21.001	84	98.218	-0.182	0.000	0.08		8.7	OK
22.000	85	97.741	-0.081	0.000	0.43		7.4	OK
12.012	55	97.312	-0.115	0.000	0.48		20.7	OK
12.013	56	97.214	-0.118	0.000	0.46		22.9	OK
12.014	57	96.588	-0.334	0.000	0.08		29.7	OK
23.000	86	98.222	-0.121	0.000	0.09		2.7	OK
23.001	87	96.587	-0.379	0.000	0.02		16.5	OK
24.000	POND2	96.587	-0.318	0.000	0.00		0.8	OK
12.015	58	96.587	0.287	0.000	0.02		6.4	SURCHARGED
25.000	89	98.908	-0.157	0.000	0.20		17.3	OK
25.001	90	97.820	-0.151	0.000	0.24		17.5	OK
25.002	91	97.460	-0.185	0.000	0.31		30.5	OK
25.003	92	97.195	-0.245	0.000	0.08		30.5	OK
25.004	93	93.312	-0.892	0.000	0.00		27.9	OK

©1982-2015 XP Solutions

Summary of Results for 120 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.313	1.158	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 180 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.690	-0.127	0.000	0.05		2.1	OK
1.001	2	110.439	-0.167	0.000	0.15		15.3	OK
2.000	21	110.224	-0.176	0.000	0.36		44.2	OK
2.001	22	109.929	-0.221	0.000	0.16		47.5	OK
1.002	3	108.470	-0.205	0.000	0.22		65.6	OK
3.000	23	107.531	-0.175	0.000	0.11		5.1	OK
3.001	24	107.377	-0.154	0.000	0.22		12.5	OK
1.003	4	106.847	-0.196	0.000	0.26		82.3	OK
1.004	5	104.309	-0.309	0.000	0.22		84.9	OK
4.000	25	106.216	-0.132	0.000	0.04		1.4	OK
1.005	6	103.734	-0.394	0.000	0.14		91.5	OK
1.006	7	102.972	-0.379	0.000	0.17		99.9	OK
1.007	8	102.298	-0.438	0.000	0.16		104.9	OK
5.000	26	108.118	-0.182	0.000	0.33		51.8	OK
6.000	29	109.169	-0.128	0.000	0.05		2.0	OK
5.001	27	107.686	-0.211	0.000	0.19		60.6	OK
7.000	30	104.244	-0.356	0.000	0.23		101.3	OK
7.001	31	103.485	-0.432	0.000	0.17		105.5	OK
5.002	28	102.985	-0.409	0.000	0.22		184.0	OK
1.008	9	101.994	-0.332	0.000	0.51		291.5	OK
1.009	10	101.660	-0.464	0.000	0.21		294.2	OK
8.000	32	100.240	-0.356	0.000	0.01		2.0	OK
1.010	11	99.644	-0.378	0.000	0.40		299.4	OK
9.000	33	100.588	-0.112	0.000	0.15		4.1	OK
9.001	34	100.142	-0.158	0.000	0.20		9.4	OK
9.002	35	99.862	-0.175	0.000	0.11		9.7	OK
1.011	12	99.223	-0.450	0.000	0.24		323.0	OK
1.012	13	97.685	-0.386	0.000	0.38		326.2	OK
1.013	14	97.461	-0.157	0.000	0.98		328.1	OK
1.014	15	97.058	-0.530	0.000	0.19		341.5	OK
1.015	16	95.803	-0.467	0.000	0.31		343.1	OK
1.016	17	95.224	-0.530	0.000	0.19		348.7	OK
1.017	18	93.835	-0.534	0.000	0.18		352.5	OK
10.000	36	98.306	-0.119	0.000	0.09		3.3	OK
11.000	40	97.965	-0.123	0.000	0.07		3.6	OK
11.001	41	97.145	-0.176	0.000	0.11		5.6	OK
11.002	42	96.955	-0.163	0.000	0.17		9.1	OK
10.001	37	96.478	-0.238	0.000	0.10		16.6	OK
10.002	38	95.075	-0.241	0.000	0.09		23.4	OK
10.003	39	93.795	-0.228	0.000	0.13		23.6	OK
10.004	94	93.414	-0.768	0.000	0.00		21.7	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	110.006	-0.113	0.000	0.14		5.0	OK

©1982-2015 XP Solutions

Summary of Results for 180 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.578	-0.105	0.000	0.20		5.9	OK
12.003	46	107.653	-0.093	0.000	0.31		5.9	OK
12.004	47	107.403	-0.176	0.000	0.11		10.0	OK
13.000	59	107.055	-0.092	0.000	0.32		5.6	OK
13.001	60	106.658	-0.088	0.000	0.36		5.6	OK
12.005	48	106.406	-0.247	0.000	0.07		18.0	OK
12.006	49	104.417	-0.237	0.000	0.10		24.7	OK
14.000	61	107.531	-0.127	0.000	0.06		2.1	OK
14.001	62	106.790	-0.096	0.000	0.28		10.9	OK
14.002	63	105.508	-0.173	0.000	0.12		12.8	OK
14.003	64	104.422	-0.165	0.000	0.16		17.0	OK
14.004	65	102.950	-0.179	0.000	0.34		27.8	OK
12.007	50	102.684	-0.212	0.000	0.19		53.8	OK
12.008	51	100.886	-0.360	0.000	0.09		60.6	OK
12.009	52	98.651	-0.290	0.000	0.27		63.0	OK
15.000	66	106.358	-0.117	0.000	0.11		3.7	OK
15.001	67	104.919	-0.167	0.000	0.15		15.3	OK
15.002	68	102.350	-0.236	0.000	0.10		19.2	OK
15.003	69	101.812	-0.224	0.000	0.15		31.2	OK
16.000	74	101.611	-0.189	0.000	0.06		3.3	OK
16.001	75	101.154	-0.366	0.000	0.08		37.0	OK
17.000	77	101.081	-0.135	0.000	0.02		0.4	OK
17.001	78	100.976	-0.118	0.000	0.10		2.9	OK
16.002	76	100.509	-0.333	0.000	0.15		48.7	OK
15.004	70	99.936	-0.319	0.000	0.19		85.8	OK
15.005	71	98.832	-0.447	0.000	0.15		87.0	OK
18.000	79	99.686	-0.121	0.000	0.09		2.6	OK
19.000	81	99.378	-0.132	0.000	0.03		1.0	OK
18.001	80	98.440	-0.803	0.000	0.00		4.8	OK
15.006	72	98.440	-0.719	0.000	0.09		102.4	OK
15.007	73	98.441	-0.539	0.000	0.12		107.3	OK
12.010	53	98.441	-0.483	0.000	0.17		170.3	OK
20.000	POND1	98.440	-0.415	0.000	0.01		4.3	OK
12.011	54	98.440	0.340	0.000	0.03		4.9	SURCHARGED
21.000	83	98.996	-0.104	0.000	0.21		5.6	OK
21.001	84	98.213	-0.187	0.000	0.07		7.1	OK
22.000	85	97.733	-0.089	0.000	0.35		5.9	OK
12.012	55	97.301	-0.126	0.000	0.40		17.4	OK
12.013	56	97.204	-0.128	0.000	0.38		19.0	OK
12.014	57	96.621	-0.301	0.000	0.06		24.1	OK
23.000	86	98.218	-0.125	0.000	0.06		2.1	OK
23.001	87	96.620	-0.346	0.000	0.02		12.6	OK
24.000	POND2	96.620	-0.285	0.000	0.00		1.3	OK
12.015	58	96.620	0.320	0.000	0.02		6.6	SURCHARGED
25.000	89	98.899	-0.166	0.000	0.16		13.4	OK
25.001	90	97.811	-0.160	0.000	0.18		13.6	OK
25.002	91	97.445	-0.200	0.000	0.24		23.6	OK
25.003	92	97.187	-0.253	0.000	0.06		23.6	OK
25.004	93	93.414	-0.790	0.000	0.00		21.7	OK

©1982-2015 XP Solutions

Summary of Results for 180 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.414	1.259	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 240 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.687	-0.130	0.000	0.04		1.7	OK
1.001	2	110.433	-0.173	0.000	0.12		12.4	OK
2.000	21	110.210	-0.190	0.000	0.29		35.6	OK
2.001	22	109.921	-0.229	0.000	0.13		38.2	OK
1.002	3	108.459	-0.216	0.000	0.18		52.8	OK
3.000	23	107.526	-0.180	0.000	0.09		4.2	OK
3.001	24	107.369	-0.162	0.000	0.18		10.1	OK
1.003	4	106.836	-0.207	0.000	0.21		66.2	OK
1.004	5	104.293	-0.325	0.000	0.17		68.3	OK
4.000	25	106.216	-0.132	0.000	0.03		1.3	OK
1.005	6	103.721	-0.407	0.000	0.11		73.6	OK
1.006	7	102.956	-0.395	0.000	0.14		80.6	OK
1.007	8	102.280	-0.456	0.000	0.13		84.7	OK
5.000	26	108.104	-0.196	0.000	0.26		41.7	OK
6.000	29	109.167	-0.130	0.000	0.04		1.6	OK
5.001	27	107.675	-0.222	0.000	0.15		48.8	OK
7.000	30	104.227	-0.373	0.000	0.18		82.0	OK
7.001	31	103.466	-0.451	0.000	0.14		85.2	OK
5.002	28	102.964	-0.430	0.000	0.18		148.6	OK
1.008	9	101.953	-0.373	0.000	0.41		235.5	OK
1.009	10	101.637	-0.487	0.000	0.17		237.8	OK
8.000	32	100.236	-0.360	0.000	0.01		1.6	OK
1.010	11	99.610	-0.412	0.000	0.32		242.0	OK
9.000	33	100.585	-0.115	0.000	0.12		3.4	OK
9.001	34	100.135	-0.165	0.000	0.16		7.6	OK
9.002	35	99.858	-0.179	0.000	0.09		7.9	OK
1.011	12	99.200	-0.473	0.000	0.20		261.1	OK
1.012	13	97.653	-0.418	0.000	0.31		263.5	OK
1.013	14	97.374	-0.244	0.000	0.79		264.4	OK
1.014	15	97.033	-0.555	0.000	0.15		275.1	OK
1.015	16	95.771	-0.499	0.000	0.25		276.0	OK
1.016	17	95.199	-0.555	0.000	0.15		280.5	OK
1.017	18	93.811	-0.558	0.000	0.15		283.5	OK
10.000	36	98.302	-0.123	0.000	0.08		2.7	OK
11.000	40	97.962	-0.126	0.000	0.06		3.0	OK
11.001	41	97.141	-0.180	0.000	0.09		4.6	OK
11.002	42	96.949	-0.169	0.000	0.14		7.6	OK
10.001	37	96.472	-0.244	0.000	0.08		13.7	OK
10.002	38	95.068	-0.248	0.000	0.07		19.1	OK
10.003	39	93.789	-0.234	0.000	0.11		19.3	OK
10.004	94	93.471	-0.711	0.000	0.00		17.8	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	110.002	-0.117	0.000	0.11		4.2	OK

©1982-2015 XP Solutions

Summary of Results for 240 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.573	-0.110	0.000	0.16		4.8	OK
12.003	46	107.647	-0.099	0.000	0.25		4.8	OK
12.004	47	107.398	-0.181	0.000	0.09		8.1	OK
13.000	59	107.049	-0.098	0.000	0.26		4.7	OK
13.001	60	106.652	-0.094	0.000	0.30		4.7	OK
12.005	48	106.400	-0.253	0.000	0.06		14.7	OK
12.006	49	104.410	-0.244	0.000	0.08		20.1	OK
14.000	61	107.528	-0.130	0.000	0.05		1.7	OK
14.001	62	106.784	-0.102	0.000	0.22		8.8	OK
14.002	63	105.503	-0.178	0.000	0.10		10.3	OK
14.003	64	104.416	-0.171	0.000	0.13		13.8	OK
14.004	65	102.936	-0.193	0.000	0.28		22.6	OK
12.007	50	102.674	-0.222	0.000	0.15		43.7	OK
12.008	51	100.875	-0.371	0.000	0.07		49.2	OK
12.009	52	98.634	-0.307	0.000	0.22		51.2	OK
15.000	66	106.355	-0.120	0.000	0.09		3.0	OK
15.001	67	104.913	-0.173	0.000	0.12		12.5	OK
15.002	68	102.344	-0.242	0.000	0.08		15.5	OK
15.003	69	101.804	-0.232	0.000	0.12		25.5	OK
16.000	74	101.607	-0.193	0.000	0.05		2.7	OK
16.001	75	101.144	-0.376	0.000	0.06		29.6	OK
17.000	77	101.081	-0.135	0.000	0.02		0.4	OK
17.001	78	100.974	-0.120	0.000	0.09		2.4	OK
16.002	76	100.497	-0.345	0.000	0.12		39.1	OK
15.004	70	99.921	-0.334	0.000	0.15		69.6	OK
15.005	71	98.816	-0.463	0.000	0.12		70.7	OK
18.000	79	99.683	-0.124	0.000	0.07		2.0	OK
19.000	81	99.378	-0.132	0.000	0.03		1.0	OK
18.001	80	98.472	-0.771	0.000	0.00		3.9	OK
15.006	72	98.472	-0.687	0.000	0.07		83.2	OK
15.007	73	98.472	-0.508	0.000	0.09		86.6	OK
12.010	53	98.471	-0.453	0.000	0.14		138.0	OK
20.000	POND1	98.471	-0.384	0.000	0.01		4.3	OK
12.011	54	98.471	0.371	0.000	0.03		5.0	SURCHARGED
21.000	83	98.991	-0.109	0.000	0.17		4.5	OK
21.001	84	98.208	-0.192	0.000	0.05		5.7	OK
22.000	85	97.725	-0.097	0.000	0.28		4.7	OK
12.012	55	97.293	-0.134	0.000	0.34		14.8	OK
12.013	56	97.195	-0.137	0.000	0.33		16.1	OK
12.014	57	96.639	-0.283	0.000	0.05		20.4	OK
23.000	86	98.215	-0.128	0.000	0.05		1.7	OK
23.001	87	96.639	-0.327	0.000	0.02		10.3	OK
24.000	POND2	96.639	-0.266	0.000	0.00		1.3	OK
12.015	58	96.639	0.339	0.000	0.02		6.6	SURCHARGED
25.000	89	98.893	-0.172	0.000	0.13		10.8	OK
25.001	90	97.803	-0.168	0.000	0.15		11.0	OK
25.002	91	97.435	-0.210	0.000	0.20		19.1	OK
25.003	92	97.182	-0.258	0.000	0.05		19.1	OK
25.004	93	93.471	-0.733	0.000	0.00		17.6	OK

©1982-2015 XP Solutions

Summary of Results for 240 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.471	1.316	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 360 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.685	-0.132	0.000	0.03		1.2	OK
1.001	2	110.426	-0.180	0.000	0.09		9.2	OK
2.000	21	110.193	-0.207	0.000	0.21		26.1	OK
2.001	22	109.911	-0.239	0.000	0.09		27.8	OK
1.002	3	108.446	-0.229	0.000	0.13		38.1	OK
3.000	23	107.517	-0.189	0.000	0.06		2.9	OK
3.001	24	107.360	-0.171	0.000	0.13		7.4	OK
1.003	4	106.821	-0.222	0.000	0.15		48.1	OK
1.004	5	104.274	-0.344	0.000	0.13		49.7	OK
4.000	25	106.216	-0.132	0.000	0.03		1.3	OK
1.005	6	103.704	-0.424	0.000	0.08		53.3	OK
1.006	7	102.936	-0.415	0.000	0.10		57.5	OK
1.007	8	102.259	-0.477	0.000	0.09		60.5	OK
5.000	26	108.089	-0.211	0.000	0.19		30.6	OK
6.000	29	109.165	-0.132	0.000	0.03		1.2	OK
5.001	27	107.664	-0.233	0.000	0.11		35.7	OK
7.000	30	104.203	-0.397	0.000	0.14		60.2	OK
7.001	31	103.445	-0.472	0.000	0.10		62.6	OK
5.002	28	102.938	-0.456	0.000	0.13		108.9	OK
1.008	9	101.903	-0.423	0.000	0.30		171.1	OK
1.009	10	101.607	-0.517	0.000	0.13		172.6	OK
8.000	32	100.232	-0.364	0.000	0.01		1.2	OK
1.010	11	99.568	-0.454	0.000	0.23		175.8	OK
9.000	33	100.577	-0.123	0.000	0.07		2.1	OK
9.001	34	100.124	-0.176	0.000	0.11		5.3	OK
9.002	35	99.848	-0.189	0.000	0.06		5.3	OK
1.011	12	99.166	-0.507	0.000	0.14		189.0	OK
1.012	13	97.611	-0.460	0.000	0.22		190.9	OK
1.013	14	97.275	-0.343	0.000	0.57		191.8	OK
1.014	15	97.004	-0.584	0.000	0.11		199.7	OK
1.015	16	95.732	-0.538	0.000	0.18		200.5	OK
1.016	17	95.169	-0.585	0.000	0.11		203.7	OK
1.017	18	93.783	-0.586	0.000	0.11		206.0	OK
10.000	36	98.296	-0.129	0.000	0.05		1.7	OK
11.000	40	97.957	-0.131	0.000	0.04		1.8	OK
11.001	41	97.131	-0.190	0.000	0.06		3.0	OK
11.002	42	96.936	-0.182	0.000	0.08		4.4	OK
10.001	37	96.459	-0.257	0.000	0.05		8.6	OK
10.002	38	95.057	-0.259	0.000	0.05		12.7	OK
10.003	39	93.776	-0.247	0.000	0.07		12.9	OK
10.004	94	93.504	-0.678	0.000	0.00		11.9	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	109.995	-0.124	0.000	0.07		2.7	OK

©1982-2015 XP Solutions

Summary of Results for 360 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.565	-0.118	0.000	0.11		3.2	OK
12.003	46	107.637	-0.109	0.000	0.17		3.2	OK
12.004	47	107.389	-0.190	0.000	0.06		5.6	OK
13.000	59	107.038	-0.109	0.000	0.17		3.0	OK
13.001	60	106.640	-0.106	0.000	0.19		3.0	OK
12.005	48	106.392	-0.261	0.000	0.04		10.0	OK
12.006	49	104.399	-0.255	0.000	0.06		13.9	OK
14.000	61	107.526	-0.132	0.000	0.03		1.2	OK
14.001	62	106.776	-0.110	0.000	0.16		6.4	OK
14.002	63	105.495	-0.186	0.000	0.07		7.4	OK
14.003	64	104.408	-0.179	0.000	0.09		9.8	OK
14.004	65	102.918	-0.211	0.000	0.20		15.8	OK
12.007	50	102.661	-0.235	0.000	0.11		30.8	OK
12.008	51	100.861	-0.385	0.000	0.05		34.8	OK
12.009	52	98.609	-0.332	0.000	0.16		35.7	OK
15.000	66	106.348	-0.127	0.000	0.06		2.0	OK
15.001	67	104.904	-0.182	0.000	0.08		8.4	OK
15.002	68	102.333	-0.253	0.000	0.06		10.8	OK
15.003	69	101.792	-0.244	0.000	0.08		16.9	OK
16.000	74	101.603	-0.197	0.000	0.04		2.0	OK
16.001	75	101.132	-0.388	0.000	0.05		21.9	OK
17.000	77	101.079	-0.137	0.000	0.02		0.3	OK
17.001	78	100.967	-0.127	0.000	0.06		1.6	OK
16.002	76	100.482	-0.360	0.000	0.09		28.0	OK
15.004	70	99.901	-0.354	0.000	0.10		47.4	OK
15.005	71	98.793	-0.486	0.000	0.08		47.9	OK
18.000	79	99.679	-0.128	0.000	0.05		1.6	OK
19.000	81	99.378	-0.132	0.000	0.03		1.0	OK
18.001	80	98.500	-0.743	0.000	0.00		2.6	OK
15.006	72	98.500	-0.659	0.000	0.05		56.7	OK
15.007	73	98.500	-0.480	0.000	0.06		57.9	OK
12.010	53	98.500	-0.424	0.000	0.10		93.7	OK
20.000	POND1	98.499	-0.356	0.000	0.01		4.4	OK
12.011	54	98.500	0.400	0.000	0.03		5.1	SURCHARGED
21.000	83	98.984	-0.116	0.000	0.12		3.1	OK
21.001	84	98.203	-0.197	0.000	0.04		3.8	OK
22.000	85	97.717	-0.105	0.000	0.20		3.4	OK
12.012	55	97.281	-0.146	0.000	0.27		11.6	OK
12.013	56	97.184	-0.148	0.000	0.25		12.6	OK
12.014	57	96.644	-0.278	0.000	0.04		15.4	OK
23.000	86	98.212	-0.131	0.000	0.04		1.2	OK
23.001	87	96.644	-0.322	0.000	0.01		7.0	OK
24.000	POND2	96.644	-0.261	0.000	0.00		1.3	OK
12.015	58	96.644	0.344	0.000	0.02		6.7	SURCHARGED
25.000	89	98.885	-0.180	0.000	0.09		7.6	OK
25.001	90	97.795	-0.176	0.000	0.11		7.8	OK
25.002	91	97.419	-0.226	0.000	0.14		13.5	OK
25.003	92	97.176	-0.264	0.000	0.03		13.5	OK
25.004	93	93.504	-0.700	0.000	0.00		12.5	OK

©1982-2015 XP Solutions

Summary of Results for 360 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.504	1.349	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 480 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.683	-0.134	0.000	0.03		1.0	OK
1.001	2	110.420	-0.186	0.000	0.07		7.1	OK
2.000	21	110.183	-0.217	0.000	0.17		20.9	OK
2.001	22	109.904	-0.246	0.000	0.07		22.3	OK
1.002	3	108.439	-0.236	0.000	0.10		30.6	OK
3.000	23	107.513	-0.193	0.000	0.05		2.3	OK
3.001	24	107.354	-0.177	0.000	0.10		5.9	OK
1.003	4	106.812	-0.231	0.000	0.12		38.3	OK
1.004	5	104.263	-0.355	0.000	0.10		39.6	OK
4.000	25	106.216	-0.132	0.000	0.03		1.3	OK
1.005	6	103.690	-0.438	0.000	0.07		42.2	OK
1.006	7	102.924	-0.427	0.000	0.08		45.6	OK
1.007	8	102.244	-0.492	0.000	0.07		47.9	OK
5.000	26	108.078	-0.222	0.000	0.15		24.5	OK
6.000	29	109.162	-0.135	0.000	0.02		0.8	OK
5.001	27	107.657	-0.240	0.000	0.09		28.6	OK
7.000	30	104.190	-0.410	0.000	0.11		48.3	OK
7.001	31	103.432	-0.485	0.000	0.08		50.0	OK
5.002	28	102.923	-0.471	0.000	0.10		87.0	OK
1.008	9	101.874	-0.452	0.000	0.24		136.2	OK
1.009	10	101.591	-0.533	0.000	0.10		137.4	OK
8.000	32	100.230	-0.366	0.000	0.00		0.9	OK
1.010	11	99.543	-0.479	0.000	0.19		140.0	OK
9.000	33	100.573	-0.127	0.000	0.06		1.7	OK
9.001	34	100.119	-0.181	0.000	0.09		4.1	OK
9.002	35	99.844	-0.193	0.000	0.05		4.1	OK
1.011	12	99.148	-0.525	0.000	0.11		150.4	OK
1.012	13	97.587	-0.484	0.000	0.18		152.0	OK
1.013	14	97.222	-0.396	0.000	0.46		152.5	OK
1.014	15	96.988	-0.600	0.000	0.09		158.9	OK
1.015	16	95.707	-0.563	0.000	0.14		159.5	OK
1.016	17	95.153	-0.601	0.000	0.09		162.0	OK
1.017	18	93.766	-0.603	0.000	0.09		163.8	OK
10.000	36	98.294	-0.131	0.000	0.04		1.4	OK
11.000	40	97.955	-0.133	0.000	0.03		1.5	OK
11.001	41	97.127	-0.194	0.000	0.05		2.4	OK
11.002	42	96.930	-0.188	0.000	0.07		3.5	OK
10.001	37	96.454	-0.262	0.000	0.04		6.9	OK
10.002	38	95.053	-0.263	0.000	0.04		10.1	OK
10.003	39	93.769	-0.254	0.000	0.06		10.3	OK
10.004	94	93.504	-0.678	0.000	0.00		9.5	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	109.992	-0.127	0.000	0.06		2.1	OK

©1982-2015 XP Solutions

Summary of Results for 480 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.562	-0.121	0.000	0.08		2.5	OK
12.003	46	107.632	-0.114	0.000	0.13		2.5	OK
12.004	47	107.385	-0.194	0.000	0.05		4.5	OK
13.000	59	107.033	-0.114	0.000	0.14		2.4	OK
13.001	60	106.635	-0.111	0.000	0.15		2.4	OK
12.005	48	106.388	-0.265	0.000	0.03		8.0	OK
12.006	49	104.394	-0.260	0.000	0.04		11.2	OK
14.000	61	107.524	-0.134	0.000	0.03		1.0	OK
14.001	62	106.772	-0.114	0.000	0.13		5.2	OK
14.002	63	105.490	-0.191	0.000	0.06		6.0	OK
14.003	64	104.402	-0.185	0.000	0.07		7.9	OK
14.004	65	102.908	-0.221	0.000	0.16		12.7	OK
12.007	50	102.655	-0.241	0.000	0.09		24.5	OK
12.008	51	100.854	-0.392	0.000	0.04		27.7	OK
12.009	52	98.596	-0.345	0.000	0.12		28.5	OK
15.000	66	106.346	-0.129	0.000	0.05		1.6	OK
15.001	67	104.899	-0.187	0.000	0.07		6.7	OK
15.002	68	102.327	-0.259	0.000	0.05		8.5	OK
15.003	69	101.784	-0.252	0.000	0.06		13.3	OK
16.000	74	101.601	-0.199	0.000	0.03		1.6	OK
16.001	75	101.126	-0.394	0.000	0.04		17.3	OK
17.000	77	101.079	-0.137	0.000	0.02		0.3	OK
17.001	78	100.967	-0.127	0.000	0.06		1.6	OK
16.002	76	100.470	-0.372	0.000	0.07		22.2	OK
15.004	70	99.890	-0.365	0.000	0.08		37.4	OK
15.005	71	98.777	-0.502	0.000	0.06		37.8	OK
18.000	79	99.677	-0.130	0.000	0.04		1.3	OK
19.000	81	99.378	-0.132	0.000	0.03		1.0	OK
18.001	80	98.515	-0.728	0.000	0.00		2.2	OK
15.006	72	98.515	-0.644	0.000	0.04		44.4	OK
15.007	73	98.515	-0.465	0.000	0.05		44.9	OK
12.010	53	98.515	-0.409	0.000	0.07		73.4	OK
20.000	POND1	98.515	-0.340	0.000	0.01		4.5	OK
12.011	54	98.515	0.415	0.000	0.03		5.1	SURCHARGED
21.000	83	98.980	-0.120	0.000	0.09		2.4	OK
21.001	84	98.200	-0.200	0.000	0.03		3.0	OK
22.000	85	97.711	-0.111	0.000	0.15		2.7	OK
12.012	55	97.275	-0.152	0.000	0.23		9.9	OK
12.013	56	97.178	-0.154	0.000	0.22		10.7	OK
12.014	57	96.639	-0.283	0.000	0.03		13.0	OK
23.000	86	98.210	-0.133	0.000	0.03		1.0	OK
23.001	87	96.639	-0.327	0.000	0.01		5.6	OK
24.000	POND2	96.639	-0.266	0.000	0.00		1.2	OK
12.015	58	96.639	0.339	0.000	0.02		6.6	SURCHARGED
25.000	89	98.879	-0.186	0.000	0.07		6.0	OK
25.001	90	97.789	-0.182	0.000	0.08		6.2	OK
25.002	91	97.411	-0.234	0.000	0.11		10.6	OK
25.003	92	97.172	-0.268	0.000	0.03		10.6	OK
25.004	93	93.504	-0.700	0.000	0.00		9.9	OK

©1982-2015 XP Solutions

Summary of Results for 480 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.504	1.349	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 600 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.682	-0.135	0.000	0.02		0.8	OK
1.001	2	110.415	-0.191	0.000	0.06		5.7	OK
2.000	21	110.175	-0.225	0.000	0.14		17.6	OK
2.001	22	109.898	-0.252	0.000	0.06		18.7	OK
1.002	3	108.433	-0.242	0.000	0.08		25.3	OK
3.000	23	107.510	-0.196	0.000	0.04		1.9	OK
3.001	24	107.349	-0.182	0.000	0.08		4.7	OK
1.003	4	106.806	-0.237	0.000	0.10		31.3	OK
1.004	5	104.254	-0.364	0.000	0.08		32.3	OK
4.000	25	106.216	-0.132	0.000	0.03		1.3	OK
1.005	6	103.681	-0.447	0.000	0.05		34.1	OK
1.006	7	102.912	-0.439	0.000	0.06		36.9	OK
1.007	8	102.231	-0.505	0.000	0.06		38.6	OK
5.000	26	108.071	-0.229	0.000	0.13		20.7	OK
6.000	29	109.159	-0.138	0.000	0.02		0.7	OK
5.001	27	107.651	-0.246	0.000	0.08		23.9	OK
7.000	30	104.181	-0.419	0.000	0.09		40.7	OK
7.001	31	103.419	-0.498	0.000	0.07		41.7	OK
5.002	28	102.913	-0.481	0.000	0.09		72.4	OK
1.008	9	101.854	-0.472	0.000	0.20		111.9	OK
1.009	10	101.578	-0.546	0.000	0.08		112.9	OK
8.000	32	100.228	-0.368	0.000	0.00		0.8	OK
1.010	11	99.523	-0.499	0.000	0.15		115.0	OK
9.000	33	100.571	-0.129	0.000	0.05		1.4	OK
9.001	34	100.113	-0.187	0.000	0.07		3.3	OK
9.002	35	99.840	-0.197	0.000	0.04		3.3	OK
1.011	12	99.136	-0.537	0.000	0.09		123.5	OK
1.012	13	97.567	-0.504	0.000	0.15		124.4	OK
1.013	14	97.185	-0.433	0.000	0.37		124.7	OK
1.014	15	96.970	-0.618	0.000	0.07		130.1	OK
1.015	16	95.689	-0.581	0.000	0.12		130.5	OK
1.016	17	95.136	-0.618	0.000	0.07		132.5	OK
1.017	18	93.749	-0.620	0.000	0.07		134.0	OK
10.000	36	98.293	-0.132	0.000	0.03		1.2	OK
11.000	40	97.954	-0.134	0.000	0.03		1.2	OK
11.001	41	97.125	-0.196	0.000	0.04		2.0	OK
11.002	42	96.928	-0.190	0.000	0.06		3.1	OK
10.001	37	96.451	-0.265	0.000	0.03		5.8	OK
10.002	38	95.050	-0.266	0.000	0.03		8.3	OK
10.003	39	93.765	-0.258	0.000	0.05		8.4	OK
10.004	94	93.485	-0.697	0.000	0.00		7.7	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	109.990	-0.129	0.000	0.05		1.8	OK

©1982-2015 XP Solutions

Summary of Results for 600 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.559	-0.124	0.000	0.07		2.1	OK
12.003	46	107.629	-0.117	0.000	0.11		2.1	OK
12.004	47	107.383	-0.196	0.000	0.04		3.8	OK
13.000	59	107.031	-0.116	0.000	0.11		2.0	OK
13.001	60	106.631	-0.115	0.000	0.13		2.0	OK
12.005	48	106.386	-0.267	0.000	0.03		6.7	OK
12.006	49	104.391	-0.263	0.000	0.04		9.4	OK
14.000	61	107.523	-0.135	0.000	0.02		0.8	OK
14.001	62	106.769	-0.117	0.000	0.11		4.4	OK
14.002	63	105.487	-0.194	0.000	0.05		5.0	OK
14.003	64	104.398	-0.189	0.000	0.06		6.6	OK
14.004	65	102.901	-0.228	0.000	0.13		10.7	OK
12.007	50	102.648	-0.248	0.000	0.07		20.1	OK
12.008	51	100.849	-0.397	0.000	0.03		22.8	OK
12.009	52	98.587	-0.354	0.000	0.10		23.4	OK
15.000	66	106.344	-0.131	0.000	0.04		1.4	OK
15.001	67	104.895	-0.191	0.000	0.05		5.5	OK
15.002	68	102.323	-0.263	0.000	0.04		6.7	OK
15.003	69	101.778	-0.258	0.000	0.05		10.6	OK
16.000	74	101.597	-0.203	0.000	0.02		1.1	OK
16.001	75	101.121	-0.399	0.000	0.03		14.3	OK
17.000	77	101.079	-0.137	0.000	0.02		0.3	OK
17.001	78	100.966	-0.128	0.000	0.05		1.5	OK
16.002	76	100.462	-0.380	0.000	0.06		18.2	OK
15.004	70	99.880	-0.375	0.000	0.07		30.0	OK
15.005	71	98.766	-0.513	0.000	0.05		30.3	OK
18.000	79	99.674	-0.133	0.000	0.03		0.8	OK
19.000	81	99.378	-0.132	0.000	0.03		1.0	OK
18.001	80	98.523	-0.720	0.000	0.00		2.2	OK
15.006	72	98.523	-0.636	0.000	0.03		35.5	OK
15.007	73	98.523	-0.457	0.000	0.04		35.5	OK
12.010	53	98.523	-0.401	0.000	0.06		58.7	OK
20.000	POND1	98.523	-0.332	0.000	0.01		4.5	OK
12.011	54	98.523	0.423	0.000	0.03		5.2	SURCHARGED
21.000	83	98.976	-0.124	0.000	0.07		1.8	OK
21.001	84	98.197	-0.203	0.000	0.02		2.2	OK
22.000	85	97.706	-0.116	0.000	0.12		2.1	OK
12.012	55	97.270	-0.157	0.000	0.20		8.6	OK
12.013	56	97.173	-0.159	0.000	0.19		9.3	OK
12.014	57	96.629	-0.293	0.000	0.03		11.1	OK
23.000	86	98.209	-0.134	0.000	0.03		0.8	OK
23.001	87	96.628	-0.338	0.000	0.01		4.7	OK
24.000	POND2	96.628	-0.277	0.000	0.00		1.2	OK
12.015	58	96.628	0.328	0.000	0.02		6.6	SURCHARGED
25.000	89	98.874	-0.191	0.000	0.06		4.9	OK
25.001	90	97.784	-0.187	0.000	0.07		5.0	OK
25.002	91	97.405	-0.240	0.000	0.09		8.6	OK
25.003	92	97.170	-0.270	0.000	0.02		8.6	OK
25.004	93	93.485	-0.719	0.000	0.00		8.0	OK

©1982-2015 XP Solutions

Summary of Results for 600 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.485	1.330	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 720 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.680	-0.137	0.000	0.02		0.7	OK
1.001	2	110.412	-0.194	0.000	0.05		4.7	OK
2.000	21	110.170	-0.230	0.000	0.12		15.3	OK
2.001	22	109.895	-0.255	0.000	0.05		16.2	OK
1.002	3	108.428	-0.247	0.000	0.07		21.8	OK
3.000	23	107.508	-0.198	0.000	0.04		1.7	OK
3.001	24	107.344	-0.187	0.000	0.07		3.9	OK
1.003	4	106.802	-0.241	0.000	0.09		26.8	OK
1.004	5	104.246	-0.372	0.000	0.07		27.7	OK
4.000	25	106.216	-0.132	0.000	0.03		1.3	OK
1.005	6	103.675	-0.453	0.000	0.05		29.3	OK
1.006	7	102.905	-0.446	0.000	0.06		31.7	OK
1.007	8	102.223	-0.513	0.000	0.05		33.1	OK
5.000	26	108.067	-0.233	0.000	0.11		17.9	OK
6.000	29	109.158	-0.139	0.000	0.02		0.6	OK
5.001	27	107.647	-0.250	0.000	0.07		20.7	OK
7.000	30	104.173	-0.427	0.000	0.08		35.3	OK
7.001	31	103.411	-0.506	0.000	0.06		36.2	OK
5.002	28	102.902	-0.492	0.000	0.08		62.9	OK
1.008	9	101.837	-0.489	0.000	0.17		97.0	OK
1.009	10	101.567	-0.557	0.000	0.07		97.9	OK
8.000	32	100.227	-0.369	0.000	0.00		0.7	OK
1.010	11	99.510	-0.512	0.000	0.13		99.7	OK
9.000	33	100.570	-0.130	0.000	0.04		1.2	OK
9.001	34	100.110	-0.190	0.000	0.06		2.9	OK
9.002	35	99.839	-0.198	0.000	0.03		2.9	OK
1.011	12	99.125	-0.548	0.000	0.08		107.1	OK
1.012	13	97.555	-0.516	0.000	0.13		107.9	OK
1.013	14	97.160	-0.458	0.000	0.32		108.2	OK
1.014	15	96.959	-0.629	0.000	0.06		112.8	OK
1.015	16	95.678	-0.592	0.000	0.10		113.1	OK
1.016	17	95.125	-0.629	0.000	0.06		114.9	OK
1.017	18	93.738	-0.631	0.000	0.06		116.2	OK
10.000	36	98.292	-0.133	0.000	0.03		1.0	OK
11.000	40	97.953	-0.135	0.000	0.02		1.1	OK
11.001	41	97.123	-0.198	0.000	0.03		1.7	OK
11.002	42	96.928	-0.190	0.000	0.06		3.0	OK
10.001	37	96.449	-0.267	0.000	0.03		5.0	OK
10.002	38	95.048	-0.268	0.000	0.03		7.1	OK
10.003	39	93.761	-0.262	0.000	0.04		7.1	OK
10.004	94	93.454	-0.728	0.000	0.00		6.6	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	109.989	-0.130	0.000	0.04		1.6	OK

©1982-2015 XP Solutions

Summary of Results for 720 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.557	-0.126	0.000	0.06		1.9	OK
12.003	46	107.627	-0.119	0.000	0.10		1.9	OK
12.004	47	107.381	-0.198	0.000	0.03		3.3	OK
13.000	59	107.028	-0.119	0.000	0.10		1.7	OK
13.001	60	106.629	-0.117	0.000	0.11		1.7	OK
12.005	48	106.384	-0.269	0.000	0.02		5.9	OK
12.006	49	104.389	-0.265	0.000	0.03		8.2	OK
14.000	61	107.522	-0.136	0.000	0.02		0.7	OK
14.001	62	106.767	-0.119	0.000	0.10		3.8	OK
14.002	63	105.485	-0.196	0.000	0.04		4.4	OK
14.003	64	104.396	-0.191	0.000	0.05		5.7	OK
14.004	65	102.896	-0.233	0.000	0.11		9.3	OK
12.007	50	102.644	-0.252	0.000	0.06		17.4	OK
12.008	51	100.846	-0.400	0.000	0.03		19.8	OK
12.009	52	98.580	-0.361	0.000	0.09		20.1	OK
15.000	66	106.343	-0.132	0.000	0.03		1.2	OK
15.001	67	104.892	-0.194	0.000	0.05		4.7	OK
15.002	68	102.320	-0.266	0.000	0.03		5.6	OK
15.003	69	101.775	-0.261	0.000	0.04		8.9	OK
16.000	74	101.596	-0.204	0.000	0.02		1.0	OK
16.001	75	101.119	-0.401	0.000	0.03		12.4	OK
17.000	77	101.079	-0.137	0.000	0.02		0.3	OK
17.001	78	100.966	-0.128	0.000	0.05		1.5	OK
16.002	76	100.456	-0.386	0.000	0.05		15.8	OK
15.004	70	99.873	-0.382	0.000	0.06		25.8	OK
15.005	71	98.760	-0.519	0.000	0.04		26.1	OK
18.000	79	99.673	-0.134	0.000	0.02		0.7	OK
19.000	81	99.378	-0.132	0.000	0.03		1.0	OK
18.001	80	98.528	-0.715	0.000	0.00		2.1	OK
15.006	72	98.528	-0.631	0.000	0.03		30.5	OK
15.007	73	98.528	-0.452	0.000	0.03		30.3	OK
12.010	53	98.528	-0.396	0.000	0.05		50.4	OK
20.000	POND1	98.528	-0.327	0.000	0.01		4.5	OK
12.011	54	98.528	0.428	0.000	0.03		5.2	SURCHARGED
21.000	83	98.974	-0.126	0.000	0.06		1.6	OK
21.001	84	98.195	-0.205	0.000	0.02		2.0	OK
22.000	85	97.704	-0.118	0.000	0.10		1.8	OK
12.012	55	97.268	-0.159	0.000	0.19		8.1	OK
12.013	56	97.170	-0.162	0.000	0.17		8.7	OK
12.014	57	96.614	-0.308	0.000	0.03		10.2	OK
23.000	86	98.208	-0.135	0.000	0.02		0.7	OK
23.001	87	96.614	-0.352	0.000	0.01		4.1	OK
24.000	POND2	96.614	-0.291	0.000	0.00		1.1	OK
12.015	58	96.614	0.314	0.000	0.02		6.5	SURCHARGED
25.000	89	98.872	-0.193	0.000	0.05		4.2	OK
25.001	90	97.781	-0.190	0.000	0.06		4.2	OK
25.002	91	97.400	-0.245	0.000	0.08		7.4	OK
25.003	92	97.166	-0.274	0.000	0.02		7.4	OK
25.004	93	93.454	-0.750	0.000	0.00		6.9	OK

©1982-2015 XP Solutions

Summary of Results for 720 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.454	1.299	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Summary of Results for 960 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	OFF
Inertia Status	OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.678	-0.139	0.000	0.02		0.6	OK
1.001	2	110.409	-0.197	0.000	0.04		3.8	OK
2.000	21	110.163	-0.237	0.000	0.10		12.2	OK
2.001	22	109.890	-0.260	0.000	0.04		13.0	OK
1.002	3	108.421	-0.254	0.000	0.06		17.4	OK
3.000	23	107.506	-0.200	0.000	0.03		1.3	OK
3.001	24	107.340	-0.191	0.000	0.05		3.1	OK
1.003	4	106.794	-0.249	0.000	0.07		21.4	OK
1.004	5	104.236	-0.382	0.000	0.06		22.2	OK
4.000	25	106.216	-0.132	0.000	0.03		1.3	OK
1.005	6	103.667	-0.461	0.000	0.04		23.4	OK
1.006	7	102.896	-0.455	0.000	0.04		25.4	OK
1.007	8	102.214	-0.522	0.000	0.04		26.5	OK
5.000	26	108.060	-0.240	0.000	0.09		14.4	OK
6.000	29	109.157	-0.140	0.000	0.01		0.5	OK
5.001	27	107.641	-0.256	0.000	0.05		16.6	OK
7.000	30	104.161	-0.439	0.000	0.06		28.3	OK
7.001	31	103.401	-0.516	0.000	0.05		28.9	OK
5.002	28	102.889	-0.505	0.000	0.06		50.3	OK
1.008	9	101.816	-0.510	0.000	0.14		77.6	OK
1.009	10	101.552	-0.572	0.000	0.06		78.3	OK
8.000	32	100.226	-0.370	0.000	0.00		0.5	OK
1.010	11	99.493	-0.529	0.000	0.11		79.8	OK
9.000	33	100.569	-0.131	0.000	0.04		1.1	OK
9.001	34	100.106	-0.194	0.000	0.05		2.3	OK
9.002	35	99.836	-0.201	0.000	0.03		2.3	OK
1.011	12	99.109	-0.564	0.000	0.06		85.7	OK
1.012	13	97.539	-0.532	0.000	0.10		86.3	OK
1.013	14	97.126	-0.492	0.000	0.26		86.5	OK
1.014	15	96.945	-0.643	0.000	0.05		90.2	OK
1.015	16	95.661	-0.609	0.000	0.08		90.5	OK
1.016	17	95.111	-0.643	0.000	0.05		91.9	OK
1.017	18	93.725	-0.644	0.000	0.05		92.9	OK
10.000	36	98.290	-0.135	0.000	0.02		0.8	OK
11.000	40	97.951	-0.137	0.000	0.02		0.9	OK
11.001	41	97.121	-0.200	0.000	0.03		1.4	OK
11.002	42	96.927	-0.191	0.000	0.05		2.9	OK
10.001	37	96.447	-0.269	0.000	0.02		4.0	OK
10.002	38	95.045	-0.271	0.000	0.02		5.7	OK
10.003	39	93.758	-0.265	0.000	0.03		5.7	OK
10.004	94	93.376	-0.806	0.000	0.00		5.3	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	109.987	-0.132	0.000	0.03		1.3	OK

©1982-2015 XP Solutions

Summary of Results for 960 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.554	-0.129	0.000	0.05		1.5	OK
12.003	46	107.624	-0.122	0.000	0.08		1.5	OK
12.004	47	107.379	-0.200	0.000	0.03		2.6	OK
13.000	59	107.025	-0.122	0.000	0.08		1.4	OK
13.001	60	106.626	-0.120	0.000	0.09		1.4	OK
12.005	48	106.380	-0.273	0.000	0.02		4.7	OK
12.006	49	104.386	-0.268	0.000	0.03		6.5	OK
14.000	61	107.519	-0.139	0.000	0.02		0.6	OK
14.001	62	106.763	-0.123	0.000	0.08		3.0	OK
14.002	63	105.482	-0.199	0.000	0.03		3.5	OK
14.003	64	104.392	-0.195	0.000	0.04		4.6	OK
14.004	65	102.890	-0.239	0.000	0.09		7.4	OK
12.007	50	102.638	-0.258	0.000	0.05		14.0	OK
12.008	51	100.842	-0.404	0.000	0.02		15.8	OK
12.009	52	98.569	-0.372	0.000	0.07		16.1	OK
15.000	66	106.341	-0.134	0.000	0.03		0.9	OK
15.001	67	104.889	-0.197	0.000	0.04		3.7	OK
15.002	68	102.317	-0.269	0.000	0.02		4.5	OK
15.003	69	101.772	-0.264	0.000	0.03		7.4	OK
16.000	74	101.595	-0.205	0.000	0.02		1.0	OK
16.001	75	101.115	-0.405	0.000	0.02		9.9	OK
17.000	77	101.078	-0.138	0.000	0.02		0.3	OK
17.001	78	100.966	-0.128	0.000	0.05		1.4	OK
16.002	76	100.450	-0.392	0.000	0.04		12.7	OK
15.004	70	99.866	-0.389	0.000	0.04		20.6	OK
15.005	71	98.752	-0.527	0.000	0.04		20.9	OK
18.000	79	99.672	-0.135	0.000	0.02		0.7	OK
19.000	81	99.378	-0.132	0.000	0.03		1.0	OK
18.001	80	98.532	-0.711	0.000	0.00		2.1	OK
15.006	72	98.532	-0.627	0.000	0.02		24.4	OK
15.007	73	98.532	-0.448	0.000	0.03		24.2	OK
12.010	53	98.532	-0.392	0.000	0.04		40.2	OK
20.000	POND1	98.531	-0.324	0.000	0.01		4.5	OK
12.011	54	98.532	0.432	0.000	0.03		5.2	SURCHARGED
21.000	83	98.971	-0.129	0.000	0.05		1.3	OK
21.001	84	98.195	-0.205	0.000	0.02		1.9	OK
22.000	85	97.701	-0.121	0.000	0.08		1.4	OK
12.012	55	97.264	-0.163	0.000	0.17		7.4	OK
12.013	56	97.167	-0.165	0.000	0.16		7.8	OK
12.014	57	96.584	-0.338	0.000	0.02		9.0	OK
23.000	86	98.206	-0.137	0.000	0.02		0.6	OK
23.001	87	96.583	-0.383	0.000	0.00		3.3	OK
24.000	POND2	96.583	-0.322	0.000	0.00		0.9	OK
12.015	58	96.583	0.283	0.000	0.02		6.4	SURCHARGED
25.000	89	98.869	-0.196	0.000	0.04		3.4	OK
25.001	90	97.777	-0.194	0.000	0.05		3.4	OK
25.002	91	97.393	-0.252	0.000	0.06		5.9	OK
25.003	92	97.161	-0.279	0.000	0.01		5.9	OK
25.004	93	93.376	-0.828	0.000	0.00		5.5	OK

©1982-2015 XP Solutions

Summary of Results for 960 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.376	1.221	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

6A Union Quay
North Shields
Tyne & Wear NE30 1HJ

Date 08/02/2016 11:21 | Designed by Ashley
File WAKEFIELD ROAD - 100YR.MDX | Checked by
XP Solutions | Network 2015.1

Summary of Results for 1440 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

Margin for Flood Risk Warning (mm) 300.0
Analysis Timestep 2.5 Second Increment (Extended)
DTS Status OFF
DVD Status OFF
Inertia Status OFF

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	111.675	-0.142	0.000	0.01		0.4	OK
1.001	2	110.405	-0.201	0.000	0.03		2.7	OK
2.000	21	110.153	-0.247	0.000	0.07		8.9	OK
2.001	22	109.885	-0.265	0.000	0.03		9.4	OK
1.002	3	108.414	-0.261	0.000	0.04		12.7	OK
3.000	23	107.503	-0.203	0.000	0.02		1.0	OK
3.001	24	107.335	-0.196	0.000	0.04		2.3	OK
1.003	4	106.786	-0.257	0.000	0.05		15.6	OK
1.004	5	104.226	-0.392	0.000	0.04		16.2	OK
4.000	25	106.215	-0.133	0.000	0.03		1.2	OK
1.005	6	103.660	-0.468	0.000	0.03		17.0	OK
1.006	7	102.887	-0.464	0.000	0.03		18.5	OK
1.007	8	102.204	-0.532	0.000	0.03		19.3	OK
5.000	26	108.050	-0.250	0.000	0.07		10.5	OK
6.000	29	109.157	-0.140	0.000	0.01		0.5	OK
5.001	27	107.635	-0.262	0.000	0.04		12.1	OK
7.000	30	104.147	-0.453	0.000	0.05		20.6	OK
7.001	31	103.389	-0.528	0.000	0.03		21.1	OK
5.002	28	102.874	-0.520	0.000	0.04		36.6	OK
1.008	9	101.793	-0.533	0.000	0.10		56.5	OK
1.009	10	101.537	-0.587	0.000	0.04		57.0	OK
8.000	32	100.225	-0.371	0.000	0.00		0.4	OK
1.010	11	99.471	-0.551	0.000	0.08		58.1	OK
9.000	33	100.569	-0.131	0.000	0.04		1.1	OK
9.001	34	100.102	-0.198	0.000	0.03		1.7	OK
9.002	35	99.835	-0.202	0.000	0.02		2.0	OK
1.011	12	99.091	-0.582	0.000	0.05		62.4	OK
1.012	13	97.516	-0.555	0.000	0.07		62.9	OK
1.013	14	97.087	-0.531	0.000	0.19		63.0	OK
1.014	15	96.930	-0.658	0.000	0.04		65.7	OK
1.015	16	95.637	-0.633	0.000	0.06		65.9	OK
1.016	17	95.096	-0.658	0.000	0.04		66.9	OK
1.017	18	93.710	-0.659	0.000	0.04		67.7	OK
10.000	36	98.288	-0.137	0.000	0.02		0.6	OK
11.000	40	97.950	-0.138	0.000	0.02		0.8	OK
11.001	41	97.117	-0.204	0.000	0.02		1.0	OK
11.002	42	96.926	-0.192	0.000	0.05		2.8	OK
10.001	37	96.445	-0.271	0.000	0.02		3.4	OK
10.002	38	95.038	-0.278	0.000	0.02		4.1	OK
10.003	39	93.755	-0.268	0.000	0.02		4.3	OK
10.004	94	93.170	-1.012	0.000	0.00		3.9	OK
12.000	43	111.090	-0.136	0.000	0.02		0.8	OK
12.001	44	109.985	-0.134	0.000	0.02		0.9	OK

©1982-2015 XP Solutions

Summary of Results for 1440 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
12.002	45	108.551	-0.132	0.000	0.04		1.1	OK
12.003	46	107.619	-0.127	0.000	0.06		1.1	OK
12.004	47	107.376	-0.203	0.000	0.02		1.9	OK
13.000	59	107.021	-0.126	0.000	0.06		1.1	OK
13.001	60	106.622	-0.124	0.000	0.07		1.1	OK
12.005	48	106.373	-0.280	0.000	0.01		3.4	OK
12.006	49	104.381	-0.273	0.000	0.02		4.8	OK
14.000	61	107.516	-0.142	0.000	0.01		0.4	OK
14.001	62	106.759	-0.127	0.000	0.06		2.2	OK
14.002	63	105.479	-0.202	0.000	0.02		2.5	OK
14.003	64	104.388	-0.199	0.000	0.03		3.3	OK
14.004	65	102.879	-0.250	0.000	0.07		5.4	OK
12.007	50	102.632	-0.264	0.000	0.04		10.2	OK
12.008	51	100.832	-0.414	0.000	0.02		11.5	OK
12.009	52	98.556	-0.385	0.000	0.05		11.7	OK
15.000	66	106.339	-0.136	0.000	0.02		0.7	OK
15.001	67	104.885	-0.201	0.000	0.03		2.7	OK
15.002	68	102.312	-0.274	0.000	0.02		3.4	OK
15.003	69	101.771	-0.265	0.000	0.03		7.0	OK
16.000	74	101.594	-0.206	0.000	0.02		1.0	OK
16.001	75	101.103	-0.417	0.000	0.02		7.2	OK
17.000	77	101.078	-0.138	0.000	0.02		0.3	OK
17.001	78	100.966	-0.128	0.000	0.05		1.4	OK
16.002	76	100.442	-0.400	0.000	0.03		9.2	OK
15.004	70	99.858	-0.397	0.000	0.03		15.0	OK
15.005	71	98.744	-0.535	0.000	0.03		15.2	OK
18.000	79	99.672	-0.135	0.000	0.02		0.7	OK
19.000	81	99.377	-0.133	0.000	0.03		0.9	OK
18.001	80	98.520	-0.723	0.000	0.00		1.9	OK
15.006	72	98.520	-0.639	0.000	0.02		17.8	OK
15.007	73	98.520	-0.460	0.000	0.02		19.1	OK
12.010	53	98.520	-0.404	0.000	0.03		29.4	OK
20.000	POND1	98.519	-0.336	0.000	0.01		4.4	OK
12.011	54	98.520	0.420	0.000	0.03		5.1	SURCHARGED
21.000	83	98.970	-0.130	0.000	0.04		1.1	OK
21.001	84	98.193	-0.207	0.000	0.02		1.8	OK
22.000	85	97.696	-0.126	0.000	0.06		1.0	OK
12.012	55	97.261	-0.166	0.000	0.15		6.6	OK
12.013	56	97.163	-0.169	0.000	0.14		6.9	OK
12.014	57	96.541	-0.381	0.000	0.02		7.8	OK
23.000	86	98.202	-0.141	0.000	0.01		0.4	OK
23.001	87	96.541	-0.425	0.000	0.00		2.4	OK
24.000	POND2	96.541	-0.364	0.000	0.00		1.2	OK
12.015	58	96.541	0.241	0.000	0.02		6.2	SURCHARGED
25.000	89	98.865	-0.200	0.000	0.03		2.5	OK
25.001	90	97.773	-0.198	0.000	0.03		2.5	OK
25.002	91	97.385	-0.260	0.000	0.04		4.3	OK
25.003	92	97.155	-0.285	0.000	0.01		4.3	OK
25.004	93	93.170	-1.034	0.000	0.00		4.0	OK

©1982-2015 XP Solutions

Summary of Results for 1440 minute 100 year Winter (PLANNING-SW-DESIGN.SWS)

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.018	19	93.170	1.015	0.000	0.94		28.2	SURCHARGED

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 2, DS/PN 1.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 22, DS/PN 2.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 3, DS/PN 1.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 3, DS/PN 1.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 3, DS/PN 1.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 3, DS/PN 1.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 3, DS/PN 1.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 23, DS/PN 3.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 23, DS/PN 3.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 23, DS/PN 3.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 23, DS/PN 3.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 23, DS/PN 3.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 24, DS/PN 3.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 4, DS/PN 1.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 25, DS/PN 4.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 6, DS/PN 1.005 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 7, DS/PN 1.006 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 8, DS/PN 1.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 29, DS/PN 6.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 29, DS/PN 6.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 29, DS/PN 6.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 29, DS/PN 6.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 29, DS/PN 6.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 27, DS/PN 5.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 31, DS/PN 7.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 28, DS/PN 5.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 10, DS/PN 1.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 10, DS/PN 1.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 10, DS/PN 1.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 10, DS/PN 1.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 10, DS/PN 1.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 33, DS/PN 9.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 34, DS/PN 9.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 35, DS/PN 9.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 35, DS/PN 9.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 35, DS/PN 9.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 35, DS/PN 9.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 35, DS/PN 9.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.5	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.5	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.5	198	0.0	294	0.0	390	0.0	486	0.0
8	0.4	104	0.5	200	0.0	296	0.0	392	0.0	488	0.0
10	0.4	106	0.5	202	0.0	298	0.0	394	0.0	490	0.0
12	0.4	108	0.5	204	0.0	300	0.0	396	0.0	492	0.0
14	0.4	110	0.5	206	0.0	302	0.0	398	0.0	494	0.0
16	0.4	112	0.5	208	0.0	304	0.0	400	0.0	496	0.0
18	0.4	114	0.5	210	0.0	306	0.0	402	0.0	498	0.0
20	0.4	116	0.5	212	0.0	308	0.0	404	0.0	500	0.0
22	0.4	118	0.5	214	0.0	310	0.0	406	0.0	502	0.0
24	0.4	120	0.5	216	0.0	312	0.0	408	0.0	504	0.0
26	0.5	122	0.5	218	0.0	314	0.0	410	0.0	506	0.0
28	0.5	124	0.5	220	0.0	316	0.0	412	0.0	508	0.0
30	0.5	126	0.4	222	0.0	318	0.0	414	0.0	510	0.0
32	0.5	128	0.4	224	0.0	320	0.0	416	0.0	512	0.0
34	0.5	130	0.4	226	0.0	322	0.0	418	0.0	514	0.0
36	0.6	132	0.4	228	0.0	324	0.0	420	0.0	516	0.0
38	0.6	134	0.4	230	0.0	326	0.0	422	0.0	518	0.0
40	0.6	136	0.4	232	0.0	328	0.0	424	0.0	520	0.0
42	0.7	138	0.4	234	0.0	330	0.0	426	0.0	522	0.0
44	0.7	140	0.4	236	0.0	332	0.0	428	0.0	524	0.0
46	0.8	142	0.4	238	0.0	334	0.0	430	0.0	526	0.0
48	0.8	144	0.4	240	0.0	336	0.0	432	0.0	528	0.0
50	0.8	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.8	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.8	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.8	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.7	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.7	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.7	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.7	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.6	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.6	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.6	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.6	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.6	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.6	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.6	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.6	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.6	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.6	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.6	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.5	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.5	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.5	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.5	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.5	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 12, DS/PN 1.011 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 13, DS/PN 1.012 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 14, DS/PN 1.013 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 16, DS/PN 1.015 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 17, DS/PN 1.016 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 36, DS/PN 10.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 40, DS/PN 11.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.5	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.5	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.5	198	0.0	294	0.0	390	0.0	486	0.0
8	0.4	104	0.5	200	0.0	296	0.0	392	0.0	488	0.0
10	0.4	106	0.5	202	0.0	298	0.0	394	0.0	490	0.0
12	0.4	108	0.5	204	0.0	300	0.0	396	0.0	492	0.0
14	0.4	110	0.5	206	0.0	302	0.0	398	0.0	494	0.0
16	0.4	112	0.5	208	0.0	304	0.0	400	0.0	496	0.0
18	0.4	114	0.5	210	0.0	306	0.0	402	0.0	498	0.0
20	0.4	116	0.5	212	0.0	308	0.0	404	0.0	500	0.0
22	0.4	118	0.5	214	0.0	310	0.0	406	0.0	502	0.0
24	0.4	120	0.5	216	0.0	312	0.0	408	0.0	504	0.0
26	0.5	122	0.5	218	0.0	314	0.0	410	0.0	506	0.0
28	0.5	124	0.5	220	0.0	316	0.0	412	0.0	508	0.0
30	0.5	126	0.4	222	0.0	318	0.0	414	0.0	510	0.0
32	0.5	128	0.4	224	0.0	320	0.0	416	0.0	512	0.0
34	0.5	130	0.4	226	0.0	322	0.0	418	0.0	514	0.0
36	0.6	132	0.4	228	0.0	324	0.0	420	0.0	516	0.0
38	0.6	134	0.4	230	0.0	326	0.0	422	0.0	518	0.0
40	0.6	136	0.4	232	0.0	328	0.0	424	0.0	520	0.0
42	0.7	138	0.4	234	0.0	330	0.0	426	0.0	522	0.0
44	0.7	140	0.4	236	0.0	332	0.0	428	0.0	524	0.0
46	0.8	142	0.4	238	0.0	334	0.0	430	0.0	526	0.0
48	0.8	144	0.4	240	0.0	336	0.0	432	0.0	528	0.0
50	0.8	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.8	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.8	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.8	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.7	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.7	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.7	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.7	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.6	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.6	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.6	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.6	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.6	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.6	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.6	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.6	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.6	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.6	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.6	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.5	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.5	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.5	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.5	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.5	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 40, DS/PN 11.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 40, DS/PN 11.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 40, DS/PN 11.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 40, DS/PN 11.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.5	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.5	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.5	198	0.0	294	0.0	390	0.0	486	0.0
8	0.4	104	0.5	200	0.0	296	0.0	392	0.0	488	0.0
10	0.4	106	0.5	202	0.0	298	0.0	394	0.0	490	0.0
12	0.4	108	0.5	204	0.0	300	0.0	396	0.0	492	0.0
14	0.4	110	0.5	206	0.0	302	0.0	398	0.0	494	0.0
16	0.4	112	0.5	208	0.0	304	0.0	400	0.0	496	0.0
18	0.4	114	0.5	210	0.0	306	0.0	402	0.0	498	0.0
20	0.4	116	0.5	212	0.0	308	0.0	404	0.0	500	0.0
22	0.4	118	0.4	214	0.0	310	0.0	406	0.0	502	0.0
24	0.4	120	0.4	216	0.0	312	0.0	408	0.0	504	0.0
26	0.5	122	0.4	218	0.0	314	0.0	410	0.0	506	0.0
28	0.5	124	0.4	220	0.0	316	0.0	412	0.0	508	0.0
30	0.5	126	0.4	222	0.0	318	0.0	414	0.0	510	0.0
32	0.5	128	0.4	224	0.0	320	0.0	416	0.0	512	0.0
34	0.5	130	0.4	226	0.0	322	0.0	418	0.0	514	0.0
36	0.6	132	0.4	228	0.0	324	0.0	420	0.0	516	0.0
38	0.6	134	0.0	230	0.0	326	0.0	422	0.0	518	0.0
40	0.6	136	0.0	232	0.0	328	0.0	424	0.0	520	0.0
42	0.7	138	0.0	234	0.0	330	0.0	426	0.0	522	0.0
44	0.7	140	0.0	236	0.0	332	0.0	428	0.0	524	0.0
46	0.8	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.8	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.8	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.8	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.8	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.7	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.7	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.7	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.7	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.7	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.6	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.6	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.6	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.6	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.6	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.6	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.6	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.6	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.6	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.6	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.5	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.5	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.5	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.5	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.5	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.5	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 42, DS/PN 11.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 38, DS/PN 10.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 39, DS/PN 10.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 39, DS/PN 10.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 39, DS/PN 10.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 39, DS/PN 10.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 39, DS/PN 10.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 43, DS/PN 12.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 59, DS/PN 13.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 63, DS/PN 14.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 63, DS/PN 14.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 63, DS/PN 14.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 63, DS/PN 14.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 63, DS/PN 14.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 64, DS/PN 14.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 64, DS/PN 14.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 64, DS/PN 14.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 64, DS/PN 14.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 64, DS/PN 14.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.2	196	0.0	292	0.0	388	0.0	484	0.0
6	0.1	102	0.2	198	0.0	294	0.0	390	0.0	486	0.0
8	0.1	104	0.2	200	0.0	296	0.0	392	0.0	488	0.0
10	0.1	106	0.2	202	0.0	298	0.0	394	0.0	490	0.0
12	0.1	108	0.2	204	0.0	300	0.0	396	0.0	492	0.0
14	0.1	110	0.2	206	0.0	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.0	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.0	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.0	308	0.0	404	0.0	500	0.0
22	0.2	118	0.2	214	0.0	310	0.0	406	0.0	502	0.0
24	0.2	120	0.2	216	0.0	312	0.0	408	0.0	504	0.0
26	0.2	122	0.2	218	0.0	314	0.0	410	0.0	506	0.0
28	0.2	124	0.2	220	0.0	316	0.0	412	0.0	508	0.0
30	0.2	126	0.2	222	0.0	318	0.0	414	0.0	510	0.0
32	0.2	128	0.2	224	0.0	320	0.0	416	0.0	512	0.0
34	0.2	130	0.1	226	0.0	322	0.0	418	0.0	514	0.0
36	0.2	132	0.1	228	0.0	324	0.0	420	0.0	516	0.0
38	0.2	134	0.1	230	0.0	326	0.0	422	0.0	518	0.0
40	0.3	136	0.1	232	0.0	328	0.0	424	0.0	520	0.0
42	0.3	138	0.1	234	0.0	330	0.0	426	0.0	522	0.0
44	0.3	140	0.1	236	0.0	332	0.0	428	0.0	524	0.0
46	0.3	142	0.0	238	0.0	334	0.0	430	0.0	526	0.0
48	0.3	144	0.0	240	0.0	336	0.0	432	0.0	528	0.0
50	0.3	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.3	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.3	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.3	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.3	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.3	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.3	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.2	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.2	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.2	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.2	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.2	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.2	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.2	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.2	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.2	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.2	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 65, DS/PN 14.004 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 50, DS/PN 12.007 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 52, DS/PN 12.009 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 66, DS/PN 15.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 66, DS/PN 15.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 66, DS/PN 15.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 66, DS/PN 15.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 66, DS/PN 15.000 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 67, DS/PN 15.001 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.2	194	0.2	290	0.1	386	0.0	482	0.0
4	0.1	100	0.2	196	0.2	292	0.1	388	0.0	484	0.0
6	0.1	102	0.2	198	0.2	294	0.1	390	0.0	486	0.0
8	0.1	104	0.2	200	0.2	296	0.1	392	0.0	488	0.0
10	0.1	106	0.2	202	0.2	298	0.1	394	0.0	490	0.0
12	0.1	108	0.2	204	0.2	300	0.1	396	0.0	492	0.0
14	0.1	110	0.2	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.2	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.2	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.2	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.2	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.2	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.2	330	0.0	426	0.0	522	0.0
44	0.1	140	0.2	236	0.2	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.2	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.2	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.2	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.2	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.2	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.2	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.2	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.2	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.2	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.2	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.2	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.2	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.2	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.1	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.1	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.1	364	0.0	460	0.0	556	0.0
78	0.2	174	0.2	270	0.1	366	0.0	462	0.0	558	0.0
80	0.2	176	0.2	272	0.1	368	0.0	464	0.0	560	0.0
82	0.2	178	0.2	274	0.1	370	0.0	466	0.0	562	0.0
84	0.2	180	0.2	276	0.1	372	0.0	468	0.0	564	0.0
86	0.2	182	0.2	278	0.1	374	0.0	470	0.0	566	0.0
88	0.2	184	0.2	280	0.1	376	0.0	472	0.0	568	0.0
90	0.2	186	0.2	282	0.1	378	0.0	474	0.0	570	0.0
92	0.2	188	0.2	284	0.1	380	0.0	476	0.0	572	0.0
94	0.2	190	0.2	286	0.1	382	0.0	478	0.0	574	0.0
96	0.2	192	0.2	288	0.1	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 68, DS/PN 15.002 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.2	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.2	292	0.0	388	0.0	484	0.0
6	0.1	102	0.3	198	0.2	294	0.0	390	0.0	486	0.0
8	0.1	104	0.3	200	0.2	296	0.0	392	0.0	488	0.0
10	0.1	106	0.3	202	0.2	298	0.0	394	0.0	490	0.0
12	0.1	108	0.3	204	0.2	300	0.0	396	0.0	492	0.0
14	0.1	110	0.3	206	0.2	302	0.0	398	0.0	494	0.0
16	0.1	112	0.3	208	0.2	304	0.0	400	0.0	496	0.0
18	0.1	114	0.3	210	0.2	306	0.0	402	0.0	498	0.0
20	0.1	116	0.2	212	0.2	308	0.0	404	0.0	500	0.0
22	0.1	118	0.2	214	0.2	310	0.0	406	0.0	502	0.0
24	0.1	120	0.2	216	0.2	312	0.0	408	0.0	504	0.0
26	0.1	122	0.2	218	0.2	314	0.0	410	0.0	506	0.0
28	0.1	124	0.2	220	0.2	316	0.0	412	0.0	508	0.0
30	0.1	126	0.2	222	0.2	318	0.0	414	0.0	510	0.0
32	0.1	128	0.2	224	0.2	320	0.0	416	0.0	512	0.0
34	0.1	130	0.2	226	0.2	322	0.0	418	0.0	514	0.0
36	0.1	132	0.2	228	0.1	324	0.0	420	0.0	516	0.0
38	0.1	134	0.2	230	0.1	326	0.0	422	0.0	518	0.0
40	0.1	136	0.2	232	0.1	328	0.0	424	0.0	520	0.0
42	0.1	138	0.2	234	0.1	330	0.0	426	0.0	522	0.0
44	0.2	140	0.2	236	0.1	332	0.0	428	0.0	524	0.0
46	0.2	142	0.2	238	0.1	334	0.0	430	0.0	526	0.0
48	0.2	144	0.2	240	0.1	336	0.0	432	0.0	528	0.0
50	0.2	146	0.2	242	0.1	338	0.0	434	0.0	530	0.0
52	0.2	148	0.2	244	0.1	340	0.0	436	0.0	532	0.0
54	0.2	150	0.2	246	0.1	342	0.0	438	0.0	534	0.0
56	0.2	152	0.2	248	0.1	344	0.0	440	0.0	536	0.0
58	0.2	154	0.2	250	0.1	346	0.0	442	0.0	538	0.0
60	0.2	156	0.2	252	0.0	348	0.0	444	0.0	540	0.0
62	0.2	158	0.2	254	0.0	350	0.0	446	0.0	542	0.0
64	0.2	160	0.2	256	0.0	352	0.0	448	0.0	544	0.0
66	0.2	162	0.2	258	0.0	354	0.0	450	0.0	546	0.0
68	0.2	164	0.2	260	0.0	356	0.0	452	0.0	548	0.0
70	0.2	166	0.2	262	0.0	358	0.0	454	0.0	550	0.0
72	0.2	168	0.2	264	0.0	360	0.0	456	0.0	552	0.0
74	0.2	170	0.2	266	0.0	362	0.0	458	0.0	554	0.0
76	0.2	172	0.2	268	0.0	364	0.0	460	0.0	556	0.0
78	0.3	174	0.2	270	0.0	366	0.0	462	0.0	558	0.0
80	0.3	176	0.2	272	0.0	368	0.0	464	0.0	560	0.0
82	0.3	178	0.2	274	0.0	370	0.0	466	0.0	562	0.0
84	0.3	180	0.2	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.2	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.2	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.2	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.2	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.2	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.2	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.1	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.2	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.3	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.4	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.4	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.5	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.0	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.0	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.0	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.0	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.0	250	0.0	346	0.0	442	0.0	538	0.0
60	0.4	156	0.0	252	0.0	348	0.0	444	0.0	540	0.0
62	0.4	158	0.0	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.0	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.0	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.0	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.0	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.0	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.0	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.0	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.0	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.0	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.0	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.3	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.3	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.3	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.3	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.3	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1730	0.0	1826	0.0	1922	0.0	2018	0.0	2114	0.0	2210	0.0
1732	0.0	1828	0.0	1924	0.0	2020	0.0	2116	0.0	2212	0.0
1734	0.0	1830	0.0	1926	0.0	2022	0.0	2118	0.0	2214	0.0
1736	0.0	1832	0.0	1928	0.0	2024	0.0	2120	0.0	2216	0.0
1738	0.0	1834	0.0	1930	0.0	2026	0.0	2122	0.0	2218	0.0
1740	0.0	1836	0.0	1932	0.0	2028	0.0	2124	0.0	2220	0.0
1742	0.0	1838	0.0	1934	0.0	2030	0.0	2126	0.0	2222	0.0
1744	0.0	1840	0.0	1936	0.0	2032	0.0	2128	0.0	2224	0.0
1746	0.0	1842	0.0	1938	0.0	2034	0.0	2130	0.0	2226	0.0
1748	0.0	1844	0.0	1940	0.0	2036	0.0	2132	0.0	2228	0.0
1750	0.0	1846	0.0	1942	0.0	2038	0.0	2134	0.0	2230	0.0
1752	0.0	1848	0.0	1944	0.0	2040	0.0	2136	0.0	2232	0.0
1754	0.0	1850	0.0	1946	0.0	2042	0.0	2138	0.0	2234	0.0
1756	0.0	1852	0.0	1948	0.0	2044	0.0	2140	0.0	2236	0.0
1758	0.0	1854	0.0	1950	0.0	2046	0.0	2142	0.0	2238	0.0
1760	0.0	1856	0.0	1952	0.0	2048	0.0	2144	0.0	2240	0.0
1762	0.0	1858	0.0	1954	0.0	2050	0.0	2146	0.0	2242	0.0
1764	0.0	1860	0.0	1956	0.0	2052	0.0	2148	0.0	2244	0.0
1766	0.0	1862	0.0	1958	0.0	2054	0.0	2150	0.0	2246	0.0
1768	0.0	1864	0.0	1960	0.0	2056	0.0	2152	0.0	2248	0.0
1770	0.0	1866	0.0	1962	0.0	2058	0.0	2154	0.0	2250	0.0
1772	0.0	1868	0.0	1964	0.0	2060	0.0	2156	0.0	2252	0.0
1774	0.0	1870	0.0	1966	0.0	2062	0.0	2158	0.0	2254	0.0
1776	0.0	1872	0.0	1968	0.0	2064	0.0	2160	0.0	2256	0.0
1778	0.0	1874	0.0	1970	0.0	2066	0.0	2162	0.0	2258	0.0
1780	0.0	1876	0.0	1972	0.0	2068	0.0	2164	0.0	2260	0.0
1782	0.0	1878	0.0	1974	0.0	2070	0.0	2166	0.0	2262	0.0
1784	0.0	1880	0.0	1976	0.0	2072	0.0	2168	0.0	2264	0.0
1786	0.0	1882	0.0	1978	0.0	2074	0.0	2170	0.0	2266	0.0
1788	0.0	1884	0.0	1980	0.0	2076	0.0	2172	0.0	2268	0.0
1790	0.0	1886	0.0	1982	0.0	2078	0.0	2174	0.0	2270	0.0
1792	0.0	1888	0.0	1984	0.0	2080	0.0	2176	0.0	2272	0.0
1794	0.0	1890	0.0	1986	0.0	2082	0.0	2178	0.0	2274	0.0
1796	0.0	1892	0.0	1988	0.0	2084	0.0	2180	0.0	2276	0.0
1798	0.0	1894	0.0	1990	0.0	2086	0.0	2182	0.0	2278	0.0
1800	0.0	1896	0.0	1992	0.0	2088	0.0	2184	0.0	2280	0.0
1802	0.0	1898	0.0	1994	0.0	2090	0.0	2186	0.0	2282	0.0
1804	0.0	1900	0.0	1996	0.0	2092	0.0	2188	0.0	2284	0.0
1806	0.0	1902	0.0	1998	0.0	2094	0.0	2190	0.0	2286	0.0
1808	0.0	1904	0.0	2000	0.0	2096	0.0	2192	0.0	2288	0.0
1810	0.0	1906	0.0	2002	0.0	2098	0.0	2194	0.0	2290	0.0
1812	0.0	1908	0.0	2004	0.0	2100	0.0	2196	0.0	2292	0.0
1814	0.0	1910	0.0	2006	0.0	2102	0.0	2198	0.0	2294	0.0
1816	0.0	1912	0.0	2008	0.0	2104	0.0	2200	0.0	2296	0.0
1818	0.0	1914	0.0	2010	0.0	2106	0.0	2202	0.0	2298	0.0
1820	0.0	1916	0.0	2012	0.0	2108	0.0	2204	0.0	2300	0.0
1822	0.0	1918	0.0	2014	0.0	2110	0.0	2206	0.0	2302	0.0
1824	0.0	1920	0.0	2016	0.0	2112	0.0	2208	0.0	2304	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2306	0.0	2402	0.0	2498	0.0	2594	0.0	2690	0.0	2786	0.0
2308	0.0	2404	0.0	2500	0.0	2596	0.0	2692	0.0	2788	0.0
2310	0.0	2406	0.0	2502	0.0	2598	0.0	2694	0.0	2790	0.0
2312	0.0	2408	0.0	2504	0.0	2600	0.0	2696	0.0	2792	0.0
2314	0.0	2410	0.0	2506	0.0	2602	0.0	2698	0.0	2794	0.0
2316	0.0	2412	0.0	2508	0.0	2604	0.0	2700	0.0	2796	0.0
2318	0.0	2414	0.0	2510	0.0	2606	0.0	2702	0.0	2798	0.0
2320	0.0	2416	0.0	2512	0.0	2608	0.0	2704	0.0	2800	0.0
2322	0.0	2418	0.0	2514	0.0	2610	0.0	2706	0.0	2802	0.0
2324	0.0	2420	0.0	2516	0.0	2612	0.0	2708	0.0	2804	0.0
2326	0.0	2422	0.0	2518	0.0	2614	0.0	2710	0.0	2806	0.0
2328	0.0	2424	0.0	2520	0.0	2616	0.0	2712	0.0	2808	0.0
2330	0.0	2426	0.0	2522	0.0	2618	0.0	2714	0.0	2810	0.0
2332	0.0	2428	0.0	2524	0.0	2620	0.0	2716	0.0	2812	0.0
2334	0.0	2430	0.0	2526	0.0	2622	0.0	2718	0.0	2814	0.0
2336	0.0	2432	0.0	2528	0.0	2624	0.0	2720	0.0	2816	0.0
2338	0.0	2434	0.0	2530	0.0	2626	0.0	2722	0.0	2818	0.0
2340	0.0	2436	0.0	2532	0.0	2628	0.0	2724	0.0	2820	0.0
2342	0.0	2438	0.0	2534	0.0	2630	0.0	2726	0.0	2822	0.0
2344	0.0	2440	0.0	2536	0.0	2632	0.0	2728	0.0	2824	0.0
2346	0.0	2442	0.0	2538	0.0	2634	0.0	2730	0.0	2826	0.0
2348	0.0	2444	0.0	2540	0.0	2636	0.0	2732	0.0	2828	0.0
2350	0.0	2446	0.0	2542	0.0	2638	0.0	2734	0.0	2830	0.0
2352	0.0	2448	0.0	2544	0.0	2640	0.0	2736	0.0	2832	0.0
2354	0.0	2450	0.0	2546	0.0	2642	0.0	2738	0.0	2834	0.0
2356	0.0	2452	0.0	2548	0.0	2644	0.0	2740	0.0	2836	0.0
2358	0.0	2454	0.0	2550	0.0	2646	0.0	2742	0.0	2838	0.0
2360	0.0	2456	0.0	2552	0.0	2648	0.0	2744	0.0	2840	0.0
2362	0.0	2458	0.0	2554	0.0	2650	0.0	2746	0.0	2842	0.0
2364	0.0	2460	0.0	2556	0.0	2652	0.0	2748	0.0	2844	0.0
2366	0.0	2462	0.0	2558	0.0	2654	0.0	2750	0.0	2846	0.0
2368	0.0	2464	0.0	2560	0.0	2656	0.0	2752	0.0	2848	0.0
2370	0.0	2466	0.0	2562	0.0	2658	0.0	2754	0.0	2850	0.0
2372	0.0	2468	0.0	2564	0.0	2660	0.0	2756	0.0	2852	0.0
2374	0.0	2470	0.0	2566	0.0	2662	0.0	2758	0.0	2854	0.0
2376	0.0	2472	0.0	2568	0.0	2664	0.0	2760	0.0	2856	0.0
2378	0.0	2474	0.0	2570	0.0	2666	0.0	2762	0.0	2858	0.0
2380	0.0	2476	0.0	2572	0.0	2668	0.0	2764	0.0	2860	0.0
2382	0.0	2478	0.0	2574	0.0	2670	0.0	2766	0.0	2862	0.0
2384	0.0	2480	0.0	2576	0.0	2672	0.0	2768	0.0	2864	0.0
2386	0.0	2482	0.0	2578	0.0	2674	0.0	2770	0.0	2866	0.0
2388	0.0	2484	0.0	2580	0.0	2676	0.0	2772	0.0	2868	0.0
2390	0.0	2486	0.0	2582	0.0	2678	0.0	2774	0.0	2870	0.0
2392	0.0	2488	0.0	2584	0.0	2680	0.0	2776	0.0	2872	0.0
2394	0.0	2490	0.0	2586	0.0	2682	0.0	2778	0.0	2874	0.0
2396	0.0	2492	0.0	2588	0.0	2684	0.0	2780	0.0	2876	0.0
2398	0.0	2494	0.0	2590	0.0	2686	0.0	2782	0.0	2878	0.0
2400	0.0	2496	0.0	2592	0.0	2688	0.0	2784	0.0	2880	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)

1440 minute 100 year Winter

Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
2	0.0	98	0.3	194	0.0	290	0.0	386	0.0	482	0.0
4	0.1	100	0.3	196	0.0	292	0.0	388	0.0	484	0.0
6	0.2	102	0.3	198	0.0	294	0.0	390	0.0	486	0.0
8	0.3	104	0.3	200	0.0	296	0.0	392	0.0	488	0.0
10	0.3	106	0.3	202	0.0	298	0.0	394	0.0	490	0.0
12	0.3	108	0.3	204	0.0	300	0.0	396	0.0	492	0.0
14	0.3	110	0.3	206	0.0	302	0.0	398	0.0	494	0.0
16	0.3	112	0.3	208	0.0	304	0.0	400	0.0	496	0.0
18	0.3	114	0.3	210	0.0	306	0.0	402	0.0	498	0.0
20	0.3	116	0.3	212	0.0	308	0.0	404	0.0	500	0.0
22	0.3	118	0.3	214	0.0	310	0.0	406	0.0	502	0.0
24	0.3	120	0.3	216	0.0	312	0.0	408	0.0	504	0.0
26	0.3	122	0.3	218	0.0	314	0.0	410	0.0	506	0.0
28	0.3	124	0.3	220	0.0	316	0.0	412	0.0	508	0.0
30	0.3	126	0.3	222	0.0	318	0.0	414	0.0	510	0.0
32	0.3	128	0.3	224	0.0	320	0.0	416	0.0	512	0.0
34	0.3	130	0.3	226	0.0	322	0.0	418	0.0	514	0.0
36	0.3	132	0.3	228	0.0	324	0.0	420	0.0	516	0.0
38	0.4	134	0.3	230	0.0	326	0.0	422	0.0	518	0.0
40	0.4	136	0.3	232	0.0	328	0.0	424	0.0	520	0.0
42	0.4	138	0.3	234	0.0	330	0.0	426	0.0	522	0.0
44	0.4	140	0.3	236	0.0	332	0.0	428	0.0	524	0.0
46	0.5	142	0.3	238	0.0	334	0.0	430	0.0	526	0.0
48	0.5	144	0.3	240	0.0	336	0.0	432	0.0	528	0.0
50	0.5	146	0.3	242	0.0	338	0.0	434	0.0	530	0.0
52	0.5	148	0.3	244	0.0	340	0.0	436	0.0	532	0.0
54	0.5	150	0.3	246	0.0	342	0.0	438	0.0	534	0.0
56	0.5	152	0.3	248	0.0	344	0.0	440	0.0	536	0.0
58	0.5	154	0.3	250	0.0	346	0.0	442	0.0	538	0.0
60	0.5	156	0.3	252	0.0	348	0.0	444	0.0	540	0.0
62	0.5	158	0.3	254	0.0	350	0.0	446	0.0	542	0.0
64	0.4	160	0.3	256	0.0	352	0.0	448	0.0	544	0.0
66	0.4	162	0.3	258	0.0	354	0.0	450	0.0	546	0.0
68	0.4	164	0.3	260	0.0	356	0.0	452	0.0	548	0.0
70	0.4	166	0.3	262	0.0	358	0.0	454	0.0	550	0.0
72	0.4	168	0.3	264	0.0	360	0.0	456	0.0	552	0.0
74	0.4	170	0.3	266	0.0	362	0.0	458	0.0	554	0.0
76	0.4	172	0.3	268	0.0	364	0.0	460	0.0	556	0.0
78	0.4	174	0.3	270	0.0	366	0.0	462	0.0	558	0.0
80	0.4	176	0.3	272	0.0	368	0.0	464	0.0	560	0.0
82	0.4	178	0.3	274	0.0	370	0.0	466	0.0	562	0.0
84	0.4	180	0.0	276	0.0	372	0.0	468	0.0	564	0.0
86	0.4	182	0.0	278	0.0	374	0.0	470	0.0	566	0.0
88	0.4	184	0.0	280	0.0	376	0.0	472	0.0	568	0.0
90	0.4	186	0.0	282	0.0	378	0.0	474	0.0	570	0.0
92	0.4	188	0.0	284	0.0	380	0.0	476	0.0	572	0.0
94	0.4	190	0.0	286	0.0	382	0.0	478	0.0	574	0.0
96	0.3	192	0.0	288	0.0	384	0.0	480	0.0	576	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
578	0.0	674	0.0	770	0.0	866	0.0	962	0.0	1058	0.0
580	0.0	676	0.0	772	0.0	868	0.0	964	0.0	1060	0.0
582	0.0	678	0.0	774	0.0	870	0.0	966	0.0	1062	0.0
584	0.0	680	0.0	776	0.0	872	0.0	968	0.0	1064	0.0
586	0.0	682	0.0	778	0.0	874	0.0	970	0.0	1066	0.0
588	0.0	684	0.0	780	0.0	876	0.0	972	0.0	1068	0.0
590	0.0	686	0.0	782	0.0	878	0.0	974	0.0	1070	0.0
592	0.0	688	0.0	784	0.0	880	0.0	976	0.0	1072	0.0
594	0.0	690	0.0	786	0.0	882	0.0	978	0.0	1074	0.0
596	0.0	692	0.0	788	0.0	884	0.0	980	0.0	1076	0.0
598	0.0	694	0.0	790	0.0	886	0.0	982	0.0	1078	0.0
600	0.0	696	0.0	792	0.0	888	0.0	984	0.0	1080	0.0
602	0.0	698	0.0	794	0.0	890	0.0	986	0.0	1082	0.0
604	0.0	700	0.0	796	0.0	892	0.0	988	0.0	1084	0.0
606	0.0	702	0.0	798	0.0	894	0.0	990	0.0	1086	0.0
608	0.0	704	0.0	800	0.0	896	0.0	992	0.0	1088	0.0
610	0.0	706	0.0	802	0.0	898	0.0	994	0.0	1090	0.0
612	0.0	708	0.0	804	0.0	900	0.0	996	0.0	1092	0.0
614	0.0	710	0.0	806	0.0	902	0.0	998	0.0	1094	0.0
616	0.0	712	0.0	808	0.0	904	0.0	1000	0.0	1096	0.0
618	0.0	714	0.0	810	0.0	906	0.0	1002	0.0	1098	0.0
620	0.0	716	0.0	812	0.0	908	0.0	1004	0.0	1100	0.0
622	0.0	718	0.0	814	0.0	910	0.0	1006	0.0	1102	0.0
624	0.0	720	0.0	816	0.0	912	0.0	1008	0.0	1104	0.0
626	0.0	722	0.0	818	0.0	914	0.0	1010	0.0	1106	0.0
628	0.0	724	0.0	820	0.0	916	0.0	1012	0.0	1108	0.0
630	0.0	726	0.0	822	0.0	918	0.0	1014	0.0	1110	0.0
632	0.0	728	0.0	824	0.0	920	0.0	1016	0.0	1112	0.0
634	0.0	730	0.0	826	0.0	922	0.0	1018	0.0	1114	0.0
636	0.0	732	0.0	828	0.0	924	0.0	1020	0.0	1116	0.0
638	0.0	734	0.0	830	0.0	926	0.0	1022	0.0	1118	0.0
640	0.0	736	0.0	832	0.0	928	0.0	1024	0.0	1120	0.0
642	0.0	738	0.0	834	0.0	930	0.0	1026	0.0	1122	0.0
644	0.0	740	0.0	836	0.0	932	0.0	1028	0.0	1124	0.0
646	0.0	742	0.0	838	0.0	934	0.0	1030	0.0	1126	0.0
648	0.0	744	0.0	840	0.0	936	0.0	1032	0.0	1128	0.0
650	0.0	746	0.0	842	0.0	938	0.0	1034	0.0	1130	0.0
652	0.0	748	0.0	844	0.0	940	0.0	1036	0.0	1132	0.0
654	0.0	750	0.0	846	0.0	942	0.0	1038	0.0	1134	0.0
656	0.0	752	0.0	848	0.0	944	0.0	1040	0.0	1136	0.0
658	0.0	754	0.0	850	0.0	946	0.0	1042	0.0	1138	0.0
660	0.0	756	0.0	852	0.0	948	0.0	1044	0.0	1140	0.0
662	0.0	758	0.0	854	0.0	950	0.0	1046	0.0	1142	0.0
664	0.0	760	0.0	856	0.0	952	0.0	1048	0.0	1144	0.0
666	0.0	762	0.0	858	0.0	954	0.0	1050	0.0	1146	0.0
668	0.0	764	0.0	860	0.0	956	0.0	1052	0.0	1148	0.0
670	0.0	766	0.0	862	0.0	958	0.0	1054	0.0	1150	0.0
672	0.0	768	0.0	864	0.0	960	0.0	1056	0.0	1152	0.0

©1982-2015 XP Solutions

Input Hydrograph Manhole 69, DS/PN 15.003 (PLANNING-SW-DESIGN.SWS)
1440 minute 100 year Winter
Input Hydrograph Type: User Defined

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1154	0.0	1250	0.0	1346	0.0	1442	0.0	1538	0.0	1634	0.0
1156	0.0	1252	0.0	1348	0.0	1444	0.0	1540	0.0	1636	0.0
1158	0.0	1254	0.0	1350	0.0	1446	0.0	1542	0.0	1638	0.0
1160	0.0	1256	0.0	1352	0.0	1448	0.0	1544	0.0	1640	0.0
1162	0.0	1258	0.0	1354	0.0	1450	0.0	1546	0.0	1642	0.0
1164	0.0	1260	0.0	1356	0.0	1452	0.0	1548	0.0	1644	0.0
1166	0.0	1262	0.0	1358	0.0	1454	0.0	1550	0.0	1646	0.0
1168	0.0	1264	0.0	1360	0.0	1456	0.0	1552	0.0	1648	0.0
1170	0.0	1266	0.0	1362	0.0	1458	0.0	1554	0.0	1650	0.0
1172	0.0	1268	0.0	1364	0.0	1460	0.0	1556	0.0	1652	0.0
1174	0.0	1270	0.0	1366	0.0	1462	0.0	1558	0.0	1654	0.0
1176	0.0	1272	0.0	1368	0.0	1464	0.0	1560	0.0	1656	0.0
1178	0.0	1274	0.0	1370	0.0	1466	0.0	1562	0.0	1658	0.0
1180	0.0	1276	0.0	1372	0.0	1468	0.0	1564	0.0	1660	0.0
1182	0.0	1278	0.0	1374	0.0	1470	0.0	1566	0.0	1662	0.0
1184	0.0	1280	0.0	1376	0.0	1472	0.0	1568	0.0	1664	0.0
1186	0.0	1282	0.0	1378	0.0	1474	0.0	1570	0.0	1666	0.0
1188	0.0	1284	0.0	1380	0.0	1476	0.0	1572	0.0	1668	0.0
1190	0.0	1286	0.0	1382	0.0	1478	0.0	1574	0.0	1670	0.0
1192	0.0	1288	0.0	1384	0.0	1480	0.0	1576	0.0	1672	0.0
1194	0.0	1290	0.0	1386	0.0	1482	0.0	1578	0.0	1674	0.0
1196	0.0	1292	0.0	1388	0.0	1484	0.0	1580	0.0	1676	0.0
1198	0.0	1294	0.0	1390	0.0	1486	0.0	1582	0.0	1678	0.0
1200	0.0	1296	0.0	1392	0.0	1488	0.0	1584	0.0	1680	0.0
1202	0.0	1298	0.0	1394	0.0	1490	0.0	1586	0.0	1682	0.0
1204	0.0	1300	0.0	1396	0.0	1492	0.0	1588	0.0	1684	0.0
1206	0.0	1302	0.0	1398	0.0	1494	0.0	1590	0.0	1686	0.0
1208	0.0	1304	0.0	1400	0.0	1496	0.0	1592	0.0	1688	0.0
1210	0.0	1306	0.0	1402	0.0	1498	0.0	1594	0.0	1690	0.0
1212	0.0	1308	0.0	1404	0.0	1500	0.0	1596	0.0	1692	0.0
1214	0.0	1310	0.0	1406	0.0	1502	0.0	1598	0.0	1694	0.0
1216	0.0	1312	0.0	1408	0.0	1504	0.0	1600	0.0	1696	0.0
1218	0.0	1314	0.0	1410	0.0	1506	0.0	1602	0.0	1698	0.0
1220	0.0	1316	0.0	1412	0.0	1508	0.0	1604	0.0	1700	0.0
1222	0.0	1318	0.0	1414	0.0	1510	0.0	1606	0.0	1702	0.0
1224	0.0	1320	0.0	1416	0.0	1512	0.0	1608	0.0	1704	0.0
1226	0.0	1322	0.0	1418	0.0	1514	0.0	1610	0.0	1706	0.0
1228	0.0	1324	0.0	1420	0.0	1516	0.0	1612	0.0	1708	0.0
1230	0.0	1326	0.0	1422	0.0	1518	0.0	1614	0.0	1710	0.0
1232	0.0	1328	0.0	1424	0.0	1520	0.0	1616	0.0	1712	0.0
1234	0.0	1330	0.0	1426	0.0	1522	0.0	1618	0.0	1714	0.0
1236	0.0	1332	0.0	1428	0.0	1524	0.0	1620	0.0	1716	0.0
1238	0.0	1334	0.0	1430	0.0	1526	0.0	1622	0.0	1718	0.0
1240	0.0	1336	0.0	1432	0.0	1528	0.0	1624	0.0	1720	0.0
1242	0.0	1338	0.0	1434	0.0	1530	0.0	1626	0.0	1722	0.0
1244	0.0	1340	0.0	1436	0.0	1532	0.0	1628	0.0	1724	0.0
1246	0.0	1342	0.0	1438	0.0	1534	0.0	1630	0.0	1726	0.0
1248	0.0	1344	0.0	1440	0.0	1536	0.0	1632	0.0	1728	0.0

©1982-2015 XP Solutions